



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)  
"JnanaSangama" Belagavi-590018, Karnataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D.  
REGISTRAR(I/C)

Phone: (0831) 2498100  
Fax : (0831) 2405467

REF: VTU/BGM/ACA/2022-23/ 4197

DATE: 19 NOV 2022

### Revised-NOTIFICATION

**Subject:** - Revised-Academic Calendar of 1<sup>st</sup> semesters of B.E./B.Tech./B.Arch./B.Plan., programs of University regarding...

**Reference:** The Hon'ble Vice-Chancellor's approval dated: 18.11.2022

The revised-academic calendar concerned to 1<sup>st</sup> semester of B.E./B.Tech./B.Arch./B.Plan., programs of University for academic year 2022-23 are hereby notified as mentioned below;

Revised Academic Calendar for I Semester of UG programs for the Academic Year 2022-23 (Tentative)			
Details	I semester B.E./B.Tech.	I semester B.Arch.	I semester B.Plan
**Induction Program	01.12.2022 To 10.12.2022	01.12.2022 To 10.12.2022	01.12.2022 To 10.12.2022
Commencement of I semester Classes	12.12.2022	12.12.2022	12.12.2022
Last Working day of I Semester	31.03.2023	31.03.2023	31.03.2023
Practical Examinations	03.04.2023 To 14.04.2023	03.04.2023 To 14.04.2023	03.04.2023 To 14.04.2023
Theory Examinations	17.04.2023 To 10.05.2023	17.04.2023 To 10.05.2023	17.04.2023 To 10.05.2023
Commencement of II Semester	15.05.2023	15.05.2023	15.05.2023

#### Please Note:

- The academic sessions for ODD semesters should commence on the **date mentioned** above.
- \*\* Induction Program** shall be conducted for 10 days at the beginning of 1<sup>st</sup> semester and 11 days at the beginning of the 2<sup>nd</sup> semester.

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During the induction program, college must brief about the new curriculum implemented from the academic year 2022-23.

- The Institute needs to function for **six days** a week with Saturday being half a working day. #if required, the college can also plan to have extra classes on Saturday afternoons and Sundays full day to complete academic activities within the duration mentioned.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- AICTE Activity point details circular will be issued by the Registrar's office separately.
- If any clarification/correction, please email to - [sbhvtuso@yahoo.com](mailto:sbhvtuso@yahoo.com)

The Principals of Affiliated, Constituent and Autonomous Engineering Colleges, Chairpersons of the University departments are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.
2. The chairperson, of the Department of Mechanical Engineering /Civil Engineering /Computer Science and Engineering, Electronics & Communication Engineering of the University.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. Special Officer QPDS VTU Belagavi for information
4. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
5. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
6. The Director of Physical Education, VTU Belagavi for information
7. OS for information and make arrangements to send the circular regarding AICTE Activity Points
8. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

*Reg* 19/11/22 BE  
REGISTRAR  
F.



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

(ವಿಜಯ ಅಧಿನಿಯಮ ೧೯೯೪ ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D.

Fax : (0831) 2405467

Phone: (0831) 2498100 REGISTRAR

REF: VTU/BGM/ACA/2022-23/ 6241

DATE: 21 JAN 2023

### Revised-NOTIFICATION

**Subject:** - Revised-Academic Calendar of 3<sup>rd</sup> semester of B.E./B.Tech., programs of University regarding...

**Reference:** Dean Faculty of Engineering, VTU Belagavi approval dated 20.01.2023

Hon'ble Vice-Chancellor's approval dated: 20.01.2023

The revised-academic calendar concerned to 3<sup>rd</sup> semester of B.E./B.Tech., programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

Revised Academic Calendar for 3rd-semester B.E./B.Tech. Programs		
Details	Existing Dates	Revised Dates
Commencement of III semester	31.10.2022	31.10.2022
Commencement of Classes for Lateral Entry students	-----	06.02.2023
Last working date	11.02.2023	01.04.2023
Practical Examinations Regular Students	13.02.2023 To 21.02.2023	04.04.2023 To 13.04.2023
Theory Examinations	22.02.2023 To 22.03.2023	17.04.2023 To 05.05.2023
Practical Examination for Lateral Entry students	-----	08.05.2023 To 13.05.2023
Intra/Inter Institute Internship	26.03.2023 To 16.04.2023	----
Commencement of IV semester	17.04.2023	15.05.2023

**Please Note:**

- The Institute needs to function for **six days** a week with **Saturday** being a full working day. Timing for the classes is either 08.00 am to 04.15 pm or 09.00 am to 05.00 pm in total 08 hours a day. #if required, the college can also plan to have extra classes on Sundays to complete academic activities within the duration mentioned.
- **Separate classes** should be conducted for lateral entry students as per the revised academic calendar; however, the regular students may attend the classes along with lateral entry students for review.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. If any changes are to be affected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- The college has to conduct offline classes to cover **80%** of the syllabus of the courses; however, **20%** of the syllabus can be covered in virtual model (Online) mode. **Attendance** of the students for offline and online classes is mandatory and records should be maintained and submitted to the university whenever informed.
- AICTE Activity point details circular will be issued by the Registrar's office separately.
- If any clarification/correction, please email-[registrar@vtu.ac.in](mailto:registrar@vtu.ac.in) or [sbhvtuso@yahoo.com](mailto:sbhvtuso@yahoo.com)
- **Intra/Inter Institute Internship for lateral entry students shall be conducted parallelly with academic activities of even the semester.**

The Principals of Affiliated, Constituent and Autonomous Engineering Colleges, Chairpersons of the University departments are hereby informed to bring the revised-academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.
2. The chairperson, of the Department of Mechanical Engineering /Civil Engineering /Computer Science and Engineering& Communication Electronics Engineering of the University.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. OS for information and make arrangements to send the circular regarding AICTE Activity Points
7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

REGISTRAR

2/2



# K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CALENDAR OF EVENTS: VII ODD SEMESTER (2022-2023)

SESSION: SEP 2022 – DEC 2022

Week No.	Month	Day						Days	Activities	Dept Activities
		Mon	Tue	Wed	Thu	Fri	Sat			
1	SEP	19*	20	21	22	23	24 DH	5	19*-Commencement of VII Semester	
2	SEP/OCT	26	27	28	29	30	1	6	1 - Wednesday Time Table	
3	OCT	3	4H	5H	6	7	8 DH	3	4-Ayudha Pooja 5- Vijaya Dasami	
4	OCT	10	11	12	13	14	15 TA	6	15-Friday Time Table	
5	OCT	17 T1	18 T1	19 T1	20	21	22 DH	5		
6	OCT	24 H	25	26 H	27 LT1	28LT1	29 LT1	4	24-Naraka Chaturdashi 26- Balipadyami Deepavalli	
7	OCT/NOV	31	1H	2	3* FFB1	4 BV	5 DH	4	1- Kannada Rajyotsava 3* - First Faculty Feed Back	31-CCM-1 2-Performance Report-1 to parents
8	NOV	7 ASD	8	9	10	11H	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table	
9	NOV	14	15	16	17	18 TA	19 DH	5		14-Project Work Phase-I Zeroth Review 18-Avaali Solutions Internship Talk
10	NOV	21 T2	22 T2	23 T2	24	25	26	6	26 - Wednesday Time Table	25-Talk on UI-UX Design
11	NOV/DEC	28 * FFB2	29	30 BV	1	2 ASD	3 DH	5	28* -Second Faculty Feed Back	
12	DEC	5	6	7	8	9	10	6	10- Tuesday Time Table	5-CCM-2 6-Performance Report-2 to parents
13	DEC	12	13	14	15	16	17 DH	5		
14	DEC	19	20	21 TA	22 T3	23 T3	24 T3	6		
15	DEC	26	27	28 LT2	29 LT2	30 LT2	31*	6	31-Monday Time Table 31 - Last Working day	26-Project Work Phase-I First Review

**Total No of Working Days : 77**

Total Number of working days ( Excluding holidays and Tests)=62

<b>H</b>	Holiday
<b>BV</b>	Blue Book Verification
<b>T1,T2,T3</b>	Tests 1,2, 3
<b>ASD</b>	Attendance & Sessional Display
<b>DH</b>	Declared Holiday
<b>LT</b>	Lab Test
<b>TA</b>	Test attendance

Monday	13
Tuesday	13
Wednesday	12
Thursday	12
Friday	12
<b>Total</b>	<b>62</b>

Head of the Department  
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# K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CALENDAR OF EVENTS: III ODD SEMESTER (2022-2023)

SESSION: OCT 2022 – APR 2023

Week No.	Month	Day						Days	Activities	Dept. Activities
		Mon	Tue	Wed	Thu	Fri	Sat			
1	OCT/NOV	31*	1H	2	3	4 TA	5 DH	4	31* - Commencement of III Sem 1- Kannada Rajyotsava	4- Technical Talk on Innovation
2	NOV	7	8	9	10	11H	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table	
3	NOV	14	15	16	17	18	19 DH	5		17- Industrial Visit -Tech Summit
4	NOV	21	22	23	24	25	26 TA	6	26 - Wednesday Time Table	
5	NOV/DEC	28 T1	29 T1	30 T1	1	2	3 DH	5		
6	DEC	5	6	7	8 LT1	9 LT1	10 LT1	6		
7	DEC	12* FFB1	13 BV	14 ASD	15	16	17 DH	5	12* - First Faculty Feed Back	12-CCM-1 13- Performance Report-1 to parents
8	DEC	19	20	21	22	23	24	6	24 - Wednesday Time Table	24-PTM-1
9	DEC	26	27	28	29	30	31 TA	6	31 - Monday Time Table	
10	JAN	2 T2	3 T2	4 T2	5	6	7 DH	5		
11	JAN	9	10	11	12 BV	13 ASD	14	6	14- Friday Time Table	
12	JAN	16* FFB2	17	18	19	20	21 DH	5	16* - First Faculty Feed Back	17-Workshop on Cyber Safety 20- Performance Report-2 to parents & CCM-2,
13	JAN	23	24	25	26 H	27	28	5	26- Republic Day 28- Wednesday Time Table	
14	JAN/FEB	30	31	1	2	3	4 DH	5		
15	FEB	6	7	8	9	10	11	6	11- Thursday Time Table	8-Workshop 10- Performance Report-3 to parents
16	FEB	13	14	15	16	17	18 DH	5	18- Maha Shivaratri	
17	FEB	20	21	22	23	24	25	6	25- Wednesday Time Table	20-TCS TechBytes Quiz
18	FEB/MAR	27	28	1	2	3	4 DH	5		27-Heritage Tour-Janapada loka 4- Open Day at IISC
19	MAR	6* FFB2	7	8	9	10	11	6	6* - Second Faculty Feed Back 11 - Tuesday Time Table	
20	MAR	13	14	15	16	17	18 DH	5		
21	MAR	20 LT2	21 LT2	22 H	23 LT2	24 TA	25	5	22- Ugadi 25-Tuesday Time Table	20-FDP on Data Science
22	MAR/APR	27 T3	28 T3	29 T3	30	31	1*	6	1* - Last Working day 1- Monday Time Table	

**Total No of Working Days : 118**

Total Number of working days ( Excluding holidays and Tests)=103

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	20
Tuesday	20
Wednesday	22
Thursday	20
Friday	21
<b>Total</b>	<b>103</b>

*[Signature]*  
 Head of the Department  
 Dept. of Computer Science & Engg  
 K.S. Institute of Technology  
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*[Signature]*  
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# K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

CALENDAR OF EVENTS: V ODD SEMESTER (2022-2023)  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
SESSION: OCT 2022 – JAN 2023

Week No.	Month	Day						Days	Activities	Dept Activities
		Mon	Tue	Wed	Thu	Fri	Sat			
1	OCT	10*	11	12	13	14	15	6	10* - Commencement of V Sem 15- Friday Time Table	
2	OCT	17	18	19	20	21	22 DH	5		
3	OCT	24 H	25	26 H	27	28	29	4	24-Naraka Chaturdashi 26- Balipadyami Deepavalli 29- Wednesday Time Table	
4	OCT/NOV	31	1H	2	3	4	5 DH	4	1- Kannada Rajyotsava	3- Technical Talk on Innovation
5	NOV	7	8	9	10	11H	12 TA	5	11- Kanakadasa Jayanti 12- Tuesday Time Table	11,12-Workshop on "Application of IOT"
6	NOV	14 T1	15 T1	16 T1	17	18	19 DH	5		
7	NOV	21	22	23 LT1	24 LT1	25 LT1	26	6	26 - Wednesday Time Table	
8	NOV/DEC	28 * FFB1	29 BV	30 ASD	1	2	3 DH	5	28* - First Faculty Feed Back	28-CCM-1 29-Performance Report-1 to parents
9	DEC	5	6	7	8	9	10	6	10- Tuesday Time Table	10,11-Workshop on "Introduction to IOT"
10	DEC	12	13	14	15	16 TA	17 DH	5		16-Synergy
11	DEC	19 T2	20 T2	21 T2	22	23	24	6	24 - Wednesday Time Table	
12	DEC	26	27	28	29 * FFB2	30 BV	31 ASD	6	29* -Second Faculty Feed Back 31 - Monday Time Table	
13	JAN	2	3	4	5	6	7 DH	5		2-CCM-2 3-Performance Report-1 to parents
14	JAN	9	10	11	12	13	14 H	5	14- Makara Sankranti	
15	JAN	16	17 TA	18 T3	19 T3	20 T3	21 DH	5		
16	JAN	23 LT2	24 LT2	25 LT2	26 H	27*		4	26- Republic Day 27* - Last Working day	23-Talk on Higher Education

**Total No of Working Days : 82**

**Total Number of working days ( Excluding holidays and Tests)=67**

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2, 3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	13
Thursday	14
Friday	14
<b>Total</b>	<b>67</b>

*S. Narayana*  
Head of the Department  
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Bengaluru -560 109

*A. K. Srinivas*  
PRINCIPAL  
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BENGALURU - 560 109



# K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: 1 ODD SEMESTER (2022-2023)

SESSION: DEC 2022 - MAR 2023

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	DEC				1*	2	3 DH	2	1* - Commencement of 1 Sem
2	DEC	5	6	7	8	9	10	6	10- Tuesday Time Table
3	DEC	12	13	14	15	16	17 DH	5	
4	DEC	19	20	21	22	23	24	6	24 - Wednesday Time Table
5	DEC	26	27	28	29	30	31	6	31 - Monday Time Table
6	JAN	2	3	4	5	6	7 DH	5	
7	JAN	9	10	11	12	13 TA	14 H	5	14- Makara Sankranthi
8	JAN	16 T1	17 T1	18 T1	19	20	21 DH	5	
9	JAN	23	24 LT1	25 LT1	26 H	27 LT1	28	5	26- Republic Day 28- Wednesday Time Table
10	JAN/FEB	30* FFB1	31 BV	1 ASD	2	3	4 DH	5	30* - First Faculty Feed Back
11	FEB	6	7	8	9	10	11	6	11- Thursday Time Table
12	FEB	13	14	15	16	17 TA	18 DH	5	18- Maha Shivaratri
13	FEB	20 T2	21 T2	22 T2	23	24	25	6	25- Wednesday Time Table
14	FEB/MAR	27	28	1	2 BV	3 ASD	4 DH	5	
15	MAR	6* FFB2	7	8	9 LT2	10 LT2	11 LT2	6	6* - Second Faculty Feed Back
16	MAR	13 TA	14 IT	15 IT	16 IT	17	18*	6	18* - Last Working day 18 - Tuesday Time Table

**Total No of Working Days : 84**

Total Number of working days ( Excluding holidays and Tests)=69

H	Holiday
BV	Blue Book Verification
T1,T2	Tests 1,2
IT	Improvement Test
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT1, LT2	Lab Test 1,2
TA	Test attendance

Monday	14
Tuesday	13
Wednesday	14
Thursday	14
Friday	14
Total	69

16/11/22  
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 BENGALURU - 560 109.





# K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: III ODD SEMESTER (2022-2023)

SESSION: OCT 2022 – FEB 2023

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	OCT		25*	26 H	27	28	29	4	25* - Commencement of III Sem 26- Balipadyami Deepavalli 29- Friday Time Table
2	OCT/NOV	31	1H	2	3	4 TA	5 DH	4	1- Kannada Rajyotsava
3	NOV	7	8	9	10	11H	12	5	11- Kanakadasa Jayanti 12- Wednesday Time Table
4	NOV	14	15	16	17	18 TA	19 DH	5	
5	NOV	21 T1	22 T1	23 T1	24	25	26	6	26- Monday Time Table
6	NOV/DEC	28	29	30 LT1	1 LT1	2 LT1	3 DH	5	
7	DEC	5* FFB1	6 BV	7 ASD	8	9	10	6	10- Tuesday Time Table 5* - First Faculty Feed Back
8	DEC	12	13	14	15	16	17 DH	5	
9	DEC	19	20	21	22	23	24 TA	6	24 - Thursday Time Table
10	DEC	26 T2	27 T2	28 T2	29	30	31 DH	5	
11	JAN	2* FFB2	3	4	5 BV	6	7 ASD	6	2- First Faculty Feed Back 7-Wednesday Time Table
12	JAN	9	10	11	12	13	14 DH	5	
13	JAN	16	17	18	19	20	21 TA	6	21- Monday Time Table
14	JAN	23 T3	24 T3	25 T3	26 H	27	28 DH	4	
15	JAN/FEB	30	31	1 LT2	2 LT2	3 LT2	4*	6	4- Wednesday Time Table 4* - Last Working day

Total No of Working Days : 78

Total Number of working days ( Excluding holidays and Tests)=63

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	12
Wednesday	12
Thursday	13
Friday	13
<b>Total</b>	<b>63</b>

*Bhuvan C*  
22/08/22  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109



# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: V ODD SEMESTER (2022-2023)

SESSION: OCT 2022 - JAN 2023

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	OCT	10*	11	12	13	14	15	6	10* - Commencement of V Sem 15-Wednesday Time Table
2	OCT	17	18	19	20	21	22 DH	5	
3	OCT	24 H	25	26 H	27	28	29	4	24-Naraka Chaturdashi 26- Bahupadyami Deepavalli 29- Friday Time Table
4	OCT/NOV	31	1H	2	3	4 TA	5 DH	4	1- Kannada Rajyotsava
5	NOV	7 T1	8 T1	9 T1	10	11H	12	5	11- Kanakadasa Jayanti 12- Wednesday Time Table
6	NOV	14	15	16 LT1	17 LT1	18 LT1	19 DH	5	
7	NOV	21* FFB1	22 BV	23 ASD	24	25	26	6	21* - First Faculty Feed Back 26 - Morday Time Table
8	NOV/DEC	28	29	30	1	2	3 DH	5	
9	DEC	5	6	7	8	9	10 TA	6	10- Tuesday Time Table
10	DEC	12 T2	13 T2	14 T2	15	16	17 DH	5	
11	DEC	19* FFB2	20	21	22 BV	23	24 ASD	6	19* -Second Faculty Feed Back 24 - Thursday Time Table
12	DEC	26	27	28	29	30	31 DH	5	
13	JAN	2	3	4	5	6	7	6	7-Wednesday Time Table
14	JAN	9	10 TA	11 T3	12 T3	13 T3	14 DH	5	
15	JAN	16	17	18 LT2	19 LT2	20 LT2	21*	6	21- Wednesday Time Table 21* - Last Working day

Total No of Working Days : 79

Total Number of working days ( Excluding holidays and Tests)=64

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2, 3
ASD	Attendance & Seasonal Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	13
Thursday	13
Friday	12
Total	64

*S. Kumar. C*  
22/08/22  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109



# K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: VII ODD SEMESTER (2022-2023)

SESSION: SEP 2022 - DEC 2022

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	SEP	19*	20	21	22	23	24 DH	5	19*-Commencement of VII Semester
2	SEP/OCT	26	27	28	29	30	1	6	1 - Wednesday Time Table
3	OCT	3	4H	5H	6	7	8 DH	3	4-Ayudha Pooja 5- Vijaya Dasami
4	OCT	10	11	12	13	14	15 TA	6	15-Friday Time Table
5	OCT	17 T1	18 T1	19 T1	20	21	22 DH	5	
6	OCT	24 H	25	26 H	27 LT1	28 LT1	29 LT1	4	24-Naraka Chaturdashi 26- Balipadyami Deepavalli
7	OCT/NOV	31	1H	2	3* FFB1	4 BV	5 DH	4	1- Kannada Rajyotsava 3* - First Faculty Feed Back
8	NOV	7 ASD	8	9	10	11H	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table
9	NOV	14	15	16	17	18 TA	19 DH	5	
10	NOV	21 T2	22 T2	23 T2	24	25	26	6	26 - Wednesday Time Table
11	NOV/DEC	28* FFB2	29	30 BV	1	2 ASD	3 DH	5	28* -Second Faculty Feed Back
12	DEC	5	6	7	8	9	10	6	10- Tuesday Time Table
13	DEC	12	13	14	15	16	17 DH	5	
14	DEC	19	20	21 TA	22 T3	23 T3	24 T3	6	
15	DEC	26	27	28 LT2	29 LT2	30 LT2	31*	6	31-Monday Time Table 31 - Last Working day

**Total No of Working Days : 77**

Total Number of working days ( Excluding holidays and Tests)=62

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Seasonal Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	12
Thursday	12
Friday	12
<b>Total</b>	<b>62</b>

*B. Kumar. C.*  
22/08/22  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109



# K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: V ODD SEMESTER (2022-2023)

SESSION: OCT 2022 -- JAN 2023

Week No.	Month	Day						Days	Activities
		Mou	Tue	Wed	Thu	Fri	Sat		
1	OCT	10*	11	12	13	14	15	6	10* - Commencement of V Sem 15-Wednesday Time Table
2	OCT	17	18	19	20	21	22 DH	5	
3	OCT	24 H	25	26 H	27	28	29	4	24-Naraka Chaturdashi 26- Balipadyami Deepavalli 29- Friday Time Table
4	OCT/NOV	31	1H	2	3	4 TA	5DH	4	1- Kannada Rajyotsava
5	NOV	7 T1	8 T1	9 T1	10	11H	12	5	11- Kanakadasa Jayanti 12- Wednesday Time Table
6	NOV	14	15	16 LT1	17 LT1	18 LT1	19 DH	5	
7	NOV	21* FFB1	22 BV	23 ASD	24	25	26	6	21* - First Faculty Feed Back 26 - Monday Time Table
8	NOV/DEC	28	29	30	1	2	3 DH	5	
9	DEC	5	6	7	8	9	10 TA	6	10- Tuesday Time Table
10	DEC	12 T2	13 T2	14 T2	15	16	17 DH	5	
11	DEC	19* FFB2	20	21	22 BV	23	24 ASD	6	19* -Second Faculty Feed Back 24 - Thursday Time Table
12	DEC	26	27	28	29	30	31 DH	5	
13	JAN	2	3	4	5	6	7	6	7-Wednesday Time Table
14	JAN	9	10 TA	11 T3	12 T3	13 T3	14 DH	5	
15	JAN	16	17	18 LT2	19 LT2	20 LT2	21*	6	21- Wednesday Time Table 21* - Last Working day

Total No of Working Days : 79

Total Number of working days ( Excluding holidays and Tests)=64

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2, 3
ASD	Attendance & Sectional Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	13
Thursday	13
Friday	12
Total	64

*S. Suman*  
22/08/22  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109



# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: VII ODD SEMESTER (2022-2023)

SESSION: SEP 2022 - DEC 2022

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	SEP	19*	20	21	22	23	24 DH	5	19*-Commencement of VII Semester
2	SEP/OCT	26	27	28	29	30	1	6	1 - Wednesday Time Table
3	OCT	3	4H	5H	6	7	8 DH	3	4-Ayudha Pooja 5- Vijaya Dasami
4	OCT	10	11	12	13	14	15 TA	6	15-Friday Time Table
5	OCT	17 T1	18 T1	19 T1	20	21	22 DH	5	
6	OCT	24 H	25	26 H	27 LT1	28 LT1	29 LT1	4	24-Naraka Chaturdashi 26- Balipadyami Deepavalli
7	OCT/NOV	31	1H	2	3* FFB1	4 BV	5 DH	4	1- Kannada Rajyotsava 3* - First Faculty Feed Back
8	NOV	7 ASD	8	9	10	11H	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table
9	NOV	14	15	16	17	18 TA	19 DH	5	
10	NOV	21 T2	22 T2	23 T2	24	25	26	6	26 - Wednesday Time Table
11	NOV/DEC	28* FFB2	29	30 BV	1	2 ASD	3 DH	5	28* -Second Faculty Feed Back
12	DEC	5	6	7	8	9	10	6	10- Tuesday Time Table
13	DEC	12	13	14	15	16	17 DH	5	
14	DEC	19	20	21 TA	22 T3	23 T3	24 T3	6	
15	DEC	26	27	28 LT2	29 LT2	30 LT2	31*	6	31-Monday Time Table 31 - Last Working day

Total No of Working Days : 77

Total Number of working days ( Excluding holidays and Tests)=62

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Seasonal Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	12
Thursday	12
Friday	12
<b>Total</b>	<b>62</b>

*Shanmug. C*  
22/08/22  
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BENGALURU - 560 109



# K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CALENDAR OF EVENTS: III ODD SEMESTER (2022-2023)

SESSION: OCT 2022 - APR 2023

Week No.	Month	Day						Days	Activities	Dept. Activities
		Mon	Tue	Wed	Thu	Fri	Sat			
1	OCT/NOV	31*	1H	2	3	4 TA	5 DH	4	31* - Commencement of III Sem 1- Kannada Rajyotsava	4- Technical Talk on Innovation
2	NOV	7	8	9	10	11H	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table	
3	NOV	14	15	16	17	18	19 DH	5		17- Industrial Visit -Tech Summit
4	NOV	21	22	23	24	25	26 TA	6	26 - Wednesday Time Table	
5	NOV/DEC	28 T1	29 T1	30 T1	1	2	3 DH	5		
6	DEC	5	6	7	8 LT1	9 LT1	10 LT1	6		
7	DEC	12* FFB1	13 BV	14 ASD	15	16	17 DH	5	12* - First Faculty Feed Back	12-CCM-1 13- Performance Report-1 to parents
8	DEC	19	20	21	22	23	24	6	24 - Wednesday Time Table	24-PTM-1
9	DEC	26	27	28	29	30	31 TA	6	31 - Monday Time Table	
10	JAN	2 T2	3 T2	4 T2	5	6	7 DH	5		
11	JAN	9	10	11	12 BV	13 ASD	14	6	14- Friday Time Table	
12	JAN	16* FFB2	17	18	19	20	21 DH	5	16* - First Faculty Feed Back	17-Workshop on Cyber Safety 20- Performance Report-2 to parents & CCM-2.
13	JAN	23	24	25	26 H	27	28	5	26- Republic Day 28- Wednesday Time Table	
14	JAN/FEB	30	31	1	2	3	4 DH	5		
15	FEB	6	7	8	9	10	11	6	11- Thursday Time Table	8-Workshop 10- Performance Report-3 to parents
16	FEB	13	14	15	16	17	18 DH	5	18- Maha Shivaratri	
17	FEB	20	21	22	23	24	25	6	25- Wednesday Time Table	20-TCS TechBytes Quiz
18	FEB/MAR	27	28	1	2	3	4 DH	5		27-Heritage Tour-Janapada loka 4- Open Day at IISC
19	MAR	6* FFB2	7	8	9	10	11	6	6* - Second Faculty Feed Back 11 - Tuesday Time Table	
20	MAR	13	14	15	16	17	18 DH	5		
21	MAR	20 LT2	21 LT2	22 H	23 LT2	24 TA	25	5	22- Ugadi 25-Tuesday Time Table	20-FDP on Data Science
22	MAR/APR	27 T3	28 T3	29 T3	30	31	1*	6	1* - Last Working day 1- Monday Time Table	

**Total No of Working Days : 118**

Total Number of working days ( Excluding holidays and Tests)=103

H	Holiday
BV	Blue Book Verification
T1, T2, T3	Tests 1, 2, 3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	20
Tuesday	20
Wednesday	22
Thursday	20
Friday	21
<b>Total</b>	<b>103</b>

**PRINCIPAL**  
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**BENGALURU - 560 109**

Head of the Department  
 Dept. of Computer Science & Engg  
 K.S. Institute of Technology  
 Bengaluru -560 109

**K.S.I.T**

# K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

CALENDAR OF EVENTS: V ODD SEMESTER (2022-2023)  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
SESSION: OCT 2022 - JAN 2023

Week No.	Month	Day						Days	Activities	Dept Activities
		Mon	Tue	Wed	Thu	Fri	Sat			
1	OCT	10*	11	12	13	14	15	6	10* - Commencement of V Sem 15- Friday Time Table	
2	OCT	17	18	19	20	21	22 DH	5		
3	OCT	24 H	25	26 H	27	28	29	4	24-Naraka Chaturdashi 26- Baipadyami Deepavalli 29- Wednesday Time Table	
4	OCT/NOV	31	1H	2	3	4	5 DH	4	1- Kannada Rajyotsava	3- Technical Talk on Innovation
5	NOV	7	8	9	10	11H	12 TA	5	11- Kanakadasa Jayanti 12- Tuesday Time Table	11,12-Workshop on "Application of IOT"
6	NOV	14 T1	15 T1	16 T1	17	18	19 DH	5		
7	NOV	21	22	23 LT1	24 LT1	25 LT1	26	6	26 - Wednesday Time Table	
8	NOV/DEC	28* FFB1	29 BV	30 ASD	1	2	3 DH	5	28* - First Faculty Feed Back	28-CCM-1 29-Performance Report-1 to parents
9	DEC	5	6	7	8	9	10	6	10- Tuesday Time Table	10,11-Workshop on "Introduction to IOT"
10	DEC	12	13	14	15	16 TA	17 DH	5		16-Synergy
11	DEC	19 T2	20 T2	21 T2	22	23	24	6	24 - Wednesday Time Table	
12	DEC	26	27	28	29* FFB2	30 BV	31 ASD	6	29* -Second Faculty Feed Back 31 - Monday Time Table	
13	JAN	2	3	4	5	6	7 DH	5		2-CCM-2 3-Performance Report-1 to parents
14	JAN	9	10	11	12	13	14 H	5	14- Makara Sankranti	
15	JAN	16	17 TA	18 T3	19 T3	20 T3	21 DH	5		
16	JAN	23 LT2	24 LT2	25 LT2	26 H	27*		4	26- Republic Day 27* - Last Working day	23-Talk on Higher Education

Total No of Working Days : 82

Total Number of working days ( Excluding holidays and Tests)=67

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2, 3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	13
Thursday	14
Friday	14
<b>Total</b>	<b>67</b>

*(Signature)*  
Head of the Department  
Dept of Computer Science & Engg  
K.S. Institute of Technology  
Bengaluru -560 109

*(Signature)*  
PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109



# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CALENDAR OF EVENTS- VII ODD SEMESTER (2022-2023)

SESSION: SEP 2022 - DEC 2022

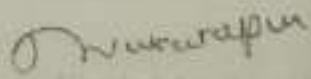
Week No.	Month	Day						Days	Activities	Dept Activities
		Mon	Tue	Wed	Thu	Fri	Sat			
1	SEP	19*	20	21	22	23	24 DH	5	19* Commencement of VII Semester	
2	SEP/OCT	26	27	28	29	30	1	6	1- Wednesday Time Table	
3	OCT	3	4H	5H	6	7	8 DH	3	4-Ayudha Pooja 5- Vijaya Dasara	
4	OCT	10	11	12	13	14	15 TA	6	15-Friday Time Table	
5	OCT	17 T1	18 T1	19 T1	20	21	22 DH	5		
6	OCT	24 H	25	26 H	27 LT1	28 T1	29 LT1	4	24-Naraka Chaturdashi 26- Baligadyami Deepavali	
7	OCT/NOV	31	1H	2	3* FFB1	4 BV	5 DH	4	1- Kannada Rajyotsava 3* - First Faculty Feed Back	31-CCM-1 2-Performance Report-1 to parents
8	NOV	7 ASD	8	9	10	11H	12	5	11- Kankadana Jayanti 12- Tuesday Time Table	
9	NOV	14	15	16	17	18 TA	19 DH	5		14-Project Work Phase-I Zeroth Review 18-Avanti Solutions Internship Talk
10	NOV	20 T2	21 T2	23 T2	24	25	26	6	26 - Wednesday Time Table	25-Talk on UI-UX Design
11	NOV/DEC	27*	29	30 BV	1	2 ASD	3 DH	5	28* -Second Faculty Feed Back	
12	DEC	4	6	7	8	9	10	6	10- Tuesday Time Table	5-CCM-2 6-Performance Report-2 to parents
13	DEC	11	13	14	15	16	17 DH	5		
14	DEC	18	20	21 TA	22 T3	23 T3	24 T3	6		
15	DEC	25	27	28 LT2	29 LT2	30 LT2	31*	6	31-Monday Time Table 31 - Last Working day	26-Project Work Phase-I First Review

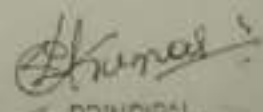
Total No of Working Days : 77

Total Number of working days ( Excluding holidays and Tests)=62

H	Holiday
BV	Brahmavaram
T1,T2,T3	1, 2, 3
ASD	Academic Social Days
DH	Day Holiday
LT	Leave
TA	Transfer

Monday	13
Tuesday	13
Wednesday	12
Thursday	12
Friday	12
<b>Total</b>	<b>62</b>

  
 Head of Department  
 Dept. of Computer Science & Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109

  
 PRINCIPAL  
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 BENGALURU - 560 109.





**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**TIME -TABLE FOR I SEMESTER (2022-2023)**  
**PHYSICS CYCLE**

Branch: Computer Science & Engg.  
 Class Teacher: Dr.MADHAVI S  
 Lecture Hall : NB First Floor 101

SECTION - A

W.e.f : 12.12.2022

PERIOD	1	2	10.20 AM - 10.35 AM	3	4	12.25 PM - 1.15 PM	5	6	7
TIME/ DAY	8.30 AM - 9.25 AM	9.25 AM - 10.20 AM		10.35 AM - 11.30 AM	11.30 AM - 12.25 PM		1.15 PM - 2.10 PM	2.10 PM - 3.05 PM	3.05 PM - 4.00 PM
MON	A1- MATHS A2- PHY A3- P PROGRAMMING		<b>BREAK</b>	PHY 22PHYS12	RES 22ETC15H	<b>LUNCH - BREAK</b>	BE 22ESC143	BE 22ESC143	
TUE	POP 22POP13	ENG 22ENG16		BE 22ESC143	MATS 22MATS11		PHY 22PHYS12	T	LIB
WED	PHY 22PHYS12	POP 22POP13		A1-PHY A2-P PROGRAMMING A3- MATHS			MATS 22MATS11	RES 22ETC15H	T
THU	BE 22ESC143	PHY 22PHYS12		RES 22ETC15H	MATS 22MATS11		POP 22POP13	BE 22ESC143	LIB
FRI	RES 22ETC15H	MATS 22MATS11		POP 22POP13	BE 22ESC143		A1-P PROGRAMMING A2- MATHS A3- PHY		LIB

SUBJECT CODE	SUBJECT NAME	FACULTY NAME
22MATS11	Mathematics for CSE Stream-I	Dr. JALAJA P
22PHYS12	Physics for CSE stream	Dr MADHAVI S
22POP13	Principles of Programming Using C	Mr KUMAR K
22ESC143	Introduction to Electronics Engineering	Mr SATISH KUMAR B
22ETC15H	Renewable Energy Sources	Dr NIRMALA
22ENG16	Communicative English	Mrs. ANURADHA M V
22ICO17	Indian Constitution	Mrs. ANURADHA M V
22SFH18	Scientific Foundations of Health	Mrs NANYA PRIYA D

*[Signature]*  
 Time Table Co-ordinator

*[Signature]*  
 Head of the Department  
 Dept. of Science and Humanities  
 K.S. Institute of Technology

*[Signature]*  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109



**K.S.INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**TIME -TABLE FOR I SEMESTER (2022-2023)**  
**PHYSICS CYCLE**

Branch: Computer Science & Engg.  
 Class Teacher: Mrs.LAKSHMI C  
 Lecture Hall :NB First Floor 102

SECTION : B

W.e.f : 12.12.2022

PERIOD	1	2	10.20 AM - 10.35 AM	3	4	12.25 PM - 1.15 PM	5	6	7	
TIME/ DAY	8.30 AM - 9.25 AM	9.25 AM - 10.20 AM		10.35 AM - 11.30 AM	11.30 AM - 12.25 PM		1.15 PM - 2.10 PM	2.10 PM - 3.05 PM	3.05 PM - 4.00 PM	
MON	RES 22ETC15H	BE 22ESC143	<b>BREAK</b>	B1- MATHS B2- PHY		<b>LUNCH - BREAK</b>	POP 22POP13	MATS 22MATS11	T	
TUE	MATS 22MATS11	PHY 22PHYS12		B3- P PROGRAMMING			RES 22ETC15H	ENG 22ENG16	T	LIB
WED	B1-PHY B2-P PROGRAMMING B3- MATHS			POP 22POP13	BE 22ESC143		RES 22ETC15H	PHY 22PHYS12	T	T
THU	BE 22ESC143	MATS 22MATS11		PHY 22PHYS12	SFH 22SFH18		B1-P PROGRAMMING B2-MATHS B3- PHY		LIB	
FRI	POP 22POP13	MATS 22MATS11		RES 22ETC15H	PHY 22PHYS12		ICO 22ICO17	BE 22ESC143	BE 22ESC143	BE 22ESC143

SUBJECT CODE	SUBJECT NAME	FACULTY NAME
22MATS11	Mathematics for CSE Stream-I	Mrs.LAKSHMI C
22PHYS12	Physics for CSE stream	Dr.RENUKA C
22POP13	Principles of Programming Using C	MR.KUMAR K
22ESC143	Introduction to Electronics Engineering	Dr. DEVIKA B
22ETC15H	Renewable Energy Sources	Mrs.TEJASWINI M L
22ENG16	Communicative English	Mrs.ANURADHA M V
22ICO17	Indian Constitution	Mrs.ANURADHA M V
22SFH18	Scientific Foundations of Health	Mrs.NAMYA PRIYA D

Time Table Co-ordinator

Head of Department  
 Dept. of Science and Humanities  
 K.S. Institute of Technology  
 Bengaluru - 560 109

Principal  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109



**K.S.INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**TIME -TABLE FOR I SEMESTER (2022-2023)**  
**PHYSICS CYCLE**

Branch:Computer Science & Engg.  
 Class Teacher: Mrs.KAVYA T N  
 Lecture Hall :NB First Floor 104

SECTION : C

W.e.f: 12.12.2022

PERIOD	1	2	10.20 AM - 10.35 AM	3	4	12.25 PM - 1.15 PM	5	6	7
TIME/ DAY	8.30 AM - 9.05 AM	9.25 AM - 10.20 AM		10.35 AM - 11.30 AM	11.30 AM - 12.25 PM		1.15 PM - 2.10 PM	2.10 PM - 3.05 PM	3.05 PM - 4.00 PM
MON	PHY 22PHYS12	MATS 22MATS11	<b>BREAK</b>	BE 22ESC143	POP 22POP13	<b>LUNCH - BREAK</b>	RES 22ETC15H	C1- MATHS C2- PHY C3- P PROGRAMMING	
TUE	C1-PHY C2-P PROGRAMMING C3- MATHS			POP 22POP13	BE 22ESC143		PHY 22PHYS12	T	LIB
WED	RES 22ETC15H	MATS 22MATS11		PHY 22PHYS12	BE 22ESC143		POP 22POP13	SFH 22SFH18	ICO 22ICO17
THU	POP 22POP13	MATS 22MATS11		C1-P PROGRAMMING C2-MATHS C3- PHY			RES 22ETC15H	PHY 22PHYS12	T
FRI	BE 22ESC143	BE 22ESC143		RES 22ETC15H	ENG 22ENG16		MATS 22MATS11	T	LIB

SUBJECT CODE	SUBJECT NAME	FACULTY NAME
22MATS11	Mathematics for CSE Stream-I	Dr.VENKATARAMANA B S
22PHYS12	Physics for CSE stream	Mrs.KAVYA T N
22POP13	Principles of Programming Using C	Mr.HARSHAVARDHAN J R
22ESC143	Introduction to Electronics Engineering	Mr.SAMPATH KUMAR S
22ETC15H	Renewable Energy Sources	Mr.HARISH U
22ENG16	Communicative English	Mrs.ANURADHA M V
22ICO17	Indian Constitution	Mrs.ANURADHA M V
22SFH18	Scientific Foundations of Health	Mrs.NAMYA PRIYA D

Time Table Co-ordinator

Head of the Department  
 Dept. of Science and Humanities  
 K.S. Institute of Technology  
 Bengaluru - 560 109

Principal  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**III SEMESTER TIME TABLE FOR THE YEAR 2022-2023 (ODD SEMESTER)**

W.E.F: 31-10-2022

SEC: 'A'

CLASS TEACHER: Mrs. Supreetha Ganesh  
 CLASS ROOM: OB LH-206

PERIOD	1	2	10:20 AM-10:35 AM	3	4	12:25 PM-01:15 PM	5	6	7	
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM		01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM	
MON	TCFS & NT (21MAT31)	DSA (21CS32)	<b>TEA BREAK</b>	CIP (21CIP37)	ADE (21CS33)	<b>LUNCH BREAK</b>	DS LAB - A1 BATCH			
TUE	ADE (21CS33)	CO&A (21CS34)		TCFS & NT (21MAT31)	DSA (21CS32)		ADE LAB - A2 BATCH , JAVA LAB - A3			
WED	CO&A (21CS34)	TCFS & NT (21MAT31)		ADE (21CS33)	DSA (21CS32)		MASTERING OFFICE (AEC) - A1 BATCH		Tutorial	
THUR	DS LAB - A2 BATCH				SCR (21UH36)		DS LAB - A3 BATCH			
	ADE LAB - A3 BATCH , JAVA LAB - A1						ADE LAB - A1 BATCH , JAVA LAB - A2			
FRI	DSA (21CS32)	CO&A (21CS34)		MASTERING OFFICE (AEC) - A3 BATCH			CO&A (21CS34)	MASTERING OFFICE (AEC) - A2 BATCH		
							TCFS & NT (21MAT31)	ADE (21CS33)	Tutorial	

Subject Code	Subject Name	Faculty Name
21MAT31	TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES	Mrs. Lakshmi
21CS32	DATA STRUCTURES AND APPLICATIONS	Dr. Vijayalaxmi Mekali
21CS33	ANALOG AND DIGITAL ELECTRONICS	Mr. Sanjoy Das
21CS34	COMPUTER ORGANIZATION AND ARCHITECTURE	Mr. Roopesh Kumar B N
21CSL35	OBJECT ORIENTED PROGRAMMING WITH JAVA LABORATORY	Mr. Raghavendrachar S & Mr. Prashanth H S
21UH36	SOCIAL CONNECT AND RESPONSIBILITY	Mrs. Rashmi H
21CIP37	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	Mrs. Anuradha M V
21CSL381	MASTERING OFFICE	Mr. Lakshmikanth
21CS32	DS LAB	Dr. Vijayalaxmi Mekali & Mrs. Pallavi K N
21CS33	ADE LAB	Mr. Sanjoy Das & Mr. Manoj Kumar S

*S. S. S.*  
 TIME TABLE INCHARGE

*S. A. S.*  
 (F) HOD

*S. Kumar*  
 PRINCIPAL  
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**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**III SEMESTER TIME TABLE FOR THE YEAR 2022 - 2023 (ODD SEMESTER)**

W.E.F: 31-10-2022  
 SEC: 'B'

CLASS TEACHER: Mrs. Rashmi H  
 CLASS ROOM: OB LH-207

PERIOD	1	2	10:20 AM-10:35 AM	3	4		5	6	7	
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM		12:25 PM-01:15 PM	01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM
MON	SCR (21UH36)	ADE (21CS33)	<b>TEA BREAK</b>	TCFS & NT (21MAT31)	DSA (21CS32)	<b>LUNCH BREAK</b>	MASTERING OFFICE (AEC) - B1 BATCH		Tutorial	
TUE	DSA (21CS32)	TCFS & NT (21MAT31)		CO&A (21CS34)	ADE (21CS33)		DS LAB - B1 BATCH ADE LAB - B2 BATCH, JAVA LAB - B3			
WED	ADE (21CS33)	DSA (21CS32)		TCFS & NT (21MAT31)	CO&A (21CS34)		CO&A (21CS34)	MASTERING OFFICE (AEC) - B2 BATCH		
THUR	CIP (21CIP37)	TCFS & NT (21MAT31)		CO&A (21CS34)	ADE (21CS33)		DS LAB - B3 BATCH ADE LAB - B1 BATCH, JAVA LAB - B2			
FRI	DS LAB - B2 BATCH ADE LAB - B3 BATCH, JAVA LAB - B1				DSA (21CS32)		MASTERING OFFICE (AEC) - B3 BATCH		Tutorial	

Subject Code	Subject Name	Faculty Name
21MAT31	TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES	Dr. Jalaja P
21CS32	DATA STRUCTURES AND APPLICATIONS	Dr. Vijayalaxmi Mekali
21CS33	ANALOG AND DIGITAL ELECTRONICS	Mr. Sanjoy Das
21CS34	COMPUTER ORGANIZATION AND ARCHITECTURE	Mr. Roopesh Kumar B N
21CSL35	OBJECT ORIENTED PROGRAMMING WITH JAVA LABORATORY	Mr. Prashanth H S
21UH36	SOCIAL CONNECT AND RESPONSIBILITY	Mrs. Rashmi H
21CIP37	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	Mrs. Anuradha M V
21CSL381	MASTERING OFFICE	Mr. Lakshmikanth
21CS32	DS LAB	Mrs. Pallavi K N & Mrs. Geetha R
21CS33	ADE LAB	Mrs. Supreetha Ganesh & Mr Kushal Kumar B N

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# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

## III SEMESTER (LATERAL ENTRY) TIME TABLE FOR THE YEAR 2022-2023 (ODD SEMESTER)

W.E.F: 31-10-2022

SEC: Diploma

CLASS ROOM: ML LAB & SH

PERIOD	1	2	10:20 AM-10:35 AM	3	4	12:25 PM-01:15 PM	5	6	7
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM		01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM
MON	← ADE LAB				ADE (21CS33) <small>(OB 108- ML Lab)</small>	LUNCH BREAK	CO&A (21CS34) <small>(OB 108- ML Lab)</small>	DSA (21CS32) <small>(OB 108- ML Lab)</small>	TCFS & NT (21MAT31) <small>(OB 108- ML Lab)</small>
TUE	← DS LAB		TEA BREAK		DSA (21CS32) <small>(OB 108- ML Lab)</small>		ADE (21CS33) <small>(OB 108- ML Lab)</small>	CO&A (21CS34) <small>(OB 108- ML Lab)</small>	TCFS & NT (21MAT31) <small>(OB 108- ML Lab)</small>
WED	← JAVA LAB				CO&A (21CS34) <small>(OB 108- ML Lab)</small>		DSA (21CS32) <small>(OB 108- ML Lab)</small>	ADE (21CS33) <small>(OB 108- ML Lab)</small>	TCFS & NT (21MAT31) <small>(OB 108- ML Lab)</small>
THUR	ADE (21CS33) <small>(NB 103)</small>	CO&A (21CS34) <small>(NB 103)</small>		← MASTERING OFFICE (AEC) →			DSA (21CS32) <small>(NB 103)</small>	CO&A (21CS34) <small>(NB 103)</small>	CIP (21CIP37) <small>(NB 103)</small>
FRI	DSA (21CS32) <small>(NB 103)</small>	ADE (21CS33) <small>(NB 103)</small>		SCR (21UH36) <small>(NB 103)</small>	SCR (21UH36) <small>(NB 103)</small>		TCFS & NT (21MAT31) <small>(NB 103)</small>	TCFS & NT (21MAT31) <small>(NB 103)</small>	Tutorial

Subject Code	Subject Name	Faculty Name
21MAT31	TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES	Mrs. Lakshmi
21CS32	DATA STRUCTURES AND APPLICATIONS	Mrs. Rashmi H, Mrs. Kavya M S, Mrs. Pallavi R
21CS33	ANALOG AND DIGITAL ELECTRONICS	Dr. Prashantha H S , Mr. Kushal Kumar B N,
21CS34	COMPUTER ORGANIZATION AND ARCHITECTURE	Mr. Somasekhar T, Mrs. Beena K, Mrs. Supreetha Ganesh
21CSL35	OBJECT ORIENTED PROGRAMMING WITH JAVA LABORATORY	Mr. Prashanth H S
21UH36	SOCIAL CONNECT AND RESPONSIBILITY	Mrs. Rashmi H
21CIP37	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	Mrs. Anuradha M V
21CSL381	MASTERING OFFICE	Mr. Lakshmikantha K
21CS32	DS LAB	Mrs. Pallavi K N
21CS33	ADE LAB	Mr. Sanjoy Das, Mr. Manoj Kumar S

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TIME TABLE INCHARGE

*[Signature]*  
HOD  
Head of the Department  
Dept. of Computer Science & Engg  
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**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**V SEMESTER TIME TABLE FOR THE YEAR 2022-23 (ODD SEMESTER)**

W.E.F: 10-10-2022

SEC: 'A'

CLASS TEACHER: Mr. Somasekhar T  
 CLASS ROOM: OB LH-208

PERIOD	1	2	10:20 AM-10:35 AM	3	4	12:25 PM-01:15 PM	5	6	7	
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM		01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM	
MON	ATC	UP	<b>TEA BREAK</b>	DBMS	M & E	<b>LUNCH BREAK</b>	← CN LAB A2 Batch DBMS LAB A3 Batch →			
TUE	DBMS	ADP		UP	ATC		CNS	DBMS	Tutorial	
WED	← CN LAB A3 Batch DBMS LAB A1 Batch →				ADP			ATC	CNS	M & E
THUR	UP	M & E		CNS	ATC		ADP	EVS	DBMS	
FRI	ADP	CNS		UP	M & E		← CN LAB A1 Batch DBMS LAB A2 Batch →			

Subject Code	Subject Name	Faculty Name
18CS51	MANAGEMENT AND ENTREPRENEURSHIP FOR IT INDUSTRY	Mrs. Supreetha Ganesh
18CS52	COMPUTER NETWORKS	Mr. Kushal Kumar B N
18CS53	DATABASE MANAGEMENT SYSTEM	Mr. Somasekhar T
18CS54	AUTOMATA THEORY AND COMPUTABILITY	Mr. Manoj Kumar S
18CS55	APPLICATION DEVELOPMENT USING PYTHON	Mr. Raghavendrachar S
18CS56	UNIX PROGRAMMING	Dr. Rekha B Venkatpur
18CSL57	COMPUTER NETWORK LABORATORY	Mr. Kushal Kumar B N & Mrs. Kavya M S
18CSL58	DBMS LABORATORY WITH MINI PROJECT	Mr. Somasekhar T & Mrs. Pallavi R
18CIV59	ENVIRONMENTAL STUDIES	Mrs. Radhika N P

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 TIME TABLE INCHARGE

*[Signature]*  
 HOD  
 Head of the Department  
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# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### V SEMESTER TIME TABLE FOR THE YEAR 2022-23 (ODD SEMESTER)

W.E.F: 10-10-2022

SEC: 'B'

CLASS TEACHER: Mrs. Pallavi R

CLASS ROOM: OB LH-209

PERIOD	1	2	10:20 AM-10:35 AM	3	4		5	6	7
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM	12:25 PM-01:15 PM	01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM
MON	M & E	CNS	TEA BREAK	DBMS	UP	LUNCH BREAK	EVS	ATC	Tutorial
TUE	ATC	UP		CNS	ADP		← CN Lab B2 Batch DBMS Lab B3 Batch →		
WED	DBMS	ADP		UP	DBMS		M & E	ATC	CNS
THUR	CNS	ATC		M & E	ADP		← CN Lab B1 Batch DBMS Lab B2 Batch →		
FRI	← CN Lab B3 Batch DBMS Lab B1 Batch →				ADP		UP	M & E	DBMS

Subject Code	Subject Name	Faculty Name
18CS51	MANAGEMENT AND ENTREPRENEURSHIP FOR IT INDUSTRY	Mrs. Supreetha Ganesh
18CS52	COMPUTER NETWORKS	Mrs. Pallavi R
18CS53	DATABASE MANAGEMENT SYSTEM	Mrs. Rashmi H
18CS54	AUTOMATA THEORY AND COMPUTABILITY	Mrs. Kavya M S
18CS55	APPLICATION DEVELOPMENT USING PYTHON	Mr. Raghavendrchar S
18CS56	UNIX PROGRAMMING	Mr. Lakshmikanth
18CSL57	COMPUTER NETWORK LABORATORY	Mr. Krishna Gudi & Mr. Roopesh Kumar B N
18CSL58	DBMS LABORATORY WITH MINI PROJECT	Mrs. Rashmi H & Mrs. Pallavi R
18CIV59	ENVIRONMENTAL STUDIES	Mrs. Radhika N P

*L.B.N*  
  
**TIME TABLE INCHARGE**

*Duratapu*  
**HOD**  
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*Sharma*  
**PRINCIPAL**  
**PRINCIPAL**  
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# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

## TENTATIVE VII SEMESTER TIME TABLE FOR THE YEAR 2022-23 (ODD SEMESTER)

W.E.F: 19-09-2022

SEC: 'B'

CLASS TEACHER: Mrs. Geetha R

CLASS ROOM: NB 205

PERIOD	1	2	3	4	5	6	7	
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM	10:35 AM-11:30 AM	11:30 AM-12.25 PM	12:25 PM-01:15 PM	01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM
MON	E&E (18ME751)	CRP (18CS744)	Project Work Phase - I (G3/G4)		AI & ML LAB (18CSL76) B2 Batch			
TUE	UID (18CS734)	BDA (18CS72)	E&E (18ME751)	AIML (18CS71)	AI & ML LAB (18CSL76) B3 Batch			
WED	AI & ML LAB (18CSL76) B1 Batch		Project Work Phase - I (G1/G2)		CRP (18CS744)	Project Work Phase - I (G5/G6)		
THUR	UID (18CS734)	CRP (18CS744)	Project Work Phase - I (G1/G2)		BDA (18CS72)	E&E (18ME751)	AIML (18CS71)	
FRI	CRP (18CS744)	AIML (18CS71)	BDA (18CS72)	UID (18CS734)	E&E (18ME751)	UID (18CS734)	BDA (18CS72)	

Subject Code	Subject Name	Faculty Name
18CS71	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Mrs. Beena K
18CS72	BIG DATA ANALYTICS	Mrs. Geetha R
18CS734	USER INTERFACE DESIGN	Mr. Krishan Gudi
18CS744	CRYPTOGRAPHY	Dr. Vaneeta M
18ME751	ENERGY AND ENVIRONMENT	Mr. Parashuram A K
18CSL76	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING LABORATORY	Mrs. Beena K, Rashmi H & Mr. Laxmikantha K
18CSP77	Venue : ML/ Project Work Lab (G1, G3, G5) Lab Incharge: Mr. Roopesh Kumar B N	Venue: CN/ Project Work Lab (G2,G4,G6) Lab Incharge : Mr. Raghavendracher S
	GROUP G1 HEAD: Dr. Vijayalaxmi Mekali	GROUP G4 HEAD: Prof. Harshavardhan J R
	GROUP G2 HEAD: Mr. Kushal Kumar B N	GROUP G5 HEAD: Dr. Rekha B Venkatapur
	GROUP G3 HEAD: Mr. Kumar K	GROUP G6 HEAD: Prof. Roopesh Kumar B N
INT	INTERNSHIP (If not completed during the vacation of VI and VII semesters, it has to be carried out during the intervening vacations of VII and VIII semesters )	Mr. Prashanth H S & Mrs. Beena K

TIME TABLE INCHARGE

Head of the Department  
 HOD  
 Dept. of Computer Science & Engg.  
 K.S. Institute of Technology  
 Bengaluru -560 109

PRINCIPAL



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**TENTATIVE VII SEMESTER TIME TABLE FOR THE YEAR 2022-23 (ODD SEMESTER)**

W.E.F: 19-09-2022

CLASS TEACHER: Mrs. Kavya M S

SEC: 'A'

CLASS ROOM: NB 202

PERIOD	1	2	10:20 AM-10.35 AM	3	4	5	6	7			
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM	12:25 PM-01:15 PM	01:15PM-02:10 PM	02.19 PM - 03.05 PM	03.05 PM - 04.00 PM		
MON	AIML (18CS71)	CRP (18CS744)	<b>TEA BREAK</b>	Project Work Phase - I (G3/G4)		<b>LUNCH BREAK</b>	UID (18CS734)	BDA (18CS72)	E&E (18ME751)		
TUE	AI & ML LAB (18CSL76) A3 Batch				BDA (18CS72)		CRP (18CS744)	CRP (18CS744)	E&E (18ME751)	AIML (18CS71)	
WED	E&E (18ME751)	UID (18CS734)		BDA (18CS72)	CRP (18CS744)		UID (18CS734)	Project Work Phase - I (G5/G6)			
THUR	UID (18CS734)	AIML (18CS71)		Project Work Phase - I (G1/G2)			AI & ML LAB (18CSL76) A2 Batch				
FRI	BDA (18CS72)	E&E (18ME751)		CRP (18CS744)	AIML (18CS71)		AI & ML LAB (18CSL76) A1 Batch				

Subject Code	Subject Name	Faculty Name
18CS71	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. Deepa S R
18CS72	BIG DATA ANALYTICS	Mrs. Geetha R
18CS734	USER INTERFACE DESIGN	Mrs. Pallavi K N
18CS744	CRYPTOGRAPHY	Mrs. Kavya M S
18ME751	ENERGY AND ENVIRONMENT	Mr. Parashuram A K
18CSL76	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING LABORATORY	Dr. Deepa S R & New Staff I
18CSP77	PROJECT WORK PHASE - 1	Venue : ML/ Project Work Lab (G1, G3, G5) Lab Incharge: Dr. Vaneeta M
		GROUP G1 HEAD: Dr. Vijayalaxmi Mekali
		GROUP G2 HEAD: Dr. Vaneeta M
		GROUP G3 HEAD: Dr. Deepa S R
		Venue: CN/ Project Work Lab (G2,G4,G6) Lab Incharge : Dr. Deepa S R
		GROUP G4 HEAD: Prof. Harshavardhan J R
		GROUP G5 HEAD: Dr. Rekha B Venkatapur
		GROUP G6 HEAD: Prof. Roopesh Kumar B N
INT	INTERNSHIP (If not completed during the vacation of VI and VII semesters, it has to be carried out during the intervening vacations of VII and VIII semesters )	Mr. Prashanth H S & Mrs. Beena K

*H. B. N*  
**TIME TABLE INCHARGE**

*Roopesh Kumar B N*  
**HOD**  
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*Shreya S*  
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**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**TENTATIVE VII SEMESTER TIME TABLE FOR THE YEAR 2022-23 (ODD SEMESTER)**

W.E.F: 19-09-2022  
 SEC: 'B'

CLASS TEACHER: Mrs. Geetha R  
 CLASS ROOM: NB 205

PERIOD	1	2	10:20 AM-10.35 AM	3	4	12:25 PM-01:15 PM	5	6	7	
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM		01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM	
MON	E&E (18ME751)	CRP (18CS744)	<b>TEA BREAK</b>	Project Work Phase - I (G3/G4)		<b>LUNCH BREAK</b>	AI & ML LAB (18CSL76) B2 Batch			
TUE	AIML (18CS71)	BDA (18CS72)		E&E (18ME751)	UID (18CS734)		AI & ML LAB (18CSL76) B3 Batch			
WED	AI & ML LAB (18CSL76) B1 Batch				AIML (18CS71)		Project Work Phase - I (G5/G6)			
THUR	UID (18CS734)	CRP (18CS744)		Project Work Phase - I (G1/G2)			CRP (18CS744)	BDA (18CS72)	E&E (18ME751)	AIML (18CS71)
FRI	CRP (18CS744)	AIML (18CS71)		BDA (18CS72)	UID (18CS734)		E&E (18ME751)	UID (18CS734)	BDA (18CS72)	

Subject Code	Subject Name	Faculty Name
18CS71	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Mrs. Beena K
18CS72	BIG DATA ANALYTICS	Mrs. Geetha R
18CS734	USER INTERFACE DESIGN	Mr. Krishan Gudi
18CS744	CRYPTOGRAPHY	Dr. Vaneeta M
18ME751	ENERGY AND ENVIRONMENT	Mr. Parashuram A K
18CSL76	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING LABORATORY	Mrs. Beena K & New Staff 2
18CSP77	PROJECT WORK PHASE - 1	Venue : ML/ Project Work Lab (G1, G3, G5) Lab Incharge: Dr. Vaneeta M
		Venue: CN/ Project Work Lab (G2,G4,G6) Lab Incharge : Dr. Deepa S R
		GROUP G1 HEAD: Dr. Vijayalaxmi Mekali
		GROUP G4 HEAD: Prof. Harshavardhan J R
		GROUP G2 HEAD: Dr. Vaneeta M
		GROUP G5 HEAD: Dr. Rekha B Venkatapur
		GROUP G3 HEAD: Dr. Deepa S R
		GROUP G6 HEAD: Prof. Roopesh Kumar B N
INT	INTERNSHIP (If not completed during the vacation of VI and VII semesters, it has to be carried out during the intervening vacations of VII and VIII semesters )	Mr. Prashanth H S & Mrs. Beena K

*B.N*  
 TIME TABLE INCHARGE

*Parashuram*  
 HOD  
 Head of the Department  
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*Shankar*  
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**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**M.TECH TIME CLASS TABLE FOR THE YEAR 2022-2023 (ODD SEMESTER)**

W.E.F: 13.02-2023

CLASS TEACHER: Mr. Raghavendrchar S

SEM: I

PERIOD	1	2	10:20 AM-10:35 AM	3	4	12:25 PM-01:15 PM	5	6	7
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM		01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM
MON	MFCs (22SCS11)	FDS (22SCS12)	TEA BREAK	ACN (22SCS13)	IOT (22SCS14)	LUNCH BREAK	AA (22SCS15)	ACN (22SCS13)	Tutorial
TUE	FDS (22SCS12)	IOT (22SCS14)		AA (22SCS15)	IOT (22SCS14)		MFCs (22SCS11)	ACN (22SCS13)	Tutorial
WED	ACN (22SCS13)	IOT (22SCS14)		FDS (22SCS12)	FDS (22SCS12)		MFCs (22SCS11)		
THUR	MFCs (22SCS11)	RM & IPR (22RMI16)		AA (22SCS15)	AA (22SCS15)		RM & IPR (22RMI16)		
FRI	IOT LAB(22SCSL17)				RM & IPR (22RMI16)		FDS (22SCS12)	RM & IPR (22RMI16)	Tutorial

Subject Code	Subject Name	Faculty Name
22SCS11	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	Dr. JALAJA P
22SCS12	FUNDAMENTALS OF DATA SCIENCE	Mr. RAGHAVENDRACHAR S
22SCS13	ADVANCED COMPUTER NETWORKS	Mr. KUSHAL KUMAR B N
22SCS14	INTERNET OF THINGS AND APPLICATIONS	Mr. ROOPESH KUMAR B N
22SCS15	ADVANCED ALGORITHMS	Dr. VIJAYALAXMI MEKALI
22RMI16	RESEARCH METHODOLOGY AND IPR	Dr. H S PRASANTHA
22SCSL17	INTERNET OF THINGS LABORATORY	MR.KRISHNA GUDI
22AEC18	BOS RECOMMENDED ONLINE COURSES	Dr. H S PRASANTHA

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**TIME TABLE INCHARGE**

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**HOD**

Head of the Department  
 Dept. of Computer Science & Engg  
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**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**M.TECH TIME CLASS TABLE FOR THE YEAR 2022-2023 (ODD SEMESTER)**

W.E.F: 28-11-2022

CLASS TEACHER: New Staff

SEM: III

PERIOD	1	2	10:20 AM-10:35 AM	3	4		5	6	7
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM	12:25 PM-01:15 PM	01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM
MON	Tutorial	Tutorial	<b>TEA BREAK</b>	SEC	SEC	<b>LUNCH BREAK</b>			
TUE	Tutorial	DL		WSN	WSN				
WED	DL	WSN		← Mini Project (III M.TECH) →					
THUR	SEC	DL		DL	WSN				
FRI	← PWP - I (III M.TECH) →			Tutorial	SEC				

Subject Code	Subject Name	Faculty Name
20SCS31	DEEP LEARNING	Dr. Rekha B Venkatapur
20SCS323	SOFT AND EVOLUTIONARY COMPUTING	New staff
20SCS334	WIRELESS SENSOR NETWORKS	Mr. Krishna Gudi
20SCS34	PROJECT PHASE - I	Dr. Rekha B Venkatapur
20SCS35	MINI PROJECT	Dr. Rekha B Venkatapur
20SCSI36	INTERNSHIP	Dr. Rekha B Venkatapur

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**TIME TABLE INCHARGE**

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**HOD**  
 Head of the Department  
 Dept. of Computer Science & Engg.  
 K.S. Institute of Technology  
 Bengaluru -560 109

*[Signature]*  
**PRINCIPAL**  
 PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**INDIVIDUAL TIME TABLE FOR THE YEAR 2022-2023 (ODD SEMESTER)**

W.E.F: 10-10-2022

NAME OF THE FACULTY: Mrs. Pallavi R

DESIGNATION: ASST. PROF.

PERIOD	1	2	10:20 AM-10:35 AM	3	4	5	6	7	
TIME DAY	8:30 AM-9:25AM	9:25 AM-10:20 AM		10:35 AM-11:30 AM	11:30 AM-12:25 PM	12:25 PM-01:15 PM	01:15PM-02:10 PM	02:10 PM - 03:05 PM	03:05 PM - 04:00 PM
MON		CNS (B)	TEA BREAK			LUNCH BREAK	DBMS LAB A3 Batch		
TUE				CNS (B)			JAVA LAB - B3 BATCH		
WED	DBMS LAB A1 Batch								CNS (B)
THUR	CNS (B)							JAVA LAB - B2 BATCH	
FRI	JAVA LAB - B1 BATCH							DBMS LAB A2 Batch	

	Subject Code	Subject Name	Sem	Section	Work Load
SUBJECT-1	18CSS2	COMPUTER NETWORKS AND SECURITY	V	B	4 Hrs/Week
LAB	21CSL35	OBJECT ORIENTED PROGRAMMING WITH JAVA LABORATORY	III	B	9 Hrs / Week
	18CSL58	DBMS LABORATORY WITH MINI PROJECT	V	B	9 Hrs / Week
<b>TOTAL LOAD= 22 Hrs/Week</b>					

*[Signature]*  
**TIME TABLE INCHARGE**

*[Signature]*  
**HOD**  
 Head of the Department  
 Dept. of Computer Science & Engg.  
 K.S. Institute of Technology  
 Bengaluru -560 109

*[Signature]*  
**PRINCIPAL**  
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 BENGALURU



# K.S. INSTITUTE OF TECHNOLOGY, BANGALORE -109


I SEMESTER : 2022-23

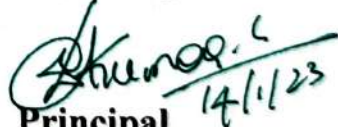
## I SESSIONAL TIME TABLE

DATE:14-01-2023

DATE	TIME	I SEM PHYSICS CYCLE (CSE, AIME & CSD)	I SEM CHEMISTRY CYCLE (ECE, IOT, CCE & ME)
18-01-2023 WEDNESDAY	09:30 AM - 10:30 AM	Mathematics for CSE Stream-1 (22MATS11)	Mathematics for CSE/EES/ME Stream-1 (22MATS11/22MATE11/22MATM11)
	02:00 PM - 03:00 PM	Physics for CSE Stream (22PHYS12)	Chemistry for CSE/EES/ME Stream (22CHES12/22CHEE12/22CHEM12)
19-01-2023 THURSDAY	09:30 AM - 10:30 AM	Principles of Programming using C (22POP13)	Introduction to Python Programming (22PLC15B)
	02:00 PM - 03:00 PM	Renewable Energy Sources (22ETC15H)	
	03:00 PM - 04:00 PM	Communicative English (22ENG16)	Communicative English (22ENG16)
20-01-2023 FRIDAY	09:30 AM - 10:30 AM	Introduction to Electronics Engineering (22ESC143)	Introduction to Electrical Engineering/ Introduction to Civil Engineering (22ESC142/22ESC141)
	01:30 PM - 02:30 PM	Indian Constitution (22ICO17)	Sanskrutika Kannada/ Balake Kannada (22KSK17/22KBK17)
	03:00 PM - 04:00 PM	Scientific Foundations of Health (22SFH18)	Innovation and Design Thinking (22IDT18)

Note: 1. All the students are strictly informed to wear college ID card is compulsory during the test.

  
14/1/23  
Academic Coordinator  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

  
14/1/23  
Principal  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



SUB : Principles of Programming Using C Lab

Sl.No.	Date/Day	Time	Batch No.	No. of St	Name of the Students	Name of the Examiners
1	01/04/2023 Saturday	08.30am To 11.30am	CS B <sub>7</sub>	15	NAGAMMA, NARESH KUMAR N, NAWAZ KHAN, NAYANA R, NEHA V, NITHIN R, P C TEJAS, PAAVANA P, PALLAVI C, PALLAVI S, PANCHAMI L, PARVEZ ANSARI, PASUPULETI SRAYYA, POOJITHA J N, POONAM SINGH A	 1. Mr.HARSHAVARDHAN J R 2. Mrs.RAMANJINAMMA G 
		11.00am To 02.00pm	CS B <sub>8</sub>	17	PRAJNA ANANT GAONKAR, PRAKRUTHI G P, PRANAV B R, PREETHAL D SOUZA, PRUTHU K L, PUNEETH VEMURI, R CHENDRA CHUDA, RACHANA N, RAGHUSAI ACHUT, RAKSHITHA A U, RAKSHITHA J, RAKSHITHA R, RAVI SHANKAR D M, RENUKA CHOWDARY, REVANTH RAJ P, RINI JAIN H P, RUCHITHA S	
		01.00pm To 4.00pm	CS B <sub>9</sub>	17	RUSHIL RUTHVIGNA, RUTVIK CHANDRA M, S HYMA, KUSHI M, SACHIN SOMASHEKHAR KUMBAR, SAGAR M, SAHANA C S, SAI DEEKSHA D, SAKETH A V, SAMHITA P, SAMSKRUTHI S KASHYAP, SANATH R, SANDEEP KUMAR JENA, SANDESH GURURAJ KULLOLLI, SANGEETHA K M, SANJANA SURESH TIGADI, SANKET MATHAPATI	
2	03/04/2023 Monday	08.30am To 11.30am	CS B <sub>10</sub>	17	SATYA KARTHIK R, SHAMANTH SREEPAD JOSHI, SHARANUBASAVA ARADHYA, SHASHANK H Y, SHASHANKGOUDA G GALLI, SHRAVYA C S, SHRAVYA R, SHREEHARI D R, SHREYA MURTHY, SHREYA P R, SINCHANA M, SINDHU, SIRI S GOWDA, SOURAV G, SRINIVAS KOUDINYA T D, SRISHTI RAGHUNATH SOSALE, SRUJAN G	 1. Mr.KUMAR K 2. Mr.PRASHANTH H S 
		11.00am To 02.00pm	CS B <sub>11</sub>	17	SUDEEP PRAKASH KENGAL, SUDHANVA H RAO, SUMITAA S DESHBHANDARI, SUNIDHI R, SUPREETH V, SYED AYAN HYDER, TARUN GOWDA D N, TEJA M S, TEJAS GOWDA H R, TEJASHWINI S R, THANUJA T, THANUSHA S, THANUSHREE NATARAJ, THEJUS K, THUMMALAKUNTA VENEELA YASHMINE, TILAK GOWDA M Y, ULLAS S A	
		01.00pm To 4.00pm	CS B <sub>12</sub>	17	ULLI SRUJAN, UMESH BHATTA, VAISHNAVI K R, VAMSHI N M, VARSHA S N, VEENA M, VIDYA K, VIDYA M S, VIGNESH B, VIGNESH S, VIJAYASHREE A, VIKRAM S, VIVEK, YASHASWINI S L, ANUBHAV MISRA , SUPRIYA M, SUPRIYA K	
3	05/04/2023 Wednesday	08.30am To 11.30am	CSD B <sub>1</sub>	20	ADITHYA P, AJAY H M, AMITA S, ANUSHA P R, BHARATH C, CHAITRA P, CHARAN B, CHARVITA RAO PAVAR, CHIRAG K, DAYANIDHI S, DEEKSHA C, DHANUSH S, E DURGAMAITRI, GOLLA SUKUMAR, HARSHITHA P, HEMANTH C H, HIMANSHU SHARMA, HRUSHIKESH R, JEEVIKA SREE K, JNANASHREE T R	 1. Mr.RAGHAVENDRACHAR S 2. Mr.SOMASEKHAR T 
		11.00am To 02.00pm	CSD B <sub>2</sub>	21	K JAHNAVI CHOWDARY, KUSHAL GOWDA S R, LIKHITH M S, MADHUSRI P M, MAHARSHI S, MAHMOOD ZAYAAN KHAN NIZAM, MANASA R , MANAVI B M, MANOJ K, MANOJ S, MOHAMMAD KAIF A DODDAMANI, N GOVINDA PRASAD, NIMESH KUMAR SINGH, P ANUDEEP, P T ARCHISHA, PRAJVITH P, PRAJWAL R, PRANATHI M G, RAHUL P TRIVEDI, SAAKSHI V JATTI, SAI KIRAN K	
		01.00pm To 4.00pm	CSD B <sub>3</sub>	21	SANIYA S, SHASHANK M, SHISHIR S DHEEP, SHRAVANI B G, SHREE LAKSHMI M, SHRISHA JOSHI, SPOORTHI S, SRINIDHI N, SRUSHTI, SUNILA K, TRIYA HIREMATH, U VINAYAKA PRABHU, UMESH L, V BINDUSHREE, VAISHNAVI A, VENUPRASAD A, VIBHA DATTA, VIVIN VAIBHAV L K, YASHAS S GOWDA, YASHITA B R, SRINIDHI R Y	
4	06/04/2023 Thursday	08.30am To 11.30am	AIML B <sub>1</sub>	21	ABHINAV S BHAT, ADITI B PURANIK, AFRA FURKHEEN, AKASH Y, ANAMIKA, ANUSH R, ANVITHA S BADIGER, ARUN SAGAR GOWDA, BHUVAN ADITYA M, BHOOMIKA K, CHANDANA V, D LIKITHA RAJU, DHANUSH C, GANASHREE K N, GIRISH B H, HARSHA C R, HAYAVADAN MADHWARAJ BELGAUMKAR, HRISHIKESH GANGATKAR, HRISHIKESH JAYAKUMAR, J N SANDEEP, KANDALA JAYANTH KEERTHANA Y N, M VAISHNAVI, MANOJ H P, MAYUR D YADAV, MUYEEZ AHMED SHARIFF, NANDIGAM SRAVITHA, PALLAVI G, PAVAN S, PRADYUMNA VINAYAK GRAMOPADHYE, PRANATHI S HOLLA, PRASHANTH T, RAKSHITHA K, RANJITHA S, REVANTH N MITHRA, ROSHAN P J, S KARUNA, SAGAR A SHETTY, SAHITYA PRABHU, SAI TEJA NEKKANTI, SAMARTH R HEGDE, SANJAY B	 1. Mr.HARSHAVARDHAN J R 2. Mrs.RAMANJINAMMA G 
		11.00am To 02.00pm	AIML B <sub>2</sub>	21	SANNIDHI JOSHI, SHARATH M, SHASHANK S A, SHERWIN J, SHREEGANESH NAYAK, SHREYA S JAIN, SHREYAA G, SHWETABH SINGH, SIRI GOWRI R, SOUDAMINI H S, SRUSHTITHA S, THEJHASHVIN N, THOUSIF J, VAISHAK N NAIK, VANISHA M, VARSHINI B S, VARUN RAJ, VISHAL B M, YERMAL UDAYA SHREESHA, YUVRAJ M KUMAWAT, AYESHA TASMIYA	
		01.00pm To 4.00pm	AIML B <sub>3</sub>	21	SANNIDHI JOSHI, SHARATH M, SHASHANK S A, SHERWIN J, SHREEGANESH NAYAK, SHREYA S JAIN, SHREYAA G, SHWETABH SINGH, SIRI GOWRI R, SOUDAMINI H S, SRUSHTITHA S, THEJHASHVIN N, THOUSIF J, VAISHAK N NAIK, VANISHA M, VARSHINI B S, VARUN RAJ, VISHAL B M, YERMAL UDAYA SHREESHA, YUVRAJ M KUMAWAT, AYESHA TASMIYA	
5	10/04/2023 Monday	08.30am To 11.30am	CS B <sub>1</sub>	15	ABENI B, ABHISHEK A, ACHYUTHA U N, ADITHYA M, ADITYA S, ADITYA V, ADONI ANIRUDH, AKASH S R, AKASH JADHAV, AKSHAY KRISHNA K S, AMRUTHA N, ANANYA C, ANANYA S, ANIRUDH M MUDAMBI, ANIRUDH SURESH	 1. Mr.KUMAR K 2. Mr.PRASHANTH H S 
		11.00am To 02.00pm	CS B <sub>2</sub>	15	ANKITA N, ANMOL NAIK S, ANUKA KIRANA KUMAR, ANUSHKA SHRIPAD GULAVANI, ANVITHA M V, ARJAV C PRABHU, ARNAV HANGAL, ASHISH REDDY V P, B S VARSHA, BALAJI R, BHARATH M, BHUVAN M, BINDU M, BINDU SHREE B, CHAITHANYA B S	
		01.00pm To 4.00pm	CS B <sub>3</sub>	15	CHAITRA E KODIGODRA, CHARITHANJALI M, CHETHAN M, CHIRAG K P, CHIRANJEEVI T M, D S AISHWARYA, DARSHAN D GOWDA, DEEKSHA S, DEEPIKA ANGEL K, DEEPTHI B, DISHA S D, DIVYASHREE S, DUVVUR DARSHAN KUMAR, GAGAN GOWDA B G, GAURAV NANDAN	
6	11/04/2023 Tuesday	08.30am To 11.30am	CS B <sub>4</sub>	15	GNANESH S, GUNITH RAVIKIRAN, GURURAJ V A, HARCHITHA M, HARSHADITHYA G V, HEMAMBHIKA B N, HIMASHWETHA K G, ISHA MAJI, JAHNAVI J H, JAYASHREE KUMAR CHIGARI, K M THEJDEEP KRISHNA, KAMNOOR ADITYA, KARABASAVVA SUBHASA DODDAMANI, KARTHIK KUMAR R, KARTHIK V	 1. Mr.RAGHAVENDRACHAR S 2. Mr.SOMASEKHAR T 
		11.00am To 02.00pm	CS B <sub>5</sub>	15	KAVITA REVANAPPA TAMBAGI, JYOTHSNA R, SHRUSTI L , KIRAN C P, KRUTHANVA R, L DEEKSHA, L SHREYAS SRINIVAS, LAKSHMI SHREE K P, LALITHYA S, LEKHANA L, LIKHITH K, LIPIKA J, M ASHRITHA, M N AMOGH ATHREYA, MADDURI YAVANIKA	
		01.00pm To 4.00pm	CS B <sub>6</sub>	15	MALLIKARJUN K S, MANASVI H Y, MANOJ S, MANOJA G V, MEGHA S, MINAKSHI ANIL BADIFER, MISBA SABA, MOHAMMED YAHYA NAZIM, MOHAMMED TAHIR, MOKESH G R, MONIKA H, MONIKA V, MONISHA C, NAGARAJUN KUMAR S, NAGAMAHESH KENDOLE	

Head of the Department  
Dept. of Science and Humanities





SUB : Python Programing Lab

Date: 23/03/2023  
SEMESTER : I  
SUB CODE :BPLCK 105B

Sl. No	Date/Day	Time	Batch No.	No. of St.	Name of the Students	Name of the Examinars
1	01/04/2023 Saturday	08.30am To 11.30am	B <sub>IoT 2</sub>	20	DEEKSHITHA,GAGANDEEP, DARSHAN, H Y DEVANGA, J A YAGNESH, JAHNAVI, GOUTHAM,ANIL KUMAR, KOUSHAL, K N, L MANEESH, LEENA J, MAHIMA A, MOHITH K,MOUSHAMI D. NISHANTH R, NISHMITHA S.B S, NITHYASHREE K S, R JAGADISHWAR , P S SHROUMITH, P THIMMARAJU	1. Mr. Ranganath .N 2. Mr. Anil Kumar .A
		11.00am To 02.00pm	B <sub>IoT 3</sub>	20	SUDEEPTHI, PRANAMYA K L, PRANAV, PUNEETH, RACHNA V, RAHUL, RISHIKA SRI, SAAKSHI, SADIYA , S M SANJAYA, SANJANA S, SANSKRITI, SHESHAGIRI, SHIVAKUMAR, SHREYA, SHREYAS M V, SHREYAS S K, S HARSHITHA, SNEHA, SWAROOP S.	
		01.00pm To 4.00pm	B <sub>IoT4 -10</sub> B <sub>CC1 -10</sub>	20	Sd MUTEEB B,TANISH K , TARUN G K, TEJAS G N, THANUSHREE S K, TUSHAR BHAT, VAISHNAVI A, VARSHA P,V PRAKASH, VEDA K,ADITHYA A S, ANITHA , ANUSH S, ARPITHA, ARSHIYA J, ARUN L J L, AISHWARYA, BRUNDHA, B GOPALKRISHNA, BASAVARAJ P	
2	03/04/2023 Monday	08.30am To 11.30am	B <sub>CC2</sub>	20	BRINDA, DEEKSHA H R, DEEKSHA S, DEEPIKA G, DINESH S B, DISHA A, GANGOTHI, H R CHANDANA, HAMEED V T, HARJA A, HEMANTH B R, HEMANTH K E, K R SHREYA, KARTHIK , KIRAN D, KUNDANKUMAR S, MAHALAKSHMI D, MANJUNATH K, MANUSHREE J, Md. R FAHIM	1. Mr. Anil Kumar .A 2. Mr. Harish .U
		11.00am To 02.00pm	B <sub>CC3</sub>	20	NARASIMHA ,NEELANJALI,NIMISHA,NISHA,NITHIYA, PAVAN,PAVAN U K, PRAJWAL, PRUTHVIRAJ, PUNITH, SMRITI,SAKSHI SATHVIK R P, SHREEDHANYA, SHREEPADA C, SHREYAS, SHRIKUMAR, SNEHA B K, SREYASREE R J, SRILAKSHMI P Y	
		01.00pm To 4.00pm	B <sub>CC4-10 &amp;</sub> B <sub>ME1-10</sub>	20	SRINIVASA, SUHAS, SUJAN, SUJITH,SURABHI, UMME H, ISHITHA, CHAITANYA, KIRAN, RAKSHITH . VIJETH, ABHISHEK,PIYUSHKUMAR, NITHIN, RAKESH, DHAKSHATH, SHOBHA, SUJAY, THARUN S, YASHWANTH	
3	05/04/2023 Wednes day	08.30am To 11.30am	B <sub>EC1</sub>	15	ABINAY, ADEEBA I, ADITH P, ADITHYA S, AJITH D, AKASH S, AMRUTHA.P, AMULYA M N, ANAGHA K.S, ANKIT.P, ANKITA B, ANUPRIYA T, ANUSHA M, ARCHANA M, ARCHANA N	1. Mr. Nagabhushana .M 2. Mr. Harish .U
		11.00am To 02.00pm	B <sub>EC2</sub>	15	ARCHANA S K, ASHOK, ASHWINI P, AVINASH, AYYAJI.M.H.N, BHOOMIKA D, C RAHUL, CHERUKURU H, CHETAN S P, CHETHAN A G, CHIDAMBAR P,M, CHINMAY S, MITHUN, ARUN .D.C, DARSHAN .G.M.K	
		01.00pm To 4.00pm	B <sub>EC3</sub>	15	DEEKSHA S REDDY, DEEKSHAT.S, DINESH, GAGAN, GAGANA S,,GAYATHRI D B, GEHENA, G DEEPASREE, GOWTHAM, G DEEKSHITHA, HARISH, HARSHAN, HITHA, INCHIARA, VAMSHIKRISHNA	
4	06/04/2023 Thursday	08.30am To 11.30am	B <sub>EC4</sub>	15	K.AMARENDRA, KARTHIK , KAVYA, KEERTHANA, KIRAN , KISHAN , LAKSHMI M, LAKSHMI P, LEKHANA, LOHITH Y R, JAYASURRYA, M PURUSHOTHAM, MADHU H, M SUSHMITHA, MALLIKARJUNA S N.	1. Dr. Girish T.R. 2. Mr. Nagabhushana .M
		11.00am To 02.00pm	B <sub>EC5</sub>	15	MANASA C, RAKSHITA M B, MANOJ KN, MEGHANA S R, MEGHARAJ, M.TAHA,MONIKA H N, MONISHA, N HEMA, NEHA M, NISARGA, NITHYASHREE,PAVANA C, POOJA V, PRAJWAL P.	
		01.00pm To 4.00pm	B <sub>EC6</sub>	15	PRANAV, PREKSHITHA S,RACHANA ,RAGHU , RANJITH ,ROHITH, ROHITH M, SACHIN , SAHANA K R, SAHANA N R, SAHANA T B, SHALINI ,SHASHANK , SHILPA , HRAVANJ G V	
5	10/04/2023 Monday	08.30am To 11.30am	B <sub>EC7</sub>	16	HARSHITHA S, SIDDHARTH S, SINCHANA S S, SNEHA, SOUMYASHREE F S, SOWJANYA R, SPOORTHY B, SRUJAN H G, SRUJAN K N, SULAGNA M, SUMANJALI K, SUNITA S S, SURYA R V, SWATHI S, TEJASWINI R, THANUSHREE .	1. Dr. Girish T.R. 2. Mr. Ranganath .N
		11.00am To 02.00pm	B <sub>EC8</sub>	16	BHARADWAJ, UMME SARA, V LIKHITH, VARDHAN G K N, VARSHA B C, VARSHINI S, VARUN , VARUN R R, VEDASHREE M, VIDYASHREE H, VIJAYKUMAR S, NAVALAGIMATH, VIKAS K S, VISHWANATH B S, VISHWANATH V, VISHWAS M K, VIVEK M S.	
		01.00pm To 4.00pm	B <sub>EC9 -4</sub> B <sub>IoT 1-12</sub>	16	VIVEK R ,B, YASHAVANTHA S, YASHWANTH P V, SARIKA S. A SHRIYA, AARADHANA R, ABHIRAM S T R, ANUSHA A S, ARNAV P, B SRINIDHI , BHAVANA N, BHAVYA P, C LITHISH , AKSHAY K D, D ADITHYA, DARSHAN M	

*Jay*  
H.O.D. Head of the Department  
Dept. of Science and Humanities  
K S Institute of Technology

*Shreya S*  
Principal  
K S INSTITUTE OF TECHNOLOGY



**KSIT**

**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**LAB INTERNALS- II TIME TABLE ODD SEM 2022-2023**

DATE:28-02-2023

DATE/LAB	TIMINGS	III SEM	
		A SEC	B SEC
15-03-2023 WEDNESDAY	09.00 am to 12.00 pm	JAVA LAB A1	AEC B1
	12.30 pm to 03.30 pm	JAVA LAB A2	AEC B2
16-03-2023 THURSDAY	09.00 am to 12.00 pm	JAVA LAB A3	AEC B3
17-03-2023 FRIDAY	09.00 am to 12.00 pm	JAVA LAB B1	AEC A1
	12.30 pm to 03.30 pm	JAVA LAB B2	AEC A2
20-03-2023 MONDAY	09.00 am to 12.00 pm	JAVA LAB B3	AEC A3

*L. N. B. N. P. D. L.*  
SESSIONAL COORDINATORS

*D. Venkatesh*  
HOD

Head of the Department  
Dept. of Computer Science & Engg  
K.S. Institute of Technology  
Bengaluru -560 109

*S. Suresh C.*  
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BENGALURU - 560 109.



**K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**ACADEMIC YEAR 2022-23(ODD)-LABORATORY INTERNAL TEST**

SUB:-Analog and Digital Electronics

SEMESTER:III /SUB CODE: 21CS33

Sl.No	Date/Day	Time	Batch No.	No.of Students	Student's USN	Name of the Examiner
1	8/3/2023 Wednesday	1.00 PM TO 4.00PM	B1	20	1KS21CS001,002,003,004,005,006,007,008, 009,010,011,012,014,015,016,017,018,020, 021,022	Mr.Sanjoy Das <i>SD</i> Mr. Manoj Kumar S <i>e</i>
2	06/03/2023 Monday	1.00 PM TO 4.00PM	B2	20	1KS21CS023,024,025,026,027,028,029,030, 031,032,033,034,035,036,037,038,039,040, 041,042	Mr.Sanjoy Das <i>SD</i> Mr. Manoj Kumar S <i>e</i>
3	09/03/2023 Thursday	8.30 AM TO 11.30 AM	B3	19	1KS21CS043,045,046,047,048,049,050,051, 052,053,054,055,056,057,058,059,060,119, 120	Mr.Sanjoy Das <i>SD</i> Mr. Manoj Kumar S <i>e</i>
4	9/2/2023 Thursday	1.00 PM TO 4.00PM	B5	20	1KS21CS,081,082,083,084,085,086,087,088, 089,090,091,092,093,094,095,096,097,098, 099,100,	Mrs.Supreetha Ganesh <i>SG</i> Mr.Kushal kumar B N <i>B</i>
5	10/2/2023 Friday	8.30 AM TO 11.30 AM	B6	18	1KS21CS101,102,103,104,105,106,107,108, 109,110,111,112,112,114,115,116,117,118,	Mrs.Supreetha Ganesh <i>SG</i> Mr.Kushal kumar B N <i>B</i>
6	14/2/2023 Tuesday	1.00 PM TO 4.00PM	B4	20	1KS21CS061,062,063,064,065,066,067,068, 069,070,071,072,073,074,075,076,077,078, 079,080	Mrs.Supreetha Ganesh <i>SG</i> Mr.Kushal kumar B N <i>B</i>

*S. Srinivasan*

HOD

Head of the Department  
Dept. of Computer Science & Engg.  
K.S. Institute of Technology  
Bengaluru -560 109

*#P*  
*Srinivasan*

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**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**III SEM DIP II SESSIONAL TIME TABLE (2022-2023)**

**DATE: 14-03-2023**

DATE	TIME	IV SEM (2018 SCHEME)
16-03-2023 THURSDAY	09.30 AM TO 10.30 AM	DATA STRUCTURES AND APPLICATIONS (21CS32)
	01.30 PM TO 02.30 PM	ANALOG AND DIGITAL ELECTRONICS (21CS33)
17-03-2023 FRIDAY	09.30 AM TO 10.30 AM	COMPUTER ORGANIZATION AND ARCHITECTURE (21CS34)
	11.30 AM TO 12.30 PM	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS (21CIP37)

NOTE: All the students are strictly informed to wear lab uniforms, Mask and college ID Cards compulsorily during the test.

  
**SESSIONAL COORDINATORS**

**HOD**  
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Dept. of Computer Science & Engg  
K.S. Institute of Technology  
Bengaluru -560 109

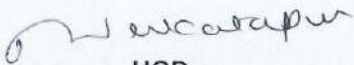


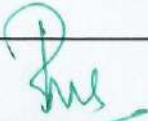
**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-560 109**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**ACADEMIC YEAR 2022-23(ODD)-LABORATRY INTERNAL TEST**

**SUB:DATA STRUCTURES LABORATORY**

**SEMESTER: III /SUB CODE :21CS32**

Sl No	Date/Day	Time	Batch No	No of St	Name of the Students USN	Name of the Examinars
1	28/2/2023 Tuesday	01.00 pm To 4.00pm	B1	20	1KS21CS061,1KS21CS062,1KS21CS063,1KS21CS064,1KS21CS065,1KS21CS066,1KS21CS067,1KS21CS068,1KS21CS069,1KS21CS070,1KS21CS071,1KS21CS072,1KS21CS073,1KS21CS074,1KS21CS075,1KS21CS076,1KS21CS077,1KS21CS078,1KS21CS079,1KS21CS080	Mrs.Pallavi K N Mrs.Rashmi H
2	1/3/2023 Wednesday	01.00 pm To 4.00pm	A3	20	1KS21CS043,1KS21CS044,1KS21CS045,1KS21CS046,1KS21CS047,1KS21CS048,1KS21CS049,1KS21CS050,1KS21CS051,1KS21CS052,1KS21CS053,1KS21CS054,1KS21CS056,1KS21CS55,1KS21CS057,1KS21CS058,1KS21CS059,1KS21CS060,1KS21CS119,1KS21CS120	Dr.Vijayalaxmi Mekali Mrs.Pallavi K N
3	2/3/2023 Thursday	08.30 am To 11.30am	A2	20	1KS21CS023,1KS21CS024,1KS21CS025,1KS21CS026,1KS21CS027,1KS21CS028,1KS21CS029,1KS21CS030,1KS21CS031,1KS21CS032,1KS21CS033,1KS21CS034,1KS21CS035,1KS21CS036,1KS21CS037,1KS21CS038,1KS21CS039,1KS21CS040,1KS21CS041,1KS21CS042	Dr.Vijayalaxmi Mekali Mrs.Pallavi K N
4	2/3/2023 Thursday	01.00 pm To 4.00pm	B3	18	1KS21CS101,1KS21CS102,1KS21CS103,1KS21CS104,1KS21CS105,1KS21CS106,1KS21CS107,1KS21CS108,1KS21CS109,1KS21CS110,1KS21CS111,1KS21CS112,1KS21CS113,1KS21CS114,1KS21CS115,1KS21CS116,1KS21CS117,1KS21CS118	Mrs.Pallavi K N Mrs.Kavya M S
5	3/3/2023 Friday	08.30 am To 11.30am	B2	20	1KS21CS081,1KS21CS082,1KS21CS083,1KS21CS084,1KS21CS085,1KS21CS086,1KS21CS087,1KS21CS088,1KS21CS089,1KS21CS090,1KS21CS091,1KS21CS092,1KS21CS093,1KS21CS094,1KS21CS095,1KS21CS096,1KS21CS097,1KS21CS098,1KS21CS099,1KS21CS100	Mrs.Pallavi K N Mr Lakshmikanth
6	6/3/2023 Monday	01.00 pm To 4.00pm	A1	22	1KS21CS001,1KS21CS002,1KS21CS003,1KS21CS004,1KS21CS005,1KS21CS006,1KS21CS007,1KS21CS008,1KS21CS009,1KS21CS010,1KS21CS011,1KS21CS012,1KS21CS013,1KS21CS014,1KS21CS015,1KS21CS016,1KS21CS017,1KS21CS018,1KS21CS019,1KS21CS020,1KS21CS021,1KS21CS022	Dr.Vijayalaxmi Mekali Mrs.Pallavi K N

  
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# K.S. INSTITUTE OF TECHNOLOGY, BANGALORE

III SEM

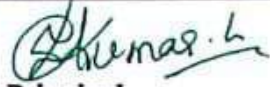
SECOND SESSIONAL TEST TIME TABLE (2022-2023)  
(ODD SEMESTER 2022)

Date : 28/12/2022

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
9/1/2023 Monday	9:30 AM To 10:30 AM	21MAT31- Transform calculus, fourier series and numerical techniques	21MAT31 - Transform Calculus, Fourier Series and Numerical Techniques (TCFSNT)	21MAT31- Transform Calculus, Fourier Series And Numerical Techniques	21MAT31 - Transform Calculus, Fourier Series And Numerical Techniques (TCFSNT)	21MAT31 - Transform Calculus, Fourier Series And Numerical Techniques (TCFSNT)
	2:00 PM To 3:00 PM	21CS32 - Data structures and its applications (DSA)	21CS32 - Data Structures and its Applications (DSA)	21CS32 - Data Structures And Applications	21EC32 - Digital System Design using Verilog	21ME32 - Metal casting, Forming and Joining Processes (MCF)
10/1/2023 Tuesday	9:30 AM To 10:30 AM	21CS33 - Analog and Digital Electronics (ADE)	21CS33 - Analog and Digital Electronics (ADE)	21CS33 - Analog And Digital Electronics	21EC33 - Basic Signal Processing	21ME33 - Material Science and Engineering (MS&E)
	2:00 PM To 3:00 PM	21KSK37/47 Samskrutika Kannada / 21KBK37/47 Balake Kannada	21CIP37 - Constitution of India and Professional Ethics (CIP)	21CIP37 - Constitution Of India And Professional Ethics	21KSK37/47 Samskrutika Kannada / 21KBK37/47 Balake Kannada	21CIP37 - Constitution of India and Professional Ethics (CIP)
11/1/2023 Wednesday	9:30 AM To 10:30 AM	21CS34 - Computer Organization and Architecture (COA)	21CS34 - Computer Organization and Architecture (COA)	21CS34 - Computer Organization And Architecture	21EC34 - Analog Electronic Circuits	21ME34 - Thermodynamics (TD)
	10.30 am REGULAR CLASSES / LABS					

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.

  
Academic Coordinator

  
Principal  
PRINCIPAL  
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BENGALURU - 560 109



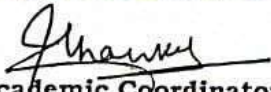
# K.S. INSTITUTE OF TECHNOLOGY, BANGALORE


III SEM

I SESSIONAL TEST TIME TABLE (2022-2023)  
(ODD SEMESTER 2022)

Date : 21/11/2022

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
28/11/2022 Monday	9:30 AM To 11:00 AM	21MAT31- Transform calculus, fourier series and numerical techniques	21MAT31 - Transform Calculus, Fourier Series and Numerical Techniques (TCFSNT)	21MAT31- Transform Calculus, Fourier Series And Numerical Techniques	21MAT31 - Transform Calculus, Fourier Series And Numerical Techniques (TCFSNT)	21MAT31 - Transform Calculus, Fourier Series And Numerical Techniques (TCFSNT)
	2:00 PM To 3:30 PM	21CS32 - Data structures and its applications (DSA)	21CS32 - Data Structures and its Applications (DSA)	21CS32 - Data Structures And Applications	21EC32 - Digital System Design using Verilog	21ME32 - Metal casting, Forming and Joining Processes (MCF)
29/11/2022 Tuesday	9:30 AM To 11:00 AM	21CS33 - Analog and Digital Electronics (ADE)	21CS33 - Analog and Digital Electronics (ADE)	21CS33 - Analog And Digital Electronics	21EC33 - Basic Signal Processing	21ME33 - Material Science and Engineering (MS&E)
	2:00 PM To 3:30 PM	21KSK37/47 Samskrutika Kannada / 21KBK37/47 Balake Kannada	21CIP37 - Constitution of India and Professional Ethics (CIP)	21CIP37 - Constitution Of India And Professional Ethics	21KSK37/47 Samskrutika Kannada / 21KBK37/47 Balake Kannada	21CIP37 - Constitution of India and Professional Ethics (CIP)
30/11/2022 Wednesday	9:30 AM To 11:00 AM	21CS34 - Computer Organization and Architecture (COA)	21CS34 - Computer Organization and Architecture (COA)	21CS34 - Computer Organization And Architecture	21EC34 - Analog Electronic Circuits	21ME34 - Thermodynamics (TD)
	11:30 am REGULAR CLASSES / LABS					
<b>Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.</b>						

  
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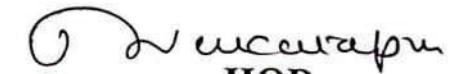


**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**LAB INTERNALS (SCR) TIME TABLE ODD SEM 2022-2023**

DATE:28-02-2023

DATE/LAB	TIMINGS	III SEM	
		A SEC	B SEC
21-03-2023 TUESDAY	09.00 am to 12.00 pm	A1 BATCH	
	12.30 pm to 03.30 pm	A2 BATCH	
22-03-2023 WEDNESDAY	09.00 am to 12.00 pm	A3 BATCH	
	12.30 pm to 03.30 pm		B1 BATCH
23-03-2023 THURSDAY	09.00 am to 12.00 pm		B2 BATCH
	12.30 pm to 03.30 pm		B3 BATCH

  
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**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**LAB INTERNALS- I TIME TABLE ODD SEM 2022-2023**

DATE:28-02-2023

DATE/LAB	TIMINGS	III SEM	
		A SEC	B SEC
09-03-2023 THURSDAY	09.00 am to 12.00 pm	JAVA LAB A1	AEC B1
	12.30 pm to 03.30 pm	JAVA LAB A2	AEC B2
10-03-2023 FRIDAY	09.00 am to 12.00 pm	JAVA LAB A3	AEC B3
13-03-2023 MONDAY	09.00 am to 12.00 pm	JAVA LAB B1	AEC A1
	12.30 pm to 03.30 pm	JAVA LAB B2	AEC A2
14-03-2023 TUESDAY	09.00 am to 12.00 pm	JAVA LAB B3	AEC A3

*B.N. S. V. S.*  
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*S. S. S.*  
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**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-560 109**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
ACADEMIC YEAR 2022-23(ODD)-III SEM LATERAL ENTRY STUDENTS LABORATORY INTERNAL TEST

Sl No	Date/Day	Time	Subject Name with Code	No of Students	Name of the Students USN	Name of the Examinars
1	20-03-2023 Monday	08.30 am to 11.30 am	DATA STRUCTURES LABORATORY (21CS32)	17	B NAVEEN KUMAR, ASHILESH VISHWAKARMA, DHANALAKSHMI P, LOGESHWARAN S, SHIVA KUMAR R, SOUNDARYA K S, ARBEENA FARHEEN, KIRAN B S, ABHISHEK S, MANOHARI S, VEDASHREE S, MOHAMMED FAISAL, LAYA R, SAINATH A, SPANDANA M, ARUNA G N, LAKSHMEESH M V	Mrs. Pallavi K N Mrs. Rashmi H
2	21-03-2023 TUESDAY	08.30 am to 11.30 am	ANALOG AND DIGITAL ELECTRONICS (21CS33)	17	B NAVEEN KUMAR, ASHILESH VISHWAKARMA, DHANALAKSHMI P, LOGESHWARAN S, SHIVA KUMAR R, SOUNDARYA K S, ARBEENA FARHEEN, KIRAN B S, ABHISHEK S, MANOHARI S, VEDASHREE S, MOHAMMED FAISAL, LAYA R, SAINATH A, SPANDANA M, ARUNA G N, LAKSHMEESH M V	Mr. Sanjoy Das Mr. Manoj Kumar S

*W. Narasimha*

HOD  
Head of the Department  
Dept. of Computer Science & Engg  
K.S. Institute of Technology  
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*P. S. Srinivas*

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**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**V SEM IMPROVEMENT TEST TIME TABLE (2022-2023)**

**DATE: 12-01-2023**

DATE	TIME	V SEM (2018 SCHEME)
27-01-2023 FRIDAY	9.30 AM TO 11.00 AM	MANAGEMENT AND ENTREPRENEURSHIP FOR IT INDUSTRY (18CS51)
	2.00 PM TO 3.30 PM	COMPUTER NETWORKS AND SECURITY (18CS52)
28-01-2023 SATURDAY	9.30 AM TO 11.00 AM	DATABASE MANAGEMENT SYSTEM (18CS53)
	2.00 PM TO 3.30 PM	AUTOMATA THEORY AND COMPUTABILITY(18CS54)
30-01-2023 MONDAY	9.30 AM TO 11.00 AM	APPLICATION DEVELOPMENT USING PYTHON (18CS55)
	1.00 PM TO 2.30 PM	UNIX PROGRAMMING (18CS56)
	03.00 PM To 04.00 PM	ENVIRONMENTAL STUDIES (18CIV59)

NOTE: All the students are strictly informed to wear lab uniforms, Mask and college ID Cards compulsorily during the test.

  
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**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**V SEM IMPROVEMENT TEST TIME TABLE (2022-2023)**

**DATE: 12-01-2023**

DATE	TIME	V SEM (2018 SCHEME)
27-01-2023 FRIDAY	9.30 AM TO 11.00 AM	MANAGEMENT AND ENTREPRENEURSHIP FOR IT INDUSTRY (18CS51 )
	2.00 PM TO 3.30 PM	COMPUTER NETWORKS AND SECURITY (18CS52)
28-01-2023 SATURDAY	9.30 AM TO 11.00 AM	DATABASE MANAGEMENT SYSTEM (18CS53)
	2.00 PM TO 3.30 PM	AUTOMATA THEORY AND COMPUTABILITY(18CS54)
30-01-2023 MONDAY	9.30 AM TO 11.00 AM	APPLICATION DEVELOPMENT USING PYTHON (18CS55)
	1.00 PM TO 2.30 PM	UNIX PROGRAMMING (18CS56)
	03.00 PM To 04.00 PM	ENVIRONMENTAL STUDIES (18CIV59)

NOTE: All the students are strictly informed to wear lab uniforms, Mask and college ID Cards compulsorily during the test.

  
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**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**LAB INTERNALS TT ODD SEM 2022-2023**

DATE:12-01-2023

DATE/LAB	TIMINGS	V SEM	
		A SEC	B SEC
23-01-2023 MONDAY	09.00 am to 12.00 pm	DBMS LAB A1	CN LAB B1
	12.30 pm to 03.30 pm	DBMS LAB A2	CN LAB B2
24-01-2023 TUESDAY	09.00 am to 12.00 pm	DBMS LAB A3	CN LAB B3
	12.30 pm to 03.30 pm	CN LAB A1	DBMS LAB B1
25-01-2023 WEDNESDAY	09.00 am to 12.00 pm	CN LAB A2	DBMS LAB B2
	12.30 pm to 03.30 pm	CN LAB A3	DBMS LAB B3

  
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Bengaluru -560 109



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

## V SEM

III SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 12-01-2023

DATE	TIME	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	MECHANICAL ENGG (2018 Scheme)	MECHANICAL ENGG (2017 Scheme)
18-01-2023 WEDNESDAY	9.30 AM TO 11.00 AM	MANAGEMENT, ENTREPRENEURSHIP FOR IT IDUSTRY (18CS51)	TECNOLOGICAL INNOVATION MANAGEMENT & ENTREPRENEURSHIP (18ES51)	MANAGEMENT & ENTREPRENEURSHIPFOR IT.INDUSTRY (18CS51)	MANAGEMENT & ECONOMICS (18ME51)	MANAGEMENT & ECONOMICS (17ME51)
	2.00 PM TO 3.30 PM	COMPUTER NETWORKS & SECURITY (18CS52)	DIGITAL SIGNAL PROCESSING (18EC52)	PYTHON PROGRAMMING (18AI52)	DESIGN OF MACHINE ELEMENTS-1 (18ME52)	DESIGN OF MACHINE ELEMENTS-1 (17ME52)
19-01-2023 THURSDAY	9.30 AM TO 11.00 AM	DATABASE MANAGEMENT SYSTEM (18CS53)	PRINCIPLES OF COMMUNICATION SYSTEMS (18EC53)	DATABASE MANAGEMENT SYSTEM (18CS53)	DYNAMICS OF MACHINERY (18ME53)	DYNAMICS OF MACHINERY (17ME53)
	2.00 PM TO 3.30 PM	AUTOMATA THEORY & COMPUTABILITY (18CS54)	INFORMATION THEORY & CODING (18EC54)	AUTOMATA THEORY & COMPUTABILITY (18CS54)	FLUID POWER ENGINEERING (18ME55)	NON TRADITIONAL MACHINING (17ME554)
20-01-2023 FRIDAY	9.30 AM TO 11.00 AM	APPLICATION DEVELOPMENT USING PYTHON (18CS55)	ELECTROMAGNETIC WAVES (18EC55)	PRINCIPLES OF ARTIFICIAL INTELLIGENCE (18AI55)	TURBO MACHINES (18ME54)	TURBO MACHINES (17ME54)
	1.30 PM TO 3.00 PM	UNIX PROGRAMMING (18CS56)	VERILOG HDL (18EC56)	MATHEMATICS FOR MACHINE LEARNING (18AI56)	OPERATION MANAGEMENT (18ME56)	ENERGY & ENVIRONMENT (17ME562)
	3.00 PM TO 4.00 PM	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	

NOTE: All the students are strictly informed to wear LAB uniforms, College ID Card is compulsory during the test.

*J. Shankar*  
12/1/23  
ACADEMIC COORDINATOR

*S. Kumar C*  
12/1/23  
PRINCIPAL  
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BENGALURU - 560 109.



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

V SEM

II SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 09-12-2022

DATE	TIME	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	MECHANICAL ENGG (2018 Scheme)	MECHANICAL ENGG (2017 Scheme)
22-12-2022 THURSDAY	9.30 AM TO 11.00 AM	MANAGEMENT, ENTREPRENEURSHIP FOR IT INDUSTRY (18CS51)	TECNOLOGICAL INNOVATION MANAGEMENT & ENTREPRENEURSHIP (18ES51)	MANAGEMENT & ENTREPRENEURSHIP FOR IT INDUSTRY (18CS51)	MANAGEMENT & ECONOMICS (18ME51)	MANAGEMENT & ECONOMICS (17ME51)
	2.00 PM TO 3.30 PM	COMPUTER NETWORKS & SECURITY (18CS52)	DIGITAL SIGNAL PROCESSING (18EC52)	PYTHON PROGRAMMING (18AI52)	DESIGN OF MACHINE ELEMENTS-1 (18ME52)	DESIGN OF MACHINE ELEMENTS-1 (17ME54)
23-12-2022 FRIDAY	9.30 AM TO 11.00 AM	DATABASE MANAGEMENT SYSTEM (18CS53)	PRINCIPLES OF COMMUNICATION SYSTEMS (18EC53)	DATABASE MANAGEMENT SYSTEM (18CS53)	DYNAMICS OF MACHINERY (18ME53)	DYNAMICS OF MACHINERY (17ME52)
	2.00 PM TO 3.30 PM	AUTOMATA THEORY & COMPUTABILITY (18CS54)	INFORMATION THEORY & CODING (18EC54)	AUTOMATA THEORY & COMPUTABILITY (18CS54)	FLUID POWER ENGINEERING (18ME55)	NON TRADITIONAL MACHINING (17ME554)
24-12-2022 SATURDAY	9.30 AM TO 11.00 AM	APPLICATION DEVELOPMENT USING PYTHON (18CS55)	ELECTROMAGNETIC WAVES (18EC55)	PRINCIPLES OF ARTIFICIAL INTELLIGENCE (18AI55)	TURBO MACHINES (18ME54)	TURBO MACHINES (17ME53)
	1.30 PM TO 3.00 PM	UNIX PROGRAMMING (18CS56)	VERILOG HDL (18EC56)	MATHEMATICS FOR MACHINE LEARNING (18AI56)	OPERATION MANAGEMENT (18ME56)	ENERGY & ENVIRONMENT (17ME562)
	3.00 PM TO 4.00 PM	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	
NOTE: All the students are strictly informed to wear LAB uniforms, College ID Card is compulsory during the test.						

*Shankar*  
9/12/22  
ACADEMIC COORDINATOR

*Shankar C*  
12/12/22  
PRINCIPAL

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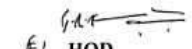


**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**LAB INTERNALS TT ODD SEM 2022-2023**

DATE:12-01-2023

DATE/LAB	TIMINGS	V SEM	
		A SEC	B SEC
23-01-2023 MONDAY	09.00 am to 12.00 pm	DBMS LAB A1	CN LAB B1
	12.30 pm to 03.30 pm	DBMS LAB A2	CN LAB B2
24-01-2023 TUESDAY	09.00 am to 12.00 pm	DBMS LAB A3	CN LAB B3
	12.30 pm to 03.30 pm	CN LAB A1	DBMS LAB B1
25-01-2023 WEDNESDAY	09.00 am to 12.00 pm	CN LAB A2	DBMS LAB B2
	12.30 pm to 03.30 pm	CN LAB A3	DBMS LAB B3

  
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 Bengaluru -560 109




**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**V SEM IMPROVEMENT TEST TIME TABLE (2022-2023)**

DATE: 12-01-2023

DATE	TIME	V SEM (2018 SCHEME)
27-01-2023 FRIDAY	9.30 AM TO 11.00 AM	MANAGEMENT AND ENTREPRENEURSHIP FOR IT INDUSTRY (18CS51)
	2.00 PM TO 3.30 PM	COMPUTER NETWORKS AND SECURITY (18CS52)
28-01-2023 SATURDAY	9.30 AM TO 11.00 AM	DATABASE MANAGEMENT SYSTEM (18CS53)
	2.00 PM TO 3.30 PM	AUTOMATA THEORY AND COMPUTABILITY(18CS54)
30-01-2023 MONDAY	9.30 AM TO 11.00 AM	APPLICATION DEVELOPMENT USING PYTHON (18CS55)
	1.00 PM TO 2.30 PM	UNIX PROGRAMMING (18CS56)
	03.00 PM To 04.00 PM	ENVIRONMENTAL STUDIES (18CIV59)

NOTE: All the students are strictly informed to wear lab uniforms, Mask and college ID Cards compulsorily during the test.

  
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 Bengaluru -560 109





# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

## V SEM

### I SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 02-11-2022

DATE	TIME	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	MECHANICAL ENGG (2018 Scheme)	MECHANICAL ENGG (2017 Scheme)
14-11-2022 MONDAY	9.30 AM TO 11.00 AM	MANAGEMENT, ENTREPRENEURSHIP FOR IT IDUSTRY (18CS51)	TECNOLOGICAL INNOVATION MANAGEMENT & ENTREPRENEURSHIP (18ES51)	MANAGEMENT & ENTREPRENEURSHIPFOR IT INDUSTRY (18CS51)	MANAGEMENT & ECONOMICS (18ME51)	MANAGEMENT & ECONOMICS (17ME51)
	2.00 PM TO 3.30 PM	COMPUTER NETWORKS & SECURITY (18CS52)	DIGITAL SIGNAL PROCESSING (18EC52)	PYTHON PROGRAMMING (18AI52)	DESIGN OF MACHINE ELEMENTS-1 (18ME52)	DESIGN OF MACHINE ELEMENTS-1 (17ME52)
15-11-2022 TUESDAY	9.30 AM TO 11.00 AM	DATABASE MANAGEMENT SYSTEM (18CS53)	PRINCIPLES OF COMMUNICATION SYSTEMS (18EC53)	DATABASE MANAGEMENT SYSTEM (18CS53)	DYNAMICS OF MACHINERY (18ME53)	DYNAMICS OF MACHINERY (17ME53)
	2.00 PM TO 3.30 PM	AUTOMATA THEORY & COMPUTABILITY (18CS54)	INFORMATION THEORY & CODING (18EC54)	AUTOMATA THEORY & COMPUTABILITY (18CS54)	FLUID POWER ENGINEERING (18ME55)	NON TRADITIONAL MACHINING (17ME554)
16-11-2022 WEDNESDAY	9.30 AM TO 11.00 AM	APPLICATION DEVELOPMENT USING PYTHON (18CS55)	ELECTROMAGNETIC WAVES (18ME55)	PRINCIPLES OF ARTIFICIAL INTELLIGENCE (18AI55)	TURBO MACHINES (18ME54)	TURBO MACHINES (17ME54)
	1.30 PM TO 3.00 PM	UNIX PROGRAMMING (18CS56)	VERILOG HDL (18EC56)	MATHEMATICS FOR MACHINE LEARNING (18AI56)	OPERATION MANAGEMENT (18ME56)	ENERGY & ENVIRONMENT (17ME562)
	3.00 PM TO 4.00 PM	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	

**NOTE: All the students are strictly informed to wear LAB uniforms, College ID Card is compulsory during the test.**

ACADEMIC COORDINATOR

PRINCIPAL

# K.S. INSTITUTE OF TECHNOLOGY

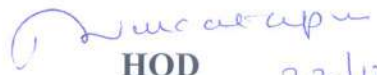
## VII SEM (2018 SCHEME)

### IMPROVEMENT TEST TIME TABLE (2022-2023)

DATE: 22-12-2022

DATE	COMPUTER SCIENCE AND ENGINEERING
29-12-2022 THURSDAY	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (18CS71)
	BIG DATA ANALYTICS (18CS72)
30-12-2022 FRIDAY	USER INTERFACE DESIGN (18CS734)
	CRYPTOGRAPHY (18CS744)
31-12-2022 SATURDAY	ENERGY AND ENVIRONMENT (18ME751)

**NOTE: Timings as per Subject Faculty Convenience**

  
**HOD** 22/12/22  
Head of the Department  
Dept. of Computer Science  
K.S. Institute of Technology  
Bengaluru -560 109



**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**VII SEM LAB INTERNALS TT ODD SEM 2022-2023**

DATE:22-12-2022

DATE/LAB	TIMINGS	VII SEM	
		A SEC	B SEC
26-12-2022 MONDAY	09.00 AM - 12.00 PM	AI & ML LAB A1	
	01.00 PM - 04.00 PM		AI & ML LAB B1
27-12-2022 TUESDAY	09.00 AM - 12.00 PM	AI & ML LAB A2	
	01.00 PM - 04.00 PM		AI & ML LAB B2
28-12-2022 WEDNESDAY	09.00 AM - 12.00 PM	AI & ML LAB A3	
	01.00 PM - 04.00 PM		AI & ML LAB B3

**Time Table Incharge**

1. Mr. Roopesh Kumar.B.N
2. Mr. Raghavendrachar.S

*Roopesh Kumar*  
*Raghavendra*

*Raghavendra*

**HOD**

Head of the Department  
Dept. of Computer Science & Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE


## VII SEM (2018 SCHEME)

### I SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 11-10-2022

DATE	TIME	COMPUTER SCIENCE AND ENGG	ELECTRONICS AND COMMUNICATION ENGG	ELECTRONICS AND TELECOMMUNICATION ENGG	MECHANICAL ENGG
27-10-2022 THURSDAY	9.30 AM TO 11.00 AM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (18CS71)	COMPUTER NETWORKS ( 18EC71)	OPTICAL COMMUNICATION ( 18TE71)	CONTROL ENGINEERING (18ME71)
	2.00 PM TO 3.30 PM	BIG DATA ANALYTICS (18CS72)	VLSI DESIGN ( 18EC72)	WIRELESS COMMUNICATION ( 18TE72)	COMPUTER AIDED DESIGN & MANUFACTURING (18ME72)
28-10-2022 FRIDAY	9.30 AM TO 11.00 AM	USER INTERFACE DESIGN (18CS734)	SATELLITE COMMUNICATION (18EC732)	SATELLITE COMMUNICATION (18EC732)	TOTAL QUALITY MANAGEMENT (18ME734)
	2.00 PM TO 3.30 PM	CRYPTOGRAPHY (18CS744)	CRYPTOGRAPHY (18EC744)	CRYPTOGRAPHY (18EC744)	ADDITIVE MANUFACTURING (18ME741)
29-10-2022 SATURDAY	9.30 AM TO 11.00 AM	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	PYTHON APPLICATION PROGRAMMING (18CS752)
	2.00 PM TO 3.30 PM	----	----	----	----

**NOTE:** All the students are strictly informed to wear LAB uniforms, College ID Card is compulsory during the test.

  
ACADEMIC COORDINATOR  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

  
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K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

# K.S. INSTITUTE OF TECHNOLOGY

## VII SEM (2018 SCHEME)


### III SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 13-12-2022

DATE	TIME	COMPUTER SCIENCE AND ENGINEERING	ELECTRONICS AND COMMUNICATION ENGG	ELECTRONICS AND TELECOMMUNICATION ENGG	MECHANICAL ENGG
22-12-2022 THURSDAY	9.30 AM TO 11.00 AM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (18CS71)	COMPUTER NETWORKS (18EC71)	OPTICAL COMMUNICATION (18TE71)	CONTROL ENGINEERING (18ME71)
	2.00 PM TO 3.30 PM	BIG DATA ANALYTICS (18CS72)	VLSI DESIGN (18EC72)	WIRELESS COMMUNICATION (18TE72)	COMPUTER AIDED DESIGN & MANUFACTURING (18ME72)
23-12-2022 FRIDAY	9.30 AM TO 11.00 AM	USER INTERFACE DESIGN (18CS734)	SATELLITE COMMUNICATION (18EC732)	SATELLITE COMMUNICATION (18EC732)	TOTAL QUALITY MANAGEMENT (18ME734)
	2.00 PM TO 3.30 PM	CRYPTOGRAPHY (18CS744)	CRYPTOGRAPHY (18EC744)	CRYPTOGRAPHY (18EC744)	ADDITIVE MANUFACTURING (18ME741)
24-12-2022 SATURDAY	9.30 AM TO 11.00 AM	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	PYTHON APPLICATION PROGRAMMING (18CS752)
	2.00 PM TO 3.30 PM	_____	_____	_____	_____

**NOTE: All the students are strictly informed to wear lab uniforms, Mask and college ID Cards compulsory during the test.**

  
13/12/22  
**ACADEMIC COORDINATOR**  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

  
13/12/22  
**PRINCIPAL**  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

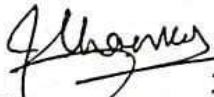
VII SEM (2018 SCHEME)

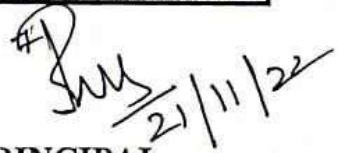
II SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 21-11-2022

DATE	TIME	COMPUTER SCIENCE AND ENGG	ELECTRONICS AND COMMUNICATION ENGG	ELECTRONICS AND TELECOMMUNICATION ENGG	MECHANICAL ENGG
28-11-2022 MONDAY	9.30 AM TO 11.00 AM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (18CS71)	COMPUTER NETWORKS (18EC71)	OPTICAL COMMUNICATION (18TE71)	CONTROL ENGINEERING (18ME71)
	2.00 PM TO 3.30 PM	BIG DATA ANALYTICS (18CS72)	VLSI DESIGN (18EC72)	WIRELESS COMMUNICATION (18TE72)	COMPUTER AIDED DESIGN & MANUFACTURING (18ME72)
29-11-2022 TUESDAY	9.30 AM TO 11.00 AM	USER INTERFACE DESIGN (18CS734)	SATELLITE COMMUNICATION (18EC732)	SATELLITE COMMUNICATION (18EC732)	TOTAL QUALITY MANAGEMENT (18ME734)
	2.00 PM TO 3.30 PM	CRYPTOGRAPHY (18CS744)	CRYPTOGRAPHY (18EC744)	CRYPTOGRAPHY (18EC744)	ADDITIVE MANUFACTURING (18ME741)
30-11-2022 WEDNESDAY	9.30 AM TO 11.00 AM	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	PYTHON APPLICATION PROGRAMMING (18CS752)
	11.30 AM ONWARDS	REGULAR CLASSES / LABS WILL BE HELD			

**NOTE: All the students are strictly informed to wear LAB uniforms, College ID Card is compulsory during the test.**

  
21/11/22  
**ACADEMIC COORDINATOR**  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

  
21/11/22  
**PRINCIPAL**  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**VII SEM LAB INTERNALS TT ODD SEM 2022-2023**

DATE: 22-12-2022

DATE/LAB	TIMINGS	VII SEM	
		A SEC	B SEC
26-12-2022 MONDAY	09.00 AM - 12.00 PM	AI & ML LAB A1	
	01.00 PM - 04.00 PM		AI & ML LAB B1
27-12-2022 TUESDAY	09.00 AM - 12.00 PM	AI & ML LAB A2	
	01.00 PM - 04.00 PM		AI & ML LAB B2
28-12-2022 WEDNESDAY	09.00 AM - 12.00 PM	AI & ML LAB A3	
	01.00 PM - 04.00 PM		AI & ML LAB B3

**Time Table Incharge**

1. Mr. Roopesh Kumar.B.N
2. Mr. Raghavendrchar.S

*[Signature]*

*[Signature]*  
HOD

K.S. Institute of Technology  
Bengaluru - 560 109

**K.S. INSTITUTE OF TECHNOLOGY**

**VII SEM (2018 SCHEME)**

**IMPROVEMENT TEST TIME TABLE (2022-2023)**

DATE: 22-12-2022

DATE	COMPUTER SCIENCE AND ENGINEERING
29-12-2022 THURSDAY	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (18CS71)
	BIG DATA ANALYTICS (18CS72)
30-12-2022 FRIDAY	USER INTERFACE DESIGN (18CS734)
	CRYPTOGRAPHY (18CS744)
31-12-2022 SATURDAY	ENERGY AND ENVIRONMENT (18ME751)

NOTE: Timings as per Subject Faculty Convenience

*[Signature]*  
HOD 22/12/22

K.S. Institute of Technology  
Bengaluru - 560 109

**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**I SEMESTER - 2ND INTERNAL TEST INVIGILATION DUTY (2022-2023)**

Date	Timings	NB 102	NB 104	NB 202	NB 203	NB 205	NB 301	NB 302	NB SH 008 (G-Floor)	NB SH 103 (1st Floor)	NB SH 204 (2nd Floor)	NB SH 303 (3rd Floor)	NB SH 403 (4th Floor)	OB SH 307 (3rd Floor)
1-03-2023 WEDNESDAY	9:30 am to 10:30 am	HU (ME)	TML (ME)	RC (BS)	MV (BS)	RKM (AIML)	HJR (CSE)	DB (ECE)	SB (ECE)	MN (BS)	CS (BS)	TR (BS)	HS (BS)	KK (CSE)
	2:00 pm to 3:00 pm	RKM (AIML)	RC (BS)	MV (BS)	SB (ECE)	SS (ECE)	SST (ECE)	SV (ECE)	MS (BS)	CL (BS)	SG (BS)	KRS (BS)	NV (BS)	RJ (CSE)
2-03-2023 THURSDAY	9:30 am to 10:30 am	BS (BS)	HU (ME)	SN (BS)	RKM (AIML)	PR (CSE)	DB (ECE)	SB (ECE)	SS (ECE)	TN (BS)	MN (BS)	CS (BS)	TR (BS)	RJ (CSE)
	1:30 pm to 2:30 pm	LN (ME)	MBR (ME)	RN (ME)	AK (ME)	TML (ME)	RGL (ME)	SN (BS)	SST (ECE)	SS (ECE)	HS (BS)	CS (BS)	TR (BS)	RJ (CSE)
	3:00 pm to 4:00 pm	HJR (CSE)	BS (BS)	SN (BS)	DB (ECE)	MS (BS)	CL (BS)	TN (BS)	SG (BS)	KRS (BS)	NP (BS)	TR (BS)	NP (CSE)	KK (CSE)
3-03-2023 FRIDAY	9:30 am to 10:30 am	TML (ME)	RH (CSE)	PKN (CSE)	KMS (CSE)	BK (CSE)	SST (ECE)	SV (ECE)	TN (BS)	MN (BS)	CS (BS)	TR (BS)	NP (CSE)	RJ (CSE)
	1:30 pm to 2:30 pm	NB (ME)	RGL (ME)	MBR (ME)	RKM (AIML)	MS (BS)	TN (BS)	SG (BS)	HS (BS)	NV (BS)	CS (BS)	KRS (BS)	KK (CSE)	NP (CSE)
	3:00 pm to 4:00 pm	RN (ME)	AK (ME)	SV (ECE)	MS (BS)	CL (BS)	SG (BS)	MN (BS)	KRS (BS)	HS (BS)	NP (BS)	NV (BS)	NP (CSE)	KK (CSE)

*[Signature]*  
28/2/23  
ACADEMIC COORDINATOR

*[Signature]*  
PRINCIPAL  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.

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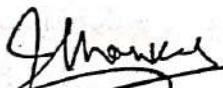





**K. S. INSTITUTE OF TECHNOLOGY, Bangalore - 109**  
**VII SEM I SESSIONAL TEST SQUAD DUTY (2022-2023)**

Date	Timings	Squad
27-10-2022 THURSDAY	9:30 am to 11:00 am	VM (CSE) PNS(ECE) GTR(ME)
	2:00 pm to 3:30 pm	HJR (CSE) CVR(ECE) NKS(ME)
28-10-2022 FRIDAY	9:30 am to 11:00 am	HJR (CSE) CVR(ECE) NKS(ME)
	2:00 pm to 3:30 pm	VM (CSE) PNS(ECE) GTR(ME)
29-10-2022 SATURDAY	9:30 am to 11:00 am	HJR (CSE) CVR(ECE) NKS(ME)

**Squad Duty :** CSE : Mr. Harshavardhan J R (HJR) & Dr. Vijayalaxmi Mekali (VM)  
ECE : Dr. P N Sudha (PNS) , & Dr. Chanda V Reddy (CVR)  
ME : Dr. Girish T R (GTR) & Dr. Nagaprasad K S (NKS)

  
20/10/22  
**ACADEMIC COORDINATOR**  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

  
**Principal**  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

**K.S.INSTITUTE OF TECHNOLOGY, Bangalore - 109**  
**VII SEM I SESSIONAL TEST INVIGILATION DUTY (2022-2023)**

Date	Timings	201	203	204	205	206	207	208	209
27-10-2022 THURSDAY	9:30 am to 11:00 am	BK (CSE)	NM (ME)	KG (CSE)	RGL (ME)	PR (CSE)	PA (ECE)	PS (ECE)	AKG (ECE)
	2:00 pm to 3:30 pm	PR (CSE)	MBR (ME)	KMS (CSE)	PHS. (CSE)	SST (ECE)	SB (ECE)	LK (CSE)	PS (ECE)
28-10-2022 FRIDAY	9:30 am to 11:00 am	KMS (CSE)	AKG (ECE)	SB (ECE)	PKN (CSE)	MBR (ME)	PA (ECE)	SST (ECE)	LK (CSE)
	2:00 pm to 3:30 pm	BK (CSE)	SST (ECE)	PKN (CSE)	PS (ECE)	RGL (ME)	GR (CSE)	NM (ME)	AKG (ECE)
29-10-2022 SATURDAY	9:30 am to 11:00 am	LK (CSE)	PA (ECE)	GR (CSE)	MBR (ME)	PHS (CSE)	AKG (ECE)	RGL (ME)	KG (CSE)

*[Signature]*  
 20/10/22  
 ACADEMIC-INCHARGE

*[Signature]*

PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOG.  
 BENGALURU - 560 109

Mr. Krishna Gudi	KG	Dr. Surekha	SB
Mr. Prashanth HS	PHS	Mr. Praveen	PA
Mrs. Beena K	BK	Mr. Saleem S Tevaramani	SST
Mrs. Geetha R	GR	Mr. Aswini Kumar	AKG
Mrs. Pallavi K N	PKN	Mrs. Pooja S	PS
Mrs. Kavya M S	KMS	Mr. Nagabhushana M	NM
Mrs. Pallavi R	PR	Mr. Manjunath B R	MBR
Mr. Laxmikantha K	LK	Mr. Rajesh G L	RGL

**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**V SEM - I SESSIONAL TEST SQUAD DUTY (2022-2023)**

Date	Timings	Squad Members
14-11-2022 MONDAY	9:30 am to 11:00 am	VM (CSE) MUS(ME) SRK(BS)
	2:00 pm to 3:30 pm	HJR (CSE) KP(ME) BS(ECE)
15-11-2022 TUESDAY	9:30 am to 11:00 am	HJR (CSE) LN(ME) BS(ECE)
	2:00 pm to 3:30 pm	VM (CSE) MUS(ME) VAM (AIML)
16-11-2022 WEDNESDAY	9:30 am to 11:00 am	HJR (CSE) KP(ME) BS(ECE)
	1.30 pm to 3.00 pm	VM (CSE) LN(ME) MUS(ME)
	3.00 pm to 4.00 pm	***

**Squad Duty :** CSE : Mr. Harshavardhan J R (HJR) & Dr. Vijayalaxmi Mekali (VM)  
 ECE : Dr. Sudharshan B (SB)  
 ME : Dr. M Umashankar (MUS), Mr. K Prasad (KP), Dr. L Nirmala (LN)  
 BS: Dr. Kiran Kumar S R (SRK)  
 AIML: Dr. Vanitha A M

*[Signature]*  
 8/11/22  
 ACADEMIC COORDINATOR  
 Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

*[Signature]*  
 Principal  
 PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.

*Staff circulation*

*9/11/22*

*Non teaching staff are informed to check students before they enter class room during Test*

*9/11/22*

**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**V SEM - I SESSIONAL TEST INVIGILATION DUTY (2022-2023)**

Date	Timings	OB 201	OB 203	OB 204	OB 205	OB 206	OB 305	OB 306	OB 307 (ECE-SH)
14-11-2022 MONDAY	9:30 am to 11:00 am	LN (ME)	AS (AIML)	SS (AIML)	MKS (CSE)	VD (ECE)	LK (CSE)	BA (ECE)	PR (CSE)
	2:00 pm to 3:30 pm	MBR (ME)	AK (ME)	RN (ECE)	SV (ECE)	KBN (CSE)	BHA (ECE)	SG (CSE)	KBM (ECE)
15-11-2022 TUESDAY	9:30 am to 11:00 am	KP (ME)	SV (ECE)	SS (AIML)	LKK (AIML)	PR (CSE)	KBM (ECE)	LK (CSE)	KMS (CSE)
	2:00 pm to 3:30 pm	RN (ME)	RH (CSE)	MBR (ME)	MKS (CSE)	RN (ECE)	ST (CSE)	BA (ECE)	AK (ME)
16-11-2022 WEDNESDAY	9:30 am to 11:00 am	AK (ME)	LKK (AIML)	RH (CSE)	BHA (ECE)	KBM (ECE)	RN (ME)	SS (AIML)	SG (CSE)
	1.30 pm to 3.00 pm	NPR (BS)	BS (ECE)	RN (ECE)	KMS (CSE)	SV (ECE)	BA (ECE)	ST (CSE)	KRS (BS)
	3.00 pm to 4.00 pm	KBN (CSE)	MBR (ME)	RN (ME)	RH (CSE)	KBM (ECE)	SG (CSE)	BHA (ECE)	ST (CSE)

*[Signature]*  
 8/11/22  
 ACADEMIC COORDINATOR

*[Signature]*  
 PRINCIPAL  
 PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY  
 - BENGALURU - 560 109.

Dr.Sudarshan B	SB	N P Radhika	NPR
Mrs.Sangeetha V	SV	Shylaja K R	KRS
Mrs.Bhargavi Ananth	BA	Mr. Anil Kumar A	AK
Dr.Rekha N	RN	Mr. K Prasad	KP
Mrs. Vishalini Divakar	VD	Dr. L Nirmala	LN
Mrs.Bhanumathi A	BHA	Mr. Manjunath B R	MBR
Mrs.Kavya B M	KBM	Mr. Ranganath N	RN
Amulyashree S	AS	Mr. Manoj Kumar S	MKS
Sahanasharma M	SS	Lakshmikantha K	LK
Lakshmi KK	LKK	Pallavi R	PR
Kushal Kumar B N	KBN	Kavya M S	KMS
Supreetha Ganesh	SG	Rashmi H	RH
Somshekar T	ST		

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## VII SEM 2018 SCHEME

### FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

Room No: 201

BLACK BOARD

VII 'A' CS	VII 'A' EC
1KS19CS001	1KS19EC001
1KS19CS002	1KS19EC002
1KS19CS003	1KS19EC003
1KS19CS004	1KS19EC004
1KS19CS005	1KS19EC005
1KS19CS006	1KS19EC006

VII 'A' CS	VII 'A' EC
1KS19CS007	1KS19EC007
1KS19CS009	1KS19EC008
1KS19CS010	1KS19EC009
1KS19CS011	1KS19EC010
1KS19CS012	1KS19EC011
1KS19CS014	1KS19EC012

VII 'A' CS	VII 'A' EC
1KS19CS015	1KS19EC014
1KS19CS016	1KS19EC015
1KS19CS017	1KS19EC016
1KS19CS018	1KS19EC017
1KS19CS019	1KS19EC018
1KS19CS020	1KS19EC019

VII CS 'A' SEC Total = 18

VII EC 'A' SEC Total = 18



ACADEMIC COORDINATOR  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

  
19/10/22  
PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY  
BANGALURU - 560 109

# K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## VII SEM 2018 SCHEME

### FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

Room No: 203


BLACK BOARD

VII 'A' CS	VII 'A' EC	VII 'A' CS	VII 'A' EC	VII 'A' CS	VII 'A' ME
1KS19CS021	1KS19EC020	1KS19CS028	1KS19EC027	1KS19CS034	1KS19ME001
1KS19CS022	1KS19EC021	1KS19CS029	1KS19EC028	1KS19CS035	1KS19ME002
1KS19CS023	1KS19EC022	1KS19CS030	1KS19EC029	1KS19CS036	1KS19ME003
1KS19CS024	1KS19EC023	1KS19CS031	1KS19EC030	1KS19CS038	1KS19ME004
1KS19CS025	1KS19EC024	1KS19CS032	1KS19EC031	1KS19CS039	1KS19ME005
1KS19CS026	1KS19EC025	1KS19CS033	1KS19EC032	1KS19CS040	1KS19ME008

VII CS 'A' SEC Total = 18

VII EC 'A' SEC Total = 12

VII ME 'A' SEC Total = 06

  
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# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## VII SEM 2018 SCHEME

### FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

Room No: 204

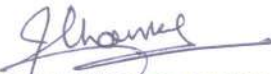
BLACK BOARD

VII 'A' CS		VII 'A' EC	VII 'A' CS		VII 'A' EC	VII 'A' CS		VII 'A' ME
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1KS19CS042		1KS19EC035	1KS19CS048		1KS19EC041	1KS19CS054		1KS19ME010
1KS19CS043		1KS19EC036	1KS19CS049		1KS19EC042	1KS19CS055		1KS19ME011
1KS19CS044		1KS19EC037	1KS19CS050		1KS19EC043	1KS19CS056		1KS19ME013
1KS19CS045		1KS19EC038	1KS19CS051		1KS19EC044	1KS19CS057		1KS19ME014
1KS19CS046		1KS19EC039	1KS19CS052		1KS19EC045	1KS19CS058		1KS19ME015

VII CS 'A' SEC Total = 18

VII EC 'A' SEC Total = 12

VII ME 'A' SEC Total = 06

  
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# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## VII SEM 2018 SCHEME

### FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

Room No: 205


BLACK BOARD

VII 'A & B' CS		VII 'A' EC	VII 'B' CS		VII 'A' EC	VII 'B' CS		VII 'A' ME
1KS18CS011		1KS19EC046	1KS19CS060		1KS19EC052	1KS19CS066		1KS19ME016
1KS19CS116		1KS19EC047	1KS19CS061		1KS19EC053	1KS19CS067		1KS19ME017
1KS20CS400		1KS19EC048	1KS19CS062		1KS19EC054	1KS19CS068		1KS19ME018
1KS20CS404		1KS19EC049	1KS19CS063		1KS19EC055	1KS19CS069		1KS19ME019
1KS20CS402		1KS19EC050	1KS19CS064		1KS19EC056	1KS19CS070		1KS19ME020
1KS19CS059		1KS19EC051	1KS19CS065		1KS19EC057	1KS19CS071		1KS19ME021

VII CS 'A' SEC Total = 05 VII CS 'B' SEC TOTAL = 13

VII EC 'A' SEC Total = 12

VII ME 'A' SEC Total = 06

  
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# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## VII SEM 2018 SCHEME

### FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

Room No: 206

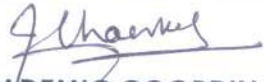
BLACK BOARD

VII 'B' CS		VII 'A' EC	VII 'B' CS		VII 'A & B' EC	VII 'A' ME		VII 'B' EC
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1KS19CS073		1KS19EC059	1KS19CS079		1KS19EC066	1KS19ME023		1KS19EC073
1KS19CS074		1KS19EC061	1KS19CS080		1KS19EC067	1KS19ME024		1KS19EC074
1KS19CS075		1KS19EC062	1KS19CS081		1KS19EC068	1KS19ME025		1KS19EC075
1KS19CS076		1KS19EC063	1KS19CS082		1KS19EC069	1KS19ME026		1KS19EC076
1KS19CS077		1KS19EC064	1KS19CS083		1KS19EC070	1KS19ME027		1KS19EC077

VII CS 'B' SEC Total = 12

VII EC 'A' SEC Total = 08      VII EC 'B' SEC TOTAL = 10

VII ME 'A' SEC Total = 06

  
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## VII SEM 2018 SCHEME

### FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

Room No: 207

BLACK BOARD

VII 'B' CS		VII 'B' EC	VII 'B' CS		VII 'B' EC	VII 'A' ME		VII 'B' EC
1KS19CS084		1KS19EC078	1KS19CS090		1KS19EC085	1KS19ME028		1KS19EC092
1KS19CS085		1KS19EC079	1KS19CS091		1KS19EC086	1KS19ME029		1KS19EC093
1KS19CS086		1KS19EC081	1KS19CS092		1KS19EC087	1KS19ME030		1KS19EC094
1KS19CS087		1KS19EC082	1KS19CS093		1KS19EC088	1KS19ME032		1KS19EC095
1KS19CS088		1KS19EC083	1KS19CS094		1KS19EC089	1KS19ME033		1KS19EC096
1KS19CS089		1KS19EC084	1KS19CS096		1KS19EC090	1KS19ME034		1KS19EC097

VII CS 'B' SEC Total = 12

VII EC 'B' SEC Total = 18

VII ME 'A' SEC Total = 06

  
ACADEMIC COORDINATOR

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19/10/22  
PRINCIPAL

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# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## VII SEM 2018 SCHEME

### FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

Room No: 208

BLACK BOARD

VII 'B' CS		VII 'B' EC	VII 'B' CS		VII 'B' EC	VII 'A' ME		VII 'B' EC & VII TCE
1KS19CS097		1KS19EC098	1KS19CS103		1KS19EC104	1KS19ME035		1KS20EC400
1KS19CS098		1KS19EC099	1KS19CS104		1KS19EC105	1KS19ME036		1KS20EC401
1KS19CS099		1KS19EC100	1KS19CS105		1KS19EC106	1KS19ME037		1KS20EC402
1KS19CS100		1KS19EC101	1KS19CS106		1KS19EC107	1KS19ME039		1KS18TE005
1KS19CS101		1KS19EC102	1KS19CS107		1KS19EC108	1KS19ME040		1KS19ET002
1KS19CS102		1KS19EC103	1KS19CS108		1KS18EC089	1KS18ME001		1KS19ET003

VII CS 'B' SEC Total = 12

VII EC 'B' SEC Total = 18

VII ME 'A' SEC Total = 06

  
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# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## VII SEM 2018 SCHEME

### FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

Room No: 209

BLACK BOARD

VII 'B' CS	VII TCE
1KS19CS109	1KS19ET004
1KS19CS110	1KS19ET005
1KS19CS111	1KS19ET006
1KS19CS112	1KS19ET007
1KS19CS113	1KS19ET008
1KS19CS115	1KS19ET009

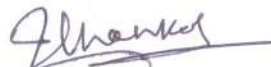
VII 'B' CS	VII TCE
1KS18CS021	1KS19ET010
1KS18CS068	1KS19ET011
1KS20CS401	1KS19ET012
1KS20CS403	

VII 'A' ME
1KS18ME008
1KS18ME010
1KS18ME024
1KS18ME048
1KS18ME056
1KS18ME057

VII CS 'B' SEC Total = 10

VII EC 'B' SEC Total = 09

VII ME 'A' SEC Total = 06

  
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Bengaluru - 560 109.

  
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**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**SET: A**

USN

Degree : B.E., Semester : III  
Branch : Computer Science and Engineering Course Code : 21CS32  
Course Title : Data Structures and Applications Date : 28/11/2022  
Duration : 90 Minutes Max Marks : 20

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>.. PART-A</b>				
1(a)	Demonstrate working of nested structures by writing the C program with an appropriate structure definition and variable declaration to read and display information about 5 employees. Consider the following fields like Ename, Empid, DOJ(Date, Month, Year) and salary(Basic, DA, HRA).	4	CO1	K2
(b)	Explain dynamic memory allocation functions with syntax and examples.	4	CO1	K2
(c)	Construct the triple representation for the given sparse matrix A and also give its transpose. Build a simple transpose for an array of triples representation of sparse matrix. $\begin{bmatrix} 15 & 0 & 0 & 22 & 0 & -15 \\ 0 & 11 & 3 & 0 & 0 & 0 \\ 0 & 0 & 0 & -6 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 91 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 28 & 0 & 0 & 0 \end{bmatrix}$	4	CO1	K3
<b>OR</b>				
2(a)	Demonstrate implementation of C program to build dynamic 2D array using dynamic memory allocation functions.	4	CO1	K2
(b)	Outline a Program in C for the following Array operations a. Creating an Array of N Integer Elements b. Display of Array Elements with Suitable Headings c. Inserting an Element (ELEM) at a given valid Position (POS) d. Deleting an Element at a given valid Position(POS)	4	CO1	K2
(c)	Experiment with the Polynomial and the degree of the polynomial. Consider the two polynomials $A(x) = 4x^{1000} + 6$ and $B(x) = 10x^3 + 3x^2 + 9$ . Build a diagrammatic array representation of the addition of these two polynomials and write the C function for the addition of two polynomials.	4	CO1	K3

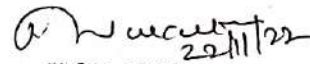
PART -B				
3(a)	Explain Array representation of stack with example.	4	CO2	K2
(b)	Demonstrate implantation of the C program for the following operations on the stack. Push ii) pop iii) display iv) Underflow_Overflow	4	CO2	K2
OR				
4(a)	Explain Stack ADT	4	CO2	K2
(b)	Illustrate postfix evaluation algorithm to evaluate the given postfix expressions. a b c + * d e / - Where a=5, b=6, c=2, d=12, e=4	4	CO2	K2

 22/11/22

Name & Signature of  
Course In charge

 22/11/22

Name & Signature of  
Module Coordinator

 22/11/22  
HOD CSE

 22/11/22  
Principal

Selected



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23ODDSEMESTER**

**SET: B**

USN									
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Degree	: B.E.,	Semester	: III
Branch	: Computer Science and Engineering	Course Code	: 21CS32
Course Title	: Data Structures and Applications	Date	: 28/11/2022
Duration	: 90 Minutes	Max Marks	: 20

Note: Answer ONE full question from each part.

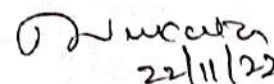
K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Explain dynamic memory allocation-functions with syntax and examples.	4	CO1	K2
(b)	Demonstrate working of following array operations by writing C Program a. Creating an Array of N Integer Elements b. Display of Array Elements with Suitable Headings c. Inserting an Element (ELEM) at a given valid Position (POS) d. Deleting an Element at a given valid Position(POS)	4	CO1	K2
(c)	Construct the triple representation for the given sparse matrix A and also give its transpose. Build a fast transpose function for an array of triples. $\begin{bmatrix} 10 & 0 & 0 & 25 & 0 \\ 0 & 23 & 0 & 0 & 45 \\ 0 & 0 & 0 & 0 & 32 \\ 42 & 0 & 0 & 31 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 30 & 0 & 0 \end{bmatrix}$	4	CO1	K3
<b>OR</b>				
2(a)	Outline a C program to build dynamic 2D arrays using dynamic memory allocation functions.	4	CO1	K2
(b)	Illustrate working of Binary search for the following given list of elements, with key = 81 11, 28, 35, 39, 46, 49, 55, 62, 66, 77, 81, 89 Outline C function for Binary search.	4	CO1	K2
(c)	Experiment with the Polynomial and the degree of the polynomial. Consider the two polynomials $A(x) = 2x^{10} + 3x^4 + 9x + 1$ and $B(x) = 6x^6 + 4x^4 + 8x^2 + 4x + 2$ . Build a diagrammatic array representation of the addition of these two polynomials and write the C function for the addition of two polynomials.	4	CO1	K3

PART -B				
3(a)	Explain Stack ADT	4	CO2	K2
(b)	Demonstrate implementation of the C program for the following operations on the stack. Push ii) pop iii) display iv) Underflow_Overflow	4	CO2	K2
OR				
4(a)	Explain Array representation of stack with example.	4	CO2	K2
(b)	Illustrate postfix evaluation algorithm to evaluate the given postfix expressions. a b c + * d e / - Where a=5, b=6, c=2, d=12, e=4	4	CO2	K2

  
Name & Signature of  
Course In charge

  
Name & Signature of  
Module Coordinator

  
HOD CSE

  
Principal





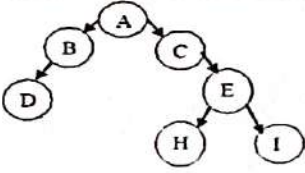
**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**SET: A**

USN

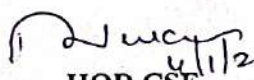
Degree : B. E., Semester : III  
 Branch : Computer Science and Engineering Course Code : 21CS32  
 Course Title : Data Structures and Applications Date : 9/1/2023  
 Duration : 60 Minutes Max Marks : 20

Note: Answer ONE full question from each part.  
 K-Levels: K1-Remebering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Develop the C functions to implement operations on stack using Singly linked list	4	CO3	K3
(b)	Develop the C function for Linear Search to search a given KEY element in Doubly linked list	4	CO3	K3
(c)	i. Identify difference between Singly linked list and Doubly linked list. ii. Build the C function to Concatenate two Circular doubly linked list	4	CO3	K3
<b>OR</b>				
2(a)	Construct the following C functions for Singly linked list i. Insertion of new node after the specified node of singly linked list ii. Deletion of specified node	4	CO3	K3
(b)	Develop the C functions to implement operations on queue using Doubly linked list	4	CO3	K3
(c)	Build the following C function to Deletion of last node of Singly linked list.	4	CO3	K3
<b>PART -B</b>				
3(a)	Develop the C functions to implement insert, delete and display operations of circular queue.	4	CO2	K3
(b)	Make use of suitable example to explain the following i. Binary tree ii. Binary Search tree iii. Complete binary tree iv. Skewed binary tree	4	CO4	K3
<b>OR</b>				
4(a)	Make use of infix to postfix conversion algorithm that uses stack to convert the following infix expression to postfix expression i) $A + (B * C - (D / E \uparrow F) * G) * H$ ii) $(A - B) / ((D + E) * F)$	4	CO2	K3
(b)	Construct the array and linked list representation for given binary tree 	4	CO4	K3

  
 Name & Signature of  
 Course In charge

  
 Name & Signature of  
 Module Coordinator

  
 HOD CSE

  
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**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**SET: B**

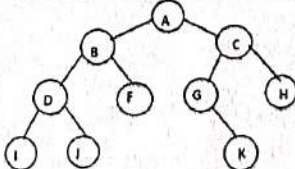
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Degree : B. E.,  
Branch : Computer Science and Engineering  
Course Title : Data Structures and Applications  
Duration : 60 Minutes

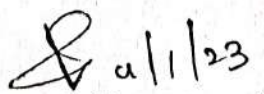
Semester : III  
Course Code : 21CS32  
Date : 9/1/2023  
Max Marks : 20

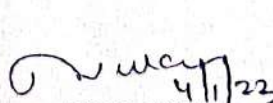
Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Develop the C functions to implement operations on queue using Singly linked list	4	CO3	K3
(b)	Develop the C function for Linear Search to search a given KEY element in singly linked list	4	CO3	K3
(c)	Construct the following C functions for Doubly linked list i. Insertion of new node after a specified node value of Doubly linked lists. ii. Deletion of specified node.	4	CO3	K3
<b>OR</b>				
2(a)	i. Identify disadvantage of Singly linked list over Doubly linked list. ii. Build the C function to Concatenate two Doubly linked list	4	CO3	K3
(b)	Develop the C functions to implement operations on stack using Doubly linked list	4	CO3	K3
(c)	Develop the C functions to count number of nodes in Circular Singly linked list.	4	CO3	K3
<b>PART -B</b>				
3(a)	Develop the C functions to implement input restricted Dqueue	4	CO2	K3
(b)	Make use of suitable example to explain the following i. Binary tree ii. Binary Search tree iii. Complete binary tree iv. Skewed binary tree	4	CO4	K3
<b>OR</b>				
4(a)	Make use of infix to postfix conversion algorithm that uses stack to convert the following infix expressions to postfix expression i) $a + c - (d \% e \wedge b)$ ii) $A * B * C + D$	4	CO2	K3
(b)	Construct the array and linked list representation for given binary tree 	4	CO4	K3

  
Name & Signature of  
Course In charge

  
Name & Signature of  
Module Coordinator

  
HOD CSE

  
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**THIRD INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

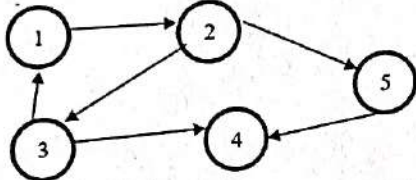
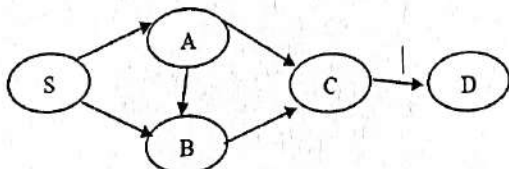
**SET: A**

Degree : B. E.,  
 Branch : Computer Science and Engineering  
 Course Title : Data Structures and Applications  
 Duration : 60 Minutes

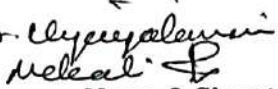
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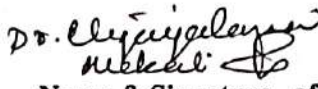
Semester : III  
 Course Code : 21CS32  
 Date : 27/3/2023  
 Max Marks : 20

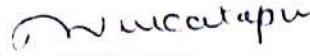
Note: Answer ONE full question from each part.  
 K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Construct the adjacency matrix and adjacency list representation for the following given graph. 	4	CO5	K3
1(b)	Apply the Breadth First Search (BFS) for the following given graph (Source Vertex is S). 	4	CO5	K3
1(c)	Identify and explain different Hash functions with suitable examples	4	CO5	K3
<b>OR</b>				
2(a)	Construct the AVL tree by inserting the elements 25, 26, 28, 23, 22, 24 and 27	4	CO5	K3
2(b)	Develop C function for BFS and DFS traversal of the graph.	4	CO5	K3
2(c)	Experiment with the following trees with suitable examples i. AVL tree ii. B-tree iii. Splay tree.	4	CO5	K3
<b>PART -B</b>				
3(a)	Build C-functions for Inorder, Preorder and Postorder traversals of Binary Tree	4	CO4	K3
3(b)	Model the Binary Tree for the following given sequences Inorder: D B E A F C Preorder: A B D E C F	4	CO4	K3

OR				
4(a)	Build the Binary Search Tree for the following given list of elements 100 85 45 55 110 20 70 55 65 Write the Inorder, Preorder and Postorder traversal sequence for the resultant Binary Search Tree.	4	CO4	K3
4(b)	Develop the threaded binary tree for the following given list of elements 10, 20, 30, 40, 50	4	CO4	K3

Dr. Vijayalaxmi  
  
 Name & Signature of  
 Course In charge

Dr. Vijayalaxmi  
  
 Name & Signature of  
 Module Coordinator

  
 HOD CSE

  
 Principal



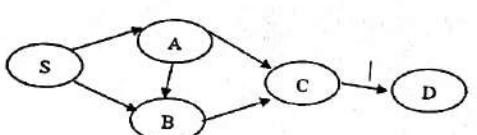
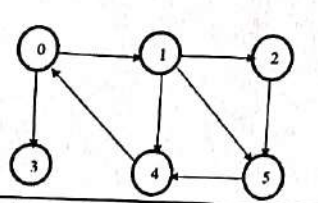
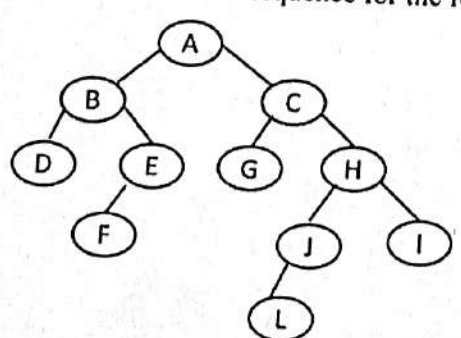
**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**SET: B**

Degree : B. E.,  
 Branch : Computer Science and Engineering  
 Course Title : Data Structures and Applications  
 Duration : 60 Minutes

USN									
Semester	: III								
Course Code	: 21CS32								
Date	: 27/3/2023								
Max Marks	: 20								

Note: Answer ONE full question from each part.  
 K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Apply the Depth First Search (DFS) for the following given graph (Source Vertex is S).  	4	CO5	K3
(b)	Develop C function for BFS and DFS traversal of graph.	4	CO5	K3
(c)	Choose and explain different collision resolution techniques with suitable examples	4	CO5	K3
<b>OR</b>				
2(a)	Construct the adjacency matrix and adjacency list representation for the following given graphs.  	4	CO5	K3
(b)	Construct the AVL tree by inserting the elements 25, 26, 28, 23, 22, 24 and 27	4	CO5	K3
(c)	Experiment with the following trees with suitable examples i. AVL tree ii. B-tree iii. Splay tree.	4	CO5	K3
<b>PART -B</b>				
3(a)	Build Inorder, Preorder and Postorder sequence for the following tree  	4	CO4	K3

(b)	Develop the threaded binary tree for the following given list of elements 10, 20, 30, 40, 50	4	CO4	K3
OR				
4(a)	Construct the binary tree given with Inorder: 6 8 5 9 7 4 Postorder: 6 5 8 4 7 9	4	CO4	K3
(b)	Build recursive C function to search the key element in Binary Search Tree	4	CO4	K3

*Dr. Ujwalakumar Mehal*

Name & Signature of  
Course In charge

*Dr. Ujwalakumar Mehal*

Name & Signature of  
Module Coordinator

*D. Venkatesh*

HOD CSE

*S. Kumar G.*

Principal

*Selects P.*



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D.  
REGISTRAR

Phone: (0831) 2498100  
Fax : (0831) 2405467

REF: VTU/BGM/ACA/2022-23/ 6566

DATE: 3 FEB 2023

### NOTIFICATION

**Subject:** Tentative Academic Calendar of VIII semesters of B.E./ B.Tech.,  
B.Arch., B. Plan programs of University regarding...

**Reference:** Hon'ble Vice-Chancellor's approval dated: 03.02.2023

The tentative academic calendar concerned to VIII semesters of B.E./B.Tech.,  
B. Arch., and B. Plan programs of University for academic year 2022-23 are hereby  
notified as mentioned below;

(Tentative) Academic Calendar for semesters of all VIII Semester UG Programs (Feb 2023)			
	B.E./B.Tech.	B.Arch	B.Plan
Commencement of 8 <sup>th</sup> semester Classes	13.02.2023	13.02.2023	13.02.2023
Last Working day of 8 <sup>th</sup> Semester	13.05.2023	13.05.2023	13.05.2023
Practical Examination/Viva Examination	05.06.2023 To 13.06.2023	16.05.2023 To 26.05.2023	----
Theory Examinations	16.05.2023 To 01.06.2023	29.05.2023 To 10.06.2023	16.05.2023 To 01.06.2023
Commencement of next Semester	---	-----	-----

#### Please Note:

- The academic sessions for VIII semester should commence on the **date mentioned** above.
- The Institute needs to function for **six days** a week with Saturday being half working day. #if required, the college can also plan to have extra classes on Saturday afternoons and Sundays full day to complete academic activities within the duration mentioned. This will facilitate the final year students for appearing competitive examination for their career and also helps in seeking admission abroad.

- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- If any clarification/correction, please email to - **sbhvtuso@yahoo.com**

The Principals/ Directors of Schools of Architecture, under the ambit of University are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The Principals / Directors, Schools of Architecture under the ambit of VTU Belagavi.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. **The Director of Physical Education, VTU Belagavi for information**
6. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

  
REGISTRAR 3.2.23  






# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

(ವಿಶ್ವವಿದ್ಯಾಲಯ ಅಧಿನಿಯಮ ೧೯೯೪ ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರ ರಚಿಸಿದ ಸ್ವಾವಲಂಬಿ ವಿಶ್ವವಿದ್ಯಾಲಯ)

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D.  
REGISTRAR

Phone: (0831) 2498100  
Fax : (0831) 2405467

REF: VTU/BGM/ACA/2022-23/ 204

DATE: 7 APR 2023

## NOTIFICATION

- Subject:** Tentative Academic Calendar of IV semesters  
MBA/M.Arch/M.Plan/M.Tech./B.Plan/B.Arch programs and III  
sem of MBA(IEV) programs of University regarding...
- Reference:** Dean Faculty of Engineering, VTU Belagavi approval dated  
06.04.2023  
Hon'ble Vice-Chancellor's approval dated: 07.04.2023

The tentative academic calendar concerned to IV semesters of  
B.Arch./B.Plan/ MCA/MBA/M.Tech./M.Arch./M.Plan and III semester of MBA(IEV) programs of  
University for academic year 2022-23 are hereby notified as mentioned in the attached file

### Please Note:

- The academic sessions for the entire program mentioned should commence on the date mentioned
- The Institute needs to function for six days a week with Saturday being half working day. #if required, the college can also plan to have extra classes on Saturday afternoons and Sundays full day to complete academic activities within the duration mentioned.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University Examinations will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar may be modified based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for Autonomous Colleges. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- If any clarification/correction, please email to - sbhalbhavi@vtu.ac.in

The Principals of all Engineering Colleges and Directors of Schools of Architecture, under the  
ambit of University are hereby informed to bring the academic calendar to the notice of all  
concerned.

Encl: As mentioned above

Sd/-

REGISTRAR

### To,

1. The Principals all Engineering Colleges and Directors, Schools of Architecture under the  
ambit of VTU Belagavi.

### Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. PS to the Registrar (Evaluation), VTU Belagavi for information.
3. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload  
Academic Calendar on the VTU web portal.
4. Special Officer QPDS Examination section VTU Belagavi
5. Caseworker P. Manjunath Examination section VTU Belagavi
6. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
7. The Director of Physical Education, VTU Belagavi for information
8. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

Rav 07/04/23 BE  
REGISTRAR  
7

**(Tentative) Academic Calendar of UG-PG programs for the academic year 2022-23**

	IV Semester B.Arch.	IV semester B. Plan	III semester MBA(IEV)	IV semester MCA	IV semester M.Tech.	IV Semester MBA	IV Semester M. Arch.	IV Semester M.Plan.
Commencement of Semester	17.04.2023	17.04.2023	17.04.2023	17.04.2023	17.04.2023	17.04.2023	17.04.2023	17.04.2023
Internship /Project Survey	-----	-----	17.04.2023 To 27.05.2023	-----	-----	17.04.2023 To 27.05.2023	-----	-----
Commencement of Classes	17.04.2023	17.04.2023	29.05.2023	17.04.2023	17.04.2023	29.05.2023	17.04.2023	17.04.2023
Last Working day of Semester	31.07.2023	31.07.2023	09.09.2023	31.07.2023	31.07.2023	09.09.2023	31.07.2023	31.07.2023
Practical Examination	01.08.2023 To 05.08.2023	01.08.2023 To 05.08.2023	11.09.2023 To 15.09.2023	01.08.2023 To 05.08.2023	-----	-----	-----	-----
Theory Examinations	07.08.2023 To 30.08.2023	07.08.2023 To 30.08.2023	19.09.2023 To 06.10.2023	07.08.2023 To 30.08.2023	02.08.2023 To 22.08.2023 (Old scheme)	11.09.2023 To 07.10.2023	-----	-----
Report Submission	-----	-----	-----	15.07.2023 To 31.07.2023	01.08.2023 To 15.08.2023	28.08.2023 To 10.09.2023	01.08.2023 To 10.08.2023	01.08.2023 To 10.08.2023
Commencement of next Semester	04.09.2023	04.09.2023	09.10.2023	-----	-----	-----	-----	-----

7.

*Handwritten signature*



# ವಿಶ್ವೇಶ್ವರಯ್ಯತಾಂತ್ರಿಕವಿಶ್ವವಿದ್ಯಾಲಯ

ವಿಜಯನಗರನಿರ್ಮಿತ ೧೯೯೪ ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

State University of Government of Karnataka Established as per the VTU Act, 1994 "JnanaSangama" Belagavi-590018, Karnataka, India

Prof. B. E. Rangaswamy, Ph.D  
REGISTRAR

Phone: (0831) 2498100  
Fax: (0831) 2405467

REF: VTU/BGM/GC/2023/ 680

DATE: 8 MAY 2023

### NOTIFICATION

**Subject:** Tentative Academic Calendar of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of University regarding...

**Reference:** Hon'ble Vice-Chancellor's approval dated: 08.05.2023

Tentative Academic Calendar of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

(Tentative) Academic Calendar for semesters of II semester B.E./B.Tech./B.Arch./B.Plan and IV semester B.E./B.Tech., Programs (May 2023)			
	II semester B.E./B.Tech.	II semester B.Arch, B.Plan	IV semester B.E./ B.Tech
Commencement of even semester	17.05.2023	17.05.2023	17.05.2023
Internship	-----	-----	17.05.2023 To 03.06.2023
Commencement of the Classes	17.05.2023	17.05.2023	05.06.2023
Last Working day of the Semester	31.08.2023	31.08.2023	16.09.2023
Practical Examination/Viva Examination	01.09.2023 To 10.09.2023	01.09.2023 To 08.09.2023	19.09.2023 To 30.09.2023
Theory Examinations	11.09.2023 To 07.10.2023	11.09.2023 To 27.09.2023	03.10.2023 To 20.10.2023
Commencement of next Semester	09.10.2023	09.10.2023	25.10.2023

Please Note:

- The academic sessions for EVEN semesters should commence on the **date mentioned** above.

- If necessary, the college may hold extra classes on Saturdays and Sundays to complete academic activities within the specified timeframe.
- The faculty/staff shall be available to undertake any work assigned by the university.
- University Examination Calendars will be published by the Registrar (Evaluation) from time to time.
- The Academic Calendar may be modified as MHRD/UGC/AICTE/state governments issue guidelines/directives in the future.
- Academic calendars are also applicable to autonomous colleges. If any changes are to be made by Autonomous colleges in the academic terms and examination schedule, they could do so with the approval of the university
- If any clarification/correction/suggestions, please email [-sbhalbhavi@vtu.ac.in](mailto:sbhalbhavi@vtu.ac.in)
- \*\* Induction Program shall be conducted for 10 days for 2nd semester students. Activities related to Induction program's shall be conducted on every Saturday (if required on Sunday) totaling to 10 days. Upon completion of the Induction program, colleges must email a brief report to [sbhalbhavi@vtu.ac.in](mailto:sbhalbhavi@vtu.ac.in)

1. The principals of engineering colleges under the ambit of the University, are hereby informed to bring the academic calendar to the notice of all concerned.
2. The Chairpersons of the PG department of the University where UG programs are offered are hereby informed to bring the academic calendar to the notice of the all concerned
3. The Directors of Schools of Architecture and Planning under the ambit of the university are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The principals of all engineering colleges, Directors, Schools of Architecture and Planning, under the ambit of VTU Belagavi. The Chairperson of the PG Department of the university.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. The Director of Central Placement Officer VTU Belagavi for information
7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

*Ras* *BE*

REGISTRAR

*M*



# ವಿಶ್ವೇಶ್ವರಯ್ಯತಾಂತ್ರಿಕವಿಶ್ವವಿದ್ಯಾಲಯ

ವಿಜಯನಗರನಿರ್ಮಿತ ೧೯೯೪ ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯವಿಶ್ವವಿದ್ಯಾಲಯ

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

State University of Government of Karnataka Established as per the VTU Act, 1994 "JnanaSangama" Belagavi-590018, Karnataka, India

Prof. B. E. Rangaswamy, Ph.D  
REGISTRAR

Phone: (0831) 2498100  
Fax: (0831) 2405467

REF: VTU/BGM/GC/2023/712

DATE: 9 MAY 2023

### Revised-NOTIFICATION

**Subject:** Tentative Academic Calendar of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of University regarding...

**Reference:** Hon'ble Vice-Chancellor's approval dated: 09.05.2023

The computer-Aided Engineering Drawing (BCEDK103) examinations of II semester B.E./B.Tech., programs are scheduled between 15.05.2023 to 24.05.2023. A revised Academic Calendar (Tentative) of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

(Tentative) Academic Calendar for semesters of II semester B.E./B.Tech/B.Arch./B.Plan and IV semester B.E./B.Tech., Programs for AY 2022-23 (May 2023)			
	II Semester B.E./B.Tech. (2022 scheme)	II Semester B.Arch, B.Plan (2021 scheme)	IV Semester B.E./ B.Tech (2021 scheme)
Commencement of the semester	25.05.2023	17.05.2023	17.05.2023
Internship #	-----	-----	17.05.2023 To 03.06.2023
Commencement of the Classes	25.05.2023	17.05.2023	05.06.2023
Last Working day of the Semester	09.09.2023	31.08.2023	16.09.2023
Practical Examination/Viva Examination	11.09.2023 To 20.09.2023	01.09.2023 To 08.09.2023	19.09.2023 To 30.09.2023
Theory Examinations	21.09.2023 To 21.10.2023	11.09.2023 To 27.09.2023	03.10.2023 To 20.10.2023
Commencement of next Semester	25.10.2023	09.10.2023	25.10.2023

# for lateral entry students and regular students who have failed or remained absent for Internship-I. Also for students who have taken readmissions to 2021 scheme at 3<sup>rd</sup> and 4<sup>th</sup> semester level from 2018 scheme.

**Please Note:**

- The academic sessions for EVEN semesters should commence on the **date mentioned** above. The **induction program** shall be conducted for 10 days for 2nd-semester students. Scheduling the induction program's activities during the afternoon session in the 1st week is advised, the remaining sessions of induction programs shall be planned on Saturdays. The colleges must email a brief report to **sbhalbhavi@vtu.ac.in** after completing the Induction program
- The college may hold extra classes on Saturdays and Sundays to complete academic activities within the specified timeframe.
- The faculty/staff shall be available to undertake any work assigned by the university.
- University Examination Calendars will be published by the Registrar (Evaluation) from time to time.
- The Academic Calendar may be modified as MHRD/UGC/AICTE/state governments issue guidelines/directives in the future.
- Academic calendars are also applicable to autonomous colleges. If any changes are to be made by Autonomous colleges in the academic terms and examination schedule, they could do so with the approval of the university
- If any clarification/correction/suggestions, please email **sbhalbhavi@vtu.ac.in**

The principals of engineering colleges under the ambit of the University, are hereby informed to bring the academic calendar to the notice of all concerned. The Chairpersons of the PG department of the University where UG programs are offered are hereby informed to bring the academic calendar to the notice of the all concerned

The Directors of Schools of Architecture and Planning under the ambit of the university are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The principal of all engineering colleges, Directors of Schools of Architecture and Planning, under the ambit of VTU Belagavi. The Chairperson of the PG Department of the university.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. The Director of Central Placement Officer VTU Belagavi for information
7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

Ras 09/05/23 B-E  
REGISTRAR  
A.



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

(ವಿ.ಟಿ.ಯು ಅಧಿನಿಯಮ ೧೯೯೪ ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"Jnana Sangama" Belagavi-590018, Karnataka, India

Prof. B. E. Rangaswamy, Ph.D.  
REGISTRAR

Phone: (0831) 2498100  
Fax : (0831) 2405467

REF: VTU/BGM/BOS/2022-23/1129

DATE: 31 JUN 2023

### NOTIFICATION

**Subject:** Tentative Academic Calendar of II semesters of all PG programs of the University regarding...

**Reference:** Dean Sir approval Dated 31.05.2023  
Hon'ble Vice-Chancellor's approval dated: 31.05.2023

The tentative academic calendar concerned to II semesters of all PG programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

-----	II semester MBA	II semester M.Tech.	II semester M.Arch	II Semester M.Plan	II semester MCA	III semester MBA(IEV)
Commencement of the Semester	26.06.2023	26.06.2023	26.06.2023	26.06.2023	26.06.2023	29.05.2023
Last Working day of Semester	30.09.2023	30.09.2023	30.09.2023	30.09.2023	30.09.2023	09.09.2023
Practical / Viva-Examination	-----	03.10.2023 To 07.10.2023	----	03.10.2023 To 07.10.2023	03.10.2023 To 07.10.2023	11.09.2023 To 15.09.2023
Theory Examinations	03.10.2023 To 18.10.2023	09.10.2023 To 26.10.2023	03.10.2023 To 18.10.2023	09.10.2023 To 26.10.2023	09.10.2023 To 26.10.2023	19.09.2023 To 06.10.2023
Project Work /Professional Training/Organization Study	19.10.2023 To 21.11.2023	27.10.2023 To 09.12.2023	19.10.2023 To 30.11.2023	27.10.2023 To 09.12.2023	27.10.2023 To 09.12.2023	
Commencement of Next Semester	01.12.2023	11.12.2023	11.12.2023	11.12.2023	11.12.2023	09.10.2023

*R*

**Please Note:**

- The academic sessions for the II semesters of all PG programs (and III MBA(IEV)) should begin on the above-mentioned date.
- The Institute should operate six days a week, with Saturday being half a working day. # If necessary, the college may schedule additional Sunday and Saturday afternoon classes to complete academic tasks within the specified time frame.
- The Registrar (Evaluation) will issue notifications regarding the Calendar of Events relevant to the conduct of University Examinations from time to time.
- The Academic Calendar may be amended in the future based on guidelines/directives given by the MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for Autonomous Colleges. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they can do so with the approval of the University.
- For any clarification/correction, please email-registrar@vtu.ac.in or sbhalbhavi@vtu.ac.in

The Principals of all Engineering Colleges, the Directors of Schools of Architecture under the ambit of the University, and Chairpersons of the University Departments, are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The Principals of all affiliated, constituent, and Autonomous Engineering Colleges under the ambit of the university.
2. The Directors, Schools of Architecture under the ambit of VTU Belagavi.
3. The Chairpersons of the Departments of PG Studies of VTU Belagavi

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. The Director, Central Placement Cell, VTU Belagavi for information
7. The Special Officer, Library, VTU Belagavi
8. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi.

Rar ——— BE  
01/06/23  
REGISTRAR  
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**K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109**

REVISED - CALENDAR OF EVENTS: VI EVEN SEMESTER (2022-2023)

SESSION: MARCH TO JULY 2023

Week No.	Month	Day						Days	Activities	Department Activities
		Mon	Tue	Wed	Thu	Fri	Sat			
1	MAR	20*	21	22 H	23	24	25	5	20* - Commencement of VI Sem 22 - Ugadi 25 - Monday Time Table	
2	MAR/ APR	27	28	29	30	31	1	6	1 - Monday Time Table	
3	APR	3H	4	5	6	7H	8DH	3	3 - Mahaveera Jayanthi 7 - Good Friday	4 - Guest Lecturer on Yoga and Meditation
4	APR	10	11	12	13	14H	15 TA	5	14 - Dr. B R Ambedkar Jayanthi 15 - Monday Time Table	
5	APR	17T1	18T1	19T1	20	21	22DH	5		
6	APR	24BV	25* FFB1	26 ASD	27	28	29	6	25* - First Faculty Feed Back 29 - Friday Time Table	28 & 29 Sentinel Hack 4.0
7	MAY	1H	2	3	4	5	6	5	1 - May Day 6 - Wednesday Time Table	2 - 13 Placement Training
8	MAY	8	9	10	11	12	13	6	13 - Friday Time Table	8 - CCM1 9 - Performance Report1 to Parents
9	MAY	15	16	17	18	19	20DH	5		15-PTM
10	MAY	22 LT1	23 LT1	24 LT1	25	26	27	6	27-Tuesday Time Table	
11	MAY/ JUN	29	30	31	1	2 TA	3DH	5		
12	JUN	5T2	6T2	7T2	8	9	10	6	6 - Second Faculty Feed Back 10 - Wednesday Time Table	
13	JUN	12 BV	13* FFB2	14 ASD	15	16	17DH	5		
14	JUN	19	20	21	22	23	24	6	24 - Tuesday Time Table	19 - CCM2 20 - Performance Report2 to Parents
15	JUN/ JULY	26	27	28	29H	30 LT2	1DH	4	29 - Bakrid	26 - Mini Project Exhibition
16	JULY	3 LT2	4 LT2	5 LT2	6 T3	7 T3	8 T3	6		
17	JULY	10*						1	10* - Last Working day	

**Total No of Working Days : 85**

Total Number of working days ( Excluding holidays and Tests)=69

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT1	Lab Test 1

Monday	14
Tuesday	14
Wednesday	13
Thursday	14
Friday	14
<b>Total</b>	<b>69</b>

*Murugan*  
 Head of the Department  
 Dept. of Chemistry, Science & Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109

*Principals*

**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109.**



# INSTITUTE OF TECHNOLOGY, BENGALURU-560109

PROTENTATIVE CALENDAR OF EVENTS: VIII EVEN SEMESTER (2022-2023)

SESSION: FEB 2023 – MAY 2023

Week No.	Month	Day						Days	Activities	Department Activities
		Mon	Tue	Wed	Thu	Fri	Sat			
1	FEB	13	14	15	16	17	18 DH	5	18- Maha Shivaratri	
2	FEB	20	21	22	23	24	25	6	25- Wednesday Time Table	
3	FEB/ MAR	27	28	1	2 BV	3 ASD	4 DH	5		27-1 Project 2nd Phase First Review
4	MAR	6	7	8	9	10	11TA	6	11 - Tuesday Time Table	
5	MAR	13T1	14T1	15	16	17	18 DH	5		17- Paypal Student Enablement Program
6	MAR	20BV	21* FFB1	22 H	23ASD	24	25	5	21* - First Faculty Feed Back 22- Ugadi 25-Monday Time Table	20 - CCM1 21 -Performance Report1 to Parents
7	MAR/ APR	27	28	29	30	31	1	6	1-Monday Time Table	28 & 29 Sentinel Hack 4.0
8	APR	3H	4	5	6	7H	8DH	3	3-Mahaveera Jayanthi 7-Good Friday 8-Friday Time Table	4 - PTM 5 - Seminar Review
9	APR	10	11	12	13TA	14H	15	5	14-Dr. B.K Ambedkar Jayanthi 15-Monday Time Table	10 - 13 Project Phase-II Review
10	APR	17T2	18T2	19	20	21	22DH	5		20 & 21 Project Exhibition and Paper Presentation
11	APR	24BV	25* FFB2	26ASD	27	28	29	6	25* - Second Faculty Feed Back 29-Friday Time Table	24 - CCM2 25 - Performance Report2 to Parents
12	MAY	1H	2	3	4	5	6DH	4	1-May Day	2- Seminar on Awareness about overseas
13	MAY	8	9	10	11T3	12T3	13*	6	13-Friday Time Table 13* - Last Working day	10- Farewell

**Total No of Working Days : 67**

Total Number of working days ( Excluding holidays and Tests)=61

<b>H</b>	Holiday
<b>BV</b>	Blue Book Verification
<b>T1,T2,T3</b>	Tests 1,2,3
<b>ASD</b>	Attendance & Sessional Display
<b>DH</b>	Declared Holiday
<b>LT1</b>	Lab Test 1
<b>TA</b>	Test attendance

Monday	12
Tuesday	12
Wednesday	13
Thursday	12
Friday	12
<b>Total</b>	<b>61</b>

*D. Nagaraj*  
Head of the Department  
Dept. of Computer Science & Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109

*Dr. Anas*  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

(ವಿ. ತ. ಯು. ಅಧಿನಿಯಮ ೧೯೯೪ ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"Jnana Sangama" Belagavi-590018, Karnataka, India

Prof. B. E. Rangaswamy, Ph.D.  
REGISTRAR

Phone: (0831) 2498100  
Fax : (0831) 2405467

REF: VTU/BGM/BOS/2022-23/1129

DATE: 31 JUN 2023

### NOTIFICATION

**Subject:** Tentative Academic Calendar of II semesters of all PG programs of the University regarding...

**Reference:** Dean Sir approval Dated 31.05.2023  
Hon'ble Vice-Chancellor's approval dated: 31.05.2023

The tentative academic calendar concerned to **II semesters of all PG programs** of the University for the academic year 2022-23 are hereby notified as mentioned below;

-----	II semester MBA	II semester M.Tech.	II semester M.Arch	II Semester M.Plan	II semester MCA	III semester MBA(IEV)
Commencement of the Semester	26.06.2023	26.06.2023	26.06.2023	26.06.2023	26.06.2023	29.05.2023
Last Working day of ODD Semester	30.09.2023	30.09.2023	30.09.2023	30.09.2023	30.09.2023	09.09.2023
Practical / Viva-Examination	-----	03.10.2023 To 07.10.2023	----	03.10.2023 To 07.10.2023	03.10.2023 To 07.10.2023	11.09.2023 To 15.09.2023
Theory Examinations	03.10.2023 To 18.10.2023	09.10.2023 To 26.10.2023	03.10.2023 To 18.10.2023	09.10.2023 To 26.10.2023	09.10.2023 To 26.10.2023	19.09.2023 To 06.10.2023
Project Work /Professional Training/Organization Study	19.10.2023 To 21.11.2023	27.10.2023 To 09.12.2023	19.10.2023 To 30.11.2023	27.10.2023 To 09.12.2023	27.10.2023 To 09.12.2023	
Commencement of EVEN Semester	01.12.2023	11.12.2023	11.12.2023	11.12.2023	11.12.2023	09.10.2023

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**Please Note:**

- The academic sessions for the II semesters of all PG programs (and III MBA(IEV)) should begin on the above-mentioned date.
- The Institute should operate six days a week, with Saturday being half a working day.  
# If necessary, the college may schedule additional Sunday and Saturday afternoon classes to complete academic tasks within the specified time frame.
- The Registrar (Evaluation) will issue notifications regarding the Calendar of Events relevant to the conduct of University Examinations from time to time.
- The Academic Calendar may be amended in the future based on guidelines/directives given by the MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for Autonomous Colleges. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they can do so with the approval of the University.
- For any clarification/correction, please email-registrar@vtu.ac.in or sbhalbhavi@vtu.ac.in

The Principals of all Engineering Colleges, the Directors of Schools of Architecture under the ambit of the University, and Chairpersons of the University Departments, are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The Principals of all affiliated, constituent, and Autonomous Engineering Colleges under the ambit of the university.
2. The Directors, Schools of Architecture under the ambit of VTU Belagavi.
3. The Chairpersons of the Departments of PG Studies of VTU Belagavi

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. The Director, Central Placement Cell, VTU Belagavi for information
7. The Special Officer, Library, VTU Belagavi
8. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi.

Rav BE  
01/06/23  
REGISTRAR  
7.



# K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: IV EVEN SEMESTER (2022-2023)

SESSION: MAY TO SEP 2023

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	MAY			17*	18	19	20DH	3	17* - Commencement of IV Sem
2	MAY	22	23	24	25	26	27	6	27-Tuesday Time Table
3	MAY/JUN	29	30	31	1	2	3DH	5	
4	JUN	5	6	7	8	9	10	6	10-Wednesday Time Table
5	JUN	12	13	14	15	16 TA	17DH	5	
6	JUN	19 T1	20 T1	21 T1	22	23	24	6	24-Tuesday Time Table
7	JUN/JULY	26	27	28 BV	29H	30 * FFB1	1DH	4	29 - Bakrid 30 - First Faculty Feed Back
8	JULY	3 LT1	4 LT1	5 LT1	6 ASD	7	8	6	8-Wednesday Time Table
9	JULY	10	11	12	13	14	15DH	5	
10	JULY	17	18	19	20	21	22	6	22- Tuesday Time Table
11	JULY	24	25	26	27	28 TA	29H	5	29- Moharam
12	JULY/AUG	31 T2	1 T2	2 T2	3	4	5	6	5- Monday Time Table
13	AUG	7	8	9 BV	10	11 ASD	12 DH	5	
14	AUG	14	15 H	16	17 * FFB2	18	19	5	15 - Independence Day 17 - Second Faculty Feed Back 19- Monday Time Table
15	AUG	21	22	23	24	25	26 DH	5	
16	AUG/SEP	28	29	30	31	1	2	6	2- Wednesday
17	SEP	4	5	6 T3	7 T3	8 T3	9 DH	5	
18	SEP	11LT2	12LT2	13LT2	14	15	16*	6	16- Thursday Time Table 16* - Last Working day

**Total No of Working Days : 95**

Total Number of working days ( Excluding holidays and Tests)=80

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT1, 2	Lab Test 1,2
TA	Test attendance

Monday	15
Tuesday	15
Wednesday	16
Thursday	17
Friday	17
<b>Total</b>	<b>80</b>

PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.



# K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: IV EVEN SEMESTER (2022-2023)

SESSION: MAY TO AUG 2023

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	MAY	15*	16	17	18	19	20DH	5	15* - Commencement of IV Sem
2	MAY	22	23	24	25	26	27	6	27-Tuesday Time Table
3	MAY/JUN	29	30	31	1	2	3DH	5	
4	JUN	5 BV	6	7	8	9	10 TA	6	10-Wednesday Time Table
5	JUN	12 T1	13 T1	14 T1	15	16	17DH	5	
6	JUN	19	20 BV	21 ASD	22	23* FFB1	24	6	23 - First Faculty Feed Back 24-Tuesday Time Table
7	JUN/JULY	26	27	28	29H	30	1DH	4	29 - Bakrid
8	JULY	3 LT1	4 LT1	5 LT1	6	7	8	6	8-Wednesday Time Table
9	JULY	10	11	12	13	14 TA	15DH	5	
10	JULY	17 T2	18 T2	19 T2	20	21	22	6	22- Tuesday Time Table
11	JULY	24BV	25	26ASD	27* FFB2	28	29DH	5	27 - Second Faculty Feed Back
12	JULY/AUG	31	1	2	3	4	5DH	5	
13	AUG	7	8	9	10	11	12	6	12- Monday Time Table
14	AUG	14	15 H	16 T3	17 T3	18 T3	19DH	4	15 - Independence Day
15	AUG	21LT2	22LT2	23LT2	24BV	25ASD	26*	6	26- Monday Time Table 26* - Last Working day

**Total No of Working Days : 80**

Total Number of working days ( Excluding holidays and Tests)=65

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT1, 2	Lab Test 1,2
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	12
Thursday	13
Friday	14
<b>Total</b>	<b>65</b>

PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.




**K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109**  
**REVISED TENTATIVE CALENDAR OF EVENTS: VI EVEN SEMESTER (2022-2023)**  
**SESSION: MARCH TO JULY 2023**

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	MAR	20*	21	22 H	23	24	25	5	20* - Commencement of VI Sem 22- Ugadi 25-Monday Time Table
2	MAR/APR	27	28	29	30	31	1	6	1-Monday Time Table
3	APR	3H	4	5	6	7H	8DH	3	3-Mahaveera Jayanthi 7-Good Friday
4	APR	10	11	12	13	14H	15 TA	5	14-Dr. B R Ambedkar Jayanthi 15-Monday Time Table
5	APR	17T1	18T1	19T1	20	21	22DH	5	
6	APR	24BV	25* FFB1	26 ASD	27	28	29	6	25* - First Faculty Feed Back 29-Friday Time Table
7	MAY	1H	2	3	4	5	6	5	1-May Day 6 - Wednesday Time Table
8	MAY	8	9	10	11	12	13	6	13-Friday Time Table
9	MAY	15	16	17	18	19	20DH	5	
10	MAY	22 LT1	23 LT1	24 LT1	25	26	27	6	27-Tuesday Time Table
11	MAY/JUN	29	30	31	1	2 TA	3DH	5	
12	JUN	5T2	6T2	7T2	8	9	10	6	6 - Second Faculty Feed Back 10-Wednesday Time Table
13	JUN	12 BV	13* FFB2	14 ASD	15	16	17DH	5	
14	JUN	19	20	21	22	23	24	6	24-Tuesday Time Table
15	JUN/JULY	26	27	28	29H	30 LT2	1DH	4	29 - Bakrid
16	JULY	3 LT2	4 LT2	5 LT2	6 T3	7 T3	8 T3	6	8-Wednesday Time Table
17	JULY	10*						1	10* - Last Working day
<b>Total No of Working Days : 85</b>									

Total Number of working days ( Excluding holidays and Tests)=70

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT1	Lab Test 1
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	13
Thursday	15
Friday	16
<b>Total</b>	<b>70</b>

  
 PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.



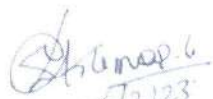
**K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109**  
**TENTATIVE CALENDAR OF EVENTS: VIII EVEN SEMESTER (2022-2023)**  
**SESSION: FEB 2023 - MAY 2023**

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	FEB	13	14	15	16	17	18 DH	5	18- Maha Shivaratri
2	FEB	20	21	22	23	24	25	6	25- Wednesday Time Table
3	FEB/MAR	27	28	1	2 BV	3 ASD	4 DH	5	
4	MAR	6	7	8	9	10	11TA	6	11 - Tuesday Time Table
5	MAR	13T1	14T1	15	16	17	18 DH	5	
6	MAR	20BV	21* FFB1	22 H	23ASD	24	25	5	21* - First Faculty Feed Back 22- Ugadi 25-Monday Time Table
7	MAR/APR	27	28	29	30	31	1	6	1-Monday Time Table
8	APR	3H	4	5	6	7H	8DH	3	3-Mahaveera Jayanthi 7-Good Friday 8-Friday Time Table
9	APR	10	11	12	13TA	14H	15	5	14-Dr. B R Ambedkar Jayanthi 15-Monday Time Table
10	APR	17T2	18T2	19	20	21	22DH	5	
11	APR	24BV	25* FFB2	26ASD	27	28	29	6	25* - Second Faculty Feed Back 29-Friday Time Table
12	MAY	1H	2	3	4	5	6DH	4	1-May Day
13	MAY	8	9	10	11T3	12T3	13*	6	13-Friday Time Table 13* - Last Working day
<b>Total No of Working Days : 67</b>									

Total Number of working days ( Excluding holidays and Tests)=61

H	Holiday
BV	Blue Book
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT1	Lab Test 1
TA	Test attendance

Monday	12
Tuesday	12
Wednesday	13
Thursday	12
Friday	12
<b>Total</b>	<b>61</b>

  
 6/2/23  
 PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.





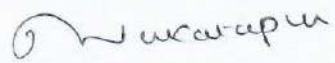
**K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109**  
**REVISED - CALENDAR OF EVENTS: VI EVEN SEMESTER (2022-2023)**  
**SESSION: MARCH TO JULY 2023**

Week No.	Month	Day						Days	Activities	Department Activities
		Mon	Tue	Wed	Thu	Fri	Sat			
1	MAR	20*	21	22 H	23	24	25	5	20* - Commencement of VI Sem 22 - Ugadi 25 - Monday Time Table	
2	MAR/ APR	27	28	29	30	31	1	6	1 - Monday Time Table	
3	APR	3H	4	5	6	7H	8DH	3	3 - Mahaveera Jayanthi 7 - Good Friday	4 - Guest Lecturer on Yoga and Meditation
4	APR	10	11	12	13	14H	15 TA	5	14 - Dr. B R Ambedkar Jayanthi 15 - Monday Time Table	
5	APR	17T1	18T1	19T1	20	21	22DH	5		
6	APR	24BV	25* FFB1	26 ASD	27	28	29	6	25* - First Faculty Feed Back 29 - Friday Time Table	28 & 29 Sentinel Hack 4.0
7	MAY	1H	2	3	4	5	6	5	1 - May Day 6 - Wednesday Time Table	2 - 13 Placement Training
8	MAY	8	9	10	11	12	13	6	13 - Friday Time Table	8 - CCM1 9 -Performance Report1 to Parents
9	MAY	15	16	17	18	19	20DH	5		15-PTM
10	MAY	22 LT1	23 LT1	24 LT1	25	26	27	6	27-Tuesday Time Table	
11	MAY/ JUN	29	30	31	1	2 TA	3DH	5		
12	JUN	5T2	6T2	7T2	8	9	10	6	6 - Second Faculty Feed Back 10 -Wednesday Time Table	
13	JUN	12 BV	13* FFB2	14 ASD	15	16	17DH	5		
14	JUN	19	20	21	22	23	24	6	24 - Tuesday Time Table	19 - CCM2 20 - Performance Report2 to Parents
15	JUN/ JULY	26	27	28	29H	30 LT2	1DH	4	29 - Bakrid	26 - Mini Project Exhibition
16	JULY	3 LT2	4 LT2	5 LT2	6 T3	7 T3	8 T3	6		
17	JULY	10*						1	10* - Last Working day	
<b>Total No of Working Days : 85</b>										

Total Number of working days ( Excluding holidays and Tests)=69

<b>H</b>	Holiday
<b>BV</b>	Blue Book Verification
<b>T1,T2,T3</b>	Tests 1,2,3
<b>ASD</b>	Attendance & Sessional Display
<b>DH</b>	Declared Holiday
<b>LT1</b>	Lab Test 1

Monday	14
Tuesday	14
Wednesday	13
Thursday	14
Friday	14
<b>Total</b>	<b>69</b>

  
 Head of the Department  
 Dept. of Computer Science & Engg  
 K.S. Institute of Technology  
 Bengaluru -560 109



# INSTITUTE OF TECHNOLOGY, BENGALURU-56010

PROGNOSTICATIVE CALENDAR OF EVENTS: VIII EVEN SEMESTER (2022-2023)

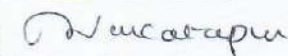
SESSION: FEB 2023 – MAY 2023

Week No.	Month	Day						Days	Activities	Department Activities
		Mon	Tue	Wed	Thu	Fri	Sat			
1	FEB	13	14	15	16	17	18 DH	5	18- Maha Shivaratri	
2	FEB	20	21	22	23	24	25	6	25- Wednesday Time Table	
3	FEB/MAR	27	28	1	2 BV	3 ASD	4 DH	5		27-1 Project 2nd Phase First Review
4	MAR	6	7	8	9	10	11TA	6	11 - Tuesday Time Table	
5	MAR	13T1	14T1	15	16	17	18 DH	5		17- Paypal Student Enablement Program
6	MAR	20BV	21* FFB1	22 H	23ASD	24	25	5	21* - First Faculty Feed Back 22- Ugadi 25-Monday Time Table	20 - CCM1 21 -Performance Report1 to Parents
7	MAR/APR	27	28	29	30	31	1	6	1-Monday Time Table	28 & 29 Sentinel Hack 4.0
8	APR	3H	4	5	6	7H	8DH	3	3-Mahaveera Jayanthi 7-Good Friday 8-Friday Time Table	4 - PTM 5 - Seminar Review
9	APR	10	11	12	13TA	14H	15	5	14-Dt. B K Ambedkar Jayanthi 15-Monday Time Table	10 - 13 Project Phase-II Review
10	APR	17T2	18T2	19	20	21	22DH	5		20 & 21 Project Exhibition and Paper Presentation
11	APR	24BV	25* FFB2	26ASD	27	28	29	6	25* - Second Faculty Feed Back 29-Friday Time Table	24 - CCM2 25 - Performance Report2 to Parents
12	MAY	1H	2	3	4	5	6DH	4	1-May Day	2- Seminar on Awareness about overseas
13	MAY	8	9	10	11T3	12T3	13*	6	13-Friday Time Table 13* - Last Working day	10- Farewell
<b>Total No of Working Days : 67</b>										

Total Number of working days ( Excluding holidays and Tests)=61

<b>H</b>	Holiday
<b>BV</b>	Blue Book Verification
<b>T1,T2,T3</b>	Tests 1,2,3
<b>ASD</b>	Attendance & Sessional Display
<b>DH</b>	Declared Holiday
<b>LT1</b>	Lab Test 1
<b>TA</b>	Test attendance

Monday	12
Tuesday	12
Wednesday	13
Thursday	12
Friday	12
<b>Total</b>	<b>61</b>

  
 Head of the Department  
 Dept. of Computer Science & Engg  
 K.S. Institute of Technology  
 Bengaluru -560 109



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**TIME -TABLE FOR II SEMESTER (2022-2023)**  
**CHEMISTRY CYCLE**

Branch: Computer Science & Engg.

SECTION : A

Class Teacher: Mrs. Radhika N P

Lecture Hall : NB First Floor 101

W.e.f : 25.05.2023

PERIOD	1	2		3	4		5	6	7
TIME/ DAY	8.30 AM - 9.25 AM	9.25 AM - 10.20 AM	10.20 AM - 10.35 AM	10.35 AM - 11.30 AM	11.30 AM - 12.25 PM	12.25 PM - 1.15 PM	1.15 PM - 2.10 PM	2.10 PM - 3.05 PM	3.05 PM - 4.00 PM
MON	A1- MATHS A2- CHE A3- PYTHON PROGRAMMING		<b>BREAK</b>	BEE BESCK204B	MATHS BMATS201	<b>LUNCH - BREAK</b>	CHEM BCHES202	PYTHON BPLCK205B	T
TUE	CHEM BCHES202	BEE BESCK204B		← CAED LAB →			PYTHON BPLCK205B	ENG BPWSK206	LIB
WED	BEE BESCK204B	MATHS BMATS201		A1-CHE ← A2-PYTHON PROGRAMMING → A3- MATHS			CHEM BCHES202	PYTHON BPLCK205B	KAN BKSKK207
THU	PYTHON BPLCK205B	BEE BESCK204B		CAED BCEDK203	CAED BCEDK203		MATHS BMATS201	IDT BIDTK258	T
FRI	CAED BCEDK203	CAED BCEDK203		MATHS BMATS201	CHEM BCHES202		A1-PYTHON PROGRAMMING ← A2-MATHS → A3- CHE		LIB

SUBJECT CODE	SUBJECT NAME	FACULTY NAME
BMATS201	Mathematics-II for CSE Stream	Dr.VENKATARAMANA B S
BCHES202	Chemistry for CSE Stream	Mrs.RADHIKA N P
BCEDK203	Computer-Aided Engineering Drawing	Dr.UMASHANKAR M
BESCK204B	Introduction to Electrical Engineering	Mrs.VISHALINI DIWAKAR
BPLCK205B	Introduction to Python Programming	Mr.ANIL KUMAR A
BPWSK206	Professional Writing Skills in English	Mrs.ANURADHA M V
BKSKK207 / BKBKK207	Sanskritika Kannada / Balake Kannada	Mr.TRIMURTHY
BIDTK258	Innovation and Design Thinking	Mr. SOMASHEKAR

*[Signature]*  
Time Table Co-ordinator

*[Signature]*  
Head of the Department  
Dept. of Science and Humanities  
K.S. Institute of Technology  
Bengaluru - 560 109

*[Signature]*  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

**K.S.I.T**

**K.S.INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**TIME -TABLE FOR II SEMESTER (2022-2023)**  
**CHEMISTRY CYCLE**

Branch: Computer Science & Engg.  
 Class Teacher: Mrs.MAMATHA N  
 Lecture Hall : NB First Floor 102

SECTION : B

W.e.f : 25.05.2023

PERIOD	1	2	10.20 AM - 10.35 AM	3	4	12.25 PM - 1.15 PM	5	6	7
TIME/ DAY	8.30 AM - 9.25 AM	9.25 AM - 10.20 AM		10.35 AM - 11.30 AM	11.30 AM - 12.25 PM		1.15 PM - 2.10 PM	2.10 PM - 3.05 PM	3.05 PM - 4.00 PM
MON	PYTHON BPLCK205B	CHEM BCHES202		B1- MATHS ← B2- CHE → B3- PYTHON PROGRAMMING			MATHS BMATS201	BEE BESCK204B	T
TUE	CAED BCEDK203	CAED BCEDK203		PYTHON BPLCK205B	MATHS BMATS201		CHEM BCHES202	B1-CHE ← B2-PYTHON PROGRAMMING B3- MATHS	
WED	MATHS BMATS201	BEE BESCK204B		KAN BKSJK207	ENG BPWSK206		CHEM BCHES202	PYTHON BPLCK205B	LIB
THU	B1-PYTHON PROGRAMMING ← B2-MATHS → B3- CHE			MATHS BMATS201	BEE BESCK204B		CAED BCEDK203	CAED BCEDK203	T
FRI	CHEM BCHES202	IDT BIDTK258		BEE BESCK204B	PYTHON BPLCK205B		← CAED →		LIB

SUBJECT CODE	SUBJECT NAME	FACULTY NAME
BMATS201	Mathematics-II for CSE Stream	Mrs.MAMATHA N
BCHES202	Chemistry for CSE Stream	Dr.KIRAN KUMAR S R
BCEDK203	Computer-Aided Engineering Drawing	Mr.MANJUNATH B R
BESCK204B	Introduction to Electrical Engineering	Mrs. SHRUTI V JOSHI
BPLCK205B	Introduction to Python Programming	Mr.HARISH U
BPWSK206	Professional Writing Skills in English	Mrs.ANURADHA M V
BKSJK207 / BKBKK207	Sanskrutika Kannada / Balake Kannada	Mr.TRIMURTHY
BIDTK258	Innovation and Design Thinking	Mr. SOMASHEKAR

*[Signature]*  
 Time Table Co-ordinator

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 Dept. of Science and Humanities  
 K.S. Institute of Technology  
 Bengaluru - 560 109

*[Signature]*  
 PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
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**K.S.INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**TIME -TABLE FOR II SEMESTER (2022-2023)**  
**CHEMISTRY CYCLE**

Branch: Computer Science & Engg.

SECTION : C

Class Teacher: Mrs.SHYLAJA K R

Lecture Hall : NB First Floor 104

W.e.f : 25.05.2023

PERIOD	1	2	10.20 AM - 10.35 AM	3	4	12.25 PM - 1.15 PM	5	6	7
TIME/ DAY	8.30 AM - 9.25 AM	9.25 AM - 10.20 AM		10.35 AM - 11.30 AM	11.30 AM - 12.25 PM		1.15 PM - 2.10 PM	2.10 PM - 3.05 PM	3.05 PM - 4.00 PM
MON	CAED BCEDK203	CAED BCEDK203		BEE BESCK204B	MATHS BMATS201		CHEM BCHES202	C1- MATHS C2- CHE C3- PYTHON PROGRAMMING	
TUE	C1-CHE C2-PYTHON PROGRAMMING C3- MATHS			PYTHON BPLCK205B	IDT BIDTK258		BEE BESCK204B	CAED BCEDK203	CAED BCEDK203
WED	CHEM BCHES202	MATHS BMATS201		CAED LAB			KAN BKSCK207	PYTHON BPLCK205B	T
THU	PYTHON BPLCK205B	CHEM BCHES202		C1-PYTHON PROGRAMMING C2-MATHS C3- CHE			MATHS BMATS201	BEE BESCK204B	LIB
FRI	BEE BESCK204B	PYTHON BPLCK205B		MATHS BMATS201	CHEM BCHES202		ENG BPWSK206	LIB	T

SUBJECT CODE	SUBJECT NAME	FACULTY NAME
BMATS201	Mathematics-II for CSE Stream	Dr.JALAJA P
BCHES202	Chemistry for CSE Stream	Mrs.SHYLAJA K R
BCEDK203	Computer-Aided Engineering Drawing	Dr.NAGAPRASAD K S
BESCK204B	Introduction to Electrical Engineering	Mrs. SHRUTI V JOSHI
BPLCK205B	Introduction to Python Programming	Mr.RANGANATH N
BPWSK206	Professional Writing Skills in English	Mrs.ANURADHA M V
BKSCK207 / BKBCK207	Samskrutika Kannada / Balake Kannada	Mr.TRIMURTHY
BIDTK258	Innovation and Design Thinking	Mr. SOMASHEKAR

Time Table Co-ordinator

Head of the Department  
 Dept. of Science and Humanities  
 K.S. Institute of Technology  
 Bengaluru - 560 109

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 BENGALURU - 560 109

**KSIT**

**K.S.INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**TIME -TABLE FOR II SEMESTER (2022-2023)**  
**CHEMISTRY CYCLE**

Branch: Computer Science & Design  
 Class Teacher: Dr.HARISHA S  
 Lecture Hall :NB Second Floor 202

SECTION : D

W.e.f :25.05.2023

PERIOD	1	2	10.20 AM - 10.35 AM	3	4	12.25 PM - 1.15 PM	5	6	7
TIME/ DAY	8.30 AM - 9.25 AM	9.25 AM - 10.20 AM		10.35 AM - 11.30 AM	11.30 AM - 12.25 PM		1.15 PM - 2.10 PM	2.10 PM - 3.05 PM	3.05 PM - 4.00PM
MON	MATHS BMATS201	ENG BPWSK206		BEE BESCK204B	PYTHON BPLCK205B		CAED BCEDK203	CAED BCEDK203	LIB
TUE	BEE BESCK204B	MATHS BMATS201		D1- MATHS ← D2- CHE → D3- PYTHON PROGRAMMING			PYTHON BPLCK205B	CHEM BCHES202	T
WED	CAED BCEDK203	CAED BCEDK203		MATHS BMATS201	KAN BKSJK207		CHEM BCHES202	D1-CHE ← D2-PYTHON PROGRAMMING D3- MATHS →	
THU	PYTHON BPLCK205B	CHEM BCHES202		IDT BIDTK258	BEE BESCK204B		← CAED LAB →		LIB
FRI	D1-PYTHON PROGRAMMING ← D2-MATHS → D3- CHE			CHEM BCHES202	BEE BESCK204B		PYTHON BPLCK205B	MATHS BMATS201	T

SUBJECT CODE	SUBJECT NAME	FACULTY NAME
BMATS201	Mathematics-II for CSE Stream	Mrs.MAMATHA N
BCHES202	Chemistry for CSE Stream	Dr.HARISHA S
BCEDK203	Computer-Aided Engineering Drawing	Dr.UMASHANKAR M
BESCK204B	Introduction to Electrical Engineering	Mrs.RAMYA K R
BPLCK205B	Introduction to Python Programming	Mr.NAGABHUSHANA
BPWSK206	Professional Writing Skills in English	Mrs.ANURADHA M V
BKSJK207 / BKBKK207	Sanskritika Kannada / Balake Kannada	Mr.TRIMURTHY
BIDTK258	Innovation and Design Thinking	Mr.KRISHNAGUDI

*Kumar S*  
 Time Table Co-ordinator

*Kumar S*  
 Head of the Department  
 Dept. of Science and Humanities  
 K.S. Institute of Technology  
 Bengaluru - 560 109

*Kumar S*  
 PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109



# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### IV SEMESTER TENTATIVE TIME TABLE FOR THE YEAR 2022-2023 (EVEN SEMESTER)

W.E.F: 17-05-2023

CLASS TEACHER: Mr. Abhilash L Bhat

SEC: 'A'

CLASS ROOM: OB LH-206

PERIOD	1	2	10:20 AM-10:35 AM	3	4	5	6	7	
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM	10:20 AM-10:35 AM	10:35 AM-11:30 AM	11:30 AM-12.25 PM	12:25 PM-01:15 PM	01:15PM-02:10 PM	02.10 PM - 03.05 PM - 04.00 PM	
MON	MC & ES (21CS43)	KANNADA (21KSK47 / 21KKBK47)	TEA BREAK	MFC (21CS41)	OS (21CS44)	LUNCH BREAK	DAA (21CS42)	OS (21CS44)	BFE (21BE45)
TUE	DAA LAB - A1 BATCH MC & ES LAB - A2 BATCH, PYTHON LAB - A3 BATCH, R PROGRAMMING - A4 BATCH			MFC (21CS41)			UHV (21UH49)		
WED	OS (21CS44)	DAA (21CS42)		MFC (21CS41)	MC & ES (21CS43)		DAA LAB - A2 BATCH MC & ES LAB - A1 BATCH, PYTHON LAB - A4 BATCH, R PROGRAMMING - A3 BATCH		
THUR	BFE (21BE45)	MFC (21CS41)		MC & ES (21CS43)	DAA (21CS42)		DAA LAB - A3 BATCH MC & ES LAB - A4 BATCH, PYTHON LAB - A2 BATCH, R PROGRAMMING - A1 BATCH		
FRI	DAA LAB - A4 BATCH MC & ES LAB - A3 BATCH, PYTHON LAB - A1 BATCH, R PROGRAMMING - A2 BATCH				DAA (21CS42)		OS (21CS44)	MC & ES (21CS43)	Tutorial

Subject Code	Subject Name	Faculty Name
21CS41	MATHEMATICAL FOUNDATIONS FOR COMPUTING	Mr. Naveen V
21CS42	DESIGN AND ANALYSIS OF ALGORITHMS	Mr. Kushal Kumar B N
21CS43	MICROCONTROLLER AND EMBEDDED SYSTEMS	Mr. Sanjoy Das
21CS44	OPERATING SYSTEMS	Mr. Prashanth H S
21BE45	BIOLOGY FOR ENGINEERS	New staff
21CSL46	PYTHON PROGRAMMING LABORATORY	Mr. Laxmikantha K, Mr. Manoj Kumar S (A1), Mrs. Pallavi K N (A2), Mr. Prashanth H S (A3 & A4)
21KSK47 / 21KKBK47	SAMSKRUTIKA KANNADA / BALAKE KANNADA	Mr. Thrimurthy
21CSL483	R PROGRAMMING	Mr. Kushal Kumar B N & Ms. Namyapriya D
21UH49	UNIVERSAL HUMAN VALUES	Mr. Abhilash L Bhat
21CS42	DESIGN AND ANALYSIS OF ALGORITHMS	Dr. Vijayalaxmi Mekali & Mrs. Rashmi H
21CS43	MICROCONTROLLER AND EMBEDDED SYSTEMS	Mr. Sanjoy Das & Mrs. Supreetha Ganesh
21INT49	INTERNSHIP	Mr. Somasekar T & Mr. Raghavendrchar S

  
TIME TABLE INCHARGE

  
HOD

Head of the Department  
Dept. of Computer Science & Engg  
K.S. Institute of Technology  
Bengaluru -560 109

  
PRINCIPAL



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**IV SEMESTER TENTATIVE TIME TABLE FOR THE YEAR 2022-2023 (EVEN SEMESTER)**

W.E.F: 17-05-2023

CLASS TEACHER: Ms. Namyapriya D

SEC: 'B'

CLASS ROOM: OB LH-207

PERIOD	1	2	10:20 AM-10:35 AM	3	4	12:25 PM-01:15 PM	5	6	7
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM		01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM
MON	DAA (21CS42)	MFC (21CS41)	<b>TEA BREAK</b>	KANNADA (21KSK47/21KBK47)	MC & ES (21CS43)	<b>LUNCH BREAK</b>	DAA LAB - B1 BATCH, MC & ES LAB - B2 BATCH, PYTHON LAB - B3 BATCH, R PROGRAMMING - B4 BATCH		
TUE	MC & ES (21CS43)	DAA (21CS42)		MFC (21CS41)	OS (21CS44)		DAA LAB - B2 BATCH, MC & ES LAB - B1 BATCH, PYTHON LAB - B4 BATCH, R PROGRAMMING - B3 BATCH		
WED	DAA LAB - B3 BATCH, MC & ES LAB - B4 BATCH, PYTHON LAB - B2 BATCH, R PROGRAMMING - B1 BATCH				MC & ES (21CS43)		OS (21CS44)	MFC (21CS41)	UHV (21UH49)
THUR	DAA LAB - B4 BATCH, MC & ES LAB - B3 BATCH, PYTHON LAB - B1 BATCH, R PROGRAMMING - B2 BATCH				DAA (21CS42)		MC & ES (21CS43)	BFE (21BE45)	OS (21CS44)
FRI	OS (21CS44)	BFE (21BE45)			INTERNSHIP(21INT49)		MFC (21CS41)	DAA (21CS42)	Tutorial

Subject Code	Subject Name	Faculty Name
21CS41	MATHEMATICAL FOUNDATIONS FOR COMPUTING	Mrs. Sneha G kulakarni
21CS42	DESIGN AND ANALYSIS OF ALGORITHMS	Mrs. Rashmi H
21CS43	MICROCONTROLLER AND EMBEDDED SYSTEMS	Dr. H S Prasantha
21CS44	OPERATING SYSTEMS	Mr. Prashanth H S
21BE45	BIOLOGY FOR ENGINEERS	New Staff
21CSL46	PYTHON PROGRAMMING LABORATORY	Mr. Krishna Gudi & Mr. Somasekhar T
21KSK47 / 21KBK47	SAMSKRUTIKA KANNADA / BALAKE KANNADA	Mr. Thrimurthy
21CSL483	R PROGRAMMING	Dr. Prasantha H S & Ms. Namyapriya D
21UH49	UNIVERSAL HUMAN VALUES	Mrs. Swapna Banasode
21CS42	DESIGN AND ANALYSIS OF ALGORITHMS	Mrs. Rashmi H & Mr. Laxmikantha K
21CS43	MICROCONTROLLER AND EMBEDDED SYSTEMS	Mr. Sanjoy Das & Mrs. Supreetha Ganesh
21INT49	INTERNSHIP	Mr. Somasekhar T & Mr. Roopesh Kumar B N

**TIME TABLE INCHARGE**

**HOD**  
 Head of the Department  
 Dept. of Computer Science & Engg  
 K.S. Institute of Technology  
 Bengaluru -560 109

**PRINCIPAL**





# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

## IV SEMESTER TENTATIVE TIME TABLE FOR THE YEAR 2022-2023 (EVEN SEMESTER)

W.E.F: 17-05-2023

SEC: 'A'

CLASS TEACHER: Mr. Abhilash L Bhat

CLASS ROOM: OB LH-206

PERIOD	1	2		3	4		5	6	7	
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM	10:20 AM-10.35 AM	10:35 AM-11:30 AM	11:30 AM-12.25 PM	12:25 PM-01:15 PM	01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM	
MON	MC & ES (21CS43)	KANNADA (21KSK47 / 21KKBK47)	TEA BREAK	MFC (21CS41)	OS (21CS44)	LUNCH BREAK	DAA (21CS42)	OS (21CS44)	BFE (21BE45)	
TUE	DAA LAB - A1 BATCH MC & ES LAB - A2 BATCH, PYTHON LAB - A3 BATCH, R PROGRAMMING - A4 BATCH			MFC (21CS41)			UHV (21UH49)	← INTERNSHIP(21INT49) →		
WED	BFE (21BE45)	DAA (21CS42)		MFC (21CS41)	MC & ES (21CS43)		DAA LAB - A2 BATCH ← MC & ES LAB - A1 BATCH, PYTHON LAB - A4 BATCH, R PROGRAMMING - A3 BATCH DAA LAB - A3 BATCH			
THUR	OS (21CS44)	MFC (21CS41)		MC & ES (21CS43)	DAA (21CS42)		← MC & ES LAB - A4 BATCH, PYTHON LAB - A2 BATCH, R PROGRAMMING - A1 BATCH			
FRI	DAA LAB - A4 BATCH MC & ES LAB - A3 BATCH, PYTHON LAB - A1 BATCH, R PROGRAMMING - A2 BATCH				DAA (21CS42)		OS (21CS44)	MC & ES (21CS43)	Tutorial	

Subject Code	Subject Name	Faculty Name
21CS41	MATHEMATICAL FOUNDATIONS FOR COMPUTING	Mr. Naveen V
21CS42	DESIGN AND ANALYSIS OF ALGORITHMS	Mr. Kushal Kumar B N
21CS43	MICROCONTROLLER AND EMBEDDED SYSTEMS	Mr. Sanjoy Das
21CS44	OPERATING SYSTEMS	Mr. Prashanth H S
21BE45	BIOLOGY FOR ENGINEERS	Dr. Shobha G
21CSL46	PYTHON PROGRAMMING LABORATORY	Mr. Laxmikantha K, Mr. Manoj Kumar S (A1), Mrs. Pallavi K N (A2), Mr. Prashanth H S (A3 & A4)
21KSK47 / 21KKBK47	SAMSKRUTIKA KANNADA / BALAKE KANNADA	Mr. Thrimurthy
21CSL483	R PROGRAMMING	Mr. Kushal Kumar B N & Ms. Namyapriya D
21UH49	UNIVERSAL HUMAN VALUES	Mr. Abhilash L Bhat
21CS42	DESIGN AND ANALYSIS OF ALGORITHMS LAB	Dr. Vijayalaxmi Mekali & Mrs. Rashmi H
21CS43	MICROCONTROLLER AND EMBEDDED SYSTEMS LAB	Mr. Sanjoy Das & Mrs. Supreetha Ganesh
21INT49	INTERNSHIP	Mr. Somasekhar T & Mr. Raghavendrachar S

*K. B. N*  
TIME TABLE INCHARGE

*[Signature]*  
HOD  
Head of the Department  
Dept. of Computer Science & Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109

*[Signature]*  
PRINCIPAL  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**IV SEMESTER TENTATIVE TIME TABLE FOR THE YEAR 2022-2023 (EVEN SEMESTER)**

W.E.F: 17-05-2023

CLASS TEACHER: Ms. Namyapriya D

SEC: 'B'

CLASS ROOM: OB LH-207

PERIOD	1	2	10:20 AM- 10:35 AM	3	4	12:25 PM- 01:15 PM	5	6	7
TIME DAY	8:30 AM- 9:25AM	9:25 AM-10.20 AM		10:35 AM- 11:30 AM	11:30 AM- 12.25 PM		01:15PM- 02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM
MON	DAA (21CS42)	MFC (21CS41)	<b>TEA BREAK</b>	KANNADA (21KSK47/ 21KBK47)	MC & ES (21CS43)	<b>LUNCH BREAK</b>	DAA LAB - B1 BATCH, MC & ES LAB - B2 BATCH, PYTHON LAB - B3 BATCH, R PROGRAMMING - B4 BATCH		
TUE	MC & ES (21CS43)	OS (21CS44)		MFC (21CS41)	DAA (21CS42)		DAA LAB - B2 BATCH, MC & ES LAB - B1 BATCH, PYTHON LAB - B4 BATCH, R PROGRAMMING - B3 BATCH		
WED	DAA LAB - B3 BATCH, MC & ES LAB - B4 BATCH, PYTHON LAB - B2 BATCH, R PROGRAMMING - B1 BATCH				MC & ES (21CS43)		OS (21CS44)	MFC (21CS41)	UHV (21UH49)
THUR	DAA LAB - B4 BATCH, MC & ES LAB - B3 BATCH, PYTHON LAB - B1 BATCH, R PROGRAMMING - B2 BATCH				DAA (21CS42)		MFC (21CS41)	BFE (21BE45)	OS (21CS44)
FRI	OS (21CS44)	BFE (21BE45)			MC & ES (21CS43)		DAA (21CS42)	INTERNSHIP(21INT49)	

Subject Code	Subject Name	Faculty Name
21CS41	MATHEMATICAL FOUNDATIONS FOR COMPUTING	Mrs. Sneha G kulakarni
21CS42	DESIGN AND ANALYSIS OF ALGORITHMS	Mrs. Rashmi H
21CS43	MICROCONTROLLER AND EMBEDDED SYSTEMS	Dr. H S Prasantha
21CS44	OPERATING SYSTEMS	Mr. Prashanth H S
21BE45	BIOLOGY FOR ENGINEERS	Dr. Shobha G
21CSL46	PYTHON PROGRAMMING LABORATORY	Mr. Krishna Gudi & Mr. Somasekhar T
21KSK47 / 21KBK47	SAMSKRUTIKA KANNADA / BALAKE KANNADA	Mr. Thrimurthy
21CSL483	R PROGRAMMING	Dr. Prasantha H S & Ms. Namyapriya D
21UH49	UNIVERSAL HUMAN VALUES	Mrs. Swapna Banasode
21CS42	DESIGN AND ANALYSIS OF ALGORITHMS LAB	Mrs. Rashmi H & Mr. Laxmikantha K
21CS43	MICROCONTROLLER AND EMBEDDED SYSTEMS LAB	Mr. Sanjoy Das & Mrs. Supreetha Ganesh
21INT49	INTERNSHIP	Mr. Somasekhar T & Mr. Roopesh Kumar B N

**B.N.**  
**TIME TABLE INCHARGE**

**HOD**  
 Head of the Department  
 Dept. of Computer Science & Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109

**PRINCIPAL**  
**PRINCIPAL**  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.



# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### VI SEMESTER TIME TABLE FOR THE YEAR 2022-2023 (EVEN SEMESTER)

W.E.F: 20-03-2023

SEC: 'A'

CLASS TEACHER: Mr. Manoj Kumar S

CLASS ROOM: OB LH-208

PERIOD	1	2	10:20 AM-10.35 AM	3	4		5	6	7
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM	12:25 PM-01:15 PM	01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM
MON	SS LAB (A1) (18CSL66)/ CG LAB WITH MINI PROJECT (A2) (18CSL67)/ MAD LAB (A3) (18CSMP68)		TEA BREAK		SMS/ CC (18CS645/18CS643)	LUNCH BREAK	CG & V (18CS62)	SS & C (18CS61)	SCM (18ME653)
TUE	SCM (18ME653)	WTA (18CS63)		SCM (18ME653)	CG & V (18CS62)		SS LAB (A2) (18CSL66)/ CG LAB WITH MINI PROJECT (A3) (18CSL67)/ MAD LAB (A1) (18CSMP68)		
WED	CG & V (18CS62)	SS & C (18CS61)		WTA (18CS63)	SMS/ CC (18CS645/18CS643)		WTA (18CS63)	SCM (18ME653)	Tutorial
THUR	SMS/ CC (18CS645/18CS643)	SCM (18ME653)		WTA (18CS63)	SS & C (18CS61)		SMS/ CC (18CS645/18CS643)	CG & V (18CS62)	SS & C (18CS61)
FRI	SMS/ CC (18CS645/18CS643)	CG & V (18CS62)		SS & C (18CS61)	WTA (18CS63)		SS LAB (A3) (18CSL66)/ CG LAB WITH MINI PROJECT (A1) (18CSL67)/ MAD LAB (A2) (18CSMP68)		

Subject Code	Subject Name	Faculty Name
18CS61	SYSTEM SOFTWARE AND COMPILERS	Mr. Manoj Kumar S
18CS62	COMPUTER GRAPHICS AND VISUALIZATION	Mrs. Beena K
18CS63	WEB TECHNOLOGY AND ITS APPLICATIONS	Mr. Raghavendrchar S
18CS643	CLOUD COMPUTING & ITS APPLICATIONS	Mrs. Supreetha Ganesh
18CS645	SYSTEM MODELLING AND SIMULATIONS	Dr. Rekha B Venkatapur
18ME653	SUPPLY CHAIN MANAGEMENT	Mr. Manjunath B R
18CSL66	SYSTEM SOFTWARE LABORATORY	Mr. Manoj Kumar S, Mrs. Pallavi R
18CSL67	COMPUTER GRAPHICS LABORATORY WITH MINI PROJECT	Mrs. Beena.K, Mrs. Kavya M S
18CSMP68	MOBILE APPLICATION DEVELOPMENT LAB	Mr. Harshavardhan J R, Mrs. Pallavi K N

*B.N. g.vij*  
TIME TABLE INCHARGE

*Dr. Rekha B Venkatapur*  
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*Dr. Manoj S*  
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# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### VI SEMESTER TIME TABLE FOR THE YEAR 2022-2023 (EVEN SEMESTER)

W.E.F: 20-03-2023

SEC: 'B'

CLASS TEACHER: Mrs. Pallavi K N

CLASS ROOM: OB LH-209

PERIOD	1	2	10:20 AM-10.35 AM	3	4	12:25 PM-01:15 PM	5	6	7	
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM		01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM	
MON	SS & C (18CS61)	SCM (18ME653)	TEA BREAK	SCM (18ME653)	SMS/ CC (18CS645/18CS643)	LUNCH BREAK	SS LAB (B1) (18CSL66)/ CG LAB WITH MINI PROJECT (B2) (18CSL67)/ MAD LAB (B3) (18CSMP68)			
TUE	SS LAB (B2) (18CSL66)/ CG LAB WITH MINI PROJECT (B3) (18CSL67)/ MAD LAB (B1)				SS & C (18CS61)		SCM (18ME653)	CG & V (18CS62)	WTA (18CS63)	
WED	WTA (18CS63)	CG & V (18CS62)			WTA (18CS63)		SMS/ CC (18CS645/18CS643)	SS LAB (B3) (18CSL66)/ CG LAB WITH MINI PROJECT (B1) (18CSL67)/ MAD LAB (B2) (18CSMP68)		
THUR	SMS/ CC (18CS645/18CS643)	SS & C (18CS61)			SS & C (18CS61)		SCM (18ME653)	SMS/ CC (18CS645/18CS643)	WTA (18CS63)	CG & V (18CS62)
FRI	SMS/ CC (18CS645/18CS643)	SS & C (18CS61)			CG & V (18CS62)		WTA (18CS63)	SCM (18ME653)	CG & V (18CS62)	Tutorial

Subject Code	Subject Name	Faculty Name
18CS61	SYSTEM SOFTWARE AND COMPILERS	Mrs. Pallavi R
18CS62	COMPUTER GRAPHICS AND VISUALIZATION	Mrs. Kavya M S
18CS63	WEB TECHNOLOGY AND ITS APPLICATIOIS	Mrs. Pallavi K N
18CS643	CLOUD COMPUTING & ITS APPLICATIONS	Ms. Namyapriya Dayananda
18CS645	SYSTEM MODELLING AND SIMULATIONS	Dr. Rekha B Venkatapur
18ME653	SUPPLY CHAIN MANAGEMENT	Mr. Rajesh G L
18CSL66	SYSTEM SOFTWARE LABORATORY	Mrs. Pallavi R, Mr. Manoj Kumar S
18CSL67	COMPUTER GRAPHICS LABORATORY WITH MINI	Mrs. Kavya M S, Mrs. Beena.K
18CSMP68	MOBILE APPLICATION DEVELOPMENT LAB	Mr. Harshavardhan J R, Mrs. Pallavi K N

TIME TABLE INCHARGE

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Head of the Department  
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# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

VIII SEMESTER TIME TABLE FOR THE YEAR 2022-2023 (EVEN SEMESTER)

W.E.F: 13-02-2023

SEC: 'A'

CLASS TEACHER: Mr. Laxmikantha K

CLASS ROOM: NB 003 SH

PERIOD	1	2	10:20 AM-10.35 AM	3	4	12:25 PM-01:15 PM	5	6	7	
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM		01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM	
MON	SAN (18CS822)	IOT (18CS81)	TEA BREAK	← INTERNSHIP (18CSI85) →		LUNCH BREAK	IOT (18CS81)	SAN (18CS822)	Tutorial	
TUE	IOT (18CS81)	SAN (18CS822)		← INTERNSHIP (18CSI85) →			SAN (18CS822)	IOT (18CS81)	Tutorial	
WED	← IOT LAB →			← →			← TECHNICAL SEMINAR (18CSS84) →		← →	
THUR	← PROJECT WORK PHASE II (G1/ G2) (18CSP83) →			← →			← PROJECT WORK PHASE II (G3/ G4) (18CSP83) →		← →	
FRI	← PROJECT WORK PHASE II (G5/ G6) (18CSP83) →			← →						

Subject Code	Subject Name		Faculty Name
18CS81	INTERNET OF THINGS		Mr. Laxmikantha K
18CS81	IOT LAB		Mr. Laxmikantha K
18CS822	STORAGE AREA NETWORKS		Mr. Harshavardhan J R
18CSS84	TECHNICAL SEMINAR		Dr. Vijayalaxmi Mekali
18CSI85	INTERNSHIP		Mr. Somasekhar T
18CSP83	PROJECT WORK PHASE - II	Venue : ML/ Project Work Lab (G2, G4, G6) Incharge: Mr. Raghavendrachar S	Venue: CN/ Project Work Lab (G1, G3, G5) Incharge : Mr. Roopesh Kumar B N
		GROUP G1 HEAD: Dr. Rekha B Venkatapur (Machine Learning - 1) GROUP G1 BATCHES : (2022_CSE_1_06, 17, 19, 26)	GROUP G4 HEAD: Dr. Vijayalaxmi Mekali ( Image Processing & Computer Vision) GROUP G4 BATCHES : (2022_CSE_20, 15, 24, 04)
		GROUP G2 HEAD: Mr. Raghavendrachar S (Machine Learning -2) GROUP G2 BATCHES : (2022_CSE_03, 08, 22, 23)	GROUP G5 HEAD: Mr. Kushal Kumar B N(Cyber Security & Block Chain) GROUP G5 BATCHES : (2022_CSE_29, 09, 13, 18, 12, 30)
		GROUP G3 HEAD: Dr. H S Prashantha (Image Processing & Computer Vision) GROUP G3 BATCHES : (2022_CSE_07, 14, 16, 27)	GROUP G6 HEAD: Prof. Roopesh Kumar B N ( IOT & App Development) GROUP G6 BATCHES : (2022_CSE_02, 11, 05, 10, 21, 25, 28)

TIME TABLE INCHARGE

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 Dept. of Computer Science & Engg  
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**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**VIII SEMESTER TIME TABLE FOR THE YEAR 2022-2023 (EVEN SEMESTER)**

W.E.F: 13-02-2023  
 SEC: 'B'

CLASS TEACHER: Mr. Krishna Gudi  
 CLASS ROOM: NB103 SH

PERIOD	1	2	10:20 AM-10.35 AM	3	4		5	6	7	
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM	12:25 PM-01:15 PM	01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM	
MON	IOT (18CS81)	SAN (18CS822)	TEA BREAK	← INTERNSHIP (18CSI85) →		LUNCH BREAK	SAN (18CS822)	IOT (18CS81)	Tutorial	
TUE	SAN (18CS822)	IOT (18CS81)		← INTERNSHIP (18CSI85) →			IOT (18CS81)	SAN (18CS822)	Tutorial	
WED	← TECHNICAL SEMINAR (18CSS84) →				Tutorial		← IOT LAB →			
THUR	← PROJECT WORK PHASE II (G1/G2) (18CSP83) →						← PROJECT WORK PHASE II (G3/ G4) (18CSP83) →			
FRI	← PROJECT WORK PHASE II (G5/ G6) (18CSP83) →									

Subject Code	Subject Name	Faculty Name
18CS81	INTERNET OF THINGS	Mr. Krishna Gudi
18CS81	IOT LAB	Mr. Krishna Gudi
18CS822	STORAGE AREA NETWORKS	Mr. Roopesh Kumar B N
18CSS84	TECHNICAL SEMINAR	Mr. Krishna Gudi
18CSI85	INTERNSHIP	Mrs. Beena K
18CSP83	PROJECT WORK PHASE - II	Venue : ML/ Project Work Lab (G2, G4, G6) Incharge: Mr. Raghavendracher S
		GROUP G1 HEAD: Dr. Rekha B Venkatapur (Machine Learning - 1) GROUP G1 BATCHES : (2022_CSE_1, 06, 17, 19, 26)
		GROUP G2 HEAD: Mr. Raghavendracher S (Machine Learning -2) GROUP G2 BATCHES : (2022_CSE_03, 08, 22, 23)
		GROUP G3 HEAD: Dr. H S Prashantha (Image Processing & Computer Vision) GROUP G3 BATCHES : (2022_CSE_07, 14, 16, 27)
		Venue: CN/ Project Work Lab (G1, G3, G5) Incharge: Mr. Roopesh Kumar B N
		GROUP G4 HEAD: Dr. Vijayalaxmi Mekali ( Image Processing & Computer Vision) GROUP G4 BATCHES : (2022_CSE_20, 15, 24, 04)
		GROUP G5 HEAD: Mr. Kushal Kumar B N(Cyber Security & Block Chain) GROUP G5 BATCHES : (2022_CSE_29, 09, 13, 18, 12, 30)
		GROUP G6 HEAD: Prof. Roopesh Kumar B N ( IOT & App Development) GROUP G6 BATCHES : (2022_CSE_02, 11, 05, 10, 21, 25, 28)

*[Signature]*  
 TIME TABLE INCHARGE

*[Signature]*  
 HOD  
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 Dept. of Computer Science & Engg  
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 PRINCIPAL  
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# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

M.TECH TIME TABLE FOR THE YEAR 2022-2023 (EVEN SEMESTER)

W.E.F: 26-06-2023

CLASS TEACHER: Dr. H S Prasantha

SEM: II

PERIOD	1	2	10:20 AM-10:35 AM	3	4	12:25 PM-01:15 PM	5	6	7	
TIME DAY	8:30 AM-9:25AM	9:25 AM-10.20 AM		10:35 AM-11:30 AM	11:30 AM-12.25 PM		01:15PM-02:10 PM	02.10 PM - 03.05 PM	03.05 PM - 04.00 PM	
MON	AI&ML (22SCS22)	BDA (22SCS21)	TEA BREAK	CS&CL (22SCS234)	AT (22SCS244)	LUNCH BREAK	AT - SDA (22SCS244)	Tutorial		
TUE	AI&ML (22SCS22)	CS&CL (22SCS234)		BDA (22SCS21)	BDA - SDA (22SCS21)		BDA LAB (22SCSL26)			
WED	AI & ML LAB (22SCS22)			BDA - SDA (22SCS21)	AI&ML (22SCS22)		MINI PROJECT WITH SEMINAR (22SCS25) - SDA			
THUR	AT (22SCS244)	CS&CL - SDA (22SCS234)		AT - SDA (22SCS244)	CS&CL - SDA (22SCS234)					
FRI	MINI PROJECT WITH SEMINAR (22SCS25)									

Subject Code	Subject Name	Faculty Name
22SCS21	BIG DATA ANALYTICS	Mrs. Ramanjinamma J
22SCS22	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Miss. Namyapriya D
22SCS234	CYBER SECURITY AND CYBER LAW	Mrs. Pallavi K N
22SCS244	AGILE TECHNOLOGIES	Mrs. Swapna S Banasode
22SCS25	MINI PROJECT WITH SEMINAR	Dr. Rekha B Venkatapur
22SCSL26	BIG DATA ANALYTICS LABORATORY	Mrs. Ramanjinamma J
22AUD27	ONLINE COURSES	Dr. H S Prasantha

*[Signature]*  
TIME TABLE INCHARGE

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BENGALURU - 560 109.

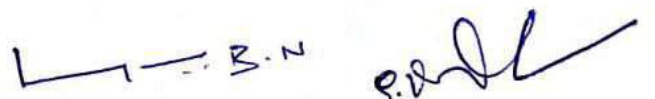


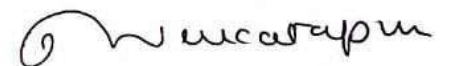
**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**III SEM DIP I SESSIONAL TIME TABLE (2022-2023)**

**DATE: 28-02-2023**

DATE	TIME	IV SEM (2018 SCHEME)
02-03-2023 THURSDAY	09.30 AM TO 10.30 AM	DATA STRUCTURES AND APPLICATIONS (21CS32)
	01.30 PM TO 02.30 PM	ANALOG AND DIGITAL ELECTRONICS (21CS33)
03-03-2023 FRIDAY	09.30 AM TO 10.30 AM	COMPUTER ORGANIZATION AND ARCHITECTURE (21CS34)
	11.30 AM TO 12.30 PM	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS (21CIP37)

NOTE: All the students are strictly informed to wear lab uniforms, Mask and college ID Cards compulsorily during the test.

  
**SESSIONAL COORDINATORS**

  
**HOD**  
Head of the Department  
Dept. of Computer Science & Engg  
K.S. Institute of Technology  
Bengaluru -560 109





# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

IV SEM

## THIRD SESSIONAL TEST TIME TABLE (2022-2023) (EVEN SEMESTER 2023)

Date : 28/08/2023

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
6/09/2023 Wednesday	9:30 AM To 10:30 AM	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21EC41</b> Maths for Communication Engineers	<b>21ME41</b> Complex Analysis, Probability and Linear Programming.
	2:00 PM To 3:00 PM	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21EC42-</b> Digital Signal Processing	<b>21ME42</b> Machining Science and Jigs & Fixtures
7/09/2023 Thursday	9:30 AM To 10:30 AM	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21EC43</b> Circuits & Controls	<b>21ME43</b> Fluid Mechanics
	1:30 PM To 2:30 PM	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers
8/09/2023 Friday	9:30 AM To 10:30 AM	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21EC44</b> Communication Theory	<b>21ME44</b> Mechanics of Materials
	1:30 PM To 2:30 PM	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK37/47</b> Samskrutika Kannada / <b>21KKBK47</b> Balake Kannada	<b>21KSK47</b> Samskrutika Kannada / <b>21KKBK47</b> Balake Kannada	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK47</b> Samskrutika Kannada / <b>21KKBK47</b> Balake Kannada
	3.00 PM To 4:00 PM	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.

*[Signature]*  
28/8/23  
Academic Coordinator  
Head of the Department  
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*[Signature]*  
Principal  
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# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

IV SEM

## SECOND SESSIONAL TEST TIME TABLE (2022-2023) (EVEN SEMESTER 2023)

Date : 22/07/2023

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
31/07/2023 Monday	9:30 AM To 10:30 AM	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21EC41</b> Maths for Communication Engineers	<b>21ME41</b> Complex Analysis, Probability and Linear Programming.
	2:00 PM To 3:00 PM	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21EC42-</b> Digital Signal Processing	<b>21ME42</b> Machining Science and Jigs & Fixtures
1/08/2023 Tuesday	9:30 AM To 10:30 AM	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21EC43</b> Circuits & Controls	<b>21ME43</b> Fluid Mechanics
	1:30 PM To 2:30 PM	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers
2/08/2023 Wednesday	9:30 AM To 10:30 AM	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21EC44</b> Communication Theory	<b>21ME44</b> Mechanics of Materials
	1:30 PM To 2:30 PM	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK37/47</b> Samskrutika Kannada / <b>21KKBK47</b> Balake Kannada	<b>21KSK47</b> Samskrutika Kannada / <b>21KKBK47</b> Balake Kannada	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK47</b> Samskrutika Kannada / <b>21KKBK47</b> Balake Kannada
	3:00 PM To 4:00 PM	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values

**Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.**

*J. Hanumanth*  
**Academic Coordinator**  
Head of the Department  
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*K. Hanumanth*  
**Principal**  
PRINCIPAL  
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# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

IV SEM

FIRST SESSIONAL TEST TIME TABLE (2022-2023)  
(EVEN SEMESTER 2023)

Date : 15/06/2023

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
26/06/2023 Monday	9:30 AM To 10:30 AM	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21EC41</b> Maths for Communication Engineers	<b>21ME41</b> Complex Analysis, Probability and Linear Programming.
	2:00 PM To 3:00 PM	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21EC42-</b> Digital Signal Processing	<b>21ME42</b> Machining Science and Jigs & Fixtures
27/06/2023 Tuesday	9:30 AM To 10:30 AM	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21EC43</b> Circuits & Controls	<b>21ME43</b> Fluid Mechanics
	1:30 PM To 2:30 PM	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers
28/06/2023 Wednesday	9:30 AM To 10:30 AM	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21EC44</b> Communication Theory	<b>21ME44</b> Mechanics of Materials
	1:30 PM To 2:30 PM	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK37/47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada	<b>21KSK47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada
	3:00 PM To 4:00 PM	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.

*J. Shankar*  
15/6/23  
Academic Coordinator  
Head of the Department  
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*S. Kumar*  
15/6/23  
Principal  
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BENGALURU - 560 109.



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

## VI SEM

### III SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 30-06-2023

DATE	TIME	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	MECHANICAL ENGG (2018 Scheme)	MECHANICAL ENGG (2017 Scheme)
06-07-2023 THURSDAY	9.30 AM TO 11.00 AM	SYSTEM SOFTWARE AND COMPILERS (18CS61)	DIGITAL COMMUNICATION (18EC61)	MACHINE LEARNING (18AI61)	FINITE ELEMENT METHODS (18ME61)	FINITE ELEMENT ANALYSIS (17ME61)
	2.00 PM TO 3.30 PM	COMPUTER GRAPHICS & VISUALIZATION (18CS62)	EMBEDDED SYSTEMS (18EC62)	DIGITAL IMAGE PROCESSING (18AI62)	DESIGN OF MACHINE ELEMENTS-2 (18ME62)	DESIGN OF MACHINE ELEMENTS-2 (17ME64)
07-07-2023 FRIDAY	9.30 AM TO 11.00 AM	WEB TECHNOLOGY & ITS APPLICATIONS (18CS63)	MICROWAVE & ANTENNAS (18EC63)	JAVA FOR MOBILE APPLICATIONS (18AI63)	HEAT TRANSFER (18ME63)	HEAT TRANSFER (17ME63)
	2.00 PM TO 3.30 PM	CLOUD COMPUTING & ITS APPLICATIONS (18CS643) / SYSTEM MODELLING & SIMULATION (18CS645)	PYTHON APPLICATION PROGRAMMING (18EC646)	WEB PROGRAMMING (18AI643)	NON TRADITIONAL MACHINING (18ME641)	COMPUTER INTEGRATED MANUFACTURING (17ME62)
08-07-2023 SATURDAY	9.30 AM TO 11.00 AM	SUPPLY CHAIN MANAGEMENT (18ME653)	INTRODUCTION TO DATA STRUCTURES & ALGORITHMS (18CS652) / SUPPLY CHAIN MANAGEMENT (18ME653) /	SUPPLY CHAIN MANAGEMENT (18ME653)	INTRODUCTION TO OPERATING SYSTEMS (18CS654)	AUTOMOBILE ENGINEERING (17ME655)

**NOTE: All the students are strictly informed to wear LAB uniforms, College ID Card is compulsory during the test.**

*J. Shankar*  
30/6/23  
**ACADEMIC COORDINATOR**  
Head of the Department  
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K.S. Institute of Technology  
Bengaluru - 560 109.

*S. Kumar*  
**PRINCIPAL**  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

## VI SEM

### II SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 30-05-2023

DATE	TIME	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	MECHANICAL ENGG (2018 Scheme)	MECHANICAL ENGG (2017 Scheme)
05-06-2023 MONDAY	9.30 AM TO 11.00 AM	SYSTEM SOFTWARE AND COMPILERS (18CS61)	DIGITAL COMMUNICATION (18EC61)	MACHINE LEARNING (18AI61)	FINITE ELEMENT METHODS (18ME61)	FINITE ELEMENT ANALYSIS (17ME61)
	2.00 PM TO 3.30 PM	COMPUTER GRAPHICS & VISUALIZATION (18CS62)	EMBEDDED SYSTEMS (18EC62)	DIGITAL IMAGE PROCESSING (18AI62)	DESIGN OF MACHINE ELEMENTS-2 (18ME62)	DESIGN OF MACHINE ELEMENTS-2 (17ME64)
06-06-2023 TUESDAY	9.30 AM TO 11.00 AM	WEB TECHNOLOGY & ITS APPLICATIONS (18CS63)	MICROWAVE & ANTENNAS (18EC63)	JAVA FOR MOBILE APPLICATIONS (18AI63)	HEAT TRANSFER (18ME63)	HEAT TRANSFER (17ME63)
	2.00 PM TO 3.30 PM	CLOUD COMPUTING & ITS APPLICATIONS (18CS643) / SYSTEM MODELLING & SIMULATION (18CS645)	PYTHON APPLICATION PROGRAMMING (18EC646)	WEB PROGRAMMING (18AI643)	NON TRADITIONAL MACHINING (18ME641)	COMPUTER INTEGRATED MANUFACTURING (17ME62)
07-06-2023 WEDNESDAY	9.30 AM TO 11.00 AM	SUPPLY CHAIN MANAGEMENT (18ME653)	INTRODUCTION TO DATA STRUCTURES & ALGORITHMS (18CS652) / SUPPLY CHAIN MANAGEMENT (18ME653) /	SUPPLY CHAIN MANAGEMENT (18ME653)	INTRODUCTION TO OPERATING SYSTEMS (18CS654)	AUTOMOBILE ENGINEERING (17ME655)
	FROM 11.30 AM ONWARDS CLASSES WILL BE HELD AS PER TIMETABLE					

**NOTE: All the students are strictly informed to wear LAB uniforms, College ID Card is compulsory during the test.**

*J. Shankar*  
30/5/23  
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*S. Kumar*  
PRINCIPAL  
PRINCIPAL  
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BENGALURU - 560 109



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

VI SEM

I SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 10-04-2023

DATE	TIME	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	MECHANICAL ENGG (2018 Scheme)	MECHANICAL ENGG (2017 Scheme)
17-04-2023 MONDAY	9.30 AM TO 11.00 AM	SYSTEM SOFTWARE AND COMPILERS (18CS61)	DIGITAL COMMUNICATION (18EC61)	MACHINE LEARNING (18AI61)	FINITE ELEMENT METHODS (18ME61)	FINITE ELEMENT ANALYSIS (17ME61)
	2.00 PM TO 3.30 PM	COMPUTER GRAPHICS & VISUALIZATION (18CS62)	EMBEDDED SYSTEMS (18EC62)	DIGITAL IMAGE PROCESSING (18AI62)	DESIGN OF MACHINE ELEMENTS-2 (18ME62)	DESIGN OF MACHINE ELEMENTS-2 (17ME64)
18-04-2023 TUESDAY	9.30 AM TO 11.00 AM	WEB TECHNOLOGY & ITS APPLICATIONS (18CS63)	MICROWAVE & ANTENNAS (18EC63)	JAVA FOR MOBILE APPLICATIONS (18AI63)	HEAT TRANSFER (18ME63)	HEAT TRANSFER (17ME63)
	2.00 PM TO 3.30 PM	CLOUD COMPUTING & ITS APPLICATIONS (18CS643) / SYSTEM MODELLING & SIMULATION (18CS645)	PYTHON APPLICATION PROGRAMMING (18EC646)	WEB PROGRAMMING (18AI643)	NON TRADITIONAL MACHINING (18ME641)	COMPUTER INTEGRATED MANUFACTURING (17ME62)
19-04-2023 WEDNESDAY	9.30 AM TO 11.00 AM	SUPPLY CHAIN MANAGEMENT (18ME653)	INTRODUCTION TO DATA STRUCTURES & ALGORITHMS (18CS652) / SUPPLY CHAIN MANAGEMENT (18ME653) /	SUPPLY CHAIN MANAGEMENT (18ME653)	INTRODUCTION TO OPERATING SYSTEMS (18CS654)	AUTOMOBILE ENGINEERING (17ME655)
	FROM 11.30 AM ONWARDS CLASSES WILL BE HELD AS PER TIMETABLE					
NOTE: All the students are strictly informed to wear LAB uniforms, College ID Card is compulsory during the test.						

*J. Shankar* 10/4/23  
ACADEMIC COORDINATOR

Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

*Principals*  
PRINCIPAL

PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**VI SEM LAB INTERNALS TT EVEN SEM 2022-2023**

DATE:26-06-2023

DATE/LAB	TIMINGS	VI SEM		
		MAD LAB	SS&C LAB	CG LAB
03-07-2023 MONDAY	09.00 AM - 12.00 PM	A1 BATCH	A2 BATCH	A3 BATCH
	01.00 PM - 04.00 PM	B1 BATCH	B2 BATCH	B3 BATCH
04-07-2023 TUESDAY	09.00 AM - 12.00 PM	A2 BATCH	A3 BATCH	A1 BATCH
	01.00 PM - 04.00 PM	B2 BATCH	B3 BATCH	B1 BATCH
05-07-2023 WEDNESDAY	09.00 AM - 12.00 PM	A3 BATCH	A1 BATCH	A2 BATCH
	01.00 PM - 04.00 PM	B3 BATCH	B1 BATCH	B2 BATCH

**Time Table Incharge**

1. Mr. Roopesh Kumar.B.N *RK BN 26/6/23*
2. Mr. Raghavendrachar.S *RS 26/6/23*

**HOD**

Head of the Department  
Dept. of Computer Science & Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109



**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**VIII SEM IOT LAB TEST TIME TABLE (2022-2023)**  
**DATE: 02-05-2023**

DATE	TIME	BATCH
8/5/2023	09.00 AM TO 11.00 AM	A1 BATCH
	11.00 AM TO 01.00 PM	A2 BATCH
	02.00 PM TO 04.00 PM	A3 BATCH
9/5/2023	09.00 AM TO 11.00 AM	B1 BATCH
	11.00 AM TO 01.00 PM	B2 BATCH
	02.00 PM TO 04.00 PM	B3 BATCH

**NOTE: Batches are to be followed as per VII SEM Lab Batch List.**

*L. S. N.*  
*S. Raju*  
SESSIONAL COORDINATORS

*D. Venkatesh*  
HOD





**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**VIII SEM III SESSIONAL TIME TABLE (2022-2023)**

**DATE: 02-05-2023**

DATE	TIME	VIII SEM (2018 SCHEME)
11-05-2023 THURSDAY	09.30 AM TO 11.00 AM	INTERNET OF THINGS (18CS81)
	02.00 PM TO 03.30 PM	STORAGE AREA NETWORKS (18CS822)

NOTE: All the students are strictly informed to wear lab uniforms, Mask and college ID Cards compulsorily during the test.

*L. S. N.*  
*S. Raju*  
**SESSIONAL COORDINATORS**

*D. Venkatesh*  
**HOD**



**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**VI SEM LAB INTERNALS TT EVEN SEM 2022-2023**

DATE:26-06-2023

DATE/LAB	TIMINGS	VI SEM		
		MAD LAB	SS&C LAB	CG LAB
03-07-2023 MONDAY	09.00 AM - 12.00 PM	A1 BATCH	A2 BATCH	A3 BATCH
	01.00 PM - 04.00 PM	B1 BATCH	B2 BATCH	B3 BATCH
04-07-2023 TUESDAY	09.00 AM - 12.00 PM	A2 BATCH	A3 BATCH	A1 BATCH
	01.00 PM - 04.00 PM	B2 BATCH	B3 BATCH	B1 BATCH
05-07-2023 WEDNESDAY	09.00 AM - 12.00 PM	A3 BATCH	A1 BATCH	A2 BATCH
	01.00 PM - 04.00 PM	B3 BATCH	B1 BATCH	B2 BATCH

**Time Table Incharge**

1. Mr. Roopesh Kumar.B.N *RK BN 26/6/23*
2. Mr. Raghavendrchar.S *RS 26/6/2023*

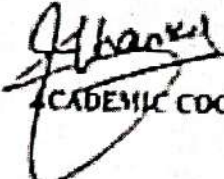
**HOD**

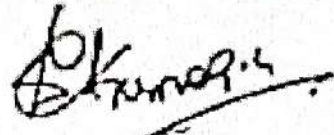
Head of the Department  
Dept. of Computer Science & Engg.  
K.S. Institute of Technology  
Bangalore - 560 109

**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**VI & VIII SEMESTER - INTERNAL TEST INVIGILATION DUTY (2022-2023)**

Date	Timings	Squad Members
17/4/2023 MONDAY	9:30 am to 11:00 am	HJR (CSE) CVR (ECE)
	2:00 pm to 3:30 pm	SD (CSE) GTR (ME)
18/4/2023 TUESDAY	9:30 am to 11:00 am	PHS (CSE) GTR (ME)
	2:00 pm to 3:30 pm	HJR (CSE) SD (CSE)
19/4/2023 WEDNESDAY	9:30 am to 11:00 am	PHS (CSE) CVR (ECE)

CSE : Mr. Hanahavardhan J R (HJR), Mr. Sanjoy Das (SD) & Dr. Prashantha H S (PHS)  
ECE : Dr. Chanda V Reddy (CVR)  
ME : Dr. Girish T R (GTR)

  
13/4/23  
ACADEMIC COORDINATOR

  
Principal  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.

# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## II SEMESTER - 3rd CIE TEST INVIGILATION DUTY (2022-2023)

Date	Timings	Squad Members
31/8/2023 THURSDAY	9:30 am to 10:30 am	GTR(ME) HJR (CSE)
	2:00 pm to 3:00 pm	GTR(ME) JP(BS)
1/9/2023 FRIDAY	9:30 am to 10:30 am	JP(BS) HJR(CSE)
	3:00 pm to 4:00 pm	MUS(ME) JP(BS)
2/9/2023 SATURDAY	9:30 am to 10:30 am	MUS(ME) HJR(CSE)
<b>Squad Duty :</b> CSE: Mr. Harshavardhan J R (HJR) ME : Dr. M Umashankar (MUS), Dr. Girish T R (GTR) BS: Dr. Jalaja P (JP)		

  
26/8/23  
ACADEMIC COORDINATOR

  
Principal  
PRINCIPAL  
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BENGALURU - 560 109.



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

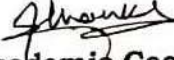
IV SEM

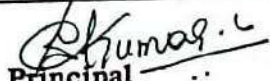
## THIRD SESSIONAL TEST TIME TABLE (2022-2023) (EVEN SEMESTER 2023)

Date : 28/08/2023

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
6/09/2023 Wednesday	9:30 AM To 10:30 AM	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21EC41</b> Maths for Communication Engineers	<b>21ME41</b> Complex Analysis, Probability and Linear Programming.
	2:00 PM To 3:00 PM	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21EC42-</b> Digital Signal Processing	<b>21ME42</b> Machining Science and Jigs & Fixtures
7/09/2023 Thursday	9:30 AM To 10:30 AM	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21EC43</b> Circuits & Controls	<b>21ME43</b> Fluid Mechanics
	1:30 PM To 2:30 PM	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers
8/09/2023 Friday	9:30 AM To 10:30 AM	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21EC44</b> Communication Theory	<b>21ME44</b> Mechanics of Materials
	1:30 PM To 2:30 PM	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK37/47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada	<b>21KSK47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada
	3.00 PM To 4:00 PM	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.

  
28/8/23  
**Academic Coordinator**  
Head of the Department  
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K.S. Institute of Technology  
Bangalore - 560 109.

  
**Principal**  
PRINCIPAL  
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BENGALURU - 560 109



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

## VIII SEM

II SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 10-04-2023

DATE	TIME	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	ELECTRONICS & TELECOMMUNICATION ENGG	MECHANICAL ENGG (2018 Scheme)
17-04-2023 MONDAY	9.30 AM TO 11.00 AM	INTERNET OF THINGS (18CS81)	WIRELESS & CELLULAR COMMUNICATIONS (18EC81)	ADVANCED CELLULAR COMMUNICATIONS (18TE81)	ENERGY ENGINEERING (18ME81)
	2.00 PM TO 3.30 PM	STORAGE AREA NETWORKS (18CS822)	RADAR ENGINEERING (18EC823)	RADAR ENGINEERING (18EC823)	TRIBOLOGY (18ME822)

**NOTE:** All the students are strictly informed to wear LAB uniforms, College ID Card is compulsory during the test.

*J. Hankey*  
10/4/23  
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*Shumaa S.*  
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**K.S. INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGG.**  
**IV SEM LAB INTERNALS TT EVEN SEM 2022-2023**

DATE:02-09-2023

DATE/LAB	TIMINGS	IV SEM	
		PHYTHON LAB	R PROGRAMMING LAB
09-09-2023 SATURDAY	09.00 AM - 12.00 PM	A1 BATCH	B1 BATCH
	12.30 PM - 03.30 PM	A2 BATCH	B2 BATCH
11-09-2023 MONDAY	09.00 AM - 12.00 PM	A3 BATCH	B3 BATCH
	12.30 PM - 03.30 PM	A4 BATCH	B4 BATCH
12-09-2023 TUESDAY	09.00 AM - 12.00 PM	B1 BATCH	A1 BATCH
	12.30 PM - 03.30 PM	B2 BATCH	A2 BATCH
13-09-2023 WEDNESDAY	09.00 AM - 12.00 PM	B3 BATCH	A3 BATCH
	12.30 PM - 03.30 PM	B4 BATCH	A4 BATCH

*L.T.S.N S. Raghav*

**Time Table Incharge**

1. Mr. Roopesh Kumar.B.N
2. Mr. Raghavendrachar.S

*D. Duratapur*

**HOD**

**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**VI & VIII SEMESTER - INTERNAL TEST INVIGILATION DUTY (2022-2023)**

Date	Timings	SEM	NB 101	NB 102	NB 104	NB 202	NB 203	NB 205	NB 301	NB 302	NB 008 (Gf Floor- SI)	NB 103 (1st Floor- SI)	NB 204 (2nd Floor- SI)	NB 303 (3rd Floor- SI)	NB 403 (4th Floor- SI)
17/4/2023 MONDAY	9:30 am to 11:00 am	VI	KG (CSE)	KMS (CSE)	PHS (CSE)	RN (ECE)	PA (ECE)	DA (ECE)	AS (AIML)	AK (ME)	MKS (CSE)	MBR (ME)	PR (CSE)	NKS (ME)	NB (ME)
		VIII									KP (ME)	SSB (CSE)	LN (ME)	SG (CSE)	ALB (CSE)
	2:00 pm to 3:30 pm	VI	MKS (CSE)	PR (CSE)	PS (ECE)	SST (ECE)	SV (ECE)	PKN (CSE)	SG (CSE)	RGL (ME)	PHS (CSE)	KMS (CSE)	NB (ME)	KP (ME)	KG (CSE)
		VIII									AK (ME)	NKS (ME)	ALB (CSE)	SSB (CSE)	AS (AIML)
18/4/2023 TUESDAY	9:30 am to 11:00 am	VI	LKK (CSE)	TR (BS)	BS (ECE)	HA (ECE)	VM (CSE)	PA (ECE)	SGK (BS)					RGL (ME)	
	2:00 pm to 3:30 pm	VI	KRS (BS)	TN (BS)	LC (BS)	RN (ECE)	SV (ECE)	SST (ECE)	PS (ECE)					MBR (ME)	
19/4/2023 WEDNESDAY	9:30 am to 11:00 am	VI	PKN (CSE)	MIN (BS)	PS (ECE)	VM (CSE)	SST (ECE)	SB (ECE)	LKK (CSE)					LN (ME)	

*Abhram*  
13/4/23  
ACADEMIC COORDINATOR

*K. S. I. T. C.*  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BANGALORE - 560 109



**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**CIE TEST INVIGILATION NAMES WITH INITIALS - 2022-2023 (EVEN SEM)**

Sr. No.	DEPARTMENT	NAME OF THE INVIGILATOR	INITIALS
1	BS & H	MRS. MAMATHA N	MH
2		MS LAKSHMI C	LC
3		MRS. SNEHA G KULKARNI	SGK
4		MRS. TEJASWINI	TR
5		MRS. SHYLAJA K H	KRS
6		MR. KAVYA T N	TN
7	CSE	MR. KRISHNA GUDI	KG
8		MRS. KAVYA M S	KMS
9		MRS. PALLAVI R	PR
10		MRS. PALLAVI K N	PKN
11		MRS. SUPRITHA GANESH	SG
12		MR. MANOJ KUMAR S	MKS
13		MR. LAKSHMI KANTH K	LKK
14		MR. PRASHANTH H S	PHS
15		DR. VIJAYLAKSHMI MEKALI	VM
16		MR. ABHILASH L BHAT	ALB
17		MRS. SWAPNA S BANASODE	SSB
18		MRS. KEERTANA	KT
19		MRS. PREETHI	PT
20		MRS. MOUNIKA	MK
21		MRS. GEETHA	GT

Sr. No.	DEPARTMENT	NAME OF THE INVIGILATOR	INITIALS	
22	ECE	DR. REKHA H	RH	
23		MR. PRAVEENA	PA	
24		MRS. BHARGAVI ANANTH	BA	
25		MRS. POOJA S	PS	
26		MR. SALEEM S TEVRAMANI	SST	
27		MRS. SANGEETHA V	SV	
28		DR. B SUDARSHAN	BS	
29		DR. SUREKHA BORRA	SB	
30		MR. NAGARAJ D	DN	
31		MRS. GANGALAKSHMI B	GB	
32		MRS. SHANTHA C	SC	
33		MR. MANOJ D KULKARNI	MDK	
34		ME	MR. ANIL KUMAR K	AK
35			MR. MANJUNATH B R	MBR
36	MR. NAGABHUSHANA M		NB	
37	MR. RAJESH G L		RGL	
38	DR. NIRMALA L		LN	
39	MR. K PRASAD		KP	
40	DR. NAGAPRASAD K S		NKS	
41	AV. VENKATARAMANA V		VV	
42	MR. TULSIBABU G		TG	
43	MR. GOVINDASWAMY L		GL	
44	MR. SEENA TV	SV		
45	MRS. ANULYASHHELL S	AS		
46	AIML	MR. GANESH M	GM	
47		MRS. LAKSHMI K M	LKM	
48	CSD	MRS. DHANALAKSHMI R	DR	

**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**CIE TEST INVIGILATION NAMES WITH INITIALS - 2022-2023 (EVEN SEM)**

SL No.	DEPARTMENT	NAME OF THE INVIGILATOR	INITIALS
1	BS	DR. VENKATARAMANA B S	BS
2		MRS. MAMATHA N	MN
3		MS.LAKSHMI C	LC
4		MRS. ANURADHA M V	MV
5		MRS. SNEHA G KULKARNI	SGK
6		MRS. TEJASWINI R	TR
7		MRS. SHYLAJA K R	KRS
8		MR. SUNIL KUMAR N	SN
9		DR. RENUKA C	RC
10		MR. KAVYA T N	KTN
11		DR. MADHAVI S	MS
12		MR. HARISH S	HS
13		MRS. SOWMYA RANI C	SRC
14		MR. NAVEEN V	NV
15	CSE	MR. KUMAR K	KK
16		MRS. RAMANJINAMMA	RJ
17		MR. SOMSHEKAR T	ST
18		MR. KRISHNAGUDI G	KG
19		MRS. SHRUTHI T S	STS
20		MRS. RAMYA R	RR
21		DR. KUSUMA T	KT
22		DR. SUNITHA CHALAGERI	SCH

SL No.	DEPARTMENT	NAME OF THE INVIGILATOR	INITIALS
23	ECE	MRS. RAMYA K R	KR
24		MRS. SHRUTHI V JOSHI	SVJ
25		DR. DEVIKA B	DB
26		MRS. SUMA SANTOSH	SS
27		MRS. VISHALINI DIWAKAR	VD
28		MRS. AMRUTHA R	AR
29	ME	MR. ANIL KUMAR A	AK
30		MR. HARISH U	HU
31		MR. MANJUNATH B R	MBR
32		MR. NAGABHUSHANA M	NM
33		MR. RANGANATH N	RN
34		MRS. TEJASWINI M L	TML
35		DR. NIRMALA L	LN
36		DR. NAGAPRASAD K S	NKS
37		MR. K PRASAD	KP
38		DR. GIRISH T R	GTR

*Jhanna*  
 25/8/23  
 ACADEMIC COORDINATOR

*S. Kumar*  
 PRINCIPAL  
 PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.

# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## II SEMESTER - 3rd CIE TEST INVIGILATION DUTY (2022-2023)

Date	Timings	NB 101	NB 102	NB SH 103 (1st Floor)	NB 104	NB 202	NB 203	NB SH 204 (2nd Floor)	NB 205	NB 301	NB 302	NB SH 303 (3rd Floor)	NB 304	NB SH 403 (4th Floor)
31/8/2023 THURSDAY	9:30 am to 10:30 am	VD (ECE)	AK (ME)	KR (ECE)	ST (CSE)	MBR (ME)	SVJ (ECE)	KTN (BS)	KRS (BS)	MS (BS)	NKS (ME)	RN (ME)	KP (ME)	NM (ME)
				DB (ECE)				AR (ECE)				RC (BS)		LC (BS)
	2:00 pm to 3:00 pm	BS (BS)	KR (ECE)	SRC (BS)	SVJ (ECE)	KRS (BS)	KTN (BS)	RN (ME)	HU (ME)	RJ (CSE)	NV (BS)	KG (CSE)	SS (ECE)	KK (CSE)
				AR (ECE)				SN (BS)				TR (BS)		
1/9/2023 FRIDAY	9:30 am to 10:30 am	ST (CSE)	VD (ECE)	MN (BS)	BS (BS)	SVJ (ECE)	KRS (BS)	KR (ECE)	NM (ME)	NKS (ME)	SRC (BS)	RJ (CSE)	SN (BS)	TR (BS)
				SGK (BS)				KTN (BS)				SS (ECE)		AK (ME)
	1.30 pm to 2.30 pm	MBR (ME)	AK (ME)	MV (BS)	KG (CSE)	KK (CSE)	DB (ECE)	RN (ME)	HU (ME)	SRC (BS)	RJ (CSE)	LKK (AIML)	TR (BS)	KT (CSE)
				TML (ME)				RR (CSE)				RC (BS)		
	3:00 pm to 4:00 pm	<del> </del>	<del> </del>	NV (BS)	<del> </del>	<del> </del>	<del> </del>	AR (ECE)	<del> </del>	SS (ECE)	<del> </del>	RR (CSE)	SCH (CSE)	<del> </del>
	2/9/2023 SATURDAY	9:30 am to 10:30 am	MBR (ME)	AK (ME)	VD (ECE)	ST (CSE)	SVJ (ECE)	SRC (BS)	SGK (BS)	AR (ECE)	KP (ME)	MS (BS)	SS (ECE)	STS (CSE)
GTR (ME)					MN (BS)				HS (BS)				SCH (CSE)	
1.30 pm to 2.30 pm		LC (BS)	MS (BS)	KP (ME)	VD (ECE)	MBR (ME)	KTN (BS)	DB (ECE)	KT (CSE)	RC (BS)	NKS (ME)	SN (BS)	STS (CSE)	GTR (ME)
				MV (BS)				LN (ME)				NM (ME)		TML (ME)
3:00 pm to 4:00 pm	MV (BS)	KK (CSE)	MS (BS)	KG (CSE)	KRS (BS)	MN (BS)	DB (ECE)	RC (BS)	HS (BS)	TR (BS)	KK (CSE)	SN (BS)	NV (BS)	
			BS (BS)				RN (ME)				LC (BS)		KR (ECE)	

*J. Hanumanth*  
25/8/23  
ACADEMIC COORDINATOR

*S. Kumar*  
PRINCIPAL  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.

SET : A

USN [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**


Degree: B.E  
Branch: Computer Science and Engineering  
Course Title: Microcontroller & Embedded Systems  
Duration: 60 Minutes

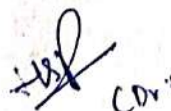
Semester: IV  
Course Code: 21CS43  
Date: 27/06/2023  
Max.Marks:20

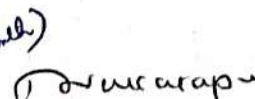
Note: Answer **OneFull** question from each part

K - Level: K1-Remembering, K2- Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q.No.	Questions PART-A	Marks	CO	K-Level
1(a)	<b>Interpret</b> the Current Program Status Register (CPSR) of ARM Controller with proper diagram.	4	CO1	K2
(b)	<b>Illustrate</b> ARM7 three stage pipeline using a simple example.	4	CO1	K2
(c)	<b>Explain</b> briefly any one the ARM hardware core extensions to improve the performance of the processor.	4	CO1	K2
<b>OR</b>				
2(a)	<b>Explain</b> briefly the RISC design philosophy and the ARM design philosophy.	4	CO1	K2
(b)	<b>Explain</b> an ARM based Embedded System with proper diagram.	4	CO1	K2
(c)	<b>Interpret</b> the entries in the Vector Table.	4	CO1	K2
<b>PART-B</b>				
3(a)	<b>Illustrate</b> the following Mnemonics (Barrel Shifter Operations) with examples: (i) LSL (ii) ROR	4	CO2	K2
(b)	<b>Explain</b> the Branch Instructions with example.	4	CO2	K2
<b>OR</b>				
4(a)	<b>Illustrate</b> any two Logic Instructions with examples.	4	CO2	K2
(b)	<b>Explain</b> the Current Program Status Register (CPSR) Instructions with example.	4	CO2	K2

  
Name and Signature  
of Course In Charge

  
Name and Signature  
Module coordinator

  
HOD, CSE

  
Principal

SET: B



**KSIT**

**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

USN 

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Degree: B.E  
Branch: Computer Science and Engineering  
Course Title: Microcontroller & Embedded Systems  
Duration: 60 Minutes

Semester: IV  
Course Code: 21CS43  
Date: 27/06/2023  
Max.Marks:20

**Note: Answer One Full question from each part**

K – Level: K1-Remembering, K2- Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating


Q.No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	With respect to Current Program Status Register (CPSR) of ARM Controller, <b>Define</b> Banked registers. Also <b>Summarize</b> the complete ARM Register set with neat figure	4	CO1	K2
(b)	<b>Illustrate</b> ARM 7 Three stage pipeline concept using a pipelined instruction sequence, ARM instruction sequence and an example to illustrate the concept	4	CO1	K2
(c)	With respect to ARM Core data flow model, <b>Explain</b> the processor mode of operation categorizing privileged mode or non-privileged mode clearly mentioning the conditions for privileged mode and non-privileged mode of operation	4	CO1	K2
<b>OR</b>				
2(a)	<b>Compare</b> CISC and RISC processors. Clearly highlight how ARM instruction set differs from Pure RISC definition which makes ARM instruction set suitable for embedded applications.	4	CO1	K2
(b)	With respect to ARM based embedded device, a microcontroller <b>Summarize</b> the memory characteristics when comparing in-terms of price, performance and power consumption	4	CO1	K2
(c)	With respect to Current Program Status Register (CPSR) of ARM Controller, <b>Explain</b> the four fields with proper diagram	4	CO1	K2
<b>PART-B</b>				
3(a)	With respect to ARM Instruction set, <b>Illustrate</b> with an example multiplying two numbers with syntax and description. Also <b>Provide</b> the syntax for long multiplication representing 64 bit value	4	CO2	K2
(b)	With respect to ARM Instruction set, <b>Illustrate</b> how to load constants into a register with the help of syntax and pseudoinstructions used to load constant and address. Also <b>Mention</b> the alternative method of loading constant into a register	4	CO2	K2
<b>OR</b>				

**SET: B**

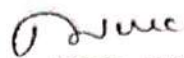
4(a)	<b>Illustrate</b> the use of Barrel shifter with neat figure and <b>Explain</b> the use of Barrel shifter with arithmetic Instruction ADD	4	CO2	K2
(b)	With respect to ARM Instruction set, <b>Explain</b> the TWO instructions which directly control a Program Status Register (PSR) clearly mentioning the PSR Byte fields, Syntax and description of the same	4	CO2	K2

 21/6/2023

Name and Signature  
Of Course In Charge

 21/6/2023

Name and Signature  
Module coordinator

 21/6/23  
HOD, CSE

 21/6/23  
Principal  
Selected

SET : A

USN



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109  
SECOND INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

Degree: B.E  
Branch: Computer Science and Engineering  
Course Title: Microcontroller & Embedded Systems  
Duration: 60 Minutes


Semester: IV  
Course Code: 21CS43  
Date: 01/08/2023  
Max.Marks:20

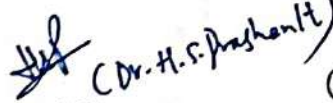
Note: Answer One Full question from each part

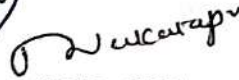
K - Level: K1-Remembering, K2- Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q.No.	Questions	Marks	CO	K-Level
PART-A				
1(a)	Illustrate the uses of Data Types in an optimized C program for ARM processor.	4	CO2	K2
(b)	Illustrate the Writing of Loops in an optimized C program for ARM processor.	4	CO2	K2
(c)	Explain briefly the Structural Arrangement to improve memory uses for ARM processor.	4	CO3	K3
OR				
2(a)	Explain briefly the efficient way of Function Call in C program for ARM processor.	4	CO2	K2
(b)	Explain briefly the Register Allocation of ARM processor.	4	CO2	K2
(c)	Explain briefly the uses of Inline Function and Inline Assembly for ARM processor.	4	CO3	K3
PART-B				
3(a)	Explain briefly the Portability Issues for ARM processor.	4	CO3	K3
(b)	Explain the term 'Profiling' and also the rules of cycle timing for the ARM9TDMI.	4	CO3	K3
OR				
4(a)	Illustrate Instruction scheduling of ARM9TDMI.	4	CO3	K3
(b)	Illustrate briefly the issues related to Unaligned Data and Endianness for ARM processor.	4	CO3	K3

(SANJOY DAS)

  
Name and Signature  
of Course In Charge

  
Name and Signature  
Module coordinator

  
HOD, CSE

  
Principal  
Selected

SET: B



**KSIT**

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

SECOND

Degree: B.E

Semester: IV

Branch: Computer Science and Engineering

Course Code: 21CS43

Course Title: Microcontroller & Embedded Systems

Date: 1/08/2023

Duration: 60 Minutes

Max.Marks:20

Note: Answer One Full question from each part


K - Level: K1-Remembering, K2- Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q.No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Discuss with an example why it is required to avoid the usage of <i>char</i> for local variable declaration. Compare the output of the compiler when <i>unsigned int</i> is declared in-place of <i>char</i> variable	4	CO2	K2
(b)	Write the C function and the corresponding compiler output for the loop with incrementing count by taking 64 word packet checksum examples. State clearly why it is not efficient? Show how improvement can be achieved with decrementing loop by clearly mentioning the compiler output	4	CO2	K2
(c)	What is a structure? With an example illustrate how memory usage can be improved by re-ordering the elements in the structure. Show how a keyword <code>_packed</code> removes all padding	4	CO3	K3
<b>OR</b>				
2(a)	What is loop overhead instruction? With an example show how some of the cycles can be saved by unrolling a loop	4	CO2	K2
(b)	What are spilled or swapped out variables? With respect to register allocation, explain how to implement a function efficiently by mentioning C compiler register usage.	4	CO2	K2
(c)	What is Endianness? Summarize little endian and Big endian configuration with necessary example and configuration table	4	CO3	K3
<b>PART-B</b>				
3(a)	Summarize with examples for the following cases with respect to Instruction scheduling: 1) No interlock    2) One cycle interlock caused by delayed load use	4	CO3	K3




**SET: B**

(b)	Mention the portability issues encountered when porting C code to ARM	4	CO3	K3
<b>OR</b>				
4(a)	Explain the followings with respect to writing and optimizing ARM assembly code 1) Profiler 2) Cycle Counter 3) Pipeline Hazard 4) Pipeline Bubble	4	CO3	K3
(b)	With C code example and its assembly code, demonstrate the implementation of simple if statements without branches. How it improves the efficiency of the code?	4	CO3	K3

 24/7/2023

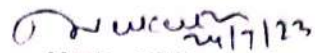
Name and Signature  
of Course In Charge

Dr. H. S. Prashant

 24/7/2023

Name and Signature  
Module coordinator

Dr. H. S. Prashant

 24/7/23

HOD, CSE



Principal



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

(ವಿಜಯ ಅಧಿನಿಯಮ ೧೯೯೪ ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D.

Fax : (0831) 2405467

Phone: (0831) 2498100 REGISTRAR

REF: VTU/BGM/ACA/2022-23/ 6241

DATE: 21 JAN 2023

### Revised-NOTIFICATION

**Subject:** - Revised-Academic Calendar of 3<sup>rd</sup> semester of B.E./B.Tech., programs of University regarding...

**Reference:** Dean Faculty of Engineering, VTU Belagavi approval dated 20.01.2023

Hon'ble Vice-Chancellor's approval dated: 20.01.2023

The revised-academic calendar concerned to 3<sup>rd</sup> semester of B.E./B.Tech., programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

Revised Academic Calendar for 3rd-semester B.E./B.Tech. Programs		
Details	Existing Dates	Revised Dates
Commencement of III semester	31.10.2022	31.10.2022
Commencement of Classes for Lateral Entry students	-----	06.02.2023
Last working date	11.02.2023	01.04.2023
Practical Examinations Regular Students	13.02.2023 To 21.02.2023	04.04.2023 To 13.04.2023
Theory Examinations	22.02.2023 To 22.03.2023	17.04.2023 To 05.05.2023
Practical Examination for Lateral Entry students	-----	08.05.2023 To 13.05.2023
Intra/Inter Institute Internship	26.03.2023 To 16.04.2023	----
Commencement of IV semester	17.04.2023	15.05.2023

**Please Note:**

- The Institute needs to function for **six days** a week with **Saturday** being a full working day. Timing for the classes is either 08.00 am to 04.15 pm or 09.00 am to 05.00 pm in total 08 hours a day. #if required, the college can also plan to have extra classes on Sundays to complete academic activities within the duration mentioned.
- **Separate classes** should be conducted for lateral entry students as per the revised academic calendar; however, the regular students may attend the classes along with lateral entry students for review.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. If any changes are to be affected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- The college has to conduct offline classes to cover **80%** of the syllabus of the courses; however, **20%** of the syllabus can be covered in virtual model (Online) mode. **Attendance** of the students for offline and online classes is mandatory and records should be maintained and submitted to the university whenever informed.
- AICTE Activity point details circular will be issued by the Registrar's office separately.
- If any clarification/correction, please email-[registrar@vtu.ac.in](mailto:registrar@vtu.ac.in) or [sbhvtuso@yahoo.com](mailto:sbhvtuso@yahoo.com)
- **Intra/Inter Institute Internship for lateral entry students shall be conducted parallelly with academic activities of even the semester.**

The Principals of Affiliated, Constituent and Autonomous Engineering Colleges, Chairpersons of the University departments are hereby informed to bring the revised-academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.
2. The chairperson, of the Department of Mechanical Engineering /Civil Engineering /Computer Science and Engineering& Communication Electronics Engineering of the University.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. OS for information and make arrangements to send the circular regarding AICTE Activity Points
7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

REGISTRAR

2/2



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

REGISTRAR

Phone : (0831) 2498100

Fax : (0831) 2405467

REF: VTU/BGM/ACA/2022-23/ 3000

DATE: 3 SEP 2022

### NOTIFICATION

**Subject:** - Academic Calendar of ODD semesters B.E./B.Tech./B.Plan./B.Arch. programs of University regarding...

**Reference:** Hon'ble Vice-Chancellor's approval dated: 03.09.2022

The academic calendar concerned to **ODD semesters** of **B.E./B.Tech./B.Plan./B.Arch.** programs of University for academic year 2022-23 are hereby notified as mentioned in the attached sheet;

The Principals of Affiliated, Constituent and Autonomous Engineering Colleges are hereby informed to bring the academic calendar to the notice of all concerned.

Encl: As mentioned

Sd/-

REGISTRAR

To,

1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.
2. The chairperson, Department of Mechanical Engineering /Civil Engineering /Computer Science and Engineering and Business Studies of the University.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload revised Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. PS to Registrar VTU Belagavi
7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

Ray 03/09/2022 E  
Registrar

✍

## Academic Calendar for ODD Semester of UG programs for the year 2022-23

	I semester B.E./B.Tech.	I semester B.Arch./B.Plan	I semester B.Sc.	III semester B.E./ B.Tech.	III Semester B.Arch.	III semester B. Plan	III Semester B.Sc.	V Semester B.E./B.Tech.	V Semester B.Arch./ B.Plan.	VII semester B.E./B.Tech.	VII semester B.Plan.	VII semester B.Arch	IX semester B.Arch
Commencement of ODD Semester	# 10.10.2022	# 10.10.2022	10.10.2022 (Tentative)	11.10.2022	31.10.2022	31.10.2022	10.10.2022	10.10.2022	12.09.2022	21.08.2022	21.08.2022	19.09.2022	01.09.2022
Internship				11.10.2022 To 30.10.2022						21.08.2022 To 17.09.2022	21.08.2022 To 24.09.2022		
Commencement of Classes				31.10.2022	31.10.2022	31.10.2022	10.10.2022	10.10.2022	12.09.2022	19.09.2022	26.09.2022	19.09.2022	01.09.2022
Last Working day of ODD Semester				11.02.2023	11.02.2023	11.02.2023	28.01.2023	27.01.2023	31.12.2022	31.12.2022	07.01.2023	31.12.2022	20.12.2022
Practical Examination				13.02.2023 To 21.02.2023	13.02.2023 To 21.02.2023	13.02.2023 To 21.02.2023	01.02.2023 To 09.02.2023	30.01.2023 To 09.02.2023	03.01.2023 To 13.01.2023	03.01.2023 To 13.01.2023	09.01.2023 To 14.01.2023	03.01.2023 To 13.01.2023	21.12.2022 To 31.12.2022
Theory Examinations				22.02.2023 To 22.03.2023	22.02.2023 To 22.03.2023	22.02.2023 To 22.03.2023	13.02.2023 To 03.03.2023	13.02.2023 To 18.03.2023	16.01.2023 To 15.02.2023	16.01.2023 To 15.02.2023	16.01.2023 To 15.02.2023	16.01.2023 To 15.02.2023	---
Internship			*	26.03.2023 To 16.04.2023	---	---		---	---		---		---
Internship Viva Voce/ Project viva				---	---	---		---	---	---	---		---
Commencement of EVEN Semester				17.04.2023	17.04.2023	17.04.2023	20.03.2023	20.03.2023	20.03.2023	20.02.2023	20.02.2023	20.02.2023	06.01.2023

**Please Note:**

- The academic sessions for ODD semesters should commence from the dates mentioned above. # Commencement of Induction Program As per AICTE Academic Calendar 2022-23
- The commencement date of VII semester B.E./B.Tech/, is postponed from 12.09.2022 to 19.09.2022 to cover 04 weeks of Internship duration. The students of B.E./B.Tech., compulsorily have to complete the Internship in this duration only.
- The commencement date of VII semester B.Plan., is postponed from 12.09.2022 to 26.09.2022 to cover 06 weeks of Internship duration.
- Students joining to VII semester B.E./B.Tech/B.Plan should complete the Internship before the commencement of the classes.
- The Institute needs to function for six days a week with additional hours (Saturday is a full working day). #if required, the college can also plan to have extra classes on Sundays to complete academic activities within the duration mentioned.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University Examinations will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar may be modified based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for Autonomous Colleges. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- The college has to conduct offline classes to cover 80% of the syllabus of the courses; however, 20% of the syllabus can be covered in virtual model (Online) mode. Attendance of the students for offline and online classes is mandatory and records should be maintained and submitted to the university whenever informed.
- If any clarification/correction, please email to [to-sbhvtuse@gmail.com](mailto:to-sbhvtuse@gmail.com)

\* Internship for Lateral Entry Students

  
 REGISTRAR  
 7/2/23



# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: III ODD SEMESTER (2022-2023)

SESSION: OCT 2022 – FEB 2023

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	OCT/NOV	31*	1H	2	3	4 TA	5 DH	4	31* - Commencement of III Sem 1- Kannada Rajyotsava
2	NOV	7	8	9	10	11H	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table
3	NOV	14	15	16	17	18	19 DH	5	
4	NOV	21	22	23	24	25	26 TA	6	26 - Wednesday Time Table
5	NOV/DEC	28 T1	29 T1	30 T1	1	2	3 DH	5	
6	DEC	5	6	7	8 LT1	9 LT1	10 LT1	6	10- Tuesday Time Table
7	DEC	12* FFB1	13 BV	14 ASD	15	16	17 DH	5	12* - First Faculty Feed Back
8	DEC	19	20	21	22	23	24	6	24 - Wednesday Time Table
9	DEC	26	27	28	29	30	31 TA	6	31 - Monday Time Table
10	JAN	2 T2	3 T2	4 T2	5	6	7 DH	5	
11	JAN	9	10	11	12 BV	13 ASD	14 H	5	14- Makara Sankranthi
12	JAN	16* FFB2	17	18	19	20	21 DH	5	16* - First Faculty Feed Back
13	JAN	23	24	25	26 H	27	28	5	26- Republic Day 28- Wednesday Time Table
14	JAN/FEB	30	31	1 TA	2 T3	3 T3	4 DH	5	
15	FEB	6 T3	7	8 LT2	9 LT2	10 LT2	11*	6	11- Thursday Time Table 11* - Last Working day

Total No of Working Days : 79

Total Number of working days ( Excluding holidays and Tests)=64

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2, 3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	13
Thursday	13
Friday	12
<b>Total</b>	<b>64</b>

*(Signature)*  
**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109.**



# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: V ODD SEMESTER (2022-2023)

SESSION: OCT 2022 -- JAN 2023

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	OCT	10 <sup>A</sup>	11	12	13	14	15	6	10* - Commencement of V Sem 15-Wednesday Time Table
2	OCT	17	18	19	20	21	22 DH	5	
3	OCT	24 H	25	26 H	27	28	29	4	24-Naraka Chaturdashi 26- Balipadyami Deepavalli 29- Friday Time Table
4	OCT/NOV	31	1H	2	3	4 TA	5 DH	4	1- Kannada Rajyotsava
5	NOV	7 T1	8 T1	9 T1	10	11H	12	5	11- Kanakadasa Jayanti 12- Wednesday Time Table
6	NOV	14	15	16 LT1	17 LT1	18 LT1	19 DH	5	
7	NOV	21* FFB1	22 BV	23 ASD	24	25	26	6	21* - First Faculty Feed Back 26 - Monday Time Table
8	NOV/DEC	28	29	30	1	2	3 DH	5	
9	DEC	5	6	7	8	9	10 TA	6	10- Tuesday Time Table
10	DEC	12 T2	13 T2	14 T2	15	16	17 DH	5	
11	DEC	19* FFB2	20	21	22 BV	23	24 ASD	6	19* -Second Faculty Feed Back 24 - Thursday Time Table
12	DEC	26	27	28	29	30	31 DH	5	
13	JAN	2	3	4	5	6	7	6	7-Wednesday Time Table
14	JAN	9	10 TA	11 T3	12 T3	13 T3	14 DH	5	
15	JAN	16	17	18 LT2	19 LT2	20 LT2	21*	6	21- Wednesday Time Table 21* - Last Working day

Total No of Working Days : 79

Total Number of working days ( Excluding holidays and Tests)=64

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2, 3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	13
Thursday	13
Friday	12
Total	64

*(Signature)*  
22/08/22  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109



# K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: VII ODD SEMESTER (2022-2023)

SESSION: SEP 2022 - DEC 2022

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	SEP	19*	20	21	22	23	24 DH	5	19*-Commencement of VII Semester
2	SEP/OCT	26	27	28	29	30	1	6	1 - Wednesday Time Table
3	OCT	3	4H	5H	6	7	8 DH	3	4-Ayudha Pooja 5- Vijaya Dasami
4	OCT	10	11	12	13	14	15 TA	6	15-Friday Time Table
5	OCT	17 T1	18 T1	19 T1	20	21	22 DH	5	
6	OCT	24 H	25	26 H	27 LT1	28 LT1	29 LT1	4	24-Naruka Chaturdashi 26- Balipadyami Deepavalli
7	OCT/NOV	31	1H	2	3* FFB1	4 BV	5 DH	4	1- Kannada Rajyotsava 3* - First Faculty Feed Back
8	NOV	7 ASD	8	9	10	11H	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table
9	NOV	14	15	16	17	18 TA	19 DH	5	
10	NOV	21 T2	22 T2	23 T2	24	25	26	6	26 - Wednesday Time Table
11	NOV/DEC	28* FFB2	29	30 BV	1	2 ASD	3 DH	5	28* -Second Faculty Feed Back
12	DEC	5	6	7	8	9	10	6	10- Tuesday Time Table
13	DEC	12	13	14	15	16	17 DH	5	
14	DEC	19	20	21 TA	22 T3	23 T3	24 T3	6	
15	DEC	26	27	28 LT2	29 LT2	30 LT2	31*	6	31-Monday Time Table 31 - Last Working day

Total No of Working Days : 77

Total Number of working days ( Excluding holidays and Tests)=62

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Seasonal Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	12
Thursday	12
Friday	12
<b>Total</b>	<b>62</b>

*Skumar. C.*  
22/08/22  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109





**K. S INSTITUTE OF TECHNOLOGY, BENGALURU-560109**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**TENTATIVE CALENDAR OF EVENTS: III ODD SEMESTER (2022-2023)**  
**SESSION: OCT 2022 – FEB 2023**

Week No.	Month	Day						Days	Activities	Department Activities Tentative Dates
		Mon	Tue	Wed	Thu	Fri	Sat			
1	OCT/NOV	31*	1H	2	3	4 TA	5 DH	4	31* - Commencement of III Sem 1- Kannada Rajyotsava	Nov. 2nd - Industrial Visit for 5th sem
2	NOV	7	8	9	10	11H	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table	Nov. 8th Self Happiness & Resilience Nov. 12th - FDP on "Patent Search and Analysis" for students & staff.
3	NOV	14	15	16	17	18	19 DH	5		Nov. 15 - IEEE Awareness for 1st year students Nov. 16th - Talk Under ASH/IEEE-WIE for 5th & 7th sem Nov.17th -Talk on Entrepreneurship development Skill Under ISTE
4	NOV	21	22	23	24	25	26 TA	6	26 - Wednesday Time Table	Nov. 24,25&26th -3 days "Hands-on Workshop on Embedded system Design using Raspberry pico" for students
5	NOV/DEC	28 T1	29 T1	30 T1	1	2	3 DH	5		Nov. 28th & 29th AICTE Activity
6	DEC	5	6	7	8 LT1	9 LT1	10 LT1	6	10- Tuesday Time Table	Dec.8th & 9th - Workshop for 3rd & 5th sem students Under Garut Aerobatics Club Dec. 10th - Guest Lecture on "Addressing challenges in research publications" for students & Staff
7	DEC	12* FFB1	13 BV	14 ASD	15	16	17 DH	5	12* - First Faculty Feed Back	Dec. 12th- Motivational Talk Under ISTE
8	DEC	19	20	21	22	23	24	6	24 - Wednesday Time Table	Dec. 24th- Industrial Visit for 3rd sem
9	DEC	26	27	28	29	30	31 TA	6	31 - Monday Time Table	Dec. 30th- Carrier Guidance
10	JAN	2 T2	3 T2	4 T2	5	6	7 DH	5		Jan 5th - Miniproject Exhibition
11	JAN	9	10	11	12 BV	13 ASD	14 H	5	14- Makara Sankranthi	
12	JAN	16* FFB2	17	18	19	20	21 DH	5	16* - First Faculty Feed Back	
13	JAN	23	24	25	26 H	27	28	5	26- Republic Day 28- Wednesday Time Table	
14	JAN/FEB	30	31	1 TA	2 T3	3 T3	4 DH	5		
15	FEB	6 T3	7	8 LT2	9 LT2	10 LT2	11*	6	11- Thursday Time Table 11* - Last Working day	

**Total No of Working Days : 79**

Total Number of working days ( Excluding holidays and Tests)=64

<b>H</b>	Holiday
<b>BV</b>	Blue Book Verification
<b>T1, T2, T3</b>	Tests 1, 2, 3
<b>ASD</b>	Attendance & Sessional Display
<b>DH</b>	Declared Holiday
<b>LT</b>	Lab Test
<b>TA</b>	Test attendance

Monday	<b>13</b>
Tuesday	<b>13</b>
Wednesday	<b>13</b>
Thursday	<b>13</b>
Friday	<b>12</b>
<b>Total</b>	<b>64</b>

**HEAD OF THE DEPARTMENT**  
 Dept. of Electronics & Communication Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109

**PRINCIPAL**  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.



**K. S INSTITUTE OF TECHNOLOGY, BENGALURU-560109**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**TENTATIVE CALENDAR OF EVENTS: V ODD SEMESTER (2022-2023)**  
**SESSION: OCT 2022 – JAN 2023**

Week No.	Month	Day						Days	Activities	Department Activities Tentative Dates
		Mon	Tue	Wed	Thu	Fri	Sat			
1	OCT	10*	11	12	13	14	15	6	10* - Commencement of V Sem 15- Friday Time Table	Oct. 10th & 11th Workshop Under Anthariksh Oct 15th - IEEE day
2	OCT	17	18	19	20	21	22 DH	5		Oct 21st - Industrial Visit for 7th sem
3	OCT	24 H	25	26 H	27	28	29	4	24-Naraka Chaturdashi 26- Balipadyami Deepavalli 29- Wednesday Time Table	
4	OCT/ NOV	31	1H	2	3	4	5 DH	4	1- Kannada Rajyotsava	Nov. 2nd - Industrial Visit for 5th sem
5	NOV	7	8	9	10	11H	12 TA	5	11- Kanakadasa Jayanti 12- Tuesday Time Table	Nov. 8th Self Happiness & Resilience Nov. 12th - FDP on "Patent Search and Analysis" for students & staff.
6	NOV	14 T1	15 T1	16 T1	17	18	19 DH	5		Nov. 15 - IEEE Awareness for 1st year students Nov. 16th - Talk Under ASH/IEEE-WIE for 5th & 7th sem Nov.17th -Talk on Entrepreneurship development Skill Under ISTE
7	NOV	21	22	23 LT1	24 LT1	25 LT1	26	6	26 - Wednesday Time Table	Nov. 24,25&26th -3 days "Hands-on Workshop on Embedded system Design using Raspberry pico" for students
8	NOV/ DEC	28* FFB1	29 BV	30 ASD	1	2	3 DH	5	28* - First Faculty Feed Back	Nov. 28th & 29th AICTE Activity
9	DEC	5	6	7	8	9	10	6	10- Tuesday Time Table	Dec.8th & 9th - Workshop for 3rd & 5th sem students Under Garut Aerobatics Club Dec. 10th - Guest Lecture on "Addressing challenges in research publications" for students & Staff
10	DEC	12	13	14	15	16 TA	17 DH	5		Dec. 12th- Motivational Talk Under ISTE
11	DEC	19 T2	20 T2	21 T2	22	23	24	6	24 - Wednesday Time Table	Dec. 24th- Industrial Visit for 3rd sem
12	DEC	26	27	28	29* FFB2	30 BV	31 ASD	6	29* -Second Faculty Feed Back 31 - Monday Time Table	Dec. 30th- Carrier Guidance
13	JAN	2	3	4	5	6	7 DH	5		Jan 5th - Miniproject Exhibition
14	JAN	9	10	11	12	13	14 H	5	14- Makara Sankranti	
15	JAN	16	17 TA	18 T3	19 T3	20 T3	21 DH	5		
16	JAN	23 LT2	24 LT2	25 LT2	26 H	27*		4	26- Republic Day 27* - Last Working day	

**Total No of Working Days : 82**

Total Number of working days ( Excluding holidays and Tests)=67

<b>H</b>	Holiday
<b>BV</b>	Blue Book Verification
<b>T1, T2, T3</b>	Tests 1,2, 3
<b>ASD</b>	Attendance & Sessional Display
<b>DH</b>	Declared Holiday
<b>LT</b>	Lab Test
<b>TA</b>	Test attendance

Monday	<b>13</b>
Tuesday	<b>13</b>
Wednesday	<b>13</b>
Thursday	<b>14</b>
Friday	<b>14</b>
<b>Total</b>	<b>67</b>

**HEAD OF THE DEPARTMENT**  
 Dept. of Electronics & Communication Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109

**PRINCIPAL**  
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 BENGALURU - 560 109.



**K. S INSTITUTE OF TECHNOLOGY, BENGALURU-560109**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**TENTATIVE CALENDAR OF EVENTS: VII ODD SEMESTER (2022-2023)**  
**SESSION: SEP 2022 – DEC 2022**

Week No.	Month	Day						Days	Activities	Department Activities Tentative Dates
		Mon	Tue	Wed	Thu	Fri	Sat			
1	SEP	19*	20	21	22	23	24 DII	5	19*-Commencement of VII Semester	
2	SEP/OCT	26	27	28	29	30	1	6	1 - Wednesday Time Table	Sep 26th to 30th - FDP Under IEEE, IEI, IETE & ISTE
3	OCT	3	4II	5II	6	7	8 DH	3	4-Ayudha Pooja 5- Vijaya Dasami	
4	OCT	10	11	12	13	14	15 TA	6	15-Friday Time Table	Oct. 10th & 11th Workshop Under Anthariksh Oct 15th - IEEE day
5	OCT	17 T1	18 T1	19 T1	20	21	22 DH	5		Oct 21st - Industrial Visit for 7th sem
6	OCT	24 H	25	26 H	27 LT1	28 LT1	29 LT1	4	24-Naraka Chaturdashi 26- Balipadyami Deepavalli	
7	OCT/NOV	31	1H	2	3* FFB1	4 BV	5 DH	4	1- Kannada Rajyotsava 3* - First Faculty Feed Back	Nov. 2nd - Industrial Visit for 5th sem
8	NOV	7 ASD	8	9	10	11H	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table	Nov. 8th Self Happiness & Resilience Nov. 12th - FDP on "Patent Search and Analysis" for students & staff.
9	NOV	14	15	16	17	18 TA	19 DII	5		Nov. 15 - IEEE Awareness for 1st year students Nov. 16th - Talk Under ASH/IEEE-WIE for 5th & 7th sem Nov.17th -Talk on Entrepreneurship development Skill Under ISTE
10	NOV	21 T2	22 T2	23 T2	24	25	26	6	26 - Wednesday Time Table	Nov. 24,25&26th -3 days "Hands-on Workshop on Embedded system Design using Raspberry pico" for students
11	NOV/DEC	28* FFB2	29	30 BV	1	2 ASD	3 DH	5	28* -Second Faculty Feed Back	Nov. 28th & 29th AICTE Activity
12	DEC	5	6	7	8	9	10	6	10- Tuesday Time Table	Dec.8th & 9th - Workshop for 3rd & 5th sem students Under Garut AeroModeling Club Dec. 10th - Guest Lecture on "Addressing challenges in research publications" for students & Staff
13	DEC	12	13	14	15	16	17 DII	5		Dec. 12th- Motivational Talk Under ISTE
14	DEC	19	20	21 TA	22 T3	23 T3	24 T3	6		Dec. 24th- Industrial Visit for 3rd sem
15	DEC	26	27	28 LT2	29 LT2	30 LT2	31*	6	31-Monday Time Table 31 - Last Working day	Dec. 30th- Carrier Guidance

Total No of Working Days : 77

Total Number of working days ( Excluding holidays and Tests)=62

H	Holiday
BV	Blue Book Verification
T1, T2, T3	Tests 1, 2, 3
ASD	Attendance & Sessional Display
DII	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	12
Thursday	12
Friday	12
<b>Total</b>	<b>62</b>

**HEAD OF THE DEPARTMENT**  
 Dept. of Electronics & Communication Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109

**PRINCIPAL**  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109,



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE


## VII SEM (2018 SCHEME)


### I SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 11-10-2022

DATE	TIME	COMPUTER SCIENCE AND ENGG	ELECTRONICS AND COMMUNICATION ENGG	ELECTRONICS AND TELECOMMUNICATION ENGG	MECHANICAL ENGG
27-10-2022 THURSDAY	9.30 AM TO 11.00 AM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (18CS71)	COMPUTER NETWORKS (18EC71)	OPTICAL COMMUNICATION (18TE71)	CONTROL ENGINEERING (18ME71)
	2.00 PM TO 3.30 PM	BIG DATA ANALYTICS (18CS72)	VLSI DESIGN (18EC72)	WIRELESS COMMUNICATION (18TE72)	COMPUTER AIDED DESIGN & MANUFACTURING (18ME72)
28-10-2022 FRIDAY	9.30 AM TO 11.00 AM	USER INTERFACE DESIGN (18CS734)	SATELLITE COMMUNICATION (18EC732)	SATELLITE COMMUNICATION (18EC732)	TOTAL QUALITY MANAGEMENT (18ME734)
	2.00 PM TO 3.30 PM	CRYPTOGRAPHY (18CS744)	CRYPTOGRAPHY (18EC744)	CRYPTOGRAPHY (18EC744)	ADDITIVE MANUFACTURING (18ME741)
29-10-2022 SATURDAY	9.30 AM TO 11.00 AM	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	PYTHON APPLICATION PROGRAMMING (18CS752)
	2.00 PM TO 3.30 PM	---	---	---	---

NOTE: All the students are strictly informed to wear LAB uniforms, College ID Card is compulsory during the test.

  
ACADEMIC COORDINATOR  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

  
PRINCIPAL  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

# K.S.INSTITUTE OF TECHNOLOGY, Bangalore - 109

## VII SEM I SESSIONAL TEST INVIGILATION DUTY (2022-2023)

Date	Timings	201	203	204	205	206	207	208	209
27-10-2022 THURSDAY	9:30 am to 11:00 am	BK (CSE)	NM (ME)	KG (CSE)	RGL (ME)	PR (CSE)	PA (ECE)	PS (ECE)	AKG (ECE)
	2:00 pm to 3:30 pm	PR (CSE)	MBR (ME)	KMS (CSE)	PHS. (CSE)	SST (ECE)	SB (ECE)	LK (CSE)	PS (ECE)
28-10-2022 FRIDAY	9:30 am to 11:00 am	KMS (CSE)	AKG (ECE)	SB (ECE)	PKN (CSE)	MBR (ME)	PA <sup>PS</sup> (ECE)	SST (ECE)	LK <sup>GR</sup> (CSE)
	2:00 pm to 3:30 pm	BK (CSE)	SST (ECE)	PKN (CSE)	PS <sup>PA</sup> (ECE)	RGL (ME)	GR <sup>LK</sup> (CSE)	NM (ME)	AKG (ECE)
29-10-2022 SATURDAY	9:30 am to 11:00 am	LK (CSE)	PA (ECE)	GR (CSE)	MBR (ME)	PHS (CSE)	AKG (ECE)	RGL (ME)	KG (CSE)

*[Signature]*  
20/10/22  
ACADEMIC-INCHARGE

*[Signature]*  
PRINCIPAL

Mr. Krishna Gudi	KG	Dr. Surekha	SB
Mr. Prashanth HS	PHS	Mr. Praveen	PA
Mrs. Beena K	BK	Mr. Saleem S Tevaramani	SST
Mrs. Geetha R	GR	Mr. Aswini Kumar	AKG
Mrs. Pallavi K N	PKN	Mrs. Pooja S	PS
Mrs. Kavya M S	KMS	Mr. Nagabhushana M	NM
Mrs. Pallavi R	PR	Mr. Manjunath B R	MBR
Mr. Laxmikantha K	LK	Mr. Rajesh G L	RGL

PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**VII SEM 2018 SCHEME**  
**FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)**


ROOM No: 201

**BLACK BOARD**

VII 'A' CS	VII 'A' EC	VII 'A' CS	VII 'A' EC	VII 'A' CS	VII 'A' EC
1KS19CS001	1KS19EC001	1KS19CS007	1KS19EC007	1KS19CS015	1KS19EC014
1KS19CS002	1KS19EC002	1KS19CS009	1KS19EC008	1KS19CS016	1KS19EC015
1KS19CS003	1KS19EC003	1KS19CS010	1KS19EC009	1KS19CS017	1KS19EC016
1KS19CS004	1KS19EC004	1KS19CS011	1KS19EC010	1KS19CS018	1KS19EC017
1KS19CS005	1KS19EC005	1KS19CS012	1KS19EC011	1KS19CS019	1KS19EC018
1KS19CS006	1KS19EC006	1KS19CS014	1KS19EC012	1KS19CS020	1KS19EC019

VII CS 'A' SEC Total = 18

VII EC 'A' SEC Total = 18

  
ACADEMIC COORDINATOR  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bangalore - 560 109.

  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BANGALORE - 560 109

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**VII SEM 2018 SCHEME**

**FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)**

**ROOM NO: 203**

**BLACK BOARD**

VII 'A' CS	VII 'A' EC
1KS19CS021	1KS19EC020
1KS19CS022	1KS19EC021
1KS19CS023	1KS19EC022
1KS19CS024	1KS19EC023
1KS19CS025	1KS19EC024
1KS19CS026	1KS19EC025

VII 'A' CS	VII 'A' EC
1KS19CS028	1KS19EC027
1KS19CS029	1KS19EC028
1KS19CS030	1KS19EC029
1KS19CS031	1KS19EC030
1KS19CS032	1KS19EC031
1KS19CS033	1KS19EC032

VII 'A' CS	VII 'A' ME
1KS19CS034	1KS19ME001
1KS19CS035	1KS19ME002
1KS19CS036	1KS19ME003
1KS19CS038	1KS19ME004
1KS19CS039	1KS19ME005
1KS19CS040	1KS19ME008

**VII CS 'A' SEC Total = 18**

**VII EC 'A' SEC Total = 12**

**VII ME 'A' SEC Total = 06**

*G. Hanu*  
**ACADEMIC COORDINATOR**  
 Head of the Department  
 Dept. of Mechanical Engg  
 K.S. Institute of Technology  
 Bengaluru - 550 109.

*S. Kumar*  
**PRINCIPAL**  
 19/10/22  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 550 109

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**VII SEM 2018 SCHEME**  
**FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)**

Room No: 204

BLACK BOARD

VII 'A' CS		VII 'A' EC	VII 'A' CS		VII 'A' EC	VII 'A' CS		VII 'A' ME
1KS19CS041		1KS19EC033	1KS19CS047		1KS19EC040	1KS19CS053		1KS19ME009
1KS19CS042		1KS19EC035	1KS19CS048		1KS19EC041	1KS19CS054		1KS19ME010
1KS19CS043		1KS19EC036	1KS19CS049		1KS19EC042	1KS19CS055		1KS19ME011
1KS19CS044		1KS19EC037	1KS19CS050		1KS19EC043	1KS19CS056		1KS19ME013
1KS19CS045		1KS19EC038	1KS19CS051		1KS19EC044	1KS19CS057		1KS19ME014
1KS19CS046		1KS19EC039	1KS19CS052		1KS19EC045	1KS19CS058		1KS19ME015

VII CS 'A' SEC Total = 18  
 VII EC 'A' SEC Total = 12  
 VII ME 'A' SEC Total = 06

  
**ACADEMIC COORDINATOR**  
 Head of the Department  
 Dept. of Mechanical Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

  
**PRINCIPAL** 19/10/22  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109



**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**VII SEM 2018 SCHEME**  
**FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)**

ROOM No: 205


**BLACK BOARD**

VII 'A & B' CS	VII 'A' EC	VII 'B' CS	VII 'A' EC	VII 'B' CS	VII 'A' ME
1KS18CS011	1KS19EC046	1KS19CS060	1KS19EC052	1KS19CS066	1KS19ME016
1KS19CS116	1KS19EC047	1KS19CS061	1KS19EC053	1KS19CS067	1KS19ME017
1KS20CS400	1KS19EC048	1KS19CS062	1KS19EC054	1KS19CS068	1KS19ME018
1KS20CS404	1KS19EC049	1KS19CS063	1KS19EC055	1KS19CS069	1KS19ME019
1KS20CS402	1KS19EC050	1KS19CS064	1KS19EC056	1KS19CS070	1KS19ME020
1KS19CS059	1KS19EC051	1KS19CS065	1KS19EC057	1KS19CS071	1KS19ME021

VII CS 'A' SEC Total = 05    VII CS 'B' SEC TOTAL = 13

VII EC 'A' SEC Total = 12

VII ME 'A' SEC Total = 06

  
**ACADEMIC COORDINATOR**  
 Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

  
 19/10/22  
**PRINCIPAL**  
 K.S INSTITUTE OF TECHNOLOG  
 BENGALURU - 560 109

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**VII SEM 2018 SCHEME**  
**FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)**

ROOM No: 206

**BLACK BOARD**

VII 'B' CS	VII 'A' EC	VII 'B' CS	VII 'A & B' EC	VII 'A' ME	VII 'B' EC
1KS19CS072	1KS19EC058	1KS19CS078	1KS19EC085	1KS19ME022	1KS19EC071
1KS19CS073	1KS19EC059	1KS19CS079	1KS19EC088	1KS19ME023	1KS19EC073
1KS19CS074	1KS19EC061	1KS19CS080	1KS19EC067	1KS19ME024	1KS19EC074
1KS19CS075	1KS19EC082	1KS19CS081	1KS19EC068	1KS19ME025	1KS19EC075
1KS19CS076	1KS19EC083	1KS19CS082	1KS19EC069	1KS19ME026	1KS19EC076
1KS19CS077	1KS19EC064	1KS19CS083	1KS19EC070	1KS19ME027	1KS19EC077

VII CS 'B' SEC Total = 12

VII EC 'A' SEC Total = 08      VII EC 'B' SEC TOTAL = 10

VII ME 'A' SEC Total = 06

*[Signature]*  
 ACADEMIC COORDINATOR  
 Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

*[Signature]*  
 19/10/22  
 PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**VII SEM 2018 SCHEME**  
**FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)**

ROOM No: 207

**BLACK BOARD**

VII 'B' CS	VII 'B' EC	VII 'B' CS	VII 'B' EC	VII 'A' ME	VII 'B' EC
1KS19CS084	1KS19EC078	1KS19CS090	1KS19EC085	1KS19ME028	1KS19EC092
1KS19CS085	1KS19EC079	1KS19CS091	1KS19EC086	1KS19ME029	1KS19EC093
1KS19CS086	1KS19EC081	1KS19CS092	1KS19EC087	1KS19ME030	1KS19EC094
1KS19CS087	1KS19EC082	1KS19CS093	1KS19EC088	1KS19ME032	1KS19EC095
1KS19CS088	1KS19EC083	1KS19CS094	1KS19EC089	1KS19ME033	1KS19EC096
1KS19CS089	1KS19EC084	1KS19CS096	1KS19EC090	1KS19ME034	1KS19EC097

VII CS 'B' SEC Total = 12

VII EC 'B' SEC Total = 18

VII ME 'A' SEC Total = 06

*[Signature]*  
**ACADEMIC COORDINATOR**  
 Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

*[Signature]*  
**PRINCIPAL**  
 K.S. INSTITUTE OF TECHNOLOGY  
 BANGALURU - 560 109

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**VII SEM 2018 SCHEME**  
**FIRST INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)**

ROOM No: 208

**BLACK BOARD**

VII 'B' CS	VII 'B' EC	VII 'B' CS	VII 'B' EC	VII 'A' ME	VII 'B' EC & VII TCE
1KS19CS097	1KS19EC098	1KS19CS103	1KS19EC104	1KS19ME035	1KS20EC400
1KS19CS098	1KS19EC099	1KS19CS104	1KS19EC105	1KS19ME036	1KS20EC401
1KS19CS099	1KS19EC100	1KS19CS105	1KS19EC106	1KS19ME037	1KS20EC402
1KS19CS100	1KS19EC101	1KS19CS106	1KS19EC107	1KS19ME039	1KS18TE005
1KS19CS101	1KS19EC102	1KS19CS107	1KS19EC108	1KS19ME040	1KS19ET002
1KS19CS102	1KS19EC103	1KS19CS108	1KS18EC089	1KS18ME001	1KS19ET003

VII CS 'B' SEC Total = 12

VII EC 'B' SEC Total = 18

VII ME 'A' SEC Total = 06

*[Signature]*  
**ACADEMIC COORDINATOR**  
 Head of the Department  
 Dept. of Mechanical Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

*[Signature]*  
**PRINCIPAL**  
 19/10/22  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'A' for First Internal Test (2022-2023)**

Room No: 201

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	IKS19EC001	Anish	-AB-	Anish	Anish	Anish
2	IKS19EC002	Arun	Arun	Arun	Arun	Arun
3	IKS19EC003	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya
4	IKS19EC004	Aish	Aish	Aish	Aish	Aish
5	IKS19EC005	Ash	Ash	Ash	Ash	Ash
6	IKS19EC006	Akshay	Akshay	Akshay	Akshay	Akshay
7	IKS19EC007	Anvitha	Anvitha	Absent	Anvitha	-AB-
8	IKS19EC008	Amulya	Amulya	Amulya	Amulya	Amulya
9	IKS19EC009	Anitha	-AB-	Anitha	Anitha	Anitha
10	IKS19EC010	AB	Anjaliyit	Anjaliyit	Anjaliyit	Anjaliyit
11	IKS19EC011	AB	-AB-	Archana.M	Archana.M	Archana.M
12	IKS19EC012	Ash	Ash	Ash	Ash	Ash
13	IKS19EC014	Bhavya	Bhavya	Bhavya	Bhavya	Bhavya
14	IKS19EC015	Chaitrap	Chaitrap	Chaitrap	Chaitrap	Chaitrap
15	IKS19EC016	Chanda Regt	Chanda Regt	Chanda Regt	Chanda Regt	Chanda Regt
16	IKS19EC017	U.K.	U.K.	U.K.	U.K.	-AB-
17	IKS19EC018	Purni	-AB-	Purni	Purni	Purni
18	IKS19EC019	Chirathara	-AB-	Chirathara	Chirathara	Chirathara
DATE:		27/10/22	27/10/22	28/10/22	28/10/22	28/10/22
NO. OF STUDENTS PRESENT		16	18	17	18	16
NO. OF STUDENTS ABSENT		2	05	01	0	02
NAME OF INVIGILATOR		Beena K	Pallavi P	Kanya MS	Beena K	LK
SIGNATURE OF INVIGILATOR						

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'A' for First Internal Test (2022-2023)**

Room No: 203

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS19EC020	Nayya	Nayya	AB	Nayya	Nayya
2	1KS19EC021	<del>De</del>	AB	<del>De</del>	<del>De</del>	<del>De</del>
3	1KS19EC022	Devi	Devi	AB	Devi	Devi
4	1KS19EC023	AB	AB	Shrushti	Shrushti	Shrushti
5	1KS19EC024	<del>TKM</del>	<del>TKM</del>	<del>TKM</del>	<del>TKM</del>	<del>TKM</del>
6	1KS19EC025	Dikshu	Dikshu	Dikshu	Dikshu	Dikshu
7	1KS19EC027	Gall	Gall	Gall	Gall	Gall
8	1KS19EC028	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri
9	1KS19EC029	AB	AB	Siddhartha	Siddhartha	← AB →
10	1KS19EC030	<del>GS</del>	<del>GS</del>	AB	<del>GS</del>	<del>GS</del>
11	1KS19EC031	Harsh B	AB	Harsh B	Harsh B	Harsh B
12	1KS19EC032	B.Y.Hamish	B.Y.Hamish	B.Y.Hamish	B.Y.Hamish	B.Y.Hamish
DATE:		27/10/22	27/10/22	28/10/22	28/10/22	29/10/22
NO. OF STUDENTS PRESENT		10	03	09	12	11
NO. OF STUDENTS ABSENT		2	04	03	00	01
NAME OF INVIGILATOR		<del>H. Narasimha</del>	M. Ganesh	G. Anurag Kumar	Saleem S. Tahirani	Praveen
SIGNATURE OF INVIGILATOR		<del>H. Narasimha</del>	H. Ganesh	A. Anurag	SSTF	Praveen

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'A' for First Internal Test (2022-2023)**

Room No: 204

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS19EC033	<u>Prathap R</u>	<u>Prathap R</u>	<u>Prathap R</u>	<u>Prathap R</u>	<u>Prathap R</u>
2	1KS19EC035	<u>prathap</u>	<u>prathap</u>	<u>prathap</u>	<u>prathap</u>	<u>prathap</u>
3	1KS19EC036	<u>Jayath</u>	<u>Jayath</u>	<u>Jayath</u>	<u>Jayath</u>	<u>Jayath</u>
4	1KS19EC037	<u>Manogree</u>	<u>Manogree</u>	<u>Manogree</u>	<u>Manogree</u>	<u>Manogree</u>
5	1KS19EC038	<u>Geetha</u>	<u>Absent</u>	<u>Kavya</u>	<u>Kavya</u>	<u>Kavya</u>
6	1KS19EC039	<u>Prathap</u>	<u>Prathap</u>	<u>Prathap</u>	<u>Prathap</u>	<u>Prathap</u>
7	1KS19EC040	<u>Prathap</u>	<u>Prathap</u>	<u>Prathap</u>	<u>Prathap</u>	<u>Prathap</u>
8	1KS19EC041	<u>Krutika</u>	<u>Krutika</u>	<u>Krutika</u>	<u>Krutika</u>	<u>Krutika</u>
9	1KS19EC042	<u>Lakshankumar</u>	<u>Absent</u>	<u>Lakshankumar</u>	<u>Lakshankumar</u>	<u>Lakshankumar</u>
10	1KS19EC043	<u>Prathap H.</u>	<u>Prathap H.</u>	<u>Prathap H.</u>	<u>Prathap H.</u>	<u>Prathap H.</u>
11	1KS19EC044	<u>ABSENT</u>	<u>(M. Jothi)</u>	<u>(M. Jothi)</u>	<u>(M. Jothi)</u>	<u>(M. Jothi)</u>
12	1KS19EC045	<u>Mandhara</u>	<u>Mandhara</u>	<u>Mandhara</u>	<u>Mandhara</u>	<u>Mandhara</u>
<b>DATE:</b>		27/10/22	27/10/22	28/10/22	28/10/22	29/10/22
<b>NO. OF STUDENTS PRESENT</b>		11	10	12	12	12
<b>NO. OF STUDENTS ABSENT</b>		01	02	00	- Nil -	- 00 -
<b>NAME OF INVIGILATOR</b>		<u>Krishna</u>	<u>Kavya MS</u>	<u>Dr B. Surekha</u>	<u>Pallavikn</u>	<u>Geetha R</u>
<b>SIGNATURE OF INVIGILATOR</b>		<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'A' for First Internal Test (2022-2023)**

Room No: 205

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	IKS19EC046	Mehp	Mehp.	-AB-	Mehp.	Mehp
2	IKS19EC047	-AB-	-AB	Palash	Palash	Palash
3	IKS19EC048	⊕	⊕	⊕	⊕	⊕
4	IKS19EC049	Monika	Monika	Monika	Monika	Monika
5	IKS19EC050	Mounshik	Mounshik	Mounshik	Mounshik	Mounshik
6	IKS19EC051	Quik	Quik	Quik	Quik	Quik
7	IKS19EC052	Nidhi	Nidhi	Nidhi	-AB-	(A) -
8	IKS19EC053	Nirargok	Nirargok	Nirargok	Nirargok	Nirargok
9	IKS19EC054	Nithin	Nithin	Nithin	Nithin	Nithin
10	IKS19EC055	Pavank	Pavank	Pavank	Pavank	Pavank
11	IKS19EC056	P.Mo	P.Mo	P.Mo	P.Mo	P.Mo
12	IKS19EC057	-AB-	Poojey	Poojey	Poojey	Poojey
DATE:		27/10/2022	27/10/22	28/10/2022	28/10/22	24/10/22
NO. OF STUDENTS PRESENT		10	11	11	11	11
NO. OF STUDENTS ABSENT		02	01	01	01	01
NAME OF INVIGILATOR		RAJESHWAR	Prashanth	Pallavi.KN	Proveen	mangarath
SIGNATURE OF INVIGILATOR		[Signature]	[Signature]	[Signature]	[Signature]	[Signature]




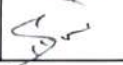
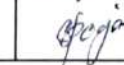


**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'A & B' for First Internal Test (2022-2023)**

Room No: 206

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	IKS19EC058	<del>Pradeep A</del>	<del>(AB)</del>	<del>Pradeep A</del>	<del>Pradeep A</del>	<del>Pradeep A</del>
2	IKS19EC059	<del>Pradeep A</del>	<del>(AB)</del>	<del>Pradeep A</del>	<del>Pradeep A</del>	<del>Pradeep A</del>
3	IKS19EC061	<del>(AB)</del>	<del>(AB)</del>	PSK	PSK	PSK
4	IKS19EC062	Praveena	Praveena	Praveena	Praveena	Praveena
5	IKS19EC063	<del>(AB)</del>	<del>(AB)</del>	<del>(AD)</del>	<del>Pradeep A</del>	<del>- AB -</del>
6	IKS19EC064	Pritya	Pritya	Pritya	Pritya	<del>- AB -</del>
7	IKS19EC065	Rachakishu	Rachakishu	Rachakishu	Rachakishu	Rachakishu
8	IKS19EC066	Rishi	Rishi	Rishi	Rishi	Rishi
9	IKS19EC067	<del>Pritya</del>	<del>Pritya</del>	<del>(AD)</del>	<del>Pritya</del>	<del>- AB -</del>
10	IKS19EC068	<del>(AB)</del>	<del>(AB)</del>	<del>Pritya</del>	<del>Pritya</del>	<del>Pritya</del>
11	IKS19EC069	Pohau L.P	Pohau L.P	<del>(AD)</del>	Pohau L.P	Pohau L.P
12	IKS19EC070	S.K.Paratesh	S.K.Paratesh	S.K.Paratesh	S.K.Paratesh	S.K.Paratesh
13	IKS19EC071	Sahana S	Sahana S	Sahana S	Sahana S	Sahana S
14	IKS19EC073	Sahana S	Sahana S	Sahana S	Sahana S	Sahana S
15	IKS19EC074	<del>(AB)</del>	<del>(AB)</del>	<del>(AD)</del>	<del>- AB -</del>	<del>- AB -</del>
16	IKS19EC075	Sarath	Sarath	Sarath	Sarath	Sarath
17	IKS19EC076	Santosh	Santosh	Santosh	Santosh	Santosh
18	IKS19EC077	Sarath	Sarath	Sarath	Sarath	Sarath
DATE:		27/10/22	27/10/22	27/10/22	28/10/2022	29/10/22
NO. OF STUDENTS PRESENT		14	12	14	17	14
NO. OF STUDENTS ABSENT		04	06	04	01	04
NAME OF INVIGILATOR		Pallavi R	Sakshi S. Jeyasami	Mr	RAJESH GL	Prayantkumar
SIGNATURE OF INVIGILATOR						

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'B' for First Internal Test (2022-2023)**

Room No: 207

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	IKS19EC078	Banitha	Banitha	Banitha	Banitha	AB.
2	IKS19EC079	UPE	UPE	UPE	UPE	UPE
3	IKS19EC081	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas
4	IKS19EC082	Shreyas B	Shreyas B.	Shreyas B.	Shreyas B.	Shreyas B.
5	IKS19EC083	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas
6	IKS19EC084	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas
7	IKS19EC085	AB	- AB -	← AB →	AB	AB
8	IKS19EC086	Shreyas MN	Shreyas MN	Shreyas MN	Shreyas MN	AB
9	IKS19EC087	Srinu	Srinu	Srinu	Srinu	Srinu
10	IKS19EC088	Srinu	Srinu	Srinu	Srinu	Srinu
11	IKS19EC089	Srinu R G	Srinu R G	Srinu R G	Srinu R G	Srinu R G
12	IKS19EC090	← AB →	- AB -	Subhas	Subhas	AB
13	IKS19EC092	Sumukha	Sumukha	Sumukha	Sumukha	Sumukha
14	IKS19EC093	Subhitha S	Subhitha S	Subhitha S	Subhitha S	AB
15	IKS19EC094	AB	AB	← AB →	AB	AB
16	IKS19EC095	← AB →	Swathi	Swathi	Swathi	AB.
17	IKS19EC096	Ruti	Ruti	Ruti	Ruti	Ruti
18	IKS19EC097	Tejashwini	Tejashwini	Tejashwini	Tejashwini	Tejashwini
DATE:		27/10/22	27/10/22	28/10/22	28/10/22	29/10/22
NO. OF STUDENTS PRESENT		16	16	16	18	13
NO. OF STUDENTS ABSENT		02	02	02	00	05
NAME OF INVIGILATOR		Praveen	Dr. B. Surekha	Pooja S.	LK	G. Anish Kumar
SIGNATURE OF INVIGILATOR						

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'B' for First Internal Test (2022-2023)**

Room No: 208

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	IKS19EC098	<del>Theetham</del>	<del>Theetham</del>	<del>Theetham</del>	<del>Theetham</del>	<del>Theetham</del>
2	IKS19EC099	← AB →	← AB →	← AB →	- AB -	- AB -
3	IKS19EC100	Vaishnank	Vaishnank	Vaishnank	Vaishnank	Vaishnank
4	IKS19EC101	Vandana	Vandana	Vandana	Vandana	Vandana
5	IKS19EC102	← AB →	Vandana.S	Vandana.S	Vandana.S	Vandana.S
6	IKS19EC103	R.vignesh	R.vignesh	R.vignesh	R.vignesh	R.vignesh
7	IKS19EC104	← AB →	← AB →	Dikar.S	Dikar.S	Dikar.S
8	IKS19EC105	← AB →	← AB →	<del>SS</del>	<del>SS</del>	<del>SS</del>
9	IKS19EC106	Clishal	Clishal	Clishal	Clishal	Clishal
10	IKS19EC107	Vishwas	Vishwas	Vishwas	Vishwas	Vishwas
11	IKS19EC108	← AB →	← AB →	Yashu	Yashu	Yashu
12	IKS18EC089	← AB →	← AB →	Snaha	Snaha	- AB -
13	IKS20EC400	<del>MVF</del>	← AB →	<del>MVF</del>	<del>MVF</del>	<del>MVF</del>
14	IKS20EC401	← AB →	Ranjana.P	Ranjana.P	Ranjana.P	- AB -
15	IKS20EC402	← AB →	← AB →	Bindu	Bindu	- AB -
DATE:		27/10/22	27/10/22	28/10/22	28/10/22	29/10/22
NO. OF STUDENTS PRESENT		07	08	14	14	11
NO. OF STUDENTS ABSENT		08	07	01	01	04
NAME OF INVIGILATOR		PS	LK	SST	<del>Pranav</del>	RAJESH GL
SIGNATURE OF INVIGILATOR		<i>PS</i>	<i>LK</i>	<i>SST</i>	<i>Pranav</i>	<i>Rajesh GL</i>

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Telecommunication Engineering**  
**Attendance of VII Sem for First Internal Test (2022-2023)**

Room No: 208

SL.NO	REGISTER NO.	OPTICAL COMMUNICATION (18TE71)	WIRELESS COMMUNICATION (18TE72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS18TE005	Ankitha	Ankitha	Ankitha	Ankitha	Ankitha
2	1KS19ET002	Gaitra C	Gaitra C	Gaitra C	Gaitra C	Gaitra C
3	1KS19ET003	AB	← AB →	<del>Nikhita</del>	<del>Nikhita</del>	- AB -
DATE: 27/10/22		27/10/22	27/10/22	28/10/22	28/10/22	29/10/22
NO. OF STUDENTS PRESENT		02	02	03	03	02
NO. OF STUDENTS ABSENT		01	01	00	00	01
NAME OF INVIGILATOR		PS	LK	SST	A. N. Srinivasan	RAJESH G L
SIGNATURE OF INVIGILATOR		<i>PS</i>	<i>LK</i>	<i>SST</i>	<i>A. N. Srinivasan</i>	<i>Rajesh G L</i>

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Telecommunication Engineering**  
**Attendance of VII Sem for First Internal Test (2022-2023)**

Room No: 209

SL.NO	REGISTER NO.	OPTICAL COMMUNICATION (18TE71)	WIRELESS COMMUNICATION (18TE72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	IKS19ET004	mahadev AC	mahadev AC	mahadev AC	mahadev AC	AB
2	IKS19ET005	AB	AB	AB	AB	AB
3	IKS19ET006	N. Nalbin	N. Nalbin	N. Nalbin	N. Nalbin	N. Nalbin
4	IKS19ET007	Nisrajan S. Rao	Nisrajan S. Rao	Nisrajan S. Rao	Nisrajan S. Rao	Nisrajan S. Rao
5	IKS19ET008	AB	← AB →	← AB →	AB	AB
6	IKS19ET009	Rohit Kumar	Rohit Kumar	Rohit Kumar	Rohit Kumar	AB
7	IKS19ET010	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas
8	IKS19ET011	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas
9	IKS19ET012	AB.	← AB →	AB	AB	AB
DATE:		27/10/22	29/10/22	28/10/22	28/10/22	29/10/22
NO. OF STUDENTS PRESENT		06	07	08	08	05
NO. OF STUDENTS ABSENT		03	02	01	01	04
NAME OF INVIGILATOR		G. Anand Kumar	PS	Geetha R	G. Anand Kumar	Krishna G
SIGNATURE OF INVIGILATOR		G. Anand Kumar	PS	Geetha R	G. Anand Kumar	Krishna G



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022 – 23 ODD SEMESTER**

SET: A

Degree : B. E  
Branch : ECE  
Course Title : Energy and Environment  
Duration : 90 Minutes

USN									
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Semester : VII A & B  
Course Code : 18ME751  
Date : 29-10-2022  
Max Marks : 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	<b>Interpret</b> World Energy Scenario with respect to production and consumption using relevant statistics.	12	CO1	K2
	<b>Explain</b> primary energy demand in India by fuel with sector wise comparison.	6	CO1	K2
<b>OR</b>				
2(a)	<b>Illustrate</b> how the following factors effects the energy development in India: <ul style="list-style-type: none"><li>• Energy prices and Affordability</li><li>• Social and environmental aspects</li><li>• Investments</li></ul>	12	CO1	K2
(b)	<b>Explain:</b> (i) The Rajiv Gandhi Grameena Vidyutikaran Yojana (RGGVY) (ii) Deen Dayal Upadhyana Grama Jyoti Yojana (DDUDJY) (iii) Energy Production in India - Coal (only)	6	CO1	K2
<b>PART-B</b>				
3(a)	<b>Identify</b> and explain the factors relevant to energy pricing.	6	CO2	K3
	<b>Calculate</b> the cost of generation per kWh for a power station having the following data: Installed capacity of the plant = 200 MW Capital cost = Rs 400 crores Rate of interest and depreciation = 12% Annual cost of fuel, salaries, and taxation = Rs 5 crores Load factor = 50%	6	CO2	K3
<b>OR</b>				
4(a)	<b>Identify</b> the principles of energy management system	6	CO2	K3
(b)	Identify and explain 10 steps methodology for detailed Energy Audit.	6	CO2	K3

  
Course In charge

  
Module Coordinator

  
HOD ECE

  
Principal  
Subscribed



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022 – 23 ODD SEMESTER**

SET: B

USN 

--	--	--	--	--	--	--	--	--	--

Degree : B. E  
Branch : ECE  
Course Title : Energy and Environment  
Duration : 90 Minutes

Semester : VII A& B  
Course Code : 18ME751  
Date : 29-10-2022  
Max Marks : 30

**Note: Answer ONE full question from each part.**

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	<b>Summarize</b> with relevant statistics, the primary energy production and trade trend for India.	12	CO1	K2
(b)	<b>Compare</b> Energy and Power.	6	CO1	K2
<b>OR</b>				
2(a)	<b>Illustrate</b> how economy, demographics, policies, and framework effects the energy development in India.	12	CO1	K2
(b)	<b>Summarize</b> the India's rural electrification programme relevant to modern energy access.	6	CO1	K2
<b>PART-B</b>				
3(a)	<b>Identify</b> the need for energy audit, preliminary audit, and detailed audit.	6	CO2	K3
(b)	<b>Calculate</b> the cost of generation per kWh for a power station having the following data: Installed capacity of the plant = 200 MW Capital cost = Rs 400 crores Rate of interest and depreciation = 12% Annual cost of fuel, salaries, and taxation = Rs 5 crores Load factor = 60%	6	CO2	K3
<b>OR</b>				
4(a)	<b>Identify</b> the need for energy demand estimation.	6	CO2	K3
(b)	Identify and explain various phases of energy audit methodology	6	CO2	K3

  
Course In charge

  
Module Coordinator

  
HOD ECE

  
Principal



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

## VII SEM (2018 SCHEME)

II SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 21-11-2022

DATE	TIME	COMPUTER SCIENCE AND ENGG	ELECTRONICS AND COMMUNICATION ENGG	ELECTRONICS AND TELECOMMUNICATION ENGG	MECHANICAL ENGG
28-11-2022 MONDAY	9.30 AM TO 11.00 AM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (18CS71)	COMPUTER NETWORKS (18EC71)	OPTICAL COMMUNICATION (18TE71)	CONTROL ENGINEERING (18ME71)
	2.00 PM TO 3.30 PM	BIG DATA ANALYTICS (18CS72)	VLSI DESIGN (18EC72)	WIRELESS COMMUNICATION (18TE72)	COMPUTER AIDED DESIGN & MANUFACTURING (18ME72)
29-11-2022 TUESDAY	9.30 AM TO 11.00 AM	USER INTERFACE DESIGN (18CS734)	SATELLITE COMMUNICATION (18EC732)	SATELLITE COMMUNICATION (18EC732)	TOTAL QUALITY MANAGEMENT (18ME734)
	2.00 PM TO 3.30 PM	CRYPTOGRAPHY (18CS744)	CRYPTOGRAPHY (18EC744)	CRYPTOGRAPHY (18EC744)	ADDITIVE MANUFACTURING (18ME741)
30-11-2022 WEDNESDAY	9.30 AM TO 11.00 AM	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	PYTHON APPLICATION PROGRAMMING (18CS752)
	11.30 AM ONWARDS	REGULAR CLASSES / LABS WILL BE HELD			

NOTE: All the students are strictly informed to wear LAB uniforms, College ID Card is compulsory during the test.

*[Signature]*  
21/11/22  
ACADEMIC COORDINATOR

Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

*[Signature]*  
21/11/22  
PRINCIPAL  
PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109


## VII SEMESTER SECOND SESSIONAL TEST INVIGILATION DUTY (2022-2023)

Date	Timings	201	203	204	205	206	207	208	209
28-11-2022 MONDAY	9:30 am to 11:00 am	PA (ECE)	HU (ME)	KG (CSE)	NM (ME)	KMS (CSE)	SST (ECE)	RGL (ME)	LK (CSE)
	2:00 pm to 3:30 pm	MBR (ME)	VM (CSE)	PA (ECE)	AKG (ECE)	PHS (CSE)	BK (CSE)	MN (BS)	MKS (CSE)
29-11-2022 TUESDAY	9:30 am to 11:00 am	MBR (ME)	ST (CSE)	PHS (CSE)	AKG (ECE)	SG (CSE)	NP (CSE)	PS (ECE)	CJ (ECE)
	2:00 pm to 3:30 pm	SD (CSE)	NV (BS)	NM (ME)	PR (CSE)	VD (ECE)	RGL (ME) <sup>(RM)</sup>	PS (ECE)	LK (CSE)
30-11-2022 WEDNESDAY	9:30 am to 11:00 am	AMV (BS)	PR (CSE)	BK (CSE)	GR (CSE)	MBR (ME)	NP (CSE)	SST (ECE)	SKS (ECE)

NOTE : BLUE BOOK & QUESTION PAPER WILL BE DISTRIBUTED IN VLSI LAB OLD BUILDING 2RD FLOOR

<b>Invigilators :</b>	Dr. Vijayalaxmi M	VM		Mr. Harish U	HU
	Mr. Sanjoy Das	SD		Mrs. Anuradha M V	AMV
	Mr. Krishna Gudi	KG		Mrs. Nagabhushana M	NM
	Mr. Prashanth HS	PHS		Mr. Rajesh G L	RGL
	Mrs. Beena K	BK		Mr. Prashanth H S	PHS
	Mr. Manoj Kumar S	MKS		Mr. Manjunath B R	MBR
	Mrs. Geetha R	GR		Mr.Praveen.A	PA
	Mrs. Kavya M S	KMS		Mr.Saleem.S.Tevaramani	SST
	Mr. Somasekhar T	ST		Ms.Pooja.S	PS
	Mrs. Supreetha Ganesh	SG		Mr.Ashwini Kumar	AKG
	Mrs. Pallavi R	PR		Mr.Christo Jain	CJ
	Mr. Laxmikantha K	LK		Mr.Sampath Kumar.S	SKS
	Mrs. Namyapriya	NP		Ms.Vishalini Divakar	VD
	Mr.Naveen.V	NV		Ms.Mamatha.N	MN

  
 ACADEMIC COORDINATOR  
 Dept. of Mechanical Engg.

  
 PRINCIPAL

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## VII SEM 2018 SCHEME

### SECOND INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

Room No: 201

BLACK BOARD

VII 'B' CS	VII 'B' EC	VII 'B' CS	VII 'B' EC	VII 'A' ME	VII 'B' EC
1KS19CS097	1KS19EC098	1KS19CS103	1KS19EC104	1KS19ME035	1KS20EC400
1KS19CS098	1KS19EC099	1KS19CS104	1KS19EC105	1KS19ME036	1KS20EC401
1KS19CS099	1KS19EC100	1KS19CS105	1KS19EC106	1KS19ME037	1KS20EC402
1KS19CS100	1KS19EC101	1KS19CS106	1KS19EC107	1KS19ME039	
1KS19CS101	1KS19EC102	1KS19CS107	1KS19EC108	1KS19ME040	
1KS19CS102	1KS19EC103	1KS19CS108	1KS18EC089	1KS18ME001	

VII CS 'B' SEC Total = 12

VII EC 'B' SEC Total = 15

VII ME 'A' SEC Total = 06

*M. S. Kumar*  
23/11/22  
ACADEMIC COORDINATOR

Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bangalore - 560 109

*M. S. Kumar*  
PRINCIPAL

PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BANGALURU - 560 109

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**VII SEM 2018 SCHEME**  
**SECOND INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)**

**Room No: 204**

**BLACK BOARD**

VII 'A' CS	VII 'A' EC
1KS19CS001	1KS19EC001
1KS19CS002	1KS19EC002
1KS19CS003	1KS19EC003
1KS19CS004	1KS19EC004
1KS19CS005	1KS19EC005
1KS19CS006	1KS19EC006

VII 'A' CS	VII 'A' EC
1KS19CS007	1KS19EC007
1KS19CS009	1KS19EC008
1KS19CS010	1KS19EC009
1KS19CS011	1KS19EC010
1KS19CS012	1KS19EC011
1KS19CS014	1KS19EC012

VII 'A' CS	VII 'A' EC
1KS19CS015	1KS19EC014
1KS19CS016	1KS19EC015
1KS19CS017	1KS19EC016
1KS19CS018	1KS19EC017
1KS19CS019	1KS19EC018
1KS19CS020	1KS19EC019

**VII CS 'A' SEC Total = 18**

**VII EC 'A' SEC Total = 18**

*[Signature]*  
 23/11/22  
**ACADEMIC COORDINATOR**  
 Head of the Department  
 Dept. of Mechanical Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109

*[Signature]*  
**PRINCIPAL**  
 - PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## VII SEM 2018 SCHEME

### SECOND INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

Room No: 205

BLACK BOARD

VII 'A' CS	VII 'A' EC	VII 'A' CS	VII 'A' EC	VII 'A' CS	VII 'A' ME
1KS19CS021	1KS19EC020	1KS19CS028	1KS19EC027	1KS19CS034	1KS19ME001
1KS19CS022	1KS19EC021	1KS19CS029	1KS19EC028	1KS19CS035	1KS19ME002
1KS19CS023	1KS19EC022	1KS19CS030	1KS19EC029	1KS19CS036	1KS19ME003
1KS19CS024	1KS19EC023	1KS19CS031	1KS19EC030	1KS19CS038	1KS19ME004
1KS19CS025	1KS19EC024	1KS19CS032	1KS19EC031	1KS19CS039	1KS19ME005
1KS19CS026	1KS19EC025	1KS19CS033	1KS19EC032	1KS19CS040	1KS19ME008

VII CS 'A' SEC Total = 18

VII EC 'A' SEC Total = 12

VII ME 'A' SEC Total = 06

  
23/11/22  
ACADEMIC COORDINATOR

Head of the Department  
Dept. of Mechanical Engg  
K.S. Institute of Technology  
Bengaluru - 560 109



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BENGALURU - 560 109

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## VII SEM 2018 SCHEME

### SECOND INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

Room No: 206

BLACK BOARD

VII 'A' CS	VII 'A' EC	VII 'A' CS	VII 'A' EC	VII 'A' CS	VII 'A' ME
1KS19CS041	1KS19EC033	1KS19CS047	1KS19EC040	1KS19CS053	1KS19ME009
1KS19CS042	1KS19EC035	1KS19CS048	1KS19EC041	1KS19CS054	1KS19ME010
1KS19CS043	1KS19EC036	1KS19CS049	1KS19EC042	1KS19CS055	1KS19ME011
1KS19CS044	1KS19EC037	1KS19CS050	1KS19EC043	1KS19CS056	1KS19ME013
1KS19CS045	1KS19EC038	1KS19CS051	1KS19EC044	1KS19CS057	1KS19ME014
1KS19CS046	1KS19EC039	1KS19CS052	1KS19EC045	1KS19CS058	1KS19ME015

VII CS 'A' SEC Total = 18

VII EC 'A' SEC Total = 12

VII ME 'A' SEC Total = 06

*J. Kumar*  
23/11/22  
ACADEMIC COORDINATOR

Head of the  
Dept. of Mechanical Engg  
K.S. Institute of Technology  
Bangalore - 560 109.

*J. Kumar*  
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# K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## VII SEM 2018 SCHEME

### SECOND INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

ROOM No: 207

#### BLACK BOARD

VII 'A & B' CS	VII 'A' EC
1KS18CS011	1KS19EC046
1KS19CS116	1KS19EC047
1KS20CS400	1KS19EC048
1KS20CS404	1KS19EC049
1KS20CS402	1KS19EC050
1KS19CS059	1KS19EC051

VII 'B' CS	VII 'A' EC
1KS19CS060	1KS19EC052
1KS19CS061	1KS19EC053
1KS19CS062	1KS19EC054
1KS19CS063	1KS19EC055
1KS19CS064	1KS19EC056
1KS19CS065	1KS19EC057

VII 'B' CS	VII 'A' ME
1KS19CS066	1KS19ME016
1KS19CS067	1KS19ME017
1KS19CS068	1KS19ME018
1KS19CS069	1KS19ME019
1KS19CS070	1KS19ME020
1KS19CS071	1KS19ME021

VII CS 'A' SEC Total = 05      VII CS 'B' SEC TOTAL = 13

VII EC 'A' SEC Total = 12

VII ME 'A' SEC Total = 06

*J. Manjunath*  
23/11/22

**ACADEMIC COORDINATOR**  
Head of the Department  
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K.S. Institute of Technology  
Bengaluru - 560 109.

*Shrimali S*

**PRINCIPAL**  
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# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## VII SEM 2018 SCHEME

### SECOND INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)

Room No: 208

BLACK BOARD

VII 'B' CS	VII 'A' EC	VII 'B' CS	VII 'A & B' EC	VII 'A' ME	VII 'B' EC
1KS19CS072	1KS19EC058	1KS19CS078	1KS19EC065	1KS19ME022	1KS19EC071
1KS19CS073	1KS19EC059	1KS19CS079	1KS19EC066	1KS19ME023	1KS19EC073
1KS19CS074	1KS19EC061	1KS19CS080	1KS19EC067	1KS19ME024	1KS19EC074
1KS19CS075	1KS19EC062	1KS19CS081	1KS19EC068	1KS19ME025	1KS19EC075
1KS19CS076	1KS19EC063	1KS19CS082	1KS19EC069	1KS19ME026	1KS19EC076
1KS19CS077	1KS19EC064	1KS19CS083	1KS19EC070	1KS19ME027	1KS19EC077

VII CS 'B' SEC Total = 12

VII EC 'A' SEC Total = 08 VII EC 'B' SEC TOTAL = 10

VII ME 'A' SEC Total = 06

  
ACADEMIC COORDINATOR

Head of the Dept.  
Dept. of Mechanical Engineering  
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Bangalore - 560 109

  
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BENGALURU - 560 109

**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**VII SEM 2018 SCHEME**  
**SECOND INTERNAL TEST SEATING ARRANGEMENT (ODD SEMESTER - 2022-2023)**

Room No: 209

BLACK BOARD

VII 'B' CS		VII 'B' EC	VII 'B' CS		VII 'B' EC	VII 'A' ME		VII 'B' EC
1KS19CS084		1KS19EC078	1KS19CS090		1KS19EC085	1KS19ME028		1KS19EC092
1KS19CS085		1KS19EC079	1KS19CS091		1KS19EC086	1KS19ME029		1KS19EC093
1KS19CS086		1KS19EC081	1KS19CS092		1KS19EC087	1KS19ME030		1KS19EC094
1KS19CS087		1KS19EC082	1KS19CS093		1KS19EC088	1KS19ME032		1KS19EC095
1KS19CS088		1KS19EC083	1KS19CS094		1KS19EC089	1KS19ME033		1KS19EC096
1KS19CS089		1KS19EC084	1KS19CS096		1KS19EC090	1KS19ME034		1KS19EC097

**VII CS 'B' SEC Total = 12**

**VII EC 'B' SEC Total = 18**

**VII ME 'A' SEC Total = 06**

*J. Manjunath*  
 23/11/22  
**ACADEMIC COORDINATOR**  
 Head of the Department  
 Dept. of Mechanical Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

*A. N. M. C.*  
**PRINCIPAL**  
 PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 - BANGALURU - 560 109



**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'A' for Second Internal Test (2022-2023)**

Room No: 204

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS19EC001	A	Amud	AB	Amud	Amud
2	1KS19EC002	A	←AB→	AB	-AB-	Amud
3	1KS19EC003	dishuwaraj	dishuwaraj	dishuwaraj	dishuwaraj	dishuwaraj
4	1KS19EC004	dishl	dishl	dishl	dishl	dishl
5	1KS19EC005	A	←AB→	AB	-AB-	dishl
6	1KS19EC006	Alankar	Alankar	Alankar	Alankar	Alankar
7	1KS19EC007	Amrutha	Amrutha	Amrutha	Amrutha	Amrutha
8	1KS19EC008	Amulya	Amulya	Amulya	Amulya	Amulya
9	1KS19EC009	A	Anitha	Anitha	-AB-	Anitha
10	1KS19EC010	Anjali	Anjali	AB	Anjali	Anjali
11	1KS19EC011	Archana	Archana	AB	-AB-	Archana
12	1KS19EC012	Ash	Ash	Ash	Ash	Ash
13	1KS19EC014	A	←AB→	AB	Bharg	Bharg
14	1KS19EC015	chaitray	chaitray	AB	-AB-	chaitray
15	1KS19EC016	chanda Raj	chanda Raj	chanda Raj	chanda Raj	chanda Raj
16	1KS19EC017	A	←AB→	AB	-AB-	LH
17	1KS19EC018	A	Pranj	AB	Pranj	Pranj
18	1KS19EC019	A	←AB→	AB	-AB-	←AB→
DATE:		28/11/22	28/11/22	29/11/22	29/11/22	30/11/22
NO. OF STUDENTS PRESENT		10	13	08	11	17
NO. OF STUDENTS ABSENT		08	05	10	7	1
NAME OF INVIGILATOR		Krishna Gali	Raveer.A	Prashanth	T.Narasimhan	Beene.K
SIGNATURE OF INVIGILATOR		Kgali	Raveer	Prashanth	T.Narasimhan	Beene.K

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'A' for Second Internal Test (2022-2023)**

Room No: 205

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	IKS19EC020	-AB-	Nayy	Nayy	-AB-	Nayy
2	IKS19EC021	<del>AB</del>	<del>AB</del>	<del>AB</del>	-AB-	<del>AB</del>
3	IKS19EC022	gauri	gauri	gauri	-AB-	gauri
4	IKS19EC023	-AB-	Shruthi	Shruthi	-AB-	Shruthi
5	IKS19EC024	<del>AB</del>	<del>AB</del>	<del>AB</del>	<del>AB</del>	<del>AB</del>
6	IKS19EC025	Dishank	Dishank	Dishank	Dishank	Dishank
7	IKS19EC027	-AB-	(AB)	-AB-	-AB-	haall
8	IKS19EC028	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri
9	IKS19EC029	-AB-	Riddala	-AB-	Riddala	Riddala
10	IKS19EC030	-AB-	<del>AB</del>	<del>AB</del>	<del>AB</del>	<del>AB</del>
11	IKS19EC031	-AB-	Harsh B	Harsh B	Harsh B	Harsh B
12	IKS19EC032	B.Y.Harsh	B.Y.Harsh	B.Y.Harsh	B.Y.Harsh	B.Y.Harsh
DATE:		28/11/22	28/11/22	29/11/22	29/11/22	30/11/22
NO. OF STUDENTS PRESENT		6	11	10	07	12
NO. OF STUDENTS ABSENT		6	1	2	05	0
NAME OF INVIGILATOR		A. Narasimhan	Surra.S.	G. Anand Kumar	Pallavi R	Geetha.R
SIGNATURE OF INVIGILATOR						

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'A' for Second Internal Test (2022-2023)**

Room No: 206

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	IKS19EC033	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
2	IKS19EC035	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
3	IKS19EC036	Jayath	Jayath	Jayath	Jayath	Jayath
4	IKS19EC037	Manogna	Manogna	Manogna	Manogna	Manogna
5	IKS19EC038	← AB →	<i>[Signature]</i>	AB	← AB →	- A5 -
6	IKS19EC039	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	← AB →	<i>[Signature]</i>
7	IKS19EC040	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
8	IKS19EC041	B.	B.	B.	← AB →	B.
9	IKS19EC042	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
10	IKS19EC043	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
11	IKS19EC044	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
12	IKS19EC045	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
DATE:		28/11/2022	28/11/22	29/11/22	29/11/22	3-11/22
NO. OF STUDENTS PRESENT		11	11	10	09	11
NO. OF STUDENTS ABSENT		01	00	01	03	01
NAME OF INVIGILATOR		PALLAVIKA	Pradhant	Suproetha	Pooja S.	<i>[Signature]</i>
SIGNATURE OF INVIGILATOR		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'A' for Second Internal Test (2022-2023)**

Room No: 207

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	IKS19EC046	Malya	Malya	Malya	— AB —	Absent
2	IKS19EC047	Rathee	Rathee	Rathee	Rathee	Rathee
3	IKS19EC048	<del>(AB)</del>	Absent	Absent	— AB —	Absent
4	IKS19EC049	Monika	Monika	Monika	Monika	Monika
5	IKS19EC050	<del>(AB)</del>	Absent	Absent	— AB —	Monishk
6	IKS19EC051	Quik	Quik	Quik	Quik	Quik
7	IKS19EC052	<del>(AB)</del>	Absent	Nidhi D	Nidhi D	Nidhi D
8	IKS19EC053	Niranjana	Niranjana	Niranjana	Niranjana	Absent
9	IKS19EC054	Nithin D	Nithin D	Nithin D	Nithin D	Nithin D
10	IKS19EC055	Pavank	Pavank	Pavank	Pavank	Pavank
11	IKS19EC056	P.M. W	P.M. W	P.M. W	P.M. W	P.M. W
12	IKS19EC057	Poojary	Poojary	Poojary	— AB —	Poojary
DATE:		28/11/22	28/11/22	29/11/22	29/11/22	30/11/22
NO. OF STUDENTS PRESENT		09	09	10	08	09
NO. OF STUDENTS ABSENT		03	03	02	04	03
NAME OF INVIGILATOR		Saleem S. Tevankari	Ranjana	Ranjana	Ranjana C.W	Ranjana
SIGNATURE OF INVIGILATOR		SST	Ranjana	Ranjana	R	Ranjana

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'A & B' for Second Internal Test (2022-2023)**

Room No: 208

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	IKS19EC058	<del>Pradeep A</del>	<del>Pradeep A</del>	<del>Pradeep A</del>	<del>Pradeep A</del>	<del>Pradeep A</del>
2	IKS19EC059	<del>Pradeep A</del>	<del>Pradeep A</del>	<del>Pradeep A</del>	<del>Pradeep A</del>	<del>Pradeep A</del>
3	IKS19EC061	- AB -	- AB -	← AB →	← AB →	PSE
4	IKS19EC062	Praveena	Praveena	Praveena	Praveena	Praveena
5	IKS19EC063	- AB -	← AB -	← AB →	<del>Pradeep A</del>	<del>Pradeep A</del>
6	IKS19EC064	Priya	Priya	Priya	Priya	Priya
7	IKS19EC065	- AB -	Rachidul	← AB →	Rachidul	← AB →
8	IKS19EC066	Rishi	Rishi	Rishi	Rishi	Rishi
9	IKS19EC067	Rishi	Rishi	Rishi	Rishi	← AB →
10	IKS19EC068	Rishi	Rishi	Rishi	Rishi	Rishi
11	IKS19EC069	Rohan R	Rohan R	Rohan R	← AB →	Rohan R
12	IKS19EC070	S.K.Pratish	S.K.Pratish	S.K.Pratish	S.K.Pratish	S.K.Pratish
13	IKS19EC071	- AB -	- AB -	Sahana S	Sahana S	Sahana S
14	IKS19EC073	Sahana S	Sahana S	Sahana S	← AB →	Sahana S
15	IKS19EC074	Saipriya	Saipriya	Saipriya	Saipriya	Saipriya
16	IKS19EC075	- AB -	← AB →	← AB →	Ramul	← AB →
17	IKS19EC076	Santosh	Santosh	Santosh	Santosh	Santosh
18	IKS19EC077	Santosh	Santosh	Santosh	Santosh	Santosh
DATE:		28/11/2022	28/11/2022	29/11/2022	29/11/22	30/11/22
NO. OF STUDENTS PRESENT		13	14	14	15	15
NO. OF STUDENTS ABSENT		05	04	04	03	03
NAME OF INVIGILATOR		RAJESHA	MAMATHA-N	Pooja S.	VD	Sahana S. Tevinamani
SIGNATURE OF INVIGILATOR		Rajesh	Mamatha	Pooja	VD	SST4

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'B' for Second Internal Test (2022-2023)**

Room No: 209

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS19EC078	Ranitha	Ranitha	Ranitha	Ranitha	Ranitha
2	1KS19EC079	AB	AB	AB	Absent	- AB -
3	1KS19EC081	Shreyas	Shreyas	AB	Shreyas	- AB -
4	1KS19EC082	Shreyas B.	Shreyas B.	Shreyas B.	Shreyas B.	Shreyas B.
5	1KS19EC083	AB	Shreyas	AB	Shreyas	- AB -
6	1KS19EC084	AB	AB	Shreyas VB	Shreyas	Shreyas
7	1KS19EC085	Shul	Shul	Shul	Shul	Shul
8	1KS19EC086	sincham MN	sincham MN	sincham MN	sincham MN	sincham MN
9	1KS19EC087	AB	Saisri	Saisri	Saisri	Saisri
10	1KS19EC088	AB	AB	AB	Absent	- AB -
11	1KS19EC089	AB	Sarvam	Sarvam	Sarvam	Sarvam
12	1KS19EC090	Subha	Subha	AB	Subha	Subha
13	1KS19EC092	Sumukha	Sumukha	Sumukha	Sumukha	- AB -
14	1KS19EC093	Sushmita	Sushmita	Sushmita	Sushmita	Sushmita
15	1KS19EC094	AB	AB	AB	AB	AB
16	1KS19EC095	Swathi	Swathi	Swathi	Swathi	Swathi
17	1KS19EC096	Rut	Rut	Rut	Rut	Rut
18	1KS19EC097	Tejashwini	Tejashwini	Tejashwini	Tejashwini	Tejashwini
DATE:		28/11/22	28/11/22	29/11/22	29/11/22	30/11/22
NO. OF STUDENTS PRESENT		11	15	13	16	13
NO. OF STUDENTS ABSENT		7	03	05	02	05
NAME OF INVIGILATOR		Beena.k	MKS	Christo	Nanya Priga	Sampath
SIGNATURE OF INVIGILATOR		B	M	C	N	S

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'B' for Second Internal Test (2022-2023)**

Room No: 201

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC73)	CRYPTOGRAPHY (18EC74)	ENERGY AND ENVIRONMENT (18ME75)
1	IKS19EC098	← AB →	<del>Theethyana</del>	-A-	<del>Theethyana</del>	-AB-
2	IKS19EC099	Tushaf	Tushaf	Tushaf	ABSENT	Tushaf
3	IKS19EC100	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi
4	IKS19EC101	Vandana	Vandana	Vandana	Vandana	Vandana
5	IKS19EC102	Vandana	Vandana	Vandana	Vandana	Vandana
6	IKS19EC103	R. Vigneshkumar	R. Vigneshkumar	R. Vigneshkumar	R. Vigneshkumar	R. Vigneshkumar
7	IKS19EC104	← AB →	(A) -	- AB -	ABSENT	-AB- Vikal
8	IKS19EC105	K	(A) -	- A -	A	ABAB
9	IKS19EC106	Ushal	Ushal	Ushal	Ushal	Ushal
10	IKS19EC107	← AB →	Vishwasath	Vishwasath	Vishwasath	Vishwasath
11	IKS19EC108	← AB →	(A) -	Yashu	Yashu	Yashu
12	IKS18EC089	Sreha.n	Sreha.n	Sreha.n	ABSENT	Sreha.n
13	IKS20EC400	← AB →	MVF	-A-	ABSENT	MVF
14	IKS20EC401	Ranjana.P	Ranjana.P	-A-	Ranjana.P	Ranjana.P
15	IKS20EC402	Binah	Binah	Binah	Binah	Binah
DATE:		28/11/22	28/11/22	29/11/22	29/11/22	30/11/22
NO. OF STUDENTS PRESENT		10	12	10	11	12
NO. OF STUDENTS ABSENT		05	03	05	04	02
NAME OF INVIGILATOR		Praveen.A	MBO	MU	SANJOY DAS	Muradhar
SIGNATURE OF INVIGILATOR						

USN

Degree : B.E  
Branch : ECE  
Course Title : Energy and Environment  
Duration : 90 Minutes

Semester: VII  
Course Code: 18ME751  
Date: 30/11/2022  
Max Marks: 30

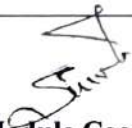
Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating


Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	Explain Environment, its scope and the need for public awareness	6	CO3	K2
(b)	Interpret how water cycle is utilized in the ecosystem.	6	CO3	K2
(c)	Illustrate grassland ecosystem. What are its types? How conservation of grassland can be made.	6	CO3	K2
OR				
2(a)	Explain the food chain process. Write a short note on food web.	6	CO3	K2
(b)	Interpret the utilization of carbon in ecosystem	6	CO3	K2
(c)	Illustrate aquatic ecosystem and its types.	6	CO3	K2
<b>PART-B</b>				
3(a)	Make use of the packed bed storage and storage wall technology to explain thermal energy storage.	6	CO2	K3
(b)	Summarize the effects of air pollution on living organisms	6	CO4	K2
4(a)	Identify the types of Thermal energy storage systems. Write short notes.	6	CO2	K3
(o)	Summarize the causes of water pollution and control measures to prevent water pollution	6	CO4	K2



Course in charge



Module Coordinator



HOD



Principal



USN

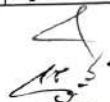
**Degree : B.E**  
**Branch : ECE**  
**Course Title : Energy and Environment**  
**Duration : 90 Minutes**

**Semester: VII**  
**Course Code: 18ME751**  
**Date: 30/11/22**  
**Max Marks: 30**


Note: Answer **ONE full** question from each part.

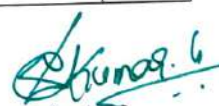
K-Levels: K1-Remebering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	Outline the aspects of ecosystem and oxygen cycle.	6	CO3	K2
(b)	Explain forest ecosystem. What are its types? How conservation of forest can be made.	6	CO3	K2
(c)	Explain ecological pyramid and ecological succession.	6	CO3	K2
<b>OR</b>				
2(a)	Outline the importance and scope of environmental studies.	6	CO3	K2
(b)	Explain the utilization of nitrogen in ecosystem.	6	CO3	K2
(c)	Explain the desert ecosystem. What are its types?	6	CO3	K2
<b>PART-B</b>				
3(a)	Identify the sensible heat and latent heat storage methods	6	CO2	K3
(b)	Explain the effects of ozone depletion and air pollution on plants and materials.	6	CO4	K2
4(a)	Identify the benefits of energy storage systems, the 3 processes in general in energy storage systems, the advantages, and disadvantages of Thermal Energy Storage systems.	6	CO2	K3
(b)	Explain the causes of air Pollution and control measures to prevent air pollution.	6	CO4	K2

  
Course in charge

  
Module Coordinator

  
HOD

  
Principal  
*Silvata d.*

# K.S. INSTITUTE OF TECHNOLOGY

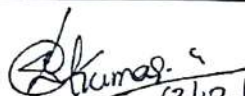
## VII SEM (2018 SCHEME)

### III SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 13-12-2022

DATE	TIME	COMPUTER SCIENCE AND ENGINEERING	ELECTRONICS AND COMMUNICATION ENGG	ELECTRONICS AND TELECOMMUNICATION ENGG	MECHANICAL ENGG
22-12-2022 THURSDAY	9.30 AM TO 11.00 AM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (18CS71)	COMPUTER NETWORKS (18EC71)	OPTICAL COMMUNICATION (18TE71)	CONTROL ENGINEERING (18ME71)
	2.00 PM TO 3.30 PM	BIG DATA ANALYTICS (18CS72)	VLSI DESIGN (18EC72)	WIRELESS COMMUNICATION (18TE72)	COMPUTER AIDED DESIGN & MANUFACTURING (18ME72)
23-12-2022 FRIDAY	9.30 AM TO 11.00 AM	USER INTERFACE DESIGN (18CS734)	SATELLITE COMMUNICATION (18EC732)	SATELLITE COMMUNICATION (18EC732)	TOTAL QUALITY MANAGEMENT (18ME734)
	2.00 PM TO 3.30 PM	CRYPTOGRAPHY (18CS744)	CRYPTOGRAPHY (18EC744)	CRYPTOGRAPHY (18EC744)	ADDITIVE MANUFACTURING (18ME741)
24-12-2022 SATURDAY	9.30 AM TO 11.00 AM	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	ENERGY AND ENVIRONMENT (18ME751)	PYTHON APPLICATION PROGRAMMING (18CS752)
	2.00 PM TO 3.30 PM	_____	_____	_____	_____
NOTE: All the students are strictly informed to wear lab uniforms, Mask and college ID Cards compulsory during the test.					

  
 13/12/22  
**ACADEMIC COORDINATOR**  
 Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

  
 13/12/22  
**PRINCIPAL**  
 PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.

**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**V & VII SEMESTER - II & III INTERNAL TEST INVIGILATION DUTY (2022-2023)**

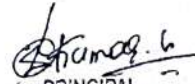
Date	Timings	OB 201	OB 203	OB 204	OB 205	OB 206	OB 207	OB 208	OB 209	OB 305	OB 306	OB 307 (ECE-SH)	NB 103 (1st Floor-SH)	NB 303 (3rd Floor-SH)	NB 403 (4th Floor-SH)
22-12-2022 THURSDAY	9:30 am to 11:00 am	BK (CSE)	KBN (CSE)	LK (CSE)	GR (CSE)	MBR (ME)	RN (ME)	RGL (ME)	PHS (CSE)	VD (ECE)	PS (ECE)	KBM (CSE)	SV (ECE)	BA (ECE)	BHA (ECE)
	2:00 pm to 3:30	SD (CSE)	RH (CSE)	KRS (B&H)	KMS (CSE)	AK (ME)	MBR (ME)	LN (ME)	KP (ME)	NM (ME)	SST (ECE)	RM (AIML)	SS (AIML)	LKK (AIML)	AKG (ECE)
23-12-2022 FRIDAY	9:30 am to 11:00 am	BK (CSE)	SD (CSE)	KG (CSE)	ST (CSE)	LN (ME)	NM (ME)	RN (ME)	AS (AIML)	PA (ECE)	SST (ECE)	RN (ECE)	BA (ECE)	SV (ECE)	KBM (ECE)
	2:00 pm to 3:30	PKN (CSE)	GR (CSE)	KBN (CSE)	KMS (CSE)	RN (ME)	RGL (ME)	PHS (CSE)	MBR (ME)	SS (AIML)	LKK (AIML)	AS (AIML)	RN (ECE)	BA (ECE)	SV (ECE)
24-12-2022 SATURDAY	9:30 am to 11:00 am	LK (CSE)	RH (CSE)	SG (CSE)	PR (CSE)	PA (ECE)	AK (ME)	VD (ECE)	KBM (ECE)	PS (ECE)	BHA (ECE)	MKS (CSE)	PKN (CSE)	KG (CSE)	ST (CSE)
	1.30 pm to 3.00 pm	AS (AIML)	RM (AIML)	SS (AIML)	LKK (AIML)	PS (ECE)	X			BHA (ECE)	AKG (ECE)	KP (ME)	X		
	3.00 pm to 4.00 pm	RGL (ME)	PHS (CSE)	PA (ECE)	SST (ECE)	RNP (BS&H)	X			MKS (CSE)	SG (CSE)	PR (CSE)	X		

Mrs. Beena k	BK	Mr. Krishna Gudi	KG
Mr. Kushal Kumar B N	KBN	Mr.Somasekhar T	ST
Mr. Laxmikantha K	LK	Mrs. Pallavi K N	PKN
Mrs. Geetha R	GR	Mrs. Supreetha Ganc	SG
Mr. Sanjoy Das	SD	Mrs. Pallavi R	PR
Mrs. Rashmi H	RH	Mr. Manoj Kumar S	MKS
Mrs. Kavya M S	KMS	Mrs. Radhika N P	RNP
Mrs. Shylaja K R	KRS	Mr. Rajesh G L	RGL
Mr. Manjunath B R	MBR	Mr. Prashanth H S	PHS
Amulyashree S	AS	Sahana Sharma	SS

Mr. Anil Kumar A	AK	Dr.Rekha.N	RN
Dr. L Nirmala	LN	Ms.Sangeetha.V	SV
Mr. Prasad K	KP	Ms.Barghavi.A	BA
Mr. Ranganath N	RN	Ms.Bhanumathi	BHA
Mr. Nagabhushana M	NM	Ms.Kavya.B.M	KBM
Mr.Praveen.A	PA	Ms.Vishalini Divakar	VD
Mr.Saleem.S.Tevaramani	SST		
Mr.Ashwini Kumar	AKG		
Roopa Murthy	RM		
Lakshmi K K	LKK		

**NOTE: Issue and Collection of Blue Books at Design Lab, 3rd Floor NB, Mechanical Engg. Block**

  
**ACADEMIC COORDINATOR**

  
**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109.**

K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

Department of Electronics and Communication Engineering

Attendance of VII 'A & B' for THIRD Internal Test (2022-2023)

Room No: NB SH 303

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC74)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC73)	CRYPTOGRAPHY (18EC74)	ENERGY AND ENVIRONMENT (18ME75)
1	IKS19EC052	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi
2	IKS19EC053	Nirangya	Nirangya	Nirangya	Nirangya	Nirangya
3	IKS19EC054	Nithin	Nithin	Nithin	Nithin	Nithin
4	IKS19EC055	Pavani	Pavani	Pavani	Pavani	Pavani
5	IKS19EC056	P.M. w	P.M. w	P.M. w	P.M. w	P.M. w
6	IKS19EC057	AB	AB	AB	AB	AB
7	IKS19EC058	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep
8	IKS19EC059	Pratik	Pratik	Pratik	Pratik	Pratik
9	IKS19EC061	PSK	PSK	PSK	PSK	PSK
10	IKS19EC062	AR	Praveen	Praveen	Praveen	Praveen
11	IKS19EC063	Prathibha	Prathibha	Prathibha	Prathibha	Prathibha
12	IKS19EC064	Priya	Priya	Priya	Priya	Priya
13	IKS19EC065	Rachitha	Rachitha	Rachitha	Rachitha	Rachitha
14	IKS19EC066	Rishi	Rishi	Rishi	Rishi	Rishi
15	IKS19EC067	Rishi	Rishi	Rishi	Rishi	Rishi
16	IKS19EC068	Rishi	Rishi	Rishi	Rishi	Rishi
17	IKS19EC069	Rohan K.F	Rohan K.F	Rohan K.F	Rohan K.F	Rohan K.F
18	IKS19EC070	S.K. Bharatesh	S.K. Bharatesh	S.K. Bharatesh	S.K. Bharatesh	S.K. Bharatesh
19	IKS19EC071	Saharish	Saharish	Saharish	Saharish	Saharish
20	IKS19EC073	Sahana.S	Sahana.S	Sahana.S	Sahana.S	Sahana.S
21	IKS19EC074	Saipriya	Saipriya	Saipriya	Saipriya	Saipriya
22	IKS19EC075	Smita	Smita	Smita	Smita	Smita
23	IKS19EC076	Sudhanya	Sudhanya	Sudhanya	Sudhanya	Sudhanya
24	IKS19EC077	Sudhanya	Sudhanya	Sudhanya	Sudhanya	Sudhanya
25	IKS19EC078	Sudhanya	Sudhanya	Sudhanya	Sudhanya	Sudhanya
26	IKS19EC079	Sudhanya	Sudhanya	Sudhanya	Sudhanya	Sudhanya
27	IKS19EC081	Shreyans	Shreyans	Shreyans	Shreyans	Shreyans
28	IKS19EC082	Shreyas B	Shreyas B	Shreyas B	Shreyas B	Shreyas B
29	IKS19EC083	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas
30	IKS19EC084	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas
DATE:		22/12/22	22/12/22	23/12/22	23/12/22	24/12/22
NO. OF STUDENTS PRESENT		28	29	29	29	29
NO. OF STUDENTS ABSENT		02	01	01	01	01
NAME OF INVIGILATOR		BA	Tejasni	V.Suryeetha	BA	Krishna G.
SIGNATURE OF INVIGILATOR		BA	Tejasni	V.Suryeetha	BA	Krishna G.

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'A' for THIRD Internal Test (2022-2023)**

Room No: 306

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	1KS19EC001	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
2	1KS19EC002	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
3	1KS19EC003	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
4	1KS19EC004	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
5	1KS19EC005	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
6	1KS19EC006	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
7	1KS19EC007	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
8	1KS19EC008	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
9	1KS19EC009	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
10	1KS19EC010	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
11	1KS19EC011	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
12	1KS19EC012	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
13	1KS19EC014	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
14	1KS19EC015	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
15	1KS19EC016	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
16	1KS19EC017	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
17	1KS19EC018	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
18	1KS19EC019	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
DATE:		21/12/22	22/12/22	23/12/22	23/12/22	24/12/22
NO. OF STUDENTS PRESENT		18	18	18	18	18
NO. OF STUDENTS ABSENT		00	00	00	00	00
NAME OF INVIGILATOR		<i>[Signature]</i>	Kavya BM	Saleem S. Tevaramani	Lakshmi K K	Bhanumathi A
SIGNATURE OF INVIGILATOR		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'A' for THIRD Internal Test (2022-2023)**

Room No: OB SH 307

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC73)	CRYPTOGRAPHY (18EC74)	ENERGY AND ENVIRONMENT (18ME75)
1	IKS19EC020	Nayar	Nayar	Nayar	Nayar	Nayar
2	IKS19EC021	<del>AB</del>	<del>AB</del>	<del>AB</del>	<del>AB</del>	<del>AB</del>
3	IKS19EC022	Jayant	Jayant	Jayant	Jayant	Jayant
4	IKS19EC023	Shruti Subhakar	Shruti Subhakar	Shruti Subhakar	Shruti Subhakar	Shruti Subhakar
5	IKS19EC024	<del>AB</del>	<del>AB</del>	<del>AB</del>	<del>AB</del>	<del>AB</del>
6	IKS19EC025	Dishashree	Dishashree	Dishashree	Dishashree	Dishashree
7	IKS19EC027	Ravi	Ravi	Ravi	Ravi	Ravi
8	IKS19EC028	Pranav	Pranav	Pranav	Pranav	Pranav
9	IKS19EC029	Siddavara	Siddavara	Siddavara	Siddavara	Siddavara
10	IKS19EC030	<del>AB</del>	<del>AB</del>	<del>AB</del>	<del>AB</del>	<del>AB</del>
11	IKS19EC031	Harsh B	Harsh B	Harsh B	Harsh B	Harsh B
12	IKS19EC032	Harsh B	Harsh B	Harsh B	Harsh B	Harsh B
13	IKS19EC033	<del>AB</del>	<del>AB</del>	<del>AB</del>	<del>AB</del>	<del>AB</del>
14	IKS19EC035	Pranav	Pranav	Pranav	Pranav	Pranav
15	IKS19EC036	Jayant	Jayant	Jayant	Jayant	Jayant
16	IKS19EC037	Manogna	Manogna	Manogna	Manogna	Manogna
17	IKS19EC038	Kush	Kush	Kush	Kush	Kush
18	IKS19EC039	<del>AB</del>	<del>AB</del>	<del>AB</del>	<del>AB</del>	<del>AB</del>
19	IKS19EC040	Sidd	Sidd	Sidd	Sidd	Sidd
20	IKS19EC041	Kuthike	Kuthike	Kuthike	Kuthike	Kuthike
21	IKS19EC042	Lakshmi	Lakshmi	Lakshmi	Lakshmi	Lakshmi
22	IKS19EC043	Pritha.H.	Pritha.H.	Pritha.H.	Pritha.H.	Pritha.H.
23	IKS19EC044	(M.Toti)	(M.Toti)	(M.Toti)	(M.Toti)	(M.Toti)
24	IKS19EC045	Mandika	Mandika	Mandika	Mandika	Mandika
25	IKS19EC046	Pranav	Pranav	Pranav	Pranav	Pranav
26	IKS19EC047	Rohit	Rohit	Rohit	Rohit	Rohit
27	IKS19EC048	<del>AB</del>	<del>AB</del>	AB	AB	AB
28	IKS19EC049	Monika	Monika	Monika	Monika	Monika
29	IKS19EC050	Monika	Monika	Monika	Monika	Monika
30	IKS19EC051	Quint	Quint	Quint	Quint	Quint
DATE:		22/12/22	22/12/22	23/12/22	23/12/22	24/12/22
NO. OF STUDENTS PRESENT		28	28	29	30	30
NO. OF STUDENTS ABSENT		02	02	01	0	0
NAME OF INVIGILATOR		Kavya B.M	Roopa K.M	Dr. Rekha N	Amulyashree S	MKS
SIGNATURE OF INVIGILATOR						

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of VII 'B' for THIRD Internal Test (2022-2023)**

Room No: NB SH 403

SL.NO	REGISTER NO.	COMPUTER NETWORKS (18EC71)	VLSI DESIGN (18EC72)	SATELLITE COMMUNICATION (18EC73)	CRYPTOGRAPHY (18EC74)	ENERGY AND ENVIRONMENT (18ME75)
1	IKS19EC085	<del>(AB)</del>	<del>← AB →</del>	<del>AB</del>	<del>SV</del>	<del>SV</del>
2	IKS19EC086	<del>sinchana MN</del>	<del>sinchana MN</del>	<del>sinchana MN</del>	<del>sinchana MN</del>	<del>sinchana MN</del>
3	IKS19EC087	<del>Seema</del>	<del>← AB →</del>	<del>Seema</del>	<del>Seema</del>	<del>Seema</del>
4	IKS19EC088	<del>(AB)</del>	<del>← AB →</del>	<del>Seema</del>	<del>Seema</del>	<del>Seema</del>
5	IKS19EC089	<del>Seema</del>	<del>← AB →</del>	<del>Seema</del>	<del>Seema</del>	<del>Seema</del>
6	IKS19EC090	<del>Subas</del>	<del>Subas</del>	<del>Subas</del>	<del>Subas</del>	<del>Subas</del>
7	IKS19EC092	<del>Sumathi</del>	<del>Sumathi</del>	<del>Sumathi</del>	<del>Sumathi</del>	<del>Sumathi</del>
8	IKS19EC093	<del>Subhmita</del>	<del>Subhmita</del>	<del>Subhmita</del>	<del>Subhmita</del>	<del>← AB →</del>
9	IKS19EC094	<del>SV</del>	<del>SV</del>	<del>SV</del>	<del>SV</del>	<del>SV</del>
10	IKS19EC095	<del>Swathi</del>	<del>Swathi</del>	<del>Swathi</del>	<del>Swathi</del>	<del>Swathi</del>
11	IKS19EC096	<del>Ruti</del>	<del>Ruti</del>	<del>Ruti</del>	<del>Ruti</del>	<del>Ruti</del>
12	IKS19EC097	<del>tejaswini</del>	<del>tejaswini</del>	<del>tejaswini</del>	<del>← AB →</del>	<del>tejaswini</del>
13	IKS19EC098	<del>Theethara</del>	<del>Theethara</del>	<del>Theethara</del>	<del>Theethara</del>	<del>Theethara</del>
14	IKS19EC099	<del>Tushar</del>	<del>Tushar</del>	<del>Tushar</del>	<del>Tushar</del>	<del>Tushar</del>
15	IKS19EC100	<del>Vaishnav</del>	<del>Vaishnav</del>	<del>Vaishnav</del>	<del>Vaishnav</del>	<del>Vaishnav</del>
16	IKS19EC101	<del>Vandana</del>	<del>Vandana</del>	<del>Vandana</del>	<del>Vandana</del>	<del>Vandana</del>
17	IKS19EC102	<del>Vandana</del>	<del>Vandana</del>	<del>Vandana</del>	<del>Vandana</del>	<del>Vandana</del>
18	IKS19EC103	<del>Vignesh</del>	<del>Vignesh</del>	<del>Vignesh</del>	<del>Vignesh</del>	<del>Vignesh</del>
19	IKS19EC104	<del>Vikas</del>	<del>Vikas</del>	<del>Vikas</del>	<del>Vikas</del>	<del>Vikas</del>
20	IKS19EC105	<del>SV</del>	<del>SV</del>	<del>SV</del>	<del>SV</del>	<del>SV</del>
21	IKS19EC106	<del>Vishal</del>	<del>Vishal</del>	<del>Vishal</del>	<del>Vishal</del>	<del>Vishal</del>
22	IKS19EC107	<del>Vishvate</del>	<del>Vishvate</del>	<del>Vishvate</del>	<del>Vishvate</del>	<del>Vishvate</del>
23	IKS19EC108	<del>Yashu</del>	<del>Yashu</del>	<del>Yashu</del>	<del>Yashu</del>	<del>Yashu</del>
24	IKS18EC089	<del>SA</del>	<del>SA</del>	<del>SA</del>	<del>SA</del>	<del>SA</del>
25	IKS20EC400	<del>(AB)</del>	<del>← AB →</del>	<del>MV</del>	<del>MV</del>	<del>MV</del>
26	IKS20EC401	<del>Ranjana.P</del>	<del>Ranjana.P</del>	<del>Ranjana.P</del>	<del>Ranjana.P</del>	<del>Ranjana.P</del>
27	IKS20EC402	<del>Binalu</del>	<del>Binalu</del>	<del>Binalu</del>	<del>Binalu</del>	<del>Binalu</del>
DATE:		22/12/22	22/12/22	23/12/22	23/12/22	24/12/22
NO. OF STUDENTS PRESENT		24	22	26	26	26
NO. OF STUDENTS ABSENT		03	05	01	01	01
NAME OF INVIGILATOR		SST	PS	BHA	SV	P. Somadhevan
SIGNATURE OF INVIGILATOR		SST	PS	BHAM	SV	P. Somadhevan

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Telecommunication Engineering**  
**Attendance of VII Sem for THIRD Internal Test (2022-2023)**

Room No: NB SH 103

SL.NO	REGISTER NO.	OPTICAL COMMUNICATION (18TE71)	WIRELESS COMMUNICATION (18TE72)	SATELLITE COMMUNICATION (18EC732)	CRYPTOGRAPHY (18EC744)	ENERGY AND ENVIRONMENT (18ME751)
1	IKS18TE005	Adithy	Adithy	Adithy	Adithy	Adithy
2	IKS19ET002	Chaitra.c	Chaitra.c	Chaitra.c	Chaitra.c	Chaitra.c
3	IKS19ET003	Nitichitha	Nitichitha	Nitichitha	Nitichitha	Nitichitha
4	IKS19ET004	srinath.ac	srinath.ac	srinath.ac	srinath.ac	srinath.ac
5	IKS19ET005	As.	As	As	As	As
6	IKS19ET006	rubin	rubin	rubin	rubin	rubin
7	IKS19ET007	Niranjana.S.Pas	Niranjana.S.Pas	Niranjana.S.Pas	Niranjana.S.Pas	Niranjana.S.Pas
8	IKS19ET008	Rishi	Rishi	Rishi	Rishi	Rishi
9	IKS19ET009	Rohit kumar	Rohit kumar	Rohit kumar	Rohit kumar	Rohit kumar
10	IKS19ET010	Arjun	Arjun	Arjun	Arjun	Arjun
11	IKS19ET011	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha
12	IKS19ET012	vaish	vaish	vaish	vaish	vaish
DATE:		22/12/22	22/12/22	23/12/22	23/12/22	24/12/22
NO. OF STUDENTS PRESENT		12	12	12	12	12
NO. OF STUDENTS ABSENT		NIL	NIL	00	00	NIL
NAME OF INVIGILATOR		V. Sangeetha	Sahana Sharma	BA	Dr. Reekha.V	PALLAVI.K.N
SIGNATURE OF INVIGILATOR		V.S.	S.S.	B.A.	Dr. R.	P.K.N.





K.S. INSTITUTE OF TECHNOLOGY, BANGALORE – 560109  
THIRD SESSIONAL TEST QUESTION PAPER 2022 – 23 ODD SEMESTER

USN

Degree : B.E  
Branch : ECE  
Course Title : Energy and Environment  
Duration : 90 Minutes

Semester: VII  
Course Code: 18ME751  
Date: 24/12/22  
Max Marks: 30

Note: Answer ONE full question from each part.

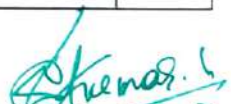
K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	Outline the aspects of ozone layer depletion.	6	C05	K2
(b)	Explain the types, causes, and objectives of wasteland reclamation.	6	C05	K2
(c)	Explain water (Prevention and Control of Pollution) Act.	6	C05	K2
<b>OR</b>				
2(a)	Outline the Environment protection Act and Environment Impact Assessment (EIA).	6	C05	K2
(b)	Explain any two case studies related to Nuclear Hazards.	6	C05	K2
(c)	Explain forest conservation (Prevention and Control of Pollution) Act.	6	C05	K2
<b>PART-B</b>				
3(a)	Identify the causes and effects of Noise Pollution. Mention control measures.	6	C04	K2
(b)	Explain any two case studies related to pollution of environment.	6	C04	K2
4(a)	Identify the environmental problems and health risks caused by hazardous wastes.	6	C04	K2
(b)	Explain the role of an individual in prevention of pollution	6	C04	K2

  
Course in charge

  
Module Coordinator

  
HOD

  
Principal

**Degree** : B.E  
**Branch** : ECE  
**Course Title** : Energy and Environment  
**Duration** : 90 Minutes

USN 

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**Semester: VII**  
**Course Code: 18ME751**  
**Date: 24/12/22**  
**Max Marks: 30**


Note: Answer **ONE** full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	<b>Outline</b> the aspects of acid rain and its effects.	6	C05	K2
(b)	<b>Explain</b> the wasteland reclamation methods.	6	C05	K2
(c)	<b>Explain</b> Air (Prevention and Control of Pollution) Act.	6	C05	K2
<b>OR</b>				
2(a)	<b>Outline</b> the concept of Consumerism and waste products. Mention control measures explaining the roles of an individual in protecting environment.	6	C05	K2
(b)	<b>Explain</b> any two case studies related to pollution of environment.	6	C05	K2
(c)	<b>Explain</b> wildlife (Prevention and Control of Pollution) Act.	6	C05	K2
<b>PART-B</b>				
3(a)	<b>Identify</b> the causes and effects of Thermal Pollution. Mention control measures.	6	C04	K2
(b)	<b>Explain</b> Characteristics of hazardous wastes.	6	C04	K2
4(a)	<b>Identify</b> the causes and effects of Marine Pollution. Mention control measures.	6	C04	K2
(b)	<b>Explain</b> solid waste management techniques.	6	C04	K2

  
Course in charge

  
Module Coordinator

  
HOD

  
Principal

*Selected*



# ವಿಶ್ವೇಶ್ವರಯ್ಯತಾಂತ್ರಿಕವಿಶ್ವವಿದ್ಯಾಲಯ

ವಿಟಿಯುಲಧಿನಿಯಮಂ ೧೯೯೪ ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

State University of Government of Karnataka Established as per the VTU Act, 1994 "JnanaSangama" Belagavi-590018, Karnataka, India

Prof. B. E. Rangaswamy, Ph.D  
REGISTRAR

Phone: (0831) 2498100  
Fax: (0831) 2405467

REF: VTU/BGM/GC/2023/ 712

DATE: 9 MAY 2023

### Revised-NOTIFICATION

**Subject:** Tentative Academic Calendar of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of University regarding...

**Reference:** Hon'ble Vice-Chancellor's approval dated: 9 MAY 2023

The computer-Aided Engineering Drawing (BCEDK103) examinations of II semester B.E./B.Tech., programs are scheduled between 15.05.2023 to 24.05.2023. A revised Academic Calendar (Tentative) of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

(Tentative) Academic Calendar for semesters of II semester B.E./B.Tech./B.Arch./B.Plan and IV semester B.E./B.Tech., Programs for AY 2022-23 (May 2023)			
	II Semester B.E./B.Tech. (2022 scheme)	II Semester B. Arch, B. Plan (2021 scheme)	IV Semester B.E./ B.Tech (2021 scheme)
Commencement of the semester	25.05.2023	17.05.2023	17.05.2023
Internship	-----	-----	17.05.2023 To 03.06.2023
Commencement of the Classes	25.05.2023	17.05.2023	05.06.2023
Last Working day of the Semester	09.09.2023	31.08.2023	16.09.2023
Practical Examination/Viva Examination	11.09.2023 To 20.09.2023	01.09.2023 To 08.09.2023	19.09.2023 To 30.09.2023
Theory Examinations	21.09.2023 To 21.10.2023	11.09.2023 To 27.09.2023	03.10.2023 To 20.10.2023
Commencement of next Semester	25.10.2023	09.10.2023	25.10.2023

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**Please Note:**

- The academic sessions for EVEN semesters should commence on the **date mentioned** above. The **induction program** shall be conducted for 10 days for 2nd-semester students. Scheduling the induction program's activities during the afternoon session in the 1st week is advised, the remaining sessions of induction programs shall be planned on Saturdays. The colleges must email a brief report to **sbhalbhavi@vtu.ac.in** after completing the Induction program
- The college may hold extra classes on Saturdays and Sundays to complete academic activities within the specified timeframe.
- The faculty/staff shall be available to undertake any work assigned by the university.
- University Examination Calendars will be published by the Registrar (Evaluation) from time to time.
- The Academic Calendar may be modified as MHRD/UGC/AICTE/state governments issue guidelines/directives in the future.
- Academic calendars are also applicable to autonomous colleges. If any changes are to be made by Autonomous colleges in the academic terms and examination schedule, they could do so with the approval of the university
- If any clarification/correction/suggestions, please email **sbhalbhavi@vtu.ac.in**

The principals of engineering colleges under the ambit of the University, are hereby informed to bring the academic calendar to the notice of all concerned. The Chairpersons of the PG department of the University where UG programs are offered are hereby informed to bring the academic calendar to the notice of the all concerned

The Directors of Schools of Architecture and Planning under the ambit of the university are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The principal of all engineering colleges, Directors of Schools of Architecture and Planning, under the ambit of VTU Belagavi. The Chairperson of the PG Department of the university.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. The Director of Central Placement Officer VTU Belagavi for information
7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

Rao B.E  
09/05/23  
REGISTRAR  
A.



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

**Prof. Dr. B. E. Rangaswamy, Ph.D.**  
REGISTRAR

**Phone : (0831) 2498100**  
**Fax : (0831) 2405467**

REF: VTU/BGM/ACA/2022-23/ 7119

DATE: 2 MAR 2023

### NOTIFICATION

- Subject:** Tentative Academic Calendar of II and IV sem B.Sc (Hon), VI sem B.E./B.Tech., B.Plan, B.Arch programs of University regarding...
- Reference:** Hon'ble Vice-Chancellor's approval dated: 01.03.2023

The tentative academic calendar concerned to II and IV sem B.Sc (Hon), VI sem B.E./B.Tech., B.Plan, B.Arch., programs of University for academic year 2022-23 are hereby notified as mentioned in Annexure-I;

The Principals/ Directors of all Engineering Colleges/Schools of Architecture, under the ambit of University are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-  
REGISTRAR

To,

1. The Principals all Engineering Colleges under the ambit of University
2. The Director of all school of Architecture under the ambit of University
3. The chairperson/Program coordinator of MBA(IEV) program VTU Belagavi

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The special Officer QPDS section VTU Belagavi
4. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
5. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
6. The Director of Physical Education, VTU Belagavi for information
7. The Director, Central Placement Cell, VTU Belagavi
8. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

Rav BE

REGISTRAR

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**Annexure-I**  
**Tentative Academic Calendar for academic year 2022-23**

	II sem B.Sc.(Hon)	IV sem B.Sc (Hon)	VI sem B.E./B.Tech	VI sem B.Plan	#VI sem B.Arch.
Commencement of semester Classes	06.03.2023 ✓	20.03.2023 ✓	20.03.2023 ✓	20.03.2023 ✓	20.03.2023 ✓
Last Working day of the Semester	30.06.2023 ✓	10.07.2023 ✓	10.07.2023 ✓	10.07.2023 ✓	10.07.2023 ✓
Practical Examination/Viva Examination	03.07.2023 To 07.07.2023 ✓	11.07.2023 To 15.07.2023 ✓	11.07.2023 To 21.07.2023 ✓	11.07.2023 To 21.07.2023 ✓	11.07.2023 To 21.07.2023 ✓
Theory Examinations	10.07.2023 To 25.07.2023 ✓	17.07.2023 To 31.07.2023 ✓	24.07.2023 To 12.08.2023 ✓	24.07.2023 To 12.08.2023 ✓	24.07.2023 To 12.08.2023 ✓
Internship	-----	-----	04 weeks 09.09.2023 ✓	06 weeks 16.09.2023 ✓	-----
Commencement of next Semester	01.08.2023 ✓	01.08.2023 ✓	11.09.2023 ✓	19.09.2023 ✓	16.08.2023 ✓

# Academic calendar already notified vide VTU/BGM/ACA/2022-23/6889, dated 15.02.2023

**Please Note:**

- The academic sessions should commence on the **date mentioned** above.
- If required, the college can also plan to have extra classes on Saturday(1<sup>st</sup> and 3<sup>rd</sup>) and Sundays full day to complete academic activities within the duration mentioned.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- If any clarification/correction, please email to – [sbhalbhavi@vtu.ac.in](mailto:sbhalbhavi@vtu.ac.in)

**REGISTRAR**





# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D.  
REGISTRAR

Phone: (0831) 2498100  
Fax : (0831) 2405467

REF: VTU/BGM/ACA/2022-23/ 6566

DATE: 3 FEB 2023

### NOTIFICATION

**Subject:** Tentative Academic Calendar of VIII semesters of B.E./ B.Tech.,  
B.Arch., B. Plan programs of University regarding...

**Reference:** Hon'ble Vice-Chancellor's approval dated: 03.02.2023

The tentative academic calendar concerned to VIII semesters of B.E./B.Tech.,  
B. Arch., and B. Plan programs of University for academic year 2022-23 are hereby  
notified as mentioned below;

(Tentative) Academic Calendar for semesters of all VIII Semester UG Programs (Feb 2023)			
	B.E./B.Tech.	B.Arch	B.Plan
Commencement of 8 <sup>th</sup> semester Classes	13.02.2023	13.02.2023	13.02.2023
Last Working day of 8 <sup>th</sup> Semester	13.05.2023	13.05.2023	13.05.2023
Practical Examination/Viva Examination	05.06.2023 To 13.06.2023	16.05.2023 To 26.05.2023	----
Theory Examinations	16.05.2023 To 01.06.2023	29.05.2023 To 10.06.2023	16.05.2023 To 01.06.2023
Commencement of next Semester	---	-----	-----

#### Please Note:

- The academic sessions for VIII semester should commence on the **date mentioned** above.
- The Institute needs to function for **six days** a week with Saturday being half working day. #if required, the college can also plan to have extra classes on Saturday afternoons and Sundays full day to complete academic activities within the duration mentioned. This will facilitate the final year students for appearing competitive examination for their career and also helps in seeking admission abroad.

- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- If any clarification/correction, please email to - **sbhvtuso@yahoo.com**

The Principals/ Directors of Schools of Architecture, under the ambit of University are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The Principals / Directors, Schools of Architecture under the ambit of VTU Belagavi.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. **The Director of Physical Education, VTU Belagavi for information**
6. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

  
REGISTRAR 3.2.23  






# K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: IV EVEN SEMESTER (2022-2023)

SESSION: MAY TO SEP 2023

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	MAY			17*	18	19	20DH	3	17* - Commencement of IV Sem
2	MAY	22	23	24	25	26	27	6	27-Tuesday Time Table
3	MAY/JUN	29	30	31	1	2	3DH	5	
4	JUN	5	6	7	8	9	10	6	10-Wednesday Time Table
5	JUN	12	13	14	15	16 TA	17DH	5	
6	JUN	19 T1	20 T1	21 T1	22	23	24	6	24-Tuesday Time Table
7	JUN/JULY	26	27	28 BV	29H	30 * FFB1	1DH	4	29 - Bakrid 30 - First Faculty Feed Back
8	JULY	3 LT1	4 LT1	5 LT1	6 ASD	7	8	6	8-Wednesday Time Table
9	JULY	10	11	12	13	14	15DH	5	
10	JULY	17	18	19	20	21	22	6	22- Tuesday Time Table
11	JULY	24	25	26	27	28 TA	29H	5	29- Moharam
12	JULY/AUG	31 T2	1 T2	2 T2	3	4	5	6	5- Monday Time Table
13	AUG	7	8	9 BV	10	11 ASD	12 DH	5	
14	AUG	14	15 H	16	17 * FFB2	18	19	5	15 - Independence Day 17 - Second Faculty Feed Back 19- Monday Time Table
15	AUG	21	22	23	24	25	26 DH	5	
16	AUG/SEP	28	29	30	31	1	2	6	2- Wednesday
17	SEP	4	5	6 T3	7 T3	8 T3	9 DH	5	
18	SEP	11LT2	12LT2	13LT2	14	15	16*	6	16- Thursday Time Table 16* - Last Working day

**Total No of Working Days : 95**

Total Number of working days ( Excluding holidays and Tests)=80

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT1, 2	Lab Test 1,2
TA	Test attendance

Monday	15
Tuesday	15
Wednesday	16
Thursday	17
Friday	17
<b>Total</b>	<b>80</b>

**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109.**



**K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109**  
**REVISED TENTATIVE CALENDAR OF EVENTS: VI EVEN SEMESTER (2022-2023)**  
**SESSION: MARCH TO JULY 2023**

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	MAR	20*	21	22 H	23	24	25	5	20* - Commencement of VI Sem 22- Ugadi 25-Monday Time Table
2	MAR/APR	27	28	29	30	31	1	6	1-Monday Time Table
3	APR	3H	4	5	6	7H	8DH	3	3-Mahaveera Jayanthi 7-Good Friday
4	APR	10	11	12	13	14H	15 TA	5	14-Dr. B R Ambedkar Jayanthi 15-Monday Time Table
5	APR	17T1	18T1	19T1	20	21	22DH	5	
6	APR	24BV	25* FFB1	26 ASD	27	28	29	6	25* - First Faculty Feed Back 29-Friday Time Table
7	MAY	1H	2	3	4	5	6	5	1-May Day 6 - Wednesday Time Table
8	MAY	8	9	10	11	12	13	6	13-Friday Time Table
9	MAY	15	16	17	18	19	20DH	5	
10	MAY	22 LT1	23 LT1	24 LT1	25	26	27	6	27-Tuesday Time Table
11	MAY/JUN	29	30	31	1	2 TA	3DH	5	
12	JUN	5T2	6T2	7T2	8	9	10	6	6 - Second Faculty Feed Back 10-Wednesday Time Table
13	JUN	12 BV	13* FFB2	14 ASD	15	16	17DH	5	
14	JUN	19	20	21	22	23	24	6	24-Tuesday Time Table
15	JUN/JULY	26	27	28	29H	30 LT2	1DH	4	29 - Bakrid
16	JULY	3 LT2	4 LT2	5 LT2	6 T3	7 T3	8 T3	6	8-Wednesday Time Table
17	JULY	10*						1	10* - Last Working day

**Total No of Working Days : 85**

Total Number of working days ( Excluding holidays and Tests)=70

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT1	Lab Test 1
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	13
Thursday	15
Friday	16
<b>Total</b>	<b>70</b>

PRINCIPAL  
**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109.**



**K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109**  
**TENTATIVE CALENDAR OF EVENTS: VIII EVEN SEMESTER (2022-2023)**  
**SESSION: FEB 2023 – MAY 2023**

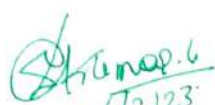
Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	FEB	13	14	15	16	17	18 DH	5	18- Maha Shivaratri
2	FEB	20	21	22	23	24	25	6	25- Wednesday Time Table
3	FEB/MAR	27	28	1	2 BV	3 ASD	4 DH	5	
4	MAR	6	7	8	9	10	11TA	6	11 - Tuesday Time Table
5	MAR	13TI	14TI	15	16	17	18 DH	5	
6	MAR	20BV	21* FFB1	22 H	23ASD	24	25	5	21* - First Faculty Feed Back 22- Ugadi 25-Monday Time Table
7	MAR/APR	27	28	29	30	31	1	6	1-Monday Time Table
8	APR	3H	4	5	6	7H	8DH	3	3-Mahaveera Jayanthi 7-Good Friday 8-Friday Time Table
9	APR	10	11	12	13TA	14H	15	5	14-Dr. B R Ambedkar Jayanthi 15-Monday Time Table
10	APR	17T2	18T2	19	20	21	22DH	5	
11	APR	24BV	25* FFB2	26ASD	27	28	29	6	25* - Second Faculty Feed Back 29-Friday Time Table
12	MAY	1H	2	3	4	5	6DH	4	1-May Day
13	MAY	8	9	10	11T3	12T3	13*	6	13-Friday Time Table 13* - Last Working day

**Total No of Working Days : 67**

Total Number of working days ( Excluding holidays and Tests)=61

<b>H</b>	Holiday
<b>BV</b>	Blue Book
<b>T1,T2,T3</b>	Tests 1,2,3
<b>ASD</b>	Attendance & Sessional Display
<b>DH</b>	Declared Holiday
<b>LTI</b>	Lab Test 1
<b>TA</b>	Test attendance

Monday	12
Tuesday	12
Wednesday	13
Thursday	12
Friday	12
<b>Total</b>	<b>61</b>

  
 5/2/23  
 PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.



# K. S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

TENTATIVE CALENDAR OF EVENTS: VIII EVEN SEMESTER (2022-2023)

SESSION: FEB 2023 – MAY 2023

Week No.	Month	Day						Days	Activities	Department Activities Tentative Dates
		Mon	Tue	Wed	Thu	Fri	Sat			
1	FEB	13	14	15	16	17	18 DH	5	18- Maha Shivaratri	
2	FEB	20	21	22	23	24	25	6	25- Wednesday Time Table	
3	FEB/MAR	27	28	1	2 BV	3 ASD	4 DH	5		
4	MAR	6	7	8	9	10	11 TA	6	11 - Tuesday Time Table	8th March Womens Day Under IEEE
5	MAR	13T1	14T1	15	16	17	18 DH	5		16th March Motivational Talk Under IEEE WIE, ASH
6	MAR	20 BV	21* FFB1	22 H	23 ASD	24	25	5	21* - First Faculty Feed Back 22- Ugadi 25-Monday Time Table	
7	MAR/APR	27	28	29	30	31	1	6	1-Monday Time Table	27th March to 1st April : Six Days FDP on Python and its Applications Under IEEE, ISTE, IETE, IEI
8	APR	3 H	4	5	6	7 H	8 DH	3	3-Mahaveera Jayanthi 7-Good Friday 8-Friday Time Table	6th April Humanitarian activity Under IEEE
9	APR	10	11	12	13 TA	14 H	15	5	14-Dr. B R Ambedkar Jayanthi 15-Monday Time Table	
10	APR	17 T2	18 T2	19	20	21	22 DH	5		
11	APR	24 BV	25* FFB2	26 ASD	27	28	29	6	25* - Second Faculty Feed Back 29-Friday Time Table	28th April & 29th April : Paper Presentation Under IEEE, ISTE, IETE, IEI
12	MAY	1 H	2	3	4	5	6 DH	4	1-May Day	3rd, 4th & 5th May Student Development Programme On Python Coding
13	MAY	8	9	10	11 T3	12 T3	13*	6	13-Friday Time Table 13* - Last Working day	

Total No of Working Days : 67

Total Number of working days ( Excluding holidays and Tests)=61

H	Holiday
BV	Blue Book Verification
T1,T2, T3	Tests 1,2, 3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test 1
TA	Test attendance

Monday	12
Tuesday	12
Wednesday	13
Thursday	12
Friday	12
<b>Total</b>	<b>61</b>

**HEAD OF THE DEPARTMENT**  
Dept. of Electronics & Communication Engg  
K.S. Institute of Technology  
Bengaluru - 560 109

**PRINCIPAL**  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



# K. S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

TENTATIVE CALENDAR OF EVENTS: VI EVEN SEMESTER (2022-2023)

SESSION: MARCH 2023 - JULY 2023

Week No.	Month	Day						Days	Activities	Department Activities Tentative Dates
		Mon	Tue	Wed	Thu	Fri	Sat			
1	MAR	20*	21	22 H	23	24	25	5	20* - Commencement of VI Sem 22- Ugadi 25-Monday Time Table	
2	MAR/ APR	27	28	29	30	31	1	6	1-Monday Time Table	27th March to 1st April : Six Days FDP on Python and its Applications Under IEEE, ISTE, IETE, IEI
3	APR	3H	4	5	6	7H	8DH	3	3-Mahaveera Jayanthi 7-Good Friday	6th April Humanitarian activity Under IEEE
4	APR	10	11	12	13	14H	15 TA	5	14-Dr. B R Ambedkar Jayanthi 15-Monday Time Table	
5	APR	17T1	18T1	19T1	20	21	22DH	5		
6	APR	24BV	25* FFB1	26 ASD	27	28	29	6	25* - First Faculty Feed Back 29-Friday Time Table	28th April & 29th April : Paper Presentation Under IEEE, ISTE, IETE, IEI
7	MAY	1H	2	3	4	5	6DH	4	1-May Day	3rd, 4th & 5th May Student Development Programme On Python Coding
8	MAY	8	9	10	11	12	13	6	13-Friday Time Table	
9	MAY	15	16	17	18	19	20 DH	5		
10	MAY	22 LT1	23 LT1	24 LT1	25	26 TA	27	6	27-Tuesday Time Table	27th May : Marathon Under IEEE, ISTE, IETE, IEI
11	MAY/J UN	29T2	30 T2	31 T2	1	2	3DH	4		1st June : Mini Project Under IEEE, ISTE, IETE, IEI 2nd June SPS DAY under IEEE
12	JUN	5 BV	6* FFB2	7 ASD	8	9	10	6	6 - Second Faculty Feed Back 10-Wednesday Time Table	10th June Technical Talk Under IEEE, ISTE
13	JUN	12	13	14	15	16	17DH	5		
14	JUN	19	20	21	22	23	24	6	24-Tuesday Time Table	
15	JUN/ JULY	26 LT2	27 LT2	28 LT2	29H	30	1DH	5	29 - Bakrid	
16	JULY	3 T3	4 T3	5 T3	6	7	8	6	8-Wednesday Time Table	
17	JULY	10*						1	10* - Last Working day	

Total No of Working Days : 84

Total Number of working days ( Excluding holidays and Tests)=69

H	Holiday
BV	Blue Book Verification
T1,T2, T3	Tests 1,2, 3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	12
Thursday	15
Friday	16
<b>Total</b>	<b>69</b>

*[Signature]*  
**HEAD OF THE DEPARTMENT**  
 Dept. of Electronics & Communication Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109

*[Signature]*  
**PRINCIPAL**  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.



# K. S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

**TENTATIVE CALENDAR OF EVENTS: IV EVEN SEMESTER (2022-2023)**

**SESSION: MAY TO SEP 2023**

Week No.	Month	Day						Days	Activities	Department Activities Tentative Dates
		Mon	Tue	Wed	Thu	Fri	Sat			
1	MAY			17*	18	19	20 DH	3	17* - Commencement of IV Sem	
2	MAY	22	23	24	25	26	27	6	27-Tuesday Time Table	27th May : Marathon Under IEEE, ISTE, IETE, IEI
3	MAY/ JUN	29	30	31	1	2	3 DH	5		1st June : Mini Project Under IEEE, ISTE, IETE, IEI 2nd June SPS DAY under IEEE
4	JUN	5	6	7	8	9	10	6	10-Wednesday Time Table	10th June Technical Talk Under IEEE, ISTE
5	JUN	12	13	14	15	16 TA	17 DH	5		
6	JUN	19 T1	20 T1	21 T1	22	23	24	6	24-Tuesday Time Table	
7	JUN/ JULY	26	27	28 BV	29 H	30* FFB1	1 DH	4	29 - Bakrid 30 - First Faculty Feed Back	
8	JULY	3 LT1	4 LT1	5 LT1	6 ASD	7	8	6	8-Wednesday Time Table	
9	JULY	10	11	12	13	14	15 DH	5		
10	JULY	17	18	19	20	21	22	6	22- Tuesday Time Table	22nd July Technical Talk
11	JULY	24	25	26	27	28 TA	29 H	5	29- Moharam	
12	JULY/ AUG	31 T2	1 T2	2 T2	3	4	5	6	5- Monday Time Table	3rd August to 8th August Placement Training
13	AUG	7	8	9 BV	10	11 ASD	12 DH	5		
14	AUG	14	15 H	16	17* FFB2	18	19	5	15 - Independence Day 17 - Second Faculty Feed Back 19- Monday Time Table	19th August Activities under NSS, Sports & Yoga
15	AUG	21	22	23	24	25	26 DH	5		
16	AUG/ SEP	28	29	30	31	1	2	6	2- Wednesday	2nd September Mini Project Exhibition & Poster Presentation
17	SEP	4	5	6 T3	7 T3	8 T3	9 DH	5		
18	SEP	11LT 2	12LT 2	13LT 2	14	15	16*	6	16- Thursday Time Table 16* - Last Working day	

**Total No of Working Days : 95**

Total Number of working days ( Excluding holidays and Tests)=80

<b>H</b>	Holiday
<b>BV</b>	Blue Book Verification
<b>T1, T2, T3</b>	Tests 1,2, 3
<b>ASD</b>	Attendance & Sessional Display
<b>DH</b>	Declared Holiday
<b>LT</b>	Lab Test 1,2
<b>TA</b>	Test attendance

Monday	15
Tuesday	15
Wednesday	16
Thursday	17
Friday	17
<b>Total</b>	<b>80</b>

HOD OF THE DEPARTMENT  
 Dept. of Electronics & Communication Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109

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# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

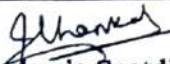
IV SEM

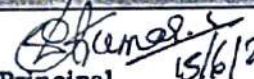
FIRST SESSIONAL TEST TIME TABLE (2022-2023)  
(EVEN SEMESTER 2023)

Date : 15/06/2023

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
26/06/2023 Monday	9:30 AM To 10:30 AM	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21EC41</b> Maths for Communication Engineers	<b>21ME41</b> Complex Analysis, Probability and Linear Programming.
	2:00 PM To 3:00 PM	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21EC42-</b> Digital Signal Processing	<b>21ME42</b> Machining Science and Jigs & Fixtures
27/06/2023 Tuesday	9:30 AM To 10:30 AM	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21EC43</b> Circuits & Controls	<b>21ME43</b> Fluid Mechanics
	1:30 PM To 2:30 PM	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers
28/06/2023 Wednesday	9:30 AM To 10:30 AM	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21EC44</b> Communication Theory	<b>21ME44</b> Mechanics of Materials
	1:30 PM To 2:30 PM	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK37/47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada	<b>21KSK47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada
	3.00 PM To 4:00 PM	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.

  
15/6/23  
Academic Coordinator  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

  
15/6/23  
Principal  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.

# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## II & IV SEMESTER - 1st CIE TEST INVIGILATION DUTY (2022-2023)

Date	Timings	SEM	NB SH 008 (GF Floor)	NB 101	NB 102	NB SH 103 (1st Floor)	NB 104	NB 202	NB 203	NB SH 204 (2nd Floor)	NB 205	NB 301	NB 302	NB SH 303 (3rd Floor)	NB 304	NB SH 403 (4th Floor)	OB SH 307 (3rd Floor)
26/6/2023 MONDAY	9:30 am to 10:30 am	II	SS (ECE)	KBN (CSE)	NP (CSE)	NM (ME)	RH (CSE)	ST (CSE)	SA (CSD)	MBR (ME)	AS (AIML)	RKM (AIML)	BHA (ECE)	TML (ME)	BS (BS)	NP (AIML)	SVJ (ECE)
		IV	SD (CSE)			PHS (CSE)				SB (CSD)				SKB (ECE)			KRS (BS)
	2:00 pm to 3:00 pm	II	AR (ECE)	SS (AIML)	CJ (ECE)	NKS (ME)	VD (ECE)	AK (ME)	RN (ME)	LN (ME)	HU (ME)	KP (ME)	HS (BS)	KR (ECE)	KTN (BS)	DB (ECE)	KK (CSE)
		IV	ALB (CSE)			KBM (ECE)				MN (BS)				KG (CSE)			RC (BS)
27/6/2023 TUESDAY	9:30 am to 10:30 am	II	AP (ECE)	BHA (ECE)	SS (AIML)	AR (ECE)	RN (ME)	HU (ME)	TML (ME)	VD (ECE)	MN (BS)	SVJ (ECE)	SG (BS)	GTR (ME)	KR (ECE)	NP (AIML)	SRC (BS)
		IV	SSB (CSE)			LN (ME)				MV (BS)				LC (BS)			MS (BS)
	1:30 pm to 2:30 pm	II	KBM (ECE)	ST (CSE)	KBN (CSE)	AP (ECE)	PHS (CSE)	RH (CSE)	AS (AIML)	NM (ME)	SB (CSD)	SS (ECE)	RKM (AIML)	MBR (ME)	DB (ECE)	KK (CSE)	RJ (CSE)
		IV	SD (CSE)			NP (CSE)				SA (CSD)				LKK (CSE)			SGK (BS)
3:00 pm to 4:00 pm	II									SKB (ECE)	CJ (ECE)	AK (ME)	KP (ME)	RC (BS)	SRC (BS)	TR (BS)	
28/6/2023 WEDNESDAY	9:30 am to 10:30 am	II	NKS (ME)	SB (CSD)	SKB (ECE)	MV (BS)	CJ (ECE)	AR (ECE)	ST (CSE)	KR (ECE)	KG (CSE)	LC (BS)	KRS (BS)	MS (BS)	SGK (BS)	TR (BS)	LKK (CSE)
		IV	SA (CSD)			SS (AIML)				KK (CSE)				RJ (CSE)			SG (BS)
	1:30 pm to 2:30 pm	II	AK (ME)	SS (ECE)	VD (ECE)	RN (ME)	HU (ME)	SVJ (ECE)	AP (ECE)	BS (BS)	SSB (CSE)	SD (CSE)	KTN (BS)	NP (AIML)	MV (BS)	NM (ME)	KP (ME)
		IV	MN (BS)			KRS (BS)				ALB (CSE)				KTN (BS)			HS (BS)
3:00 pm to 4:00 pm	II	MBR (ME)	TML (ME)	BHA (ECE)	LC (BS)	KBM (ECE)	RC (BS)	SRC (BS)	MS (BS)	SGK (BS)	TR (BS)	LKK (CSE)	RH (CSE)	NP (CSE)	SG (BS)	NKS (ME)	
	IV	RKM (AIML)			DB (ECE)				RJ (CSE)				KG (CSE)			LN (ME)	

*J. Kumar*  
22/6/23  
ACADEMIC COORDINATOR

*K. S. Kumar*  
PRINCIPAL  
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BENGALURU - 560 109.



**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**

**II & IV SEMESTER**

**FIRST SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)**

**BLACK BOARD**

**Room No: NB LH 104 ( 1ST FLOOR )**

CS II 'C' SEC	ECE IV 'A' SEC	CS II 'C' SEC	ECE IV 'A' SEC	CS II 'C' SEC	ECE IV 'A' SEC	CS II 'C' SEC CSD II 'D' SEC	ECE IV 'A' SEC	CSD II 'D' SEC
1KS22CS169	1KS21EC001	1KS22CS175	1KS21EC007	1KS22CS181	1KS21EC014	1KS22CS187	1KS21EC020	1KS22CG004
1KS22CS170	1KS21EC002	1KS22CS176	1KS21EC008	1KS22CS182	1KS21EC015	1KS22CS188	1KS21EC021	1KS22CG005
1KS22CS171	1KS21EC003	1KS22CS177	1KS21EC009	1KS22CS183	1KS21EC016	1KS21CS013	1KS21EC023	1KS22CG006
1KS22CS172	1KS21EC004	1KS22CS178	1KS21EC010	1KS22CS184	1KS21EC017	<b>1KS22CG001</b>	1KS21EC024	1KS22CG007
1KS22CS173	1KS21EC005	1KS22CS179	1KS21EC011	1KS22CS185	1KS21EC018	1KS22CG002	1KS21EC025	1KS22CG008
1KS22CS174	1KS21EC006	1KS22CS180	1KS21EC013	1KS22CS186	1KS21EC019	1KS22CG003	1KS21EC026	1KS22CG009

**ECE IV 'A' SEC Total = 24**

**CS II 'C' SEC=21 CSD II 'D' SEC =9 Total = 30**

*[Signature]*  
21/6/23  
**ACADEMIC COORDINATOR**

Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology.  
Bengaluru - 560 109.

*[Signature]*

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**BENGALURU - 560 109**

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## II & IV SEMESTER

### FIRST SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

#### BLACKBOARD

Room No: NB LH 202 (2ND FLOOR)

CSD II 'D' SEC	ECE IV 'A' SEC	CSD II 'D' SEC	ECE IV 'A' SEC	CSD II 'D' SEC	ECE IV 'A' SEC	CSD II 'D' SEC	ECE IV 'A' SEC	CSD II 'D' SEC
1KS22CG010	1KS21EC027	1KS22CG016	1KS21EC033	1KS22CG022	1KS21EC040	1KS22CG028	1KS21EC046	1KS22CG034
1KS22CG011	1KS21EC028	1KS22CG017	1KS21EC035	1KS22CG023	1KS21EC041	1KS22CG029	1KS21EC047	1KS22CG035
1KS22CG012	1KS21EC029	1KS22CG018	1KS21EC036	1KS22CG024	1KS21EC042	1KS22CG030	1KS21EC048	1KS22CG036
1KS22CG013	1KS21EC030	1KS22CG019	1KS21EC037	1KS22CG025	1KS21EC043	1KS22CG031	1KS21EC049	1KS22CG037
1KS22CG014	1KS21EC031	1KS22CG020	1KS21EC038	1KS22CG026	1KS21EC044	1KS22CG032	1KS21EC050	1KS22CG038
1KS22CG015	1KS21EC032	1KS22CG021	1KS21EC039	1KS22CG027	1KS21EC045	1KS22CG033	1KS21EC051	1KS22CG039

ECE IV 'A' SEC Total = 24

CSD II 'D' SEC Total = 30

  
21/6/23  
ACADEMIC COORDINATOR

Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
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# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

II & IV SEMESTER

FIRST SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

BLACK BOARD

ROOM No: NB LH 203 (2ND FLOOR)

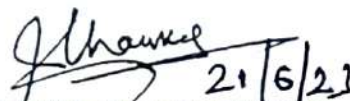
CSD II 'D' SEC	ECE IV 'A' SEC	CSD II 'D' SEC
1KS22CG040	1KS21EC053	1KS22CG046
1KS22CG041	1KS21EC054	1KS22CG047
1KS22CG042	1KS21EC055	1KS22CG048
1KS22CG043	1KS21EC056	1KS22CG049
1KS22CG044	1KS21EC058	1KS22CG050
1KS22CG045	1KS21EC059	1KS22CG051

ECE IV 'A' SEC	CSD II 'D' SEC	ECE IV 'A&B' SEC
1KS21EC060	1KS22CG052	1KS21EC066
1KS21EC061	1KS22CG053	1KS21EC067
1KS21EC062	1KS22CG054	1KS21EC068
1KS21EC063	1KS22CG055	<b>1KS21EC069</b>
1KS21EC064	1KS22CG056	1KS21EC070
1KS21EC065	1KS22CG057	1KS21EC071

CSD II 'D' SEC	ECE IV 'B' SEC	AIML II 'E' SEC
1KS22CG058	1KS21EC072	1KS22AI001
1KS22CG059	1KS21EC073	1KS22AI002
1KS22CG060	1KS21EC074	1KS22AI003
1KS22CG061	1KS21EC075	1KS22AI004
1KS22CG062	1KS21EC076	1KS22AI005
	1KS21EC077	1KS22AI006

ECE IV 'A & B' SEC Total = 24

CSD II 'D' SEC=23 AIML II 'E' Sec=6 Total = 29

  
21/6/23  
**ACADEMIC COORDINATOR**  
Head of the Department  
Dept. of Mechanical Engg.  
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# K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

II & IV SEMESTER

FIRST SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

BLACK BOARD

Room No: NB SH 204 (2ND FLOOR)

AIML II 'E' SEC	ECE IV 'B' SEC	AIML II 'E' SEC	ECE IV 'B' SEC	AIML II 'E' SEC	ECE IV 'B' SEC	AIML II 'E' SEC	ECE IV 'B' SEC	AIML II 'E' SEC
1KS22AI007	1KS21EC078	1KS22AI017	1KS21EC089	1KS22AI027	1KS21EC100	1KS22AI037	1KS21EC110	1KS22AI047
1KS22AI008	1KS21EC080	1KS22AI018	1KS21EC090	1KS22AI028	1KS21EC101	1KS22AI038	1KS21EC111	1KS22AI048
1KS22AI009	1KS21EC081	1KS22AI019	1KS21EC091	1KS22AI029	1KS21EC102	1KS22AI039	1KS21EC112	1KS22AI049
1KS22AI010	1KS21EC082	1KS22AI020	1KS21EC092	1KS22AI030	1KS21EC103	1KS22AI040	1KS21EC113	1KS22AI050
1KS22AI011	1KS21EC083	1KS22AI021	1KS21EC093	1KS22AI031	1KS21EC104	1KS22AI041	1KS21EC114	1KS22AI051
1KS22AI012	1KS21EC084	1KS22AI022	1KS21EC095	1KS22AI032	1KS21EC105	1KS22AI042	1KS21EC115	1KS22AI052
1KS22AI013	1KS21EC085	1KS22AI023	1KS21EC096	1KS22AI033	1KS21EC106	1KS22AI043	1KS21EC116	1KS22AI053
1KS22AI014	1KS21EC086	1KS22AI024	1KS21EC097	1KS22AI034	1KS21EC107	1KS22AI044	1KS21EC117	1KS22AI054
1KS22AI015	1KS21EC087	1KS22AI025	1KS21EC098	1KS22AI035	1KS21EC108	1KS22AI045	1KS21EC118	1KS22AI055
1KS22AI016	1KS21EC088	1KS22AI026	1KS21EC099	1KS22AI036	1KS21EC109	1KS22AI046	1KS21EC120	1KS22AI056
								1KS22AI057

ECE IV 'B' SEC Total = 40

AIML II 'E' Sec Total = 51

*J. Manjunath*  
21/6/23

**ACADEMIC COORDINATOR**  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bangalore - 560 109.

*B. Kumar*

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BANGALURU - 560 109

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

II & IV SEMESTER

FIRST SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)


BLACK BOARD


ROOM No: NB LH 205 (2ND FLOOR)

AIML II 'E' SEC	ECE IV 'B' SEC	ECE II 'F' SEC	ECE IV 'B' SEC	ECE II 'F' SEC	ECE IV 'B' SEC AIML IV	ECE II 'F' SEC	AIML IV SEM	ECE II 'F' SEC
1KS22AI058	1KS21EC121	1KS22EC001	1KS22EC405	1KS22EC007	1KS22EC411	1KS22EC013	1KS21AI005	1KS22EC019
1KS22AI059	1KS22EC400	1KS22EC002	1KS22EC406	1KS22EC008	1KS22EC412	1KS22EC014	1KS21AI006	1KS22EC020
1KS22AI060	1KS22EC401	1KS22EC003	1KS22EC407	1KS22EC009	1KS21AI001	1KS22EC015	1KS21AI007	1KS22EC021
1KS22AI061	1KS22EC402	1KS22EC004	1KS22EC408	1KS22EC010	1KS21AI002	1KS22EC016	1KS21AI008	1KS22EC022
1KS22AI062	1KS22EC403	1KS22EC005	1KS22EC409	1KS22EC011	1KS21AI003	1KS22EC017	1KS21AI009	1KS22EC023
1KS22AI063	1KS22EC404	1KS22EC006	1KS22EC410	1KS22EC012	1KS21AI004	1KS22EC018	1KS21AI010	1KS22EC024

ECE IV 'B' SEC=14 AIML IV =10 Total = 24

AIML II 'E' Sec=6 ECE II 'F' Sec=24 Total = 30

  
21/6/23  
**ACADEMIC COORDINATOR**  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

  
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BENGALURU - 560 109

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of IV 'A' for First Internal Test (2022-2023)**

Room No: NB 104

SL. NO	REGISTER NO.	MATHS FOR COMMUNICATION ENGINEERS (21EC41)	DIGITAL SIGNAL PROCESSING (21EC42)	CIRCUITS & CONTROLS (21EC43)	BIOLOGY FOR ENGINEERS (21BE45)	COMMUNICATION THEORY (21EC44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETHICS (CIP) 21CI47	UNIVERSAL HUMAN VALUES (21UH49)
1	IKS21EC001	Aadhya B	Aadhya B	Aadhya B	Aadhya B	Aadhya B	Aadhya B	Aadhya B
2	IKS21EC002	- Absent	ABSENT	AB-	- AB-	- AB-	- AB-	AB-
3	IKS21EC003	Abhiteek	Abhiteek	Abhiteek	Abhiteek	Abhiteek	Abhiteek	Abhiteek
4	IKS21EC004	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
5	IKS21EC005	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
6	IKS21EC006	Am	Am	Am	Am	Am	Am	Am
7	IKS21EC007	Akshay	Akshay	Akshay	Akshay	Akshay	Akshay	Akshay
8	IKS21EC008	Anagha	Anagha	Anagha	Anagha	Anagha	Anagha	Anagha
9	IKS21EC009	Anurag	Anurag	Anurag	Anurag	Anurag	Anurag	Anurag
10	IKS21EC010	Achana G.M	Achana G.M	Achana G.M	Achana G.M	Achana G.M	Achana G.M	Achana G.M
11	IKS21EC011	Achana M	Achana M	Achana M	Achana M	Achana M	Achana M	Achana M
12	IKS21EC013	Ashwini	Ashwini	Ashwini	Ashwini	Ashwini	Ashwini	Ashwini
13	IKS21EC014	Ashwin	Ashwin	Ashwin	Ashwin	Ashwin	Ashwin	Ashwin
14	IKS21EC015	Ashwin	Ashwin	Ashwin	Ashwin	Ashwin	Ashwin	Ashwin
15	IKS21EC016	AB	AB	- AB-	AB	AB	AB	AB
16	IKS21EC017	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay
17	IKS21EC018	Bhavya K	Bhavya K	Bhavya K	Bhavya K	Bhavya K	Bhavya K	Bhavya K
18	IKS21EC019	Bhavya	Bhavya	Bhavya	Bhavya	Bhavya	Bhavya	Bhavya
19	IKS21EC020	Bindu	Bindu	Bindu	Bindu	Bindu	Bindu	Bindu
20	IKS21EC021	Chitra	Chitra	Chitra	Chitra	Chitra	Chitra	Chitra
21	IKS21EC023	Chiranjeev	Chiranjeev	Chiranjeev	Chiranjeev	Chiranjeev	Chiranjeev	Chiranjeev
22	IKS21EC024	Charitha	Charitha	Charitha	Charitha	Charitha	Charitha	Charitha
23	IKS21EC025	Charitha	Charitha	Charitha	Charitha	Charitha	Charitha	Charitha
24	IKS21EC026	Chitra	Chitra	Chitra	Chitra	Chitra	Chitra	Chitra
DATE:		26/06/23	26/6/23	27/6/23	27/6/23	28/6/23	28/6/23	28/6/23
NO. OF STUDENTS PRESENT		22	21	22	23	22	22	22
NO. OF STUDENTS ABSENT		02	01	02	01	02	02	02
NAME OF INVIGILATOR		RASHMI J	Vishal	R	Krishna G	Chob	H	Kavya M
SIGNATURE OF INVIGILATOR		Rashmi J	Vishal	R	Krishna G	Chob	H	Kavya M

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of IV 'A' for First Internal Test (2022-2023)**

Room No: NB 202

SLN O	REGISTER NO.	MATHS FOR COMMUNICATION ENGINEERS (21EC41)	DIGITAL SIGNAL PROCESSING (21EC42)	CIRCUITS & CONTROLS (21EC43)	BIOLOGY FOR ENGINEERS (21BE45)	COMMUNICATION THEORY (21EC44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETHICS (CIP) 21CIP47	UNIVERSAL HUMAN VALUES (21UH49)
1	IKS21EC027	Keepika	Keepika	Keepika	Keepika	Keepika	Keepika	Keepika
2	IKS21EC028	Gyul	Gyul	Gyul	NT	Gyul	Gyul	Gyul
3	IKS21EC029	Gand N	Gand N	Gand N	Gagan	Gand N	Gagan	Gand N
4	IKS21EC030	- AB -	- AB -	- AB -	NT	- AB -	- AB -	- AB -
5	IKS21EC031	Gandhara	Gandhara	Gandhara	Gandhara	Gandhara	Gandhara	Gandhara
6	IKS21EC032	hann Rajul	hann Rajul	hann Rajul	hann Rajul	hann Rajul	hann Rajul	hann Rajul
7	IKS21EC033	Hemant D R	Hemant D R	Hemant D R	Hemant D R	Hemant D R	Hemant D R	Hemant D R
8	IKS21EC035	PKS	PKS	PKS	PKS	PKS	PKS	PKS
9	IKS21EC036	Karan B	Karan B	Karan B	Karan B	Karan B	Karan B	Karan B
10	IKS21EC037	Keethara	Keethara	Keethara	Keethara	Keethara	Keethara	Keethara
11	IKS21EC038	Komalat	Komalat	Komalat	Komalat	Komalat	Komalat	Komalat
12	IKS21EC039	Koo	Koo	Koo	NT	Koo	Koo	Koo
13	IKS21EC040	Kusuma M.S.	Kusuma M.S.	Kusuma M.S.	Kusuma M.S.	Kusuma M.S.	Kusuma M.S.	Kusuma M.S.
14	IKS21EC041	Likith	Likith	Likith	Likith	Likith	Likith	Likith
15	IKS21EC042	A	A	A	A	A	A	A
16	IKS21EC043	Lohith B	Lohith B	AB	Lohith B	Lohith B	Lohith B	Lohith B
17	IKS21EC044	Lohith S	Lohith S	Lohith S	Lohith S	Lohith S	Lohith S	Lohith S
18	IKS21EC045	manal	manal	manal	manal	manal	manal	manal
19	IKS21EC046	Mayan N	Mayan N	Mayan N	Mayan N	Mayan N	Mayan N	Mayan N
20	IKS21EC047	Mayan N	Mayan N	Mayan N	Mayan N	Mayan N	Mayan N	Mayan N
21	IKS21EC048	Mith	Mith	Mith	Mith	Mith	Mith	Mith
22	IKS21EC049	Mishra	Mishra	Mishra	Mishra	Mishra	Mishra	Mishra
23	IKS21EC050	AB	AB	AB	AB	AB	AB	AB
24	IKS21EC051	P. Dal	P. Dal	P. Dal	P. Dal	P. Dal	P. Dal	P. Dal
DATE:	26/6/23		26/6/2023	26/6/2023	27/6/23	28/06/23	29/6/23	28/6/23
NO. OF STUDENTS PRESENT	22	23	22	21	23	23	23	23
NO. OF STUDENTS ABSENT	2	1	02	03	01	01	01	01
NAME OF INVIGILATOR	Somesh	Anil	Dr. Nagesh	RASHMI	Amrutha	Kavya B	Kavya S-N	
SIGNATURE OF INVIGILATOR	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]

28/06/23

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of IV 'A & B' for First Internal Test (2022-2023)**

Room No: NB 203

SL.N O	REGISTER NO.	MATHS FOR COMMUNICA TION ENGINEERS (21EC41)	DEGTAL SIGNAL PROCESSING (21EC42)	CIRCUITS & CONTROLS (21EC43)	BIOLOGY FOR ENGINEERS (21BE45)	COMMUNIC ATION THEORY (21EC44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETHICS (CIP) 21CIP47	UNIVERSAL HUMAN VALUES (21UH49)
1	IKS21EC053	Anj	Anj	Anj	Anj	Anj	Anj	Anj
2	IKS21EC054	Ms	As	Navya	As	Ms	Navya S	Navya S
3	IKS21EC055	Navya	Navya	Navya	Navya	Navya	Navya	Navya
4	IKS21EC056	ABSENT	Navya	Navya	Navya	Navya	Navya	Navya
5	IKS21EC058	ABSENT	Omka N.B	Omka N.B	Omka N.B	Omka N.B	Omka N.B	Omka N.B
6	IKS21EC059	ABSENT	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
7	IKS21EC060	maanyu	maanyu	maanyu	maanyu	maanyu	maanyu	maanyu
8	IKS21EC061	Pooja R	Pooja R	Pooja R	Pooja R	Pooja R	Pooja R	Pooja R
9	IKS21EC062	Pragya D	Pragya D	Pragya D	Pragya D	Pragya D	Pragya D	Pragya D
10	IKS21EC063	ABSENT	- AB -	(AB)	ABSENT	- AB -	- AB -	- AB -
11	IKS21EC064	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
12	IKS21EC065	Pragya D	Pragya D	Pragya D	Pragya D	Pragya D	Pragya D	Pragya D
13	IKS21EC066	X	X	X	X	X	X	X
14	IKS21EC067	Pragya	Pragya	Pragya	Pragya	Pragya	Pragya	Pragya
15	IKS21EC068	Pratham	Pratham	Pratham	Pratham	Pratham	Pratham	Pratham
16	IKS21EC069	Prakhal	Prakhal	Prakhal	Prakhal	Prakhal	Prakhal	Prakhal
17	IKS21EC070	Purnitha	Purnitha	Purnitha	Purnitha	Purnitha	Purnitha	Purnitha
18	IKS21EC071	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
19	IKS21EC072	ABSENT	- AB -	(AB)	ABSENT	- AB -	- AB -	- AB -
20	IKS21EC073	R.M.E	R.M.E	R.M.E	R.M.E	R.M.E	R.M.E	R.M.E
21	IKS21EC074	ABSENT	- AB -	(AB)	ABSENT	- AB -	- AB -	- AB -
22	IKS21EC075	Rishi	Rishi	Rishi	Rishi	Rishi	Rishi	Rishi
23	IKS21EC076	Ritesh	Ritesh	Ritesh	Ritesh	Ritesh	Ritesh	Ritesh
24	IKS21EC077	Sham	Sham	Sham	Sham	Sham	Sham	Sham
DATE:	26/06/23	26/06/23	27/6/23	27/6/23	28/6/23	28/6/23	28/6/23	28/6/23
NO. OF STUDENTS PRESENT	18	21	20 (21)	21	21	21	21	21
NO. OF STUDENTS ABSENT	06	03	03	03	03	03	03	03
NAME OF INVIGILATOR	Sushma	Ranganath	Tejaswini	maanyu	Pragya	Pragya	Pragya	DR. JAYASWAMI
SIGNATURE OF INVIGILATOR	Sushma	R	Jay	maanyu	Pragya	Pragya	Pragya	DR. JAYASWAMI



**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of IV 'B' for First Internal Test (2022-2023)**

Room No: NB SH 204

SL.N O	REGISTER NO.	MATHS FOR COMMUNICA TION ENGINEERS (21EC41)	DEGITAL SIGNAL PROCESSING (21EC42)	CIRCUITS & CONTROLS (21EC43)	BIOLOGY FOR ENGINEERS (21BE45)	COMMUNIC ATION THEORY (21EC44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETHICS (CIP) 21CIP47	UNIVERSAL HUMAN VALUES (21UH49)
1	IKS21EC078	<del>Hand</del>	<del>Hand</del>	<del>Hand</del>	<del>Hand</del>	<del>Hand</del>	<del>Hand</del>	<del>Hand</del>
2	IKS21EC080	SHZ	SHZ	SHZ	SHZ	SHZ	SHZ	SHZ
3	IKS21EC081	<del>AB</del>	<del>AB</del>	AB	AB	AB	<del>AB</del>	AB
4	IKS21EC082	Pavith	Pavith	Pavith	Pavith	Pavith	Pavith	Pavith
5	IKS21EC083	Sankhya	Sankhya	Sankhya	Sankhya	Sankhya	Sankhya	Sankhya
6	IKS21EC084	Sanjana	Sanjana	Sanjana	Sanjana	Sanjana	Sanjana	Sanjana
7	IKS21EC085	<del>AR</del>	<del>AB</del>	AB	AB	AB	<del>AB</del>	AB
8	IKS21EC086	YSR	YSR	YSR	YSR	YSR	YSR	YSR
9	IKS21EC087	<del>AR</del>	<del>AB</del>	AB	AB	AB	<del>AB</del>	AB
10	IKS21EC088	Litha	Litha	Litha	Litha	Litha	Litha	Litha
11	IKS21EC089	SR	SR	SR	SR	SR	SR	SR
12	IKS21EC090	Shashank	Shashank	Shashank	Shashank	Shashank	Shashank	Shashank
13	IKS21EC091	\$	\$	\$	\$	\$	\$	\$
14	IKS21EC092	<del>AR</del>	<del>AB</del>	AB	AB	AB	<del>AB</del>	AB
15	IKS21EC093	SR	SR	SR	SR	SR	SR	SR
16	IKS21EC095	<del>AR</del>	<del>AB</del>	AB	AB	AB	<del>AB</del>	AB
17	IKS21EC096	Ashwini	Ashwini	Ashwini	Ashwini	Ashwini	Ashwini	Ashwini
18	IKS21EC097	Prinip	Prinip	Prinip	Prinip	Prinip	Prinip	Prinip
19	IKS21EC098	SR	SR	SR	SR	SR	SR	SR
20	IKS21EC099	Smrithi	Smrithi	Smrithi	Smrithi	Smrithi	Smrithi	Smrithi
21	IKS21EC100	Preethi	Preethi	Preethi	Preethi	Preethi	Preethi	Preethi
22	IKS21EC101	<del>AR</del>	<del>AB</del>	AB	AB	AB	<del>AB</del>	AB
23	IKS21EC102	SR	SR	SR	SR	SR	SR	SR
24	IKS21EC103	<del>AR</del>	<del>AB</del>	AB	AB	AB	<del>AB</del>	AB
25	IKS21EC104	<del>AR</del>	<del>AB</del>	AB	AB	AB	<del>AB</del>	AB







# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109

## FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

**KSIT**

SET: A

USN

Degree : B.E  
 Branch - Stream : ECE  
 Course Title : Circuits & Controls  
 Duration : 60 Minutes

Semester : 4<sup>th</sup>  
 Course Type / Code : Core/21EC43  
 Date : 27<sup>th</sup> June 2023  
 Max Marks : 20

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Determine current through $2\ \Omega$ resistor using mesh analysis 	4	CO1	K3
1(b)	State Thevenin's & Norton's theorem. Obtain Thevenin's equivalent network across the terminal AB for the circuit shown below. 	4	CO1	K3
1(c)	State maximum power transfer theorem & find the value of R such that maximum power transfer can take place from the network to R. Also find the maximum power delivered to R 	4	CO1	K3
<b>OR</b>				
2(a)	For the network given below determine node voltages $V_1, V_2, V_3$ and $V_4$ using nodal analysis. 	4	CO1	K3

(b)	<p>Define super position theorem. Find the current through <math>20\Omega</math> resistor using Super position theorem for network given below</p>	4	CO1	K3
(c)	<p>State Thevenin's &amp; Norton's theorem and obtain Norton's equivalent circuit for the network given below.</p>	4	CO1	K3

**PART - B**

3(a)	<p>Find Z and Y parameters for the network shown below.</p>	4	CO2	K3
(b)	<p>For a certain two port network <math>V_1</math> and <math>V_2</math> are given by  <math>V_1 = 60I_1 + 20I_2</math>  <math>V_2 = 20I_1 + 40I_2</math>          Find Z &amp; Y parameters.</p>	4	CO2	K3
OR				
4(a)	<p>Find Z and Y parameters for the network shown below.</p>	4	CO2	K3
(b)	<p>For a certain two port network <math>I_1</math> and <math>I_2</math> are given by  <math>I_1 = 2V_1 + V_2</math>  <math>I_2 = 10V_1 + 11V_2</math>          Find Y &amp; Z parameters.</p>	4	CO2	K3

*[Signature]*  
 Name & Signature of  
 Course In charge:

*[Signature]*  
 Name & Signature of  
 Module Coordinator:

*[Signature]*  
 HOD ECE

*[Signature]*  
 Principal



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

SET: B

USN 

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Degree : B.E  
 Branch - Stream : ECE  
 Course Title : Circuits and Controls  
 Duration : 60 Minutes

Semester : IV  
 Course Type / Code : 21EC43  
 Date : 27-06-23  
 Max Marks : 20

Note: Answer ONE full question from each part.

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	For the network shown in fig 1(a), determine the $I_x$ using superposition theorem.	4	CO1	K3-Applying
(b)	Determine the thevenin equivalent network between A-B for the given network shown in fig 1(b).	4	CO1	K3-Applying
(c)	Determine the mesh current for the network shown in fig 1(c) using mesh analysis method.	4	CO1	K3-Applying
<b>OR</b>				
2(a)	Determine the node voltages for the network shown in fig 2(a) using nodal analysis.	4	CO1	K3-Applying
(b)	Determine $V_x$ in the circuit shown fig 2(b) such that the current through $-3j$ impedance is zero.	4	CO1	K3-Applying
(c)	Determine the value of $R_L$ when maximum power is transferred across the load and also find maximum power transferred for the network shown in fig 2(c).	4	CO1	K3-Applying
<b>PART-B</b>				
3(a)	Determine Y parameters of the given network shown in fig 3(a).	4	CO2	K3-Applying
(b)	Determine Z parameters of the given network shown in fig 3(b).	4	CO2	K3-Applying

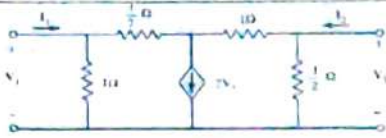


Fig 3(a)

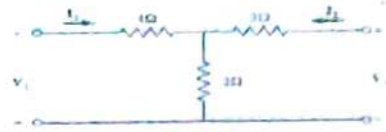


fig 3 (b)

OR

4(a) Determine Y parameters of the given network shown in fig 4(a).

5

CO2

K3-  
Applying

(b) Determine Z parameters of the given network shown in fig 4(b).

5

CO2

K3-  
Applying

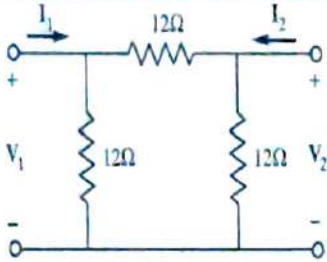


Fig 4 (a)

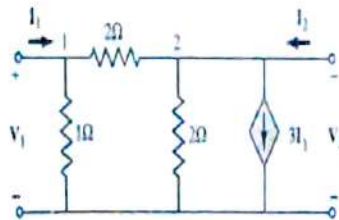


fig 4(b)

*CJ- 5/2*

Name & Signature of  
Course In charge:

*[Signature]*

Name & Signature of  
Module Coordinator:

*[Signature]*

HOD

*[Signature]*

Principal

*Selected*



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

IV SEM

SECOND SESSIONAL TEST TIME TABLE (2022-2023)  
(EVEN SEMESTER 2023)

Date : 22/07/2023

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
31/07/2023 Monday	9:30 AM To 10:30 AM	21CS41 Mathematical Foundations for Computing	21CS41 Mathematical Foundations for Computing	21CS41 Mathematical Foundations for Computing	21EC41 Maths for Communication Engineers	21ME41 Complex Analysis, Probability and Linear Programming.
	2:00 PM To 3:00 PM	21CS42 Design and Analysis of Algorithms	21CS42 Design and Analysis of Algorithms	21CS42 Design and Analysis of Algorithms	21EC42- Digital Signal Processing	21ME42 Machining Science and Jigs & Fixtures
1/08/2023 Tuesday	9:30 AM To 10:30 AM	21CS43 Microcontroller and Embedded Systems	21CS43 Microcontroller and Embedded Systems	21CS43 Microcontroller and Embedded Systems	21EC43 Circuits & Controls	21ME43 Fluid Mechanics
	1:30 PM To 2:30 PM	21BE45 Biology For Engineers	21BE45 Biology For Engineers	21BE45 Biology For Engineers	21BE45 Biology For Engineers	21BE45 Biology For Engineers
2/08/2023 Wednesday	9:30 AM To 10:30 AM	21CS44 Operating Systems	21CS44 Operating Systems	21CS44 Operating Systems	21EC44 Communication Theory	21ME44 Mechanics of Materials
	1:30 PM To 2:30 PM	21CIP47 Constitution of India and Professional Ethics (CIP)	21KSK37/47 Samskrutika Kannada / 21KKB47 Balake Kannada	21KSK47 Samskrutika Kannada / 21KKB47 Balake Kannada	21CIP47 Constitution of India and Professional Ethics (CIP)	21KSK47 Samskrutika Kannada / 21KKB47 Balake Kannada
	3:00 PM To 4:00 PM	21UH49 Universal Human Values	21UH49 Universal Human Values	21UH49 Universal Human Values	21UH49 Universal Human Values	21UH49 Universal Human Values

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.

*J. Kumar*  
Academic Coordinator

Head of the Department  
Dept. of Mechanical Engg  
K.S. Institute of Technology  
Bangalore - 560 109.

22/7/23

*S. Kumar*  
Principal

PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BANGALURU - 560 109

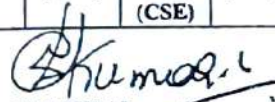


# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## II & IV SEMESTER - 2nd CIE TEST INVIGILATION DUTY (2022-2023)

Date	Timings	SEM	NB SH 008 (GF Floor)	NB 101	NB 102	NB SH 103 (1st Floor)	NB 104	NB 202	NB 203	NB SH 204 (2nd Floor)	NB 205	NB 301	NB 302	NB SH 303 (3rd Floor)	NB 304	NB SH 403 (4th Floor)	OB SH 307 (3rd Floor)
31/7/2023 MONDAY	9:30 am to 10:30 am	II	SS (ECE)	VD (ECE)	NP (CSE)	NM (ME)	RH (CSE)	ST (CSE)	SA (CSD)	MBR (ME)	AS (AIML)	RKM (AIML)	BHA (ECE)	TML (ME)	BS (BS)	LKK (AIML)	SVJ (ECE)
		IV	SD (CSE)			PHS (CSE)				SB (CSD)				SKB (ECE)			KRS (BS)
	2:00 pm to 3:00 pm	II	AR (ECE)	SS (AIML)	CJ (ECE)	NKS (ME)	VD (ECE)	NV (BS)	RN (ME)	LN (ME)	HU (ME)	KP (ME)	SN (BS)	KR (ECE)	KTN (BS)	DB (ECE)	KK (CSE)
		IV	ALB (CSE)			KBM (ECE)				MN (BS)				STS (CSE)			RC (BS)
1/8/2023 TUESDAY	9:30 am to 10:30 am	II	AP (ECE)	BHA (ECE)	SS (AIML)	AR (ECE)	AK (ME)	HU (ME)	TML (ME)	VD (ECE)	MN (BS)	SVJ (ECE)	SG (BS)	GTR (ME)	KR (ECE)	LKK (AIML)	SRC (BS)
		IV	SSB (CSE)			LN (ME)				MV (BS)				LC (BS)			MS (BS)
	1:30 pm to 2:30 pm	II	KBM (ECE)	ST (CSE)	STS (CSE)	AP (ECE)	NV (BS)	RH (CSE)	AS (AIML)	NM (ME)	SB (CSD)	SS (ECE)	RKM (AIML)	MBR (ME)	DB (ECE)	KK (CSE)	RJ (CSE)
		IV	SD (CSE)			NP (CSE)				SA (CSD)				LKK (CSE)			SGK (BS)
	3:00 pm to 4:00 pm	II	X	X	X	X	X	X	X	X	SKB (ECE)	CJ (ECE)	AK (ME)	KP (ME)	RC (BS)	SRC (BS)	TR (BS)
		IV	X	X	X	X	X	X	X	X							
2/8/2023 WEDNESD AY	9:30 am to 10:30 am	II	NKS (ME)	SB (CSD)	SKB (ECE)	MV (BS)	CJ (ECE)	AR (ECE)	ST (CSE)	KR (ECE)	KTN (BS)	LC (BS)	KRS (BS)	MS (BS)	SGK (BS)	TR (BS)	LKK (CSE)
		IV	SA (CSD)			SS (AIML)				KK (CSE)				RJ (CSE)			SG (BS)
	1:30 pm to 2:30 pm	II	AK (ME)	SS (ECE)	KBN (CSE)	RN (ME)	HU (ME)	SVJ (ECE)	AP (ECE)	BS (BS)	SSB (CSE)	SD (CSE)	KTN (BS)	LKK (AIML)	MV (BS)	NM (ME)	KP (ME)
		IV	MN (BS)			KRS (BS)				ALB (CSE)				KG (CSE)			SN (BS)
	3:00 pm to 4:00 pm	II	MBR (ME)	TML (ME)	BHA (ECE)	LC (BS)	KBM (ECE)	NV (BS)	SRC (BS)	MS (BS)	SGK (BS)	TR (BS)	LKK (CSE)	RH (CSE)	NP (CSE)	SG (BS)	NKS (ME)
		IV	RKM (AIML)			DB (ECE)				RJ (CSE)				PHS (CSE)			LN (ME)

  
 26/7/23  
 ACADEMIC COORDINATOR

  
 PRINCIPAL  
 PRINCIPAL

**K.S. INSTITUTE OF TECHNOLOGY**  
 - BENGALURU - 560 109.

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

II & IV SEMESTER

SECOND SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

BLACK BOARD

ROOM No: NB LH 104 (1ST FLOOR)

CS II 'C' SEC	ECE IV 'A' SEC	CS II 'C' SEC
1KS22CS169	1KS21EC001	1KS22CS175
1KS22CS170	1KS21EC002	1KS22CS176
1KS22CS171	1KS21EC003	1KS22CS177
1KS22CS172	1KS21EC004	1KS22CS178
1KS22CS173	1KS21EC005	1KS22CS179
1KS22CS174	1KS21EC006	1KS22CS180

ECE IV 'A' SEC	CS II 'C' SEC	ECE IV 'A' SEC
1KS21EC007	1KS22CS181	1KS21EC014
1KS21EC008	1KS22CS182	1KS21EC015
1KS21EC009	1KS22CS183	1KS21EC016
1KS21EC010	1KS22CS184	1KS21EC017
1KS21EC011	1KS22CS185	1KS21EC018
1KS21EC013	1KS22CS186	1KS21EC019

CS II 'C' SEC CSD II 'D' SEC	ECE IV 'A' SEC	CSD II 'D' SEC
1KS22CS187	1KS21EC020	1KS22CG004
1KS22CS188	1KS21EC021	1KS22CG005
1KS21CS013	1KS21EC023	1KS22CG006
<b>1KS22CG001</b>	1KS21EC024	1KS22CG007
1KS22CG002	1KS21EC025	1KS22CG008
1KS22CG003	1KS21EC026	1KS22CG009

ECE IV 'A' SEC Total = 24

CS II 'C' SEC=21 CSD II 'D' SEC =9 Total = 30

*J. Hanumanth*  
22/7/23  
**ACADEMIC COORDINATOR**

Head of the Department  
Dept. of Mechanical Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.

*Shumal . G*  
**PRINCIPAL**

PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

II & IV SEMESTER

SECOND SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

BLACK BOARD

Room No: NB LH 202 (2ND FLOOR)

CSD II 'D' SEC	ECE IV 'A' SEC	CSD II 'D' SEC
1KS22CG010	1KS21EC027	1KS22CG016
1KS22CG011	1KS21EC028	1KS22CG017
1KS22CG012	1KS21EC029	1KS22CG018
1KS22CG013	1KS21EC030	1KS22CG019
1KS22CG014	1KS21EC031	1KS22CG020
1KS22CG015	1KS21EC032	1KS22CG021

ECE IV 'A' SEC	CSD II 'D' SEC	ECE IV 'A' SEC
1KS21EC033	1KS22CG022	1KS21EC040
1KS21EC035	1KS22CG023	1KS21EC041
1KS21EC036	1KS22CG024	1KS21EC042
1KS21EC037	1KS22CG025	1KS21EC043
1KS21EC038	1KS22CG026	1KS21EC044
1KS21EC039	1KS22CG027	1KS21EC045

CSD II 'D' SEC	ECE IV 'A' SEC	CSD II 'D' SEC
1KS22CG028	1KS21EC046	1KS22CG034
1KS22CG029	1KS21EC047	1KS22CG035
1KS22CG030	1KS21EC048	1KS22CG036
1KS22CG031	1KS21EC049	1KS22CG037
1KS22CG032	1KS21EC050	1KS22CG038
1KS22CG033	1KS21EC051	1KS22CG039

ECE IV 'A' SEC Total = 24

CSD II 'D' SEC Total = 30

  
22/7/23  
ACADEMIC COORDINATOR

Head of the Department  
Dept. of Mechanical Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.

  
PRINCIPAL  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

II & IV SEMESTER

SECOND SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

BLACK BOARD

ROOM No: NB LH 203 (2ND FLOOR)

CSD II 'D' SEC	ECE IV 'A' SEC	CSD II 'D' SEC
1KS22CG040	1KS21EC053	1KS22CG046
1KS22CG041	1KS21EC054	1KS22CG047
1KS22CG042	1KS21EC055	1KS22CG048
1KS22CG043	1KS21EC056	1KS22CG049
1KS22CG044	1KS21EC058	1KS22CG050
1KS22CG045	1KS21EC059	1KS22CG051

ECE IV 'A' SEC	CSD II 'D' SEC	ECE IV 'A&B' SEC
1KS21EC060	1KS22CG052	1KS21EC066
1KS21EC061	1KS22CG053	1KS21EC067
1KS21EC062	1KS22CG054	1KS21EC068
1KS21EC063	1KS22CG055	<b>1KS21EC069</b>
1KS21EC064	1KS22CG056	1KS21EC070
1KS21EC065	1KS22CG057	1KS21EC071

CSD II 'D' SEC	ECE IV 'B' SEC	AIML II 'E' SEC
1KS22CG058	1KS21EC072	1KS22AI001
1KS22CG059	1KS21EC073	1KS22AI002
1KS22CG060	1KS21EC074	1KS22AI003
1KS22CG061	1KS21EC075	1KS22AI004
1KS22CG062	1KS21EC076	1KS22AI005
	1KS21EC077	1KS22AI006

ECE IV 'A & B' SEC Total = 24

CSD II 'D' SEC=23 AIML II 'E' Sec=6 Total = 29

*J. Manjunath*  
22/7/23  
ACADEMIC COORDINATOR

Head of the Department  
Dept. of Mechanical Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.

*Sharma. G*  
PRINCIPAL  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## II & IV SEMESTER

### SECOND SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

BLACK BOARD

**ROOM No: NB SH 204 ( 2ND FLOOR )**

AIML II 'E' SEC	ECE IV 'B' SEC	AIML II 'E' SEC
1KS22AI007	1KS21EC078	1KS22AI017
1KS22AI008	1KS21EC080	1KS22AI018
1KS22AI009	1KS21EC081	1KS22AI019
1KS22AI010	1KS21EC082	1KS22AI020
1KS22AI011	1KS21EC083	1KS22AI021-
1KS22AI012	1KS21EC084	1KS22AI022
1KS22AI013	1KS21EC085	1KS22AI023
1KS22AI014	1KS21EC086	1KS22AI024
1KS22AI015	1KS21EC087	1KS22AI025
1KS22AI016	1KS21EC088	1KS22AI026

ECE IV 'B' SEC	AIML II 'E' SEC	ECE IV 'B' SEC
1KS21EC089	1KS22AI027	1KS21EC100
1KS21EC090	1KS22AI028	1KS21EC101
1KS21EC091	1KS22AI029	1KS21EC102
1KS21EC092	1KS22AI030	1KS21EC103
1KS21EC093	1KS22AI031	1KS21EC104
1KS21EC095	1KS22AI032	1KS21EC105
1KS21EC096	1KS22AI033	1KS21EC106
1KS21EC097	1KS22AI034	1KS21EC107
1KS21EC098	1KS22AI035	1KS21EC108
1KS21EC099	1KS22AI036	1KS21EC109

AIML II 'E' SEC	ECE IV 'B' SEC	AIML II 'E' SEC
1KS22AI037	1KS21EC110	1KS22AI047
1KS22AI038	1KS21EC111	1KS22AI048
1KS22AI039	1KS21EC112	1KS22AI049
1KS22AI040	1KS21EC113	1KS22AI050
1KS22AI041	1KS21EC114	1KS22AI051
1KS22AI042	1KS21EC115	1KS22AI052
1KS22AI043	1KS21EC116	1KS22AI053
1KS22AI044	1KS21EC117	1KS22AI054
1KS22AI045	1KS21EC118	1KS22AI055
1KS22AI046	1KS21EC120	1KS22AI056
		1KS22AI057

**ECE IV 'B' SEC Total = 40**

**AIML II 'E' Sec Total = 51**

*[Signature]*  
22/7/23

**ACADEMIC COORDINATOR**

Head of the Department  
Dept. of Mechanical Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.

*[Signature]*

**PRINCIPAL**

PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

# K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

II & IV SEMESTER

SECOND SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)

BLACK BOARD

Room No: NB LH 205 (2ND FLOOR)

AIML II 'E' SEC	ECE IV 'B' SEC	ECE II 'F' SEC
1KS22AI058	1KS21EC121	1KS22EC001
1KS22AI059	1KS22EC400	1KS22EC002
1KS22AI060	1KS22EC401	1KS22EC003
1KS22AI061	1KS22EC402	1KS22EC004
1KS22AI062	1KS22EC403	1KS22EC005
1KS22AI063	1KS22EC404	1KS22EC006

ECE IV 'B' SEC	ECE II 'F' SEC	ECE IV 'B' SEC AIML-IV
1KS22EC405	1KS22EC007	1KS22EC411
1KS22EC406	1KS22EC008	1KS22EC412
1KS22EC407	1KS22EC009	1KS21AI001
1KS22EC408	1KS22EC010	1KS21AI002
1KS22EC409	1KS22EC011	1KS21AI003
1KS22EC410	1KS22EC012	1KS21AI004

ECE II 'F' SEC	AIML IV SEM	ECE II 'F' SEC
1KS22EC013	1KS21AI005	1KS22EC019
1KS22EC014	1KS21AI006	1KS22EC020
1KS22EC015	1KS21AI007	1KS22EC021
1KS22EC016	1KS21AI008	1KS22EC022
1KS22EC017	1KS21AI009	1KS22EC023
1KS22EC018	1KS21AI010	1KS22EC024

ECE IV 'B' SEC=14 AIML IV =10 Total = 24

AIML II 'E' Sec=6 ECE II 'F' Sec=24 Total = 30

  
22/7/23  
ACADEMIC COORDINATOR

Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

  
PRINCIPAL

PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of IV 'A' for Second Internal Test (2022-2023)**

Room No: NB 104

SLNO	REGISTER NO.	MATHS FOR COMMUNICATION ENGINEERS (21EC41)	DIGITAL SIGNAL PROCESSING (21EC42)	CIRCUITS & CONTROLS (21EC43)	BIOLOGY FOR ENGINEERS (21BE45)	COMMUNICATION THEORY (21EC44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETHICS (CIP) 21CI47	UNIVERSAL HUMAN VALUES (21UH49)
1	IKS21EC001	Anshya B	Anshya B	Anshya B	Anshya B	Anshya B	Anshya B	Anshya B
2	IKS21EC002	Anshya B	Anshya B	Anshya B	Anshya B	Anshya B	Anshya B	Anshya B
3	IKS21EC003	Abhilek	Abhilek	Abhilek	Abhilek	Abhilek	Abhilek	Abhilek
4	IKS21EC004	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
5	IKS21EC005	Ashray A	Ashray A	Ashray A	Ashray A	Ashray A	Ashray A	Ashray A
6	IKS21EC006	Aam	Aam	Aam	Aam	Aam	Aam	Aam
7	IKS21EC007	Akshay B	Akshay B	Akshay B	Akshay B	Akshay B	Akshay B	Akshay B
8	IKS21EC008	Anagha	Anagha	Anagha	Anagha	Anagha	Anagha	Anagha
9	IKS21EC009	Anudha	Anudha	Anudha	Anudha	Anudha	Anudha	Anudha
10	IKS21EC010	Archana G	Archana G	Archana G	Archana G	Archana G	Archana G	Archana G
11	IKS21EC011	Aarchana M	Aarchana M	Aarchana M	Aarchana M	Aarchana M	Aarchana M	Aarchana M
12	IKS21EC013	Ashwini S	Ashwini S	Ashwini S	Ashwini S	Ashwini S	Ashwini S	Ashwini S
13	IKS21EC014	Ashwin S	Ashwin S	Ashwin S	Ashwin S	Ashwin S	Ashwin S	Ashwin S
14	IKS21EC015	Ashwin S	Ashwin S	Ashwin S	Ashwin S	Ashwin S	Ashwin S	Ashwin S
15	IKS21EC016	-AB-	-AB-	-AB-	-AB-	(AB)	(AB)	-AB-
16	IKS21EC017	Aaryan	Aaryan	Aaryan	Aaryan	Aaryan	Aaryan	Aaryan
17	IKS21EC018	Bhavya K	Bhavya K	Bhavya K	Bhavya K	Bhavya K	Bhavya K	Bhavya K
18	IKS21EC019	Shikha	Shikha	Shikha	Shikha	Shikha	Shikha	Shikha
19	IKS21EC020	Bindu	Bindu	Bindu	Bindu	Bindu	Bindu	Bindu
20	IKS21EC021	Chitra	Chitra	Chitra	Chitra	Chitra	Chitra	Chitra
21	IKS21EC023	Chiranth V	Chiranth V	Chiranth V	Chiranth V	Chiranth V	Chiranth V	Chiranth V
22	IKS21EC024	Charitha	Charitha	Charitha	Charitha	Charitha	Charitha	Charitha
23	IKS21EC025	Charitha	Charitha	Charitha	Charitha	Charitha	Charitha	Charitha
24	IKS21EC026	Charitha	Charitha	Charitha	Charitha	Charitha	Charitha	Charitha
DATE:		31/07/23	31/7/23	01/8/23	1/8/23	2/8/23	2/8/23	2/8/23
NO. OF STUDENTS PRESENT		23	22	23	23	23	23	23
NO. OF STUDENTS ABSENT		01	02	01	01	01	01	01
NAME OF INVIGILATOR		RASHMI H	Vishalini	M	Navan V	PHS	Mahesh	Kavya B
SIGNATURE OF INVIGILATOR		Rashmi H	ISO	H	Navan V	PHS	Mahesh	Kavya B

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of IV 'A' for Second Internal Test (2022-2023)**

Room No: NB 202

SLNO	REGISTER NO.	MATRS FOR COMMUNICATION ENGINEERS (21EC41)	DEGITAL SIGNAL PROCESSING (21EC42)	CIRCUITS & CONTROLS (21EC43)	BIOLOGY FOR ENGINEERS (21EE45)	COMMUNICATIION THEORY (21EC44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETHICS ((IP) 21CP47)	UNIVERSAL HUMAN VALUES (21UH49)
1	IKS21EC027	keepita	keepita	keepita	keepita	keepita	keepita	keepita
2	IKS21EC028	Gayal	Gayal	Gayal	Gayal	Gayal	Gayal	Gayal
3	IKS21EC029	G.N	G.N	G.N	G.N	G.N	G.N	G.N
4	IKS21EC030	-AB-	-AB-	-AB-	-AB-	←AB→	(H)	←AB-
5	IKS21EC031	-A.S-	-AB-	Gundakar	Gundakar	Gundakar	Gundakar	Gundakar
6	IKS21EC032	hannajal	hannajal	hannajal	hannajal	hannajal	hannajal	hannajal
7	IKS21EC033	Hemath D A	Hemath D A	Hemath D A	Hemath D A	Hemath D A	Hemath D A	Hemath D A
8	IKS21EC035	Prat	Prat	Prat	Prat	Prat	Prat	Prat
9	IKS21EC036	Karanth	Karanth	Karanth	Karanth	←AB→	Karanth	Karanth
10	IKS21EC037	Kutthanas	Kutthanas	Kutthanas	Kutthanas	Kutthanas	Kutthanas	Kutthanas
11	IKS21EC038	Komalant	Komalant	Komalant	Komalant	Komalant	Komalant	Komalant
12	IKS21EC039	Ku	Ku	Ku	Ku	Ku	Ku	Ku
13	IKS21EC040	Kusuma	Kusuma	Kusuma	Kusuma	Kusuma	Kusuma	Kusuma
14	IKS21EC041	Likitha	Likitha	Likitha	Likitha	Likitha	Likitha	Likitha
15	IKS21EC042	Sh	Sh	Sh	Sh	←AB→	Sh	Sh
16	IKS21EC043	Lohith B	Lohith B	Lohith B	Lohith B	Lohith B	Lohith B	Lohith B
17	IKS21EC044	Lohithy	Lohithy	Lohithy	Lohithy	Lohithy	Lohithy	Lohithy
18	IKS21EC045	manu	manu	manu	manu	←AB→	manu	manu
19	IKS21EC046	-AB-	-AB-	-AB-	-AB-	Meghana	Meghana	Meghana
20	IKS21EC047	Misban	Misban	Misban	Misban	Misban	Misban	Misban
21	IKS21EC048	Mith	Mith	Mith	Mith	Mith	Mith	Mith
22	IKS21EC049	Nash	Nash	Nash	Nash	Nash	Nash	Nash
23	IKS21EC050	Paul	Paul	Paul	Paul	Paul	Paul	Paul
24	IKS21EC051	P.Dani	P.Dani	P.Dani	P.Dani	P.Dani	P.Dani	P.Dani
DATE:			5/12/23	01/08/23	01/08/23	2/8/23	2/8/23	2/8/23
NO. OF STUDENTS PRESENT	21	21	22	22	20	23	23	23
NO. OF STUDENTS ABSENT	03	03	02	02	04	01	01	01
NAME OF INVIGILATOR	Prasad	Naveen V	Harish	Lakshmi KK	Devika B	Shruti Jishi	Naveen V	
SIGNATURE OF INVIGILATOR	Prasad	Naveen	Harish	Lakshmi	Devika	Shruti	Naveen	













**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

**SET: A**

USN 

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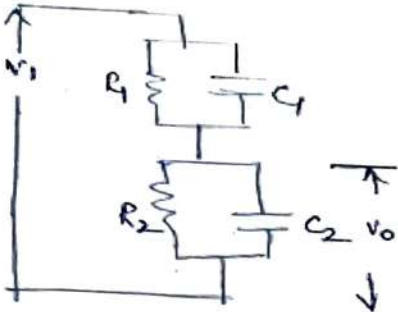
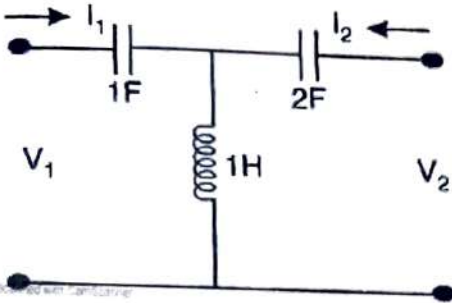
Degree : B.E  
 Branch - Stream : ECE  
 Course Title : Circuits & Controls  
 Duration : 60 Minutes

Semester : 4<sup>th</sup>  
 Course Type / Code : Core/21EC43  
 Date : 1<sup>st</sup> Aug 2023  
 Max Marks : 20

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating


Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Obtain transfer function for given signal flow graph 	4	CO3	K3
(b)	Reduce the given block using block reduction technique and obtain transfer function 	4	CO3	K3
(c)	Write differential equations for the network given below and find transfer function for the same 	4	CO3	K3
<b>OR</b>				
2(a)	Draw signal flow graph and obtain transfer function 	4	CO3	K3
(b)	Find the transfer function using block reduction method for the given block 	4	CO3	K3

(c)	<p>Write differential equations for the network given below and find transfer function for the same</p> 	4	CO3	K3
<b>PART - B</b>				
3(a)	<p>Voltages <math>V_1</math> and <math>V_2</math> at the port of a 2-port network are given by the equations  <math>V_1 = 6I_1 + 20I_2</math>  <math>V_2 = 20I_1 + 40I_2</math>          Find ABCD &amp; Y parameters</p>	4	CO2	K3
(b)	<p>Check the stability of the given characteristic equation using Routh Hurwitz criteria  <math>S^6 + 2S^5 + 8S^4 + 12S^3 + 20S^2 + 16S + 16</math>. Find roots on RHS, LHS and on imaginary axis</p>	4	CO4	K3
<b>OR</b>				
4(a)	<p>Determine the h parameter &amp; Z parameter for the network given below</p> 	4	CO2	K3
(b)	<p>The polynomial <math>P(s) = S^2 + 4S + 4</math>. Using RH criteria determine the stability of the system and also determine roots lying between <math>S=0</math> and <math>S=-1</math></p> <p>and</p> <p>For the system with characteristic equation <math>S^4 + 22S^3 + 10S^2 + S + K = 0</math> find <math>K_{mar}</math> and 'w' at <math>K_{mar}</math></p>	4	CO4	K3

  
 Name & Signature of  
 Course In charge

  
 Name & Signature of  
 Module Coordinator

  
 HOD ECE

  
 Principal  
 S. Subash d.



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022 – 23, EVEN SEMESTER**

Set B

USN	1	K	S			E	C		
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Degree : B.E  
 Branch : Electronics and Communication Engineering  
 Course Title : Circuits and Controls  
 Duration : 60 Minutes

Semester : IVA & B  
 Course Code : 21EC43  
 Date : 1.8.2023  
 Max Marks : 25

**Note: Answer ONE full question from each part.**

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	Identify and define control System? Distinguish between closed loop and open loop system with example. .	5	CO3	Applying-K3
(b)	Make Use of Block diagram reduction techniques to find transfer function of given Block 	5	CO3	Applying-K3
(c)	Make use of Mason Gain formula to find Transfer of the given SFG. 	5	CO3	Applying-K3
2(a)	Make use of differential model equation to find the transfer function of the given electrical Network . 	5	CO3	Applying-K3
(b)	Make Use of Block diagram reduction techniques to find transfer function of given Block	5	CO3	Applying-K3

(c)	<p>Make use of Mason Gain formula to find Transfer of the given SFG.</p>	5	CO3	Applying-K3
3(a)	<p>Identify the T-parameters of the given Network</p>	5	CO2	Applying-K3
(b)	<p>Identify the stability of given Characteristic using Routh method <math>S^3+S^2+S+4=0</math></p>	5	CO4	Applying-K3
4(a)	<p>Identify the H-parameters of the given Network</p>	5	CO2	Applying-K3
(b)	<p>Identify the stability of given Characteristic using Routh method <math>S^4+8S^3+18S^2+16S+5=0</math></p>	5	CO4	Applying-K3

Christo [Signature]

Name & Signature of Course In charge

[Signature]

Name & Signature of Module Coordinator

[Signature]

HOD ECE

[Signature]

Principal





# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

IV SEM

THIRD SESSIONAL TEST TIME TABLE (2022-2023)

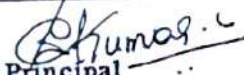
(EVEN SEMESTER 2023)

Date : 28/08/2023

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
6/09/2023 Wednesday	9:30 AM To 10:30 AM	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21EC41</b> Maths for Communication Engineers	<b>21ME41</b> Complex Analysis, Probability and Linear Programming
	2:00 PM To 3:00 PM	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21EC42-</b> Digital Signal Processing	<b>21ME42</b> Machining Science and Jigs & Fixtures
7/09/2023 Thursday	9:30 AM To 10:30 AM	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21EC43</b> Circuits & Controls	<b>21ME43</b> Fluid Mechanics
	1:30 PM To 2:30 PM	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers
8/09/2023 Friday	9:30 AM To 10:30 AM	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21EC44</b> Communication Theory	<b>21ME44</b> Mechanics of Materials
	1:30 PM To 2:30 PM	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK37/47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada	<b>21KSK47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada
	3:00 PM To 4:00 PM	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.


  
Academic Coordinator  
Head of the Department  
Dept. of Mechanical Engg  
K.S. Institute of Technology  
Bangalore - 560 109.

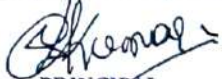
  
Principal  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## IV SEMESTER - 3rd CIE TEST INVIGILATION DUTY (2022-2023)

Date	Timings	NB 101	NB SH 303 (3rd Floor)	NB 104	NB 202	NB 203	NB SH 204 (2nd Floor)	NB 205	NB 301	NB 302	NB 304
6/9/2023 WEDNESDAY	9:30 am to 10:30 am	BS (BS)	SS (AIML)	MN (BS)	STS (CSE)	RR (CSE)	SKB (ECE)	SG (BS)	NP (AIML)	KBM (ECE)	BHA (ECE)
			SA (CSD)				AS (AIML)				
	2:00 pm to 3:00 pm	SG (BS)	RH (CSE)	GK (CSD)	MV (BS)	SGK (BS)	TR (BS)	ALB (CSE)	SSB (CSE)	CJ (ECE)	NP (AIML)
			SKB (ECE)				AP (ECE)				
7/9/2023 THURSDAY	9:30 am to 10:30 am	SRC (BS)	RR (CSE)	SG (BS)	RH (CSE)	SD (CSE)	BHA (ECE)	SKB (ECE)	NV (BS)	ALB (CSE)	SSB (CSE)
			SCH (CSE)				SA (CSD)				
	1:30 pm to 2:30 pm	KBN (CSE)	AP (ECE)	KBM (ECE)	CJ (ECE)	TML (ME)	RKM (AIML)	LN (ME)	GK (CSD)	LKK (AIML)	SS (AIML)
			HU (ME)				LC (BS)				
8/9/2023 FRIDAY	9:30 am to 10:30 am	KT (CSE)	BHA (ECE)	AP (ECE)	KBM (ECE)	PHS (CSE)	AS (AIML)	KBN (CSE)	CJ (ECE)	GK (CSD)	LKK (AIML)
			RKM (AIML)				HU (ME)				
	1:30 pm to 2:30 pm	SSB (CSE)	NM (ME)	ALB (CSE)	SKB (ECE)	LN (ME)	SA (CSD)	NP (CSE)	SD (CSE)	TML (ME)	GK (CSD)
			LKK (AIML)				SG (BS)				
	3:00 pm to 4:00 pm	CJ (ECE)	SA (CSD)	AS (AIML)	RKM (AIML)	RH (CSE)	SS (AIML)	KBM (ECE)	AP (ECE)	BHA (ECE)	PHS (CSE)
			NP (AIML)				MS (BS)				

  
 5/9/23  
 ACADEMIC COORDINATOR  
 Head of the Department  
 Dept. of Mechanical Engg  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

  
 PRINCIPAL  
 PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.

# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

IV SEMESTER

THIRD SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER)

BLACK BOARD


ROOM No: NB LH 101 (1ST FLOOR)

CS IV 'A' SEC	EC IV 'A' SEC	CS IV 'A' SEC	EC IV 'A' SEC	CS IV 'A' SEC	EC IV 'A' SEC
1KS21CS001	1KS21EC001	1KS21CS007	1KS21EC007	1KS21CS014	1KS21EC014
1KS21CS002	1KS21EC002	1KS21CS008	1KS21EC008	1KS21CS015	1KS21EC015
1KS21CS003	1KS21EC003	1KS21CS009	1KS21EC009	1KS21CS016	1KS21EC016
1KS21CS004	1KS21EC004	1KS21CS010	1KS21EC010	1KS21CS017	1KS21EC017
1KS21CS005	1KS21EC005	1KS21CS011	1KS21EC011	1KS21CS018	1KS21EC018
1KS21CS006	1KS21EC006	1KS21CS012	1KS21EC013	1KS21CS020	1KS21EC019

CS 'A' SEC Total = 18

EC 'A' SEC Total = 18

  
28/8/23  
**ACADEMIC COORDINATOR**  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
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**PRINCIPAL**  
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BENGALURU - 560 109

# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## IV SEMESTER

### THIRD SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER)

303

BLACK BOARD

ROOM No: NB 103 SEMINAR HALL (1ST FLOOR)

CS IV 'A' SEC	EC IV 'A' SEC	CS IV 'A' SEC	EC IV 'A' SEC	CS IV 'A' SEC	EC IV 'A' SEC
1KS21CS021	1KS21EC020	1KS21CS031	1KS21EC031	1KS21CS041	1KS21EC042
1KS21CS022	1KS21EC021	1KS21CS032	1KS21EC032	1KS21CS042	1KS21EC043
1KS21CS023	1KS21EC023	1KS21CS033	1KS21EC033	1KS21CS043	1KS21EC044
1KS21CS024	1KS21EC024	1KS21CS034	1KS21EC035	1KS21CS045	1KS21EC045
1KS21CS025	1KS21EC025	1KS21CS035	1KS21EC036	1KS21CS046	1KS21EC046
1KS21CS026	1KS21EC026	1KS21CS036	1KS21EC037	1KS21CS047	1KS21EC047
1KS21CS027	1KS21EC027	1KS21CS037	1KS21EC038	1KS21CS048	1KS21EC048
1KS21CS028	1KS21EC028	1KS21CS038	1KS21EC039	1KS21CS049	1KS21EC049
1KS21CS029	1KS21EC029	1KS21CS039	1KS21EC040	1KS21CS050	1KS21EC050
1KS21CS030	1KS21EC030	1KS21CS040	1KS21EC041	1KS21CS051	1KS21EC051

CS 'A' SEC Total = 30

EC 'A' SEC Total = 30

*Shanmug*  
28/8/23  
ACADEMIC COORDINATOR

Head of the Department  
Dept. of Mechanical Engg  
K.S. Institute of Technology  
Bangalore - 560 109

*Shanmug*  
PRINCIPAL

PRINCIPAL  
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BANGALURU - 560 109

K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

IV SEMESTER

THIRD SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER)

BLACK BOARD

ROOM No: NB LH 104 ( 1ST FLOOR )

CS IV 'A' SEC	EC IV 'A' SEC	CS IV 'A' SEC	EC IV 'A' SEC	CS IV 'A' SEC	EC IV 'A' SEC
1KS21CS052	1KS21EC053	1KS21CS058	1KS21EC060	1KS22CS403	1KS21EC066
1KS21CS053	1KS21EC054	1KS21CS059	1KS21EC061	1KS22CS404	1KS21EC067
1KS21CS054	1KS21EC055	1KS21CS060	1KS21EC062	1KS22CS405	1KS21EC068
1KS21CS055	1KS21EC056	1KS21CS119	1KS21EC063	1KS22CS408	
1KS21CS056	1KS21EC058	1KS21CS120	1KS21EC064	1KS22CS411	1KS22CS414
1KS21CS057	1KS21EC059	1KS22CS401	1KS21EC065	1KS22CS413	

CS 'A' SEC Total = 19

EC 'A' SEC Total = 15

*Alhassan*  
28/8/23  
**ACADEMIC COORDINATOR**  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

*Shunag*  
**PRINCIPAL**  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**IV SEMESTER**  
**THIRD SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER)**

BLACK BOARD

ROOM No: NB LH 202 (2ND FLOOR)

CS IV 'B' SEC	EC IV 'B' SEC	CS IV 'B' SEC	EC IV 'B' SEC	CS IV 'B' SEC	EC IV 'B' SEC
1KS21CS061	1KS21EC069	1KS21CS067	1KS21EC075	1KS21CS074	1KS21EC082
1KS21CS062	1KS21EC070	1KS21CS068	1KS21EC076	1KS21CS075	1KS21EC083
1KS21CS063	1KS21EC071	1KS21CS069	1KS21EC077	1KS21CS076	1KS21EC084
1KS21CS064	1KS21EC072	1KS21CS070	1KS21EC078	1KS21CS077	1KS21EC085
1KS21CS065	1KS21EC073	1KS21CS071	1KS21EC080	1KS21CS078	1KS21EC086
1KS21CS066	1KS21EC074	1KS21CS072	1KS21EC081	1KS21CS079	1KS21EC087

CS 'B' SEC Total = 18

EC 'B' SEC Total = 18

*[Signature]*  
 28/8/23  
**ACADEMIC COORDINATOR**  
 Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

*[Signature]*  
**PRINCIPAL**  
 PRINCIPAL  
**K.S. INSTITUTE OF TECHNOLOGY**  
 BENGALURU - 560 109

# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

IV SEMESTER

THIRD SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER)

BLACK BOARD

ROOM No: NB LH 203 (2ND FLOOR)

CS IV 'B' SEC	EC IV 'B' SEC	CS IV 'B' SEC	EC IV 'B' SEC	CS IV 'B' SEC	EC IV 'B' SEC
1KS21CS080	1KS21EC088	1KS21CS086	1KS21EC095	1KS21CS092	1KS21EC101
1KS21CS081	1KS21EC089	1KS21CS087	1KS21EC096	1KS21CS093	1KS21EC102
1KS21CS082	1KS21EC090	1KS21CS088	1KS21EC097	1KS21CS094	1KS21EC103
1KS21CS083	1KS21EC091	1KS21CS089	1KS21EC098	1KS21CS095	1KS21EC104
1KS21CS084	1KS21EC092	1KS21CS090	1KS21EC099	1KS21CS096	1KS21EC105
1KS21CS085	1KS21EC093	1KS21CS091	1KS21EC100	1KS21CS097	1KS21EC106

CS 'B' SEC Total = 18

EC 'B' SEC Total = 18

*[Signature]*  
28/8/23  
ACADEMIC COORDINATOR  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

*[Signature]*  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109

## IV SEMESTER

### THIRD SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER)

#### BLACK BOARD


**ROOM No: NB 204 SEMINAR HALL (2ND FLOOR)**


CS IV 'B' SEC	MECH IV SEM	EC IV 'B' SEC	CS IV 'B' SEC	MECH IV SEM	EC IV 'B' SEC	CS IV 'B' SEC	EC IV 'B' SEC
1KS21CS098	1KS21ME001	1KS21EC107	1KS21CS108	1KS21ME010	1KS21EC117	1KS22CS400	1KS22EC406
1KS21CS099	1KS21ME002	1KS21EC108	1KS21CS109	1KS21ME011	1KS21EC118	1KS22CS402	1KS22EC407
1KS21CS100	1KS21ME003	1KS21EC109	1KS21CS110	1KS22ME400	1KS21EC120	1KS22CS406	1KS22EC408
1KS21CS101	1KS21ME004	1KS21EC110	1KS21CS111	1KS22ME401	1KS21EC121	1KS22CS407	1KS22EC409
1KS21CS102	1KS21ME005	1KS21EC111	1KS21CS112	1KS22ME402	1KS22EC400	1KS22CS409	1KS22EC410
1KS21CS103	1KS21ME006	1KS21EC112	1KS21CS113	1KS22ME403	1KS22EC401	1KS22CS410	1KS22EC411
1KS21CS104	1KS21ME007	1KS21EC113	1KS21CS114	1KS22ME404	1KS22EC402	1KS22CS412	1KS22EC412
1KS21CS105	1KS21ME008	1KS21EC114	1KS21CS115	1KS22ME405	1KS22EC403	1KS22CS415	
1KS21CS106	1KS21ME009	1KS21EC115	1KS21CS116		1KS22EC404	1KS22CS416	
1KS21CS107		1KS21EC116	1KS21CS117		1KS22EC405		

CS 'B' SEC Total = 29

EC 'B' SEC Total = 27

ME Total = 17

  
 28/2/23  
**ACADEMIC COORDINATOR**  
 Head of the Department  
 Dept. of Mechanical Engg  
 K. S. Institute of Technology  
 Bengaluru - 560 109.

  
**PRINCIPAL**  
**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109**





**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of IV 'A' for Third Internal Test (2022-2023)**

Room No: NB 1.H 104

SLN O	REGISTER NO.	MATHS FOR COMMUNICATION ENGINEERS (21EC41)	DIGITAL SIGNAL PROCESSING (21EC42)	CIRCUITS & CONTROLS (21EC43)	BIOLOGY FOR ENGINEERS (21BE45)	COMMUNICATION THEORY (21EC44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETHICS (CIPE) 21CI47	UNIVERSAL HUMAN VALUES (21UH49)
1	1KS21EC053	As	As	As	As	As	As	As
2	1KS21EC054	Nas	Nas	ms	ms	Nas	Nas	ms
3	1KS21EC055	Nayana J	Nayana J	ALL	ALL	Nayana J	Nayana J	ALL
4	1KS21EC056	Nayana J	Nayana J	Nayana J	Nayana J	Nayana J	Nayana J	Nayana J
5	1KS21EC058	Ankita N.P	Ankita N.P	Ankita N.P	Ankita N.P	Ankita N.P	Ankita N.P	Ankita N.P
6	1KS21EC059	Sh	Sh	Sh	Sh	Sh	Sh	Sh
7	1KS21EC060	masuthi	masuthi	masuthi	masuthi	masuthi	masuthi	masuthi
8	1KS21EC061	Pooja R	Pooja R	Pooja R	Pooja R	Pooja R	Pooja R	Pooja R
9	1KS21EC062	Prasanna D	Prasanna D	Prasanna D	Prasanna D	Prasanna D	Prasanna D	Prasanna D
10	1KS21EC063	Pranjwal G	Pranjwal G	Pranjwal G	Pranjwal G	Pranjwal G	Pranjwal G	Pranjwal G
11	1KS21EC064	Sh	Sh	Sh	Sh	Sh	Sh	Sh
12	1KS21EC065	prajwal G	prajwal G	prajwal G	prajwal G	prajwal G	prajwal G	prajwal G
13	1KS21EC066	V	V	V	V	V	V	V
14	1KS21EC067	Prasanna	Prasanna	Prasanna	Prasanna	Prasanna	Prasanna	Prasanna
15	1KS21EC068	Preetham M	Preetham M	Preetham M	Preetham M	Preetham M	Preetham M	Preetham M
DATE:	6/9/23	6/9/23	7/9/23	7/9/23	7/9/23	8/9/2023	8/9/2023	8/9/2023
NO. OF STUDENTS PRESENT	15	15	15	15	15	15	15	15
NO. OF STUDENTS ABSENT	00	00	-	-	-	-	-	00
NAME OF INVIGILATOR	Mamatha	Geeta Kall	Shobha	Krupa	Anita	Kusl	Kusl	Sneha G
SIGNATURE OF INVIGILATOR								



**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**Department of Electronics and Communication Engineering**  
**Attendance of IV 'B' for Third Internal Test (2022-2023)**

Room No: NB LH 203

SL. NO	REGISTER NO.	MATHS FOR COMMUNICATION ENGINEERS (21EC41)	DIGITAL SIGNAL PROCESSING (21EC42)	CIRCUITS & CONTROLS (21EC43)	BIOLOGY FOR ENGINEERS (21BE45)	COMMUNICATION THEORY (21EC44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETHICS (CIP) 21CIP47	UNIVERSAL HUMAN VALUES (21UH49)
1	1KS21EC088	Lekha	Lekha	Lekha	Lekha	Lekha	Lekha	Lekha
2	1KS21EC089	<del>Lekha</del>	<del>Lekha</del>	<del>Lekha</del>	<del>Lekha</del>	<del>Lekha</del>	<del>Lekha</del>	<del>Lekha</del>
3	1KS21EC090	Shobha C.V.	Shobha C.V.	Shobha C.V.	Shobha C.V.	Shobha C.V.	Shobha C.V.	Shobha C.V.
4	1KS21EC091	\$	\$	\$	(AP)	\$	\$	\$
5	1KS21EC092	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta
6	1KS21EC093	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta
7	1KS21EC095	Spoorthy	Spoorthy	Spoorthy	Spoorthy	Spoorthy	Spoorthy	Spoorthy
8	1KS21EC096	Sri Lakshmi	Sri Lakshmi	Sri Lakshmi	Sri Lakshmi	Sri Lakshmi	Sri Lakshmi	Sri Lakshmi
9	1KS21EC097	Prinny	Prinny	Prinny	Prinny	Prinny	Prinny	Prinny
10	1KS21EC098	Prinny	Prinny	Prinny	Prinny	Prinny	Prinny	Prinny
11	1KS21EC099	Prinny	Prinny	Prinny	Prinny	Prinny	Prinny	Prinny
12	1KS21EC100	Prinny	Prinny	Prinny	Prinny	Prinny	Prinny	Prinny
13	1KS21EC101	Prinny	Prinny	Prinny	Prinny	Prinny	Prinny	Prinny
14	1KS21EC102	Prinny	Prinny	Prinny	Prinny	Prinny	Prinny	Prinny
15	1KS21EC103	Prinny	Prinny	Prinny	Prinny	Prinny	Prinny	Prinny
16	1KS21EC104	Tarun M	Tarun M	Tarun M	Tarun M	Tarun M	Tarun M	Tarun M
17	1KS21EC105	Diyashree	Diyashree	Diyashree	Diyashree	Diyashree	Diyashree	Diyashree
18	1KS21EC106	Tarun M	Tarun M	Tarun M	Tarun M	Tarun M	Tarun M	Tarun M
DATE:		6/9/22	6/9/2023	7/9/23	7/9/23	8/9/23	8/9/23	8/9/23
NO. OF STUDENTS PRESENT		18	12	18	17	18	18	18
NO. OF STUDENTS ABSENT		Nil	00	NIL	01	NIL	NIL	NIL
NAME OF INVIGILATOR		Romy R	ROOPAK MURTHY	SANJAY DAT	Tejaswini M.L	PHS	Satish	RASHMI
SIGNATURE OF INVIGILATOR		Romy	<del>Roopak</del>	<del>Sanjay</del>	Tejaswini	<del>PHS</del>	<del>Satish</del>	<del>Rashmi</del>



K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109

Department of Electronics and Communication Engineering

Attendance of IV 'A' for Third Internal Test (2022-2023)

Room No: NB 303 Seminar Hall

SLN O	REGISTER NO.	MATHS FOR COMMUNICA TION ENGINEERS (21EC41)	DEGITAL SIGNAL PROCESSING (21EC42)	CIRCUITS & CONTROLS (21EC43)	BIOLOGY FOR ENGINEERS (21BE45)	COMMUNIC ATION THEORY (21EC44)	CONSTITUTIONS OF INDIA AND PROFESSIONAL ETHICS (CIP) (21CIP47)	UNIVERSAL HUMAN VALUES (21UH49)
1	1KS21EC020	Bindul	Bindul	Bindul	Bindul	Bindul	Bindul	Bindul
2	1KS21EC021	Chitra	Chitra	Chitra	Chitra	Chitra	Chitra	Chitra
3	1KS21EC023	Chiranth V.V	Chiranth V.V	Chiranth V.V	Chiranth V.V	Chiranth V.V	Chiranth V.V	Chiranth V.V
4	1KS21EC024	Charitha	Charitha	Charitha	Charitha	Charitha	Charitha	Charitha
5	1KS21EC025	A	Namini	Leah	Leah	Leah	Leah	Leah
6	1KS21EC026	A	A	A	A	A	A	A
7	1KS21EC027	Keerika	Keerika	Keerika	Keerika	Keerika	Keerika	Keerika
8	1KS21EC028	Gayathri	Gayathri	Gayathri	Gayathri	Gayathri	Gayathri	Gayathri
9	1KS21EC029	Gayathri	Gayathri	Gayathri	Gayathri	Gayathri	Gayathri	Gayathri
10	1KS21EC030	A	(AB)	(AB)	(AB)	(AB)	(AB)	(AB)
11	1KS21EC031	Gayathri	Gayathri	Gayathri	Gayathri	Gayathri	Gayathri	Gayathri
12	1KS21EC032	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L
13	1KS21EC033	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L
14	1KS21EC035	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L
15	1KS21EC036	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L
16	1KS21EC037	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L	Laxmi Raju L
17	1KS21EC038	Keevalan	Keevalan	Keevalan	Keevalan	Keevalan	Keevalan	Keevalan
18	1KS21EC039	Keevalan	Keevalan	Keevalan	Keevalan	Keevalan	Keevalan	Keevalan
19	1KS21EC040	Keevalan	Keevalan	Keevalan	Keevalan	Keevalan	Keevalan	Keevalan
20	1KS21EC041	Keevalan	Keevalan	Keevalan	Keevalan	Keevalan	Keevalan	Keevalan
21	1KS21EC042	Likitha	Likitha	Likitha	Likitha	Likitha	Likitha	Likitha
22	1KS21EC043	Likitha	Likitha	Likitha	Likitha	Likitha	Likitha	Likitha
23	1KS21EC044	Likitha	Likitha	Likitha	Likitha	Likitha	Likitha	Likitha
24	1KS21EC045	Likitha	Likitha	Likitha	Likitha	Likitha	Likitha	Likitha
25	1KS21EC046	Meghaan	Meghaan	Meghaan	Meghaan	Meghaan	Meghaan	Meghaan
26	1KS21EC047	Meghaan	Meghaan	Meghaan	Meghaan	Meghaan	Meghaan	Meghaan
27	1KS21EC048	Meghaan	Meghaan	Meghaan	Meghaan	Meghaan	Meghaan	Meghaan
28	1KS21EC049	Meghaan	Meghaan	Meghaan	Meghaan	Meghaan	Meghaan	Meghaan
29	1KS21EC050	P. Dadi	P. Dadi	P. Dadi	P. Dadi	P. Dadi	P. Dadi	P. Dadi
30	1KS21EC051	P. Dadi	P. Dadi	P. Dadi	P. Dadi	P. Dadi	P. Dadi	P. Dadi
DATE:		06/09/23	06/9/23	7/9/23	7/9/23	8/9/23	09/9/23	09/9/23
NO. OF STUDENTS PRESENT		28	29	29	29	28	29	29
NO. OF STUDENTS ABSENT		02	01	01	01	02	01	01
NAME OF INVIGILATOR		Sushma A	satish	Dr. S. S. C	Dr. S. S. C	Bhramanethi	Dr. S. S. C	Nayak
SIGNATURE OF INVIGILATOR		Sushma A	satish	Dr. S. S. C	Dr. S. S. C	Bhramanethi	Dr. S. S. C	Nayak



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

**SET: A**

USN 

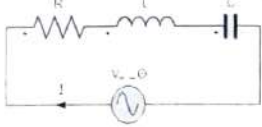
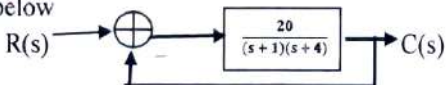
--	--	--	--	--	--	--	--	--	--

**Degree : B.E**  
**Branch- Stream : ECE**  
**Course Title : Circuits & Controls**  
**Duration : 60 Minutes**

**Semester : 4<sup>th</sup>**  
**Course Type / Code : Core/21EC43**  
**Date : 7<sup>th</sup> Sep 2023**  
**Max Marks : 20**

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Mar ks	CO	K- Level
<b>PART-A</b>				
1(a)	Obtain the State model equation for the given electrical system  Note: Output is taken across capacitor & Define State, State Vector, State variable & State transition matrix	4	CO5	K3
(b)	The open loop transfer function of a unity feedback system is $G(s) = \frac{1}{s((0.5s+1)(0.1s+1)}$ Draw Bode plot and find $W_{gc}$ , $W_{pc}$ , GM and PM comment on system stability	4	CO5	K3
(c)	Obtain the Root locus for the for the give transfer function $G(s)H(s) = \frac{K}{s((s+3)(s^2+3s+11.25)}$	4	CO5	K3
<b>OR</b>				
2(a)	Mention all the rules of root locus and obtain the root locus for the open loop transfer function $G(s)H(s) = \frac{K}{s((s+5)(s+10)}$ Find the range of K for system stability and K value for $\zeta = 0.707$	4	CO5	K3
(b)	Sketch Bode plot for the given $G(s)H(s) = \frac{K}{s((0.1s+1)(0.05s+1)}$ Find the value of K for gain margin of 10db.	4	CO5	K3
(c)	Find the state transition matrix for $A = \begin{bmatrix} 0 & -1 \\ 2 & -3 \end{bmatrix}$ .	4	CO5	K3
<b>PART-B</b>				
3(a)	Obtain the time response of a second order system subjected to unit step input for under damped condition.	4	CO4	K3
(b)	Obtain the close loop transfer function, damping ratio and output response for step input for the system given below 	4	CO4	K3
<b>OR</b>				
4(a)	A second order system is given by $\frac{C(s)}{R(s)} = \frac{25}{s^2+6s+25}$ . Find Rise Time, settling time Peak over shoot and Peak Time. Also find the output response: $C(t)$ .	4	CO4	K3
(b)	A system has 30% overshoot and settling time of 5 seconds for a Unit step input. Determine • 2 <sup>nd</sup> order Transfer function • Peak time • 3) Output response	4	CO4	K3

Name & Signature of Course In charge:

Name & Signature of Module Coordinator

HOD ECE

Principal

*Selected*



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

**SET: B**

USN 

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**Degree : B.E**  
**Branch- Stream : ECE**  
**Course Title : Circuits & Controls**  
**Duration : 60 Minutes**

**Semester : 4<sup>th</sup>**  
**Course Type / Code : Core/21EC43**  
**Date : 7<sup>th</sup> Sep 2023**  
**Max Marks : 20**

Note: Answer **ONE full** question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Mar ks	CO	K- Level
<b>PART-A</b>				
1(a)	<b>Identify</b> the state model of the given electrical network and find the output as current through resistor. 	4	CO5	K3
(b)	<b>Make use of</b> open loop transfer function of a unity feedback system is $G(s) = \frac{80}{s((s+2)(s+20))}$ Draw Bode plot and find $W_{gc}$ , $W_{pc}$ , GM and PM comment on system stability	4	CO5	K3
(c)	<b>Make use of</b> transfer function $G(s)H(s) = \frac{k(s+2)(s+3)}{s((s+1))}$ and find the Root locus of given system.	4	CO5	K3
<b>OR</b>				
2(a)	Mention all the rules of root locus and obtain the root locus for the open loop transfer function $G(s)H(s) = \frac{K}{s((s+3)(s^2+3s+11.2))}$	4	CO5	K3
(b)	Sketch Bode plot for the given $G(s)H(s) = \frac{K}{s(s+2)(s+4)}$ . <b>Identify</b> the value of K for gain margin of 20db.	4	CO5	K3
(c)	<b>Identify</b> the state transition matrix for $A = \begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix}$ . & find the state model equation for the differential equation give below $\frac{d^4y}{dt^4} + 7\frac{d^3y}{dt^3} + 8\frac{d^2y}{dt^2} + y(t) = 3u(t)$	4	CO5	K3
<b>PART -B</b>				
3(a)	<b>Make use of</b> second order system to Express rise time, peak time, peak overshoot, settling Time subjected to unit step input for under damped condition.	4	CO4	K3
(b)	<b>Identify</b> the close loop transfer function, damping ratio and output response for step input for the system given below $G(s) = 9/s(s+2)$	4	CO4	K3
<b>OR</b>				
4(a)	A second order system is given by $\frac{C(s)}{R(s)} = \frac{100}{s(s+10)}$ . <b>Identify</b> Rise Time, settling time Peak overshoot and Peak Time. Also find the output response C(t).	4	CO4	K3
(b)	<b>Model</b> transient characteristics of a control system to a unit step input and define the following i) delay time ii) rise time iii) peak time iv) peak overshoot v) settling Time	4	CO4	K3

Name & Signature of  
 Course In charge:

Name & Signature of  
 Module Coordinator

HOD ECE

Principal





# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)  
"JnanaSangama" Belagavi-590018, Karnataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D.  
REGISTRAR(I/C)

Phone: (0831) 2498100  
Fax : (0831) 2405467

REF: VTU/BGM/ACA/2022-23/ 4197

DATE: 19 NOV 2022

### Revised-NOTIFICATION

**Subject:** - Revised-Academic Calendar of 1st<sup>st</sup> semesters of B.E./B.Tech./B.Arch./B.Plan., programs of University regarding...

**Reference:** The Hon'ble Vice-Chancellor's approval dated: 18.11.2022

The revised-academic calendar concerned to 1st semester of B.E./B.Tech./B.Arch./B.Plan., programs of University for academic year 2022-23 are hereby notified as mentioned below;

Revised Academic Calendar for I Semester of UG programs for the Academic Year 2022-23 (Tentative)			
Details	I semester B.E./B.Tech.	I semester B.Arch.	I semester B.Plan
**Induction Program	01.12.2022 To 10.12.2022	01.12.2022 To 10.12.2022	01.12.2022 To 10.12.2022
Commencement of I semester Classes	12.12.2022	12.12.2022	12.12.2022
Last Working day of I Semester	31.03.2023	31.03.2023	31.03.2023
Practical Examinations	03.04.2023 To 14.04.2023	03.04.2023 To 14.04.2023	03.04.2023 To 14.04.2023
Theory Examinations	17.04.2023 To 10.05.2023	17.04.2023 To 10.05.2023	17.04.2023 To 10.05.2023
Commencement of II Semester	15.05.2023	15.05.2023	15.05.2023

#### Please Note:

- The academic sessions for ODD semesters should commence on the **date mentioned** above.
- \*\* Induction Program** shall be conducted for 10 days at the beginning of 1<sup>st</sup> semester and 11 days at the beginning of the 2<sup>nd</sup> semester.

*R*

During the induction program, college must brief about the new curriculum implemented from the academic year 2022-23.

- The Institute needs to function for **six days** a week with Saturday being half a working day. #if required, the college can also plan to have extra classes on Saturday afternoons and Sundays full day to complete academic activities within the duration mentioned.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- AICTE Activity point details circular will be issued by the Registrar's office separately.
- If any clarification/correction, please email to - [sbhvtuso@yahoo.com](mailto:sbhvtuso@yahoo.com)

The Principals of Affiliated, Constituent and Autonomous Engineering Colleges, Chairpersons of the University departments are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.
2. The chairperson, of the Department of Mechanical Engineering /Civil Engineering /Computer Science and Engineering, Electronics & Communication Engineering of the University.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. Special Officer QPDS VTU Belagavi for information
4. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
5. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
6. The Director of Physical Education, VTU Belagavi for information
7. OS for information and make arrangements to send the circular regarding AICTE Activity Points
8. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

*Reg* 19/11/22 BE  
REGISTRAR  
F.



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

(ವಿಜಯ ಅಧಿನಿಯಮ ೧೯೯೪ ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D.

Fax : (0831) 2405467

Phone: (0831) 2498100 REGISTRAR

REF: VTU/BGM/ACA/2022-23/ 6241

DATE: 21 JAN 2023

## Revised-NOTIFICATION

**Subject:** - Revised-Academic Calendar of 3<sup>rd</sup> semester of B.E./B.Tech., programs of University regarding...

**Reference:** Dean Faculty of Engineering, VTU Belagavi approval dated 20.01.2023

Hon'ble Vice-Chancellor's approval dated: 20.01.2023

The revised-academic calendar concerned to 3<sup>rd</sup> semester of B.E./B.Tech., programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

Revised Academic Calendar for 3rd-semester B.E./B.Tech. Programs		
Details	Existing Dates	Revised Dates
Commencement of III semester	31.10.2022	31.10.2022
Commencement of Classes for Lateral Entry students	-----	06.02.2023
Last working date	11.02.2023	01.04.2023
Practical Examinations Regular Students	13.02.2023 To 21.02.2023	04.04.2023 To 13.04.2023
Theory Examinations	22.02.2023 To 22.03.2023	17.04.2023 To 05.05.2023
Practical Examination for Lateral Entry students	-----	08.05.2023 To 13.05.2023
Intra/Inter Institute Internship	26.03.2023 To 16.04.2023	----
Commencement of IV semester	17.04.2023	15.05.2023

**Please Note:**

- The Institute needs to function for **six days** a week with **Saturday** being a full working day. Timing for the classes is either 08.00 am to 04.15 pm or 09.00 am to 05.00 pm in total 08 hours a day. #if required, the college can also plan to have extra classes on Sundays to complete academic activities within the duration mentioned.
- **Separate classes** should be conducted for lateral entry students as per the revised academic calendar; however, the regular students may attend the classes along with lateral entry students for review.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. If any changes are to be affected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- The college has to conduct offline classes to cover **80%** of the syllabus of the courses; however, **20%** of the syllabus can be covered in virtual model (Online) mode. **Attendance** of the students for offline and online classes is mandatory and records should be maintained and submitted to the university whenever informed.
- AICTE Activity point details circular will be issued by the Registrar's office separately.
- If any clarification/correction, please email-registrar@vtu.ac.in or sbhvtuso@yahoo.com
- **Intra/Inter Institute Internship for lateral entry students shall be conducted parallelly with academic activities of even the semester.**

The Principals of Affiliated, Constituent and Autonomous Engineering Colleges, Chairpersons of the University departments are hereby informed to bring the revised-academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.
2. The chairperson, of the Department of Mechanical Engineering /Civil Engineering /Computer Science and Engineering& Communication Electronics Engineering of the University.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. OS for information and make arrangements to send the circular regarding AICTE Activity Points
7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

REGISTRAR

2/2



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿಜಯ ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

Phone : (0831) 2498100

Fax : (0831) 2405467

REGISTRAR

REF: VTU/BGM/ACA/2022-23/ 3000

DATE: 3 SEP 2022

### NOTIFICATION

**Subject:** - Academic Calendar of ODD semesters B.E./B.Tech./B.Plan./B.Arch. programs of University regarding...

**Reference:** Hon'ble Vice-Chancellor's approval dated: 03.09.2022

The academic calendar concerned to **ODD semesters of B.E./B.Tech./B.Plan./B.Arch.** programs of University for academic year 2022-23 are hereby notified as mentioned in the attached sheet;

The Principals of Affiliated, Constituent and Autonomous Engineering Colleges are hereby informed to bring the academic calendar to the notice of all concerned.

Encl: As mentioned

Sd/-

REGISTRAR

To,

1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.
2. The chairperson, Department of Mechanical Engineering /Civil Engineering /Computer Science and Engineering and Business Studies of the University.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload revised Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. PS to Registrar VTU Belagavi
7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

Ray 03/09/2022 E  
Registrar

✍

## Academic Calendar for ODD Semester of UG programs for the year 2022-23

	I semester B.E./B.Tech.	I semester B.Arch./B.Plan	I semester B.Sc.	III semester B.E./ B.Tech.	III Semester B.Arch.	III semester B. Plan	III Semester B.Sc.	V Semester B.E./B.Tech.	V Semester B.Arch./ B.Plan.	VII semester B.E./B.Tech.	VII semester B.Plan.	VII semester B.Arch	IX semester B.Arch
Commencement of ODD Semester	# 10.10.2022	# 10.10.2022	10.10.2022 (Tentative)	11.10.2022	31.10.2022	31.10.2022	10.10.2022	10.10.2022	12.09.2022	21.08.2022	21.08.2022	19.09.2022	01.09.2022
Internship				11.10.2022 To 30.10.2022						21.08.2022 To 17.09.2022	21.08.2022 To 24.09.2022		
Commencement of Classes				31.10.2022	31.10.2022	31.10.2022	10.10.2022	10.10.2022	12.09.2022	19.09.2022	26.09.2022	19.09.2022	01.09.2022
Last Working day of ODD Semester				11.02.2023	11.02.2023	11.02.2023	28.01.2023	27.01.2023	31.12.2022	31.12.2022	07.01.2023	31.12.2022	20.12.2022
Practical Examination				13.02.2023 To 21.02.2023	13.02.2023 To 21.02.2023	13.02.2023 To 21.02.2023	01.02.2023 To 09.02.2023	30.01.2023 To 09.02.2023	03.01.2023 To 13.01.2023	03.01.2023 To 13.01.2023	09.01.2023 To 14.01.2023	03.01.2023 To 13.01.2023	21.12.2022 To 31.12.2022
Theory Examinations				22.02.2023 To 22.03.2023	22.02.2023 To 22.03.2023	22.02.2023 To 22.03.2023	13.02.2023 To 03.03.2023	13.02.2023 To 18.03.2023	16.01.2023 To 15.02.2023	16.01.2023 To 15.02.2023	16.01.2023 To 15.02.2023	16.01.2023 To 15.02.2023	---
Internship			*	26.03.2023 To 16.04.2023	---	---		---	---		---		---
Internship Viva Voce/ Project viva				---	---	---		---	---	---	---		---
Commencement of EVEN Semester				17.04.2023	17.04.2023	17.04.2023	20.03.2023	20.03.2023	20.03.2023	20.02.2023	20.02.2023	20.02.2023	06.01.2023

**Please Note:**

- The academic sessions for ODD semesters should commence from the dates mentioned above. # Commencement of Induction Program As per AICTE Academic Calendar 2022-23
- The commencement date of VII semester B.E./B.Tech/, is postponed from 12.09.2022 to 19.09.2022 to cover 04 weeks of Internship duration. The students of B.E./B.Tech., compulsorily have to complete the Internship in this duration only.
- The commencement date of VII semester B.Plan., is postponed from 12.09.2022 to 26.09.2022 to cover 06 weeks of Internship duration.
- Students joining to VII semester B.E./B.Tech/B.Plan should complete the Internship before the commencement of the classes.
- The Institute needs to function for six days a week with additional hours (Saturday is a full working day). #if required, the college can also plan to have extra classes on Sundays to complete academic activities within the duration mentioned.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University Examinations will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar may be modified based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for Autonomous Colleges. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- The college has to conduct offline classes to cover 80% of the syllabus of the courses; however, 20% of the syllabus can be covered in virtual model (Online) mode. Attendance of the students for offline and online classes is mandatory and records should be maintained and submitted to the university whenever informed.
- If any clarification/correction, please email to [to-sbhvtuse@gmail.com](mailto:to-sbhvtuse@gmail.com)

\* Internship for Lateral Entry Students

Ray 03/09/2022  
REGISTRAR  
7/21/22



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

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Prof. Dr. B. E. Rangaswamy, Ph.D.  
REGISTRAR(I/C)

Phone: (0831) 2498100  
Fax : (0831) 2405467

REF: VTU/BGM/ACA/2022-23/ 4197

DATE: 19 NOV 2022

### Revised-NOTIFICATION

**Subject:** - Revised-Academic Calendar of 1<sup>st</sup> semesters of B.E./B.Tech./B.Arch./B.Plan., programs of University regarding...

**Reference:** The Hon'ble Vice-Chancellor's approval dated: 18.11.2022

The revised-academic calendar concerned to 1<sup>st</sup> semester of B.E./B.Tech./B.Arch./B.Plan., programs of University for academic year 2022-23 are hereby notified as mentioned below;

Revised Academic Calendar for I Semester of UG programs for the Academic Year 2022-23 (Tentative)			
Details	I semester B.E./B.Tech.	I semester B.Arch.	I semester B.Plan
**Induction Program	01.12.2022 To 10.12.2022	01.12.2022 To 10.12.2022	01.12.2022 To 10.12.2022
Commencement of I semester Classes	12.12.2022	12.12.2022	12.12.2022
Last Working day of I Semester	31.03.2023	31.03.2023	31.03.2023
Practical Examinations	03.04.2023 To 14.04.2023	03.04.2023 To 14.04.2023	03.04.2023 To 14.04.2023
Theory Examinations	17.04.2023 To 10.05.2023	17.04.2023 To 10.05.2023	17.04.2023 To 10.05.2023
Commencement of II Semester	15.05.2023	15.05.2023	15.05.2023

#### Please Note:

- The academic sessions for ODD semesters should commence on the **date mentioned** above.
- \*\* Induction Program** shall be conducted for 10 days at the beginning of 1<sup>st</sup> semester and 11 days at the beginning of the 2<sup>nd</sup> semester.

*R*

During the induction program, college must brief about the new curriculum implemented from the academic year 2022-23.

- The Institute needs to function for **six days** a week with Saturday being half a working day. #if required, the college can also plan to have extra classes on Saturday afternoons and Sundays full day to complete academic activities within the duration mentioned.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
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- If any clarification/correction, please email to - [sbhvtuso@yahoo.com](mailto:sbhvtuso@yahoo.com)

The Principals of Affiliated, Constituent and Autonomous Engineering Colleges, Chairpersons of the University departments are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.
2. The chairperson, of the Department of Mechanical Engineering /Civil Engineering /Computer Science and Engineering, Electronics & Communication Engineering of the University.

Copy to.

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2. The Registrar (Evaluation), VTU Belagavi for information.
3. Special Officer QPDS VTU Belagavi for information
4. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
5. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
6. The Director of Physical Education, VTU Belagavi for information
7. OS for information and make arrangements to send the circular regarding AICTE Activity Points
8. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

*Reg* 19/11/22 BE  
REGISTRAR  
F.





# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

(ವಿಜಯ ಅಧಿನಿಯಮ ೧೯೯೪ ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D.

Fax : (0831) 2405467

Phone: (0831) 2498100 REGISTRAR

REF: VTU/BGM/ACA/2022-23/ 6241

DATE: 21 JAN 2023

### Revised-NOTIFICATION

**Subject:** - Revised-Academic Calendar of 3<sup>rd</sup> semester of B.E./B.Tech., programs of University regarding...

**Reference:** Dean Faculty of Engineering, VTU Belagavi approval dated 20.01.2023

Hon'ble Vice-Chancellor's approval dated: 20.01.2023

The revised-academic calendar concerned to 3<sup>rd</sup> semester of B.E./B.Tech., programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

Revised Academic Calendar for 3rd-semester B.E./B.Tech. Programs		
Details	Existing Dates	Revised Dates
Commencement of III semester	31.10.2022	31.10.2022
Commencement of Classes for Lateral Entry students	-----	06.02.2023
Last working date	11.02.2023	01.04.2023
Practical Examinations Regular Students	13.02.2023 To 21.02.2023	04.04.2023 To 13.04.2023
Theory Examinations	22.02.2023 To 22.03.2023	17.04.2023 To 05.05.2023
Practical Examination for Lateral Entry students	-----	08.05.2023 To 13.05.2023
Intra/Inter Institute Internship	26.03.2023 To 16.04.2023	----
Commencement of IV semester	17.04.2023	15.05.2023

**Please Note:**

- The Institute needs to function for **six days** a week with **Saturday** being a full working day. Timing for the classes is either 08.00 am to 04.15 pm or 09.00 am to 05.00 pm in total 08 hours a day. #if required, the college can also plan to have extra classes on Sundays to complete academic activities within the duration mentioned.
- **Separate classes** should be conducted for lateral entry students as per the revised academic calendar; however, the regular students may attend the classes along with lateral entry students for review.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. If any changes are to be affected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- The college has to conduct offline classes to cover **80%** of the syllabus of the courses; however, **20%** of the syllabus can be covered in virtual model (Online) mode. **Attendance** of the students for offline and online classes is mandatory and records should be maintained and submitted to the university whenever informed.
- AICTE Activity point details circular will be issued by the Registrar's office separately.
- If any clarification/correction, please email-[registrar@vtu.ac.in](mailto:registrar@vtu.ac.in) or [sbhvtuso@yahoo.com](mailto:sbhvtuso@yahoo.com)
- **Intra/Inter Institute Internship for lateral entry students shall be conducted parallelly with academic activities of even the semester.**

The Principals of Affiliated, Constituent and Autonomous Engineering Colleges, Chairpersons of the University departments are hereby informed to bring the revised-academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.
2. The chairperson, of the Department of Mechanical Engineering /Civil Engineering /Computer Science and Engineering& Communication Electronics Engineering of the University.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. OS for information and make arrangements to send the circular regarding AICTE Activity Points
7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

REGISTRAR

2/2



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿಜಯ ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

Phone : (0831) 2498100

Fax : (0831) 2405467

REGISTRAR

REF: VTU/BGM/ACA/2022-23/ 3000

DATE: 3 SEP 2022

### NOTIFICATION

**Subject:** - Academic Calendar of ODD semesters B.E./B.Tech./B.Plan./B.Arch. programs of University regarding...

**Reference:** Hon'ble Vice-Chancellor's approval dated: 03.09.2022

The academic calendar concerned to **ODD semesters** of **B.E./B.Tech./B.Plan./B.Arch.** programs of University for academic year 2022-23 are hereby notified as mentioned in the attached sheet;

The Principals of Affiliated, Constituent and Autonomous Engineering Colleges are hereby informed to bring the academic calendar to the notice of all concerned.

Encl: As mentioned

Sd/-

REGISTRAR

To,

1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.
2. The chairperson, Department of Mechanical Engineering /Civil Engineering /Computer Science and Engineering and Business Studies of the University.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload revised Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. PS to Registrar VTU Belagavi
7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

Ray 03/09/2022 E  
Registrar

✍

## Academic Calendar for ODD Semester of UG programs for the year 2022-23

	I semester B.E./B.Tech.	I semester B.Arch./B.Plan	I semester B.Sc.	III semester B.E./ B.Tech.	III Semester B.Arch.	III semester B. Plan	III Semester B.Sc.	V Semester B.E./B.Tech.	V Semester B.Arch./ B.Plan.	VII semester B.E./B.Tech.	VII semester B.Plan.	VII semester B.Arch	IX semester B.Arch
Commencement of ODD Semester	# 10.10.2022	# 10.10.2022	10.10.2022 (Tentative)	11.10.2022	31.10.2022	31.10.2022	10.10.2022	10.10.2022	12.09.2022	21.08.2022	21.08.2022	19.09.2022	01.09.2022
Internship				11.10.2022 To 30.10.2022						21.08.2022 To 17.09.2022	21.08.2022 To 24.09.2022		
Commencement of Classes				31.10.2022	31.10.2022	31.10.2022	10.10.2022	10.10.2022	12.09.2022	19.09.2022	26.09.2022	19.09.2022	01.09.2022
Last Working day of ODD Semester				11.02.2023	11.02.2023	11.02.2023	28.01.2023	27.01.2023	31.12.2022	31.12.2022	07.01.2023	31.12.2022	20.12.2022
Practical Examination				13.02.2023 To 21.02.2023	13.02.2023 To 21.02.2023	13.02.2023 To 21.02.2023	01.02.2023 To 09.02.2023	30.01.2023 To 09.02.2023	03.01.2023 To 13.01.2023	03.01.2023 To 13.01.2023	09.01.2023 To 14.01.2023	03.01.2023 To 13.01.2023	21.12.2022 To 31.12.2022
Theory Examinations				22.02.2023 To 22.03.2023	22.02.2023 To 22.03.2023	22.02.2023 To 22.03.2023	13.02.2023 To 03.03.2023	13.02.2023 To 18.03.2023	16.01.2023 To 15.02.2023	16.01.2023 To 15.02.2023	16.01.2023 To 15.02.2023	16.01.2023 To 15.02.2023	---
Internship			*	26.03.2023 To 16.04.2023	---	---		---	---		---		---
Internship Viva Voce/ Project viva				---	---	---		---	---	---	---		---
Commencement of EVEN Semester				17.04.2023	17.04.2023	17.04.2023	20.03.2023	20.03.2023	20.03.2023	20.02.2023	20.02.2023	20.02.2023	06.01.2023

**Please Note:**

- The academic sessions for ODD semesters should commence from the dates mentioned above. # Commencement of Induction Program As per AICTE Academic Calendar 2022-23
- The commencement date of VII semester B.E./B.Tech/, is postponed from 12.09.2022 to 19.09.2022 to cover 04 weeks of Internship duration. The students of B.E./B.Tech., compulsorily have to complete the Internship in this duration only.
- The commencement date of VII semester B.Plan., is postponed from 12.09.2022 to 26.09.2022 to cover 06 weeks of Internship duration.
- Students joining to VII semester B.E./B.Tech/B.Plan should complete the Internship before the commencement of the classes.
- The Institute needs to function for six days a week with additional hours (Saturday is a full working day). #if required, the college can also plan to have extra classes on Sundays to complete academic activities within the duration mentioned.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University Examinations will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar may be modified based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for Autonomous Colleges. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- The college has to conduct offline classes to cover 80% of the syllabus of the courses; however, 20% of the syllabus can be covered in virtual model (Online) mode. Attendance of the students for offline and online classes is mandatory and records should be maintained and submitted to the university whenever informed.
- If any clarification/correction, please email to [to-sbhvtuse@gmail.com](mailto:to-sbhvtuse@gmail.com)

\* Internship for Lateral Entry Students

  
 REGISTRAR  
 7/3/23



# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: I ODD SEMESTER (2022-2023)

SESSION: DEC 2022 – MAR 2023

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	DEC				1*	2	3 DH	2	1 <sup>st</sup> to 10 <sup>th</sup> - Induction Programme for I Semester
2	DEC	5	6	7	8	9	10	6	
3	DEC	12*	13	14	15	16	17 DH	5	12* - Commencement of I Sem Academics
4	DEC	19	20	21	22	23	24	6	24 - Wednesday Time Table
5	DEC	26	27	28	29	30	31	6	31 - Monday Time Table
6	JAN	2	3	4	5	6	7 DH	5	
7	JAN	9	10	11	12	13	14 H	5	14- Makara Sankranthi
8	JAN	16	17 TA	18 T1	19 T1	20 T1	21 DH	5	
9	JAN	23	24	25	26 H	27	28	5	26- Republic Day 28- Wednesday Time Table
10	JAN/FEB	30* FFB1	31 BV	1 ASD	2	3	4 DH	5	30* - First Faculty Feed Back
11	FEB	6	7	8	9	10	11	6	11- Thursday Time Table
12	FEB	13	14	15	16	17 TA	18 DH	5	18- Maha Shivaratri
13	FEB	20 T2	21 T2	22 T2	23	24	25	6	25- Wednesday Time Table
14	FEB/MAR	27	28	1	2 BV	3 ASD	4 DH	5	
15	MAR	6* FFB2	7	8	9	10	11	6	6* - Second Faculty Feed Back 11 - Tuesday Time Table
16	MAR	13	14	15	16	17	18 DH	5	
17	MAR	20	21	22 H	23 LT1	24 LT1	25 LT1	5	22- Ugadi
18	MAR	27 T3	28 T3	29 T3	30	31*		5	31* - Last Working day
<b>Total No of Working Days : 85</b>									

Total Number of working days ( Excluding holidays and Tests)=70

II	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT1	Lab Test I
TA	Test attendance

Monday	15
Tuesday	14
Wednesday	14
Thursday	14
Friday	13
Total	70

*K. S. Institute of Technology*  
24/11/22  
PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



# K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: III ODD SEMESTER (2022-2023)

SESSION: OCT 2022 - APR 2023

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	OCT/NOV	31*	1H	2	3	4 TA	5 DH	4	31* - Commencement of III Sem 1- Kannada Rajyotsava
2	NOV	7	8	9	10	11H	12	5	11- Kanakudasa Jayanti 12- Tuesday Time Table
3	NOV	14	15	16	17	18	19 DH	5	
4	NOV	21	22	23	24	25	26 TA	6	26 - Wednesday Time Table
5	NOV/DEC	28 T1	29 T1	30 T1	1	2	3 DH	5	
6	DEC	5	6	7	8 LT1	9 LT1	10 LT1	6	
7	DEC	12* FFB1	13 BV	14 ASD	15	16	17 DH	5	12* - First Faculty Feed Back
8	DEC	19	20	21	22	23	24	6	24 - Wednesday Time Table
9	DEC	26	27	28	29	30	31 TA	6	31 - Monday Time Table
10	JAN	2 T2	3 T2	4 T2	5	6	7 DH	5	
11	JAN	9	10	11	12 BV	13 ASD	14	6	14- Friday Time Table
12	JAN	16* FFB2	17	18	19	20	21 DH	5	16* - First Faculty Feed Back
13	JAN	23	24	25	26 H	27	28	5	26- Republic Day 28- Wednesday Time Table
14	JAN/FEB	30	31	1	2	3	4 DH	5	
15	FEB	6	7	8	9	10	11	6	11- Thursday Time Table
16	FEB	13	14	15	16	17	18 DH	5	18- Maha Shivaratri
17	FEB	20	21	22	23	24	25	6	25- Wednesday Time Table
18	FEB/MAR	27	28	1	2	3	4 DH	5	
19	MAR	6* FFB2	7	8	9	10	11	6	6* - Second Faculty Feed Back 11 - Tuesday Time Table
20	MAR	13	14	15	16	17	18 DH	5	
21	MAR	20 LT2	21 LT2	22 H	23 LT2	24 TA	25	5	22- Ugadi 25-Tuesday Time Table
22	MAR/APR	27 T3	28 T3	29 T3	30	31	1*	6	1* - Last Working day 1- Monday Time Table

Total No of Working Days : 118

Total Number of working days ( Excluding holidays and Tests)=103

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Behavioral Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	20
Tuesday	20
Wednesday	22
Thursday	20
Friday	21
Total	103

*K. S. Institute of Technology*  
3/1/23  
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BENGALURU - 560 109.



# K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: V ODD SEMESTER (2022-2023)

SESSION: OCT 2022 - JAN 2023

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	OCT	10*	11	12	13	14	15	6	10* - Commencement of V Sem 15- Friday Time Table
2	OCT	17	18	19	20	21	22 DH	5	
3	OCT	24 II	25	26 II	27	28	29	4	24-Naraka Chaturdashi 26- Balipadyami Deepavalli 29- Wednesday Time Table
4	OCT/NOV	31	1 II	2	3	4	5 DH	4	1- Kannada Rajyotsava
5	NOV	7	8	9	10	11 II	12 TA	5	11- Kanakadasa Jayanti 12- Tuesday Time Table
6	NOV	14 T1	15 T1	16 T1	17	18	19 DH	5	
7	NOV	21	22	23 LT1	24 LT1	25 LT1	26	6	26 - Wednesday Time Table
8	NOV/DEC	28 * FFB1	29 BV	30 ASD	1	2	3 DH	5	28* - First Faculty Feed Back
9	DEC	5	6	7	8	9	10	6	10- Tuesday Time Table
10	DEC	12	13	14	15	16 TA	17 DH	5	
11	DEC	19 T2	20 T2	21 T2	22	23	24	6	24 - Wednesday Time Table
12	DEC	26	27	28	29 * FFB2	30 BV	31 ASD	6	29* -Second Faculty Feed Back 31 - Monday Time Table
13	JAN	2	3	4	5	6	7 DH	5	
14	JAN	9	10	11	12	13	14 H	5	14- Makara Sankranti
15	JAN	16	17 TA	18 T3	19 T3	20 T3	21 DH	5	
16	JAN	23 LT2	24 LT2	25 LT2	26 H	27*		4	26- Republic Day 27* - Last Working day

Total No of Working Days : 82

Total Number of working days ( Excluding holidays and Tests)=67

II	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2, 3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	13
Thursday	14
Friday	14
Total	67

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 BENGALURU - 560 109.



# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: VII ODD SEMESTER (2022-2023)

SESSION: SEP 2022 - DEC 2022

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	SEP	19*	20	21	22	23	24 DH	5	19*-Commencement of VII Semester
2	SEP/OCT	26	27	28	29	30	1	6	1 - Wednesday Time Table
3	OCT	3	4II	5II	6	7	8 DH	3	4-Ayudha Pooja 5- Vijaya Dasami
4	OCT	10	11	12	13	14	15 TA	6	15-Friday Time Table
5	OCT	17:T1	18:T1	19:T1	20	21	22 DII	5	
6	OCT	24 II	25	26 II	27:LT1	28:LT1	29:LT1	4	24-Naraka Chaturdashi 26- Balipadyami Deepavalli
7	OCT/NOV	31	1II	2	3* FFB1	4 BV	5 DH	4	1- Kannada Rajyotsava 3* - First Faculty Feed Back
8	NOV	7 ASD	8	9	10	11II	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table
9	NOV	14	15	16	17	18 TA	19 DH	5	
10	NOV	21:T2	22:T2	23:T2	24	25	26	6	26 - Wednesday Time Table
11	NOV/DEC	28* FFB2	29	30 BV	1	2 ASD	3 DH	5	28* -Second Faculty Feed Back
12	DEC	5	6	7	8	9	10	6	10- Tuesday Time Table
13	DEC	12	13	14	15	16	17 DH	5	
14	DEC	19	20	21 TA	22:T3	23:T3	24:T3	6	
15	DEC	26	27	28:LT2	29:LT2	30:LT2	31*	6	31-Monday Time Table 31 - Last Working day

Total No of Working Days : 77

Total Number of working days ( Excluding holidays and Tests)=62

II	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Seasonal Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	12
Thursday	12
Friday	12
Total	62

*S. Kumar. C.*  
22/08/22

PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109



UPD of Oct 15/12/22

**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**ODD SEMESTER - OCTOBER 2022 TO FEBRUARY 2023**

Class Teacher : Mr. Harish U  
W.E.F: 31/10/2022

SECTION: III

OLD BUILDING LH - 104

PERIOD	1	2	10:20 - 10:35	3	4	12:25 - 1:15	5	6	7	
TIME/DAY	8:30 - 9:25	9:25 - 10:20		10:35 - 11:30	11:30 - 12:25		1:15 - 2:10	2:10 - 3:05	3:05 - 4:00	
MON	MCF (21ME32)	TD (21ME34)	BREAK	MD GD&T (21MEL35)	TCFSNT (21MAT31)	LUNCH BREAK	SC&R (21UH36)	MS&E LAB (21ME33)		
TUE	TCFSNT (21MAT31)	TD (21ME34)		MS&E (21ME33)	MCF (21ME32)		PYTHON LAB (21ME381)			
WED	TD (21ME34)	MD GD&T (21MEL35)		MD GD&T (21MEL35)	MS&E (21ME33)		MCF (21ME32)	SC&R (21UH36)	MS&E (21ME33)	
THU	MD GD&T LAB (21MEL35)				TD (21ME34)		CIP (21CIP37)	TCFSNT (21MAT31)	MCF (21ME32)	
FRI	MS&E (21ME33)	TCFSNT (21MAT31)	TEA	TD (21ME34)	MD GD&T (21MEL35)		MCF LAB (21ME32)		DIP MATHS	
SAT										

Subject Code	Subject Name	Faculty Name
21MAT31	Transform Calculus, Fourier Series And Numerical Techniques (TCFSNT)	Dr. Venkataramana B S
21ME32	Metal casting, Forming and Joining Processes (MCF)	Mr. Harish U
21ME33	Material Science and Engineering (MS&E)	Dr. Girish T R
21ME34	Thermodynamics (TD)	Dr. Nagaprasad K S
21MEL35	Machine Drawing and GD & T (MD GD&T)	Mr. Parashuram A K
21UH36	Social connect and Responsibility (SCR)	Dr. Nagaprasad K S
21CIP37	Constitution of India and Professional Ethics (CIP)	Mrs. Anuradha M V
21ME381	Introduction to Python	Mr. Prasad K

*[Signature]*  
CO-ORDINATOR

*[Signature]*  
HEAD OF THE DEPARTMENT  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

*[Signature]*  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.

K. S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109

DEPARTMENT OF MECHANICAL ENGINEERING

ODD SEMESTER - OCTOBER 2022 TO JANUARY 2023

Class Teacher : Mr. K Prasad

W.E.F: 10/10/2022

SECTION: V

OLD BUILDING LH - 105

PERIOD	1	2	10:20 - 10:35	3	4	12:25 - 1:15	5	6	7
TIME/DAY	8:30 - 9:25	9:25 - 10:20		10:35 - 11:30	11:30 - 12:25		1:15 - 2:10	2:10 - 3:05	3:05 - 4:00
MON	M&E (18ME51)	DOM (18ME53)	TEA BREAK	TM (18ME54)	DME-I (18ME52)	LUNCH BREAK	EC LAB (18MEL58)		
TUE	DME-I (18ME52)	DME-I (18ME52)		TM (18ME54)	FPE (18ME55)		DOM (18ME53)	M&E (18ME51)	OM (18ME56)
WED	TM (18ME54)	FPE (18ME55)		OM (18ME56)	DOM (18ME53)		FM LAB (18MEL57)		
THU	FPE (18ME55)	DOM (18ME53)		M&E (18ME51)	OM (18ME56)		DME-I (18ME52)	TM (18ME54)	T
FRI	TM (18ME54)	FPE (18ME55)		OM (18ME56)	DME-I (18ME52)		DOM (18ME53)	M&E (18ME51)	EVS (18CIV59)
SAT									

Subject Code	Subject Name	Faculty Name
18ME51	Management and Economics (M&E)	Mr. Manjunath B R
18ME52	Design of Machine Elements - I (DME-I)	Mr. Anil Kumar A
18ME53	Dynamics of Machinery (DOM)	Dr. L Nirmala
18ME54	Turbo Machines (TM)	Mr. Prasad K
18ME55	Fluid Power Engineering (FPE)	Mr. Ranganath N
18ME56	Operation Management (OM)	Dr. Saleem Khan
18MEL57	Fluid Mechanics /Machines Lab	Dr. Saleem Khan
18MEL58	Energy Conversion Lab	Mr. Prasad K
18CIV59	Enivronmental Studies (EVS)	Dr. Kiran Kumar S R

CO-ORDINATOR

HEAD OF THE DEPARTMENT  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109

PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

K. S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109  
DEPARTMENT OF MECHANICAL ENGINEERING

ODD SEMESTER - SEPTEMBER TO DECEMBER 2022

Class Teacher : Mr. Nagabhushana .M

W.E.F: 19.09.2022

SECTION: VII

NEW BUILDING LH - 203

PERIOD	1	2	10:20 - 10:35	3	4	12:25 - 1:15	5	6	7
TIME/DAY	8:30 - 9:25	9:25 - 10:20		10:35 - 11:30	11:30 - 12:25		1:15 - 2:10	2:10 - 3:05	3:05 - 4:00
MON	TQM (18ME734)	CE (18ME71)	TEA BREAK	AM (18ME741)	PAP (18ME752)	LUNCH TIME	CIM Lab (18MEL76) - A1/ Design Lab ( 18MEL77) - A2		
TUE	CE (18ME71)	PAP (18ME752)		CAD&M (18ME72)	AM (18ME741)		CIM Lab (18MEL76) - A2/ Design Lab ( 18MEL77) - A1		
WED	CAD&M (18ME72)	CE (18ME71)		PAP (18ME752)	TQM (18ME734)		Project Work Phase- I (18MEP78)/ Internship - (18XX185)		
THU	AM (18ME741)	CE (18ME71)		TQM (18ME734)	CAD&M (18ME72)		Project Work Phase- I (18MEP78)		
FRI	PAP (18ME752)	CAD&M (18ME72)		TQM (18ME734)	AM (18ME741)		Project Work Phase- I (18MEP78)		
SAT									
Subject Code		Subject Name				Faculty Name			
18ME71		Control Engineering (CE)				Dr. Umashankar M			
18ME72		Computer Aided Design & Manufacturing (CADM)				Mr. Nagabhushana M			
18ME734		Total Quality Management(TQM)				Mr. Rajesh G L			
18ME741		Additive Manufacturing (AM)				Mr. Manjunath B R			
18CS752		Python Application Programming (PAP)				Mr. Prashanth H S (CS Department)			
18MEL76		Computer Integrated Manufacturing Lab				Dr. L Nirmala (A1) / Mr. Harish U (A2)			
18MEL77		Design lab				Mr. Nagabhushana M (A1) Dr. Girish T R (A2)			
18MEP78		Project Work Phase-I				Dr. L Nirmala			
18XX185		Internship				Mr. Harish U			

CO-ORDINATOR

HEAD OF THE DEPARTMENT  
Dept. of Mechanical Engg  
K.S. Institute of Technology

PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY

**KSIT**

**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**SET: A**

USN									
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Degree : B. E.  
 Branch : Mechanical Engineering  
 Course Title : THERMODYNAMICS  
 Duration : 90 Minutes

Semester : III  
 Course Code : 21ME34  
 Date : 30/11/2022  
 Max Marks : 20

Note: Answer **ONE** full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	200 kJ of work is supplied to a closed system. The pressure and volume is related by $P = 8 - 5V$ , P is in bar and V in $m^3$ . The initial volume is $0.5 m^3$ . Calculate final pressure and volume	4	CO3	K3
(b)	A heat engine is used to drive a heat pump. The heat transfer from engine and heat pump are used to heat water circulating through the radiators of a building. The efficiency of heat engine is 27% and COP of heat pump is 4. Solve for the ratio of the heat transfer to the radiator circulation water to the heat transfer to the engine	4	CO3	K3
(c)	In 1709, Sir Isaac Newton proposed a new temperature scale. On this scale, temperature was a linear function on Celcius scale. The reading on this at ice point ( $0^{\circ}C$ ) and Normal human body temperature ( $37^{\circ}C$ ) were $0^{\circ}N$ and $12^{\circ}N$ respectively. Develop the relation between Newton scale and Celcius scale	4	CO3	K3
<b>OR</b>				
2(a)	A piston cylinder arrangement is containing fluid at 1 MPa and volume of $0.05 m^3$ . Find the work done by the fluid when it expands reversibly for the following cases (i) At a constant pressure to a final volume of $0.2 m^3$ (ii) According to law $PV = C$ to a final volume of $0.2 m^3$ .	4	CO3	K3
(b)	An inventor claims to have devised a cyclic engine which exchanges heat with the reservoir at 300K and 540K and which can produce 450J work per 1000J of heat extracted from the heat reservoir. Identify whether his claim is possible?	4	CO3	K3
(c)	The resistance of a platinum wire is found to be 11 ohm at ice point, 15.247 ohm at the steam point and 28.887 ohm at the Sulphur point. Calculate the value for constants A & B in the equation, $R = R_0 [ 1 + At + B t^2 ]$	4	CO3	K3
<b>PART -B</b>				
3(a)	Distinguish between (i) intensive and extensive properties (ii) Open and Closed system	4	CO1	K2
(b)	With a neat PV diagram, illustrate an expression for work done for polytropic and constant volume process by deriving from fundamentals.	4	CO1	K2
<b>OR</b>				
4(a)	Explain zeroth law of thermodynamic and its significance	4	CO1	K2
(b)	Explain cannot refrigerator and develop the relation $(COP)_{hp} = (COP)_{ref} + 1$	4	CO1	K2

Name & Signature of  
 Course In charge  
 (Dr. Nagaprasad Ks)

Name & Signature of  
 Module Coordinator  
 (Dr. Nagaprasad Ks)

HOD ME

Principal  
 Selected



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**I SESSIONAL TEST 2022 - 23(ODD SEMESTER)**


**SCHEME AND SOLUTION (SET A)**

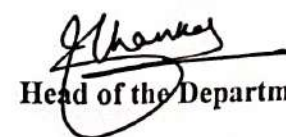
Degree : BE  
Branch : ME  
Course Title : THERMODYNAMICS

Semester : III  
Course Code : 21ME34  
Max Marks : 20

Q. No	SOLUTION	MARKS
	<b><u>PART-A</u></b>	
1(a)	$W = - 150\text{kJ}$ $V_2 = 0.35\text{m}^3$	01 +03= 04
1(b)	$Q_2 = 0.78Q_1$ ; Ans: 1.81	01 +03=04
1(c)	Newton scale expression $t = 3 t(\text{N})$	02+ 02=04
2 (a)	$W = - 5.75\text{kJ}$ $V_2 = -2.25\text{kJ}$	02+ 02=04
2(b)	Efficiency = 75% Ans: Impossible	02+ 02 = 04
2(c)	$R_o = 11 \text{ ohm}$ ; $A = 1.353$ ; $B = -2.64$	01+ 03=04
	<b><u>PART-B</u></b>	
3 (a)	Explain depends on size; mass and energy can interact;	02+ 02 = 04
3(b)	Sketch; $W = p(V_2 - V_1)$	01+ 03 = 04
4(a)	Sketch with parts A,B,C; Statement + temperature measurement	01+ 03= 04
4(c)	Carnot refrigerator sketch+explanation; Derivation	02+ 02= 04

  
Signature of Course In-charge

  
Module In-charge

  
Head of the Department



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**SET: B**

USN									
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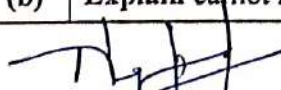
Degree : B. E.,  
 Branch : Mechanical Engineering  
 Course Title : THERMODYNAMICS  
 Duration : 90 Minutes

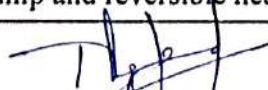
Semester : III  
 Course Code : 21ME34  
 Date : 30/11/2022  
 Max Marks : 20

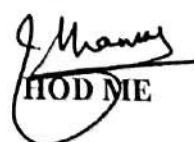
Note: Answer **ONE** full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	A fluid at a pressure of 3bar and with volume $0.18\text{m}^3$ contained in a cylinder below the piston which expands reversibly to a pressure of 0.6 bar according to $PV^2 = \text{Constant}$ . Calculate the work done by the fluid on the piston.	4	CO3	K3
(b)	A heat engine receives reversibly 420kJ/s of heat from a source at $327^\circ\text{C}$ and rejects heat reversibly to a sink at $27^\circ\text{C}$ . It rejects heat by the following hypothetical amounts (i) 210kJ/s and (ii) 315kJ. Find which of these represent reversible, irreversible and impossible.	4	CO3	K3
(c)	Develop a linear temperature scale 'B' where in ice point and normal human body temperature are assumed as two fixed points and assigned the value of $0^\circ$ and $50^\circ$ B. If the temperature of human body on Celsius scale is $36^\circ\text{C}$ , obtain the relation between 'B' scale and Celsius scale	4	CO3	K3
<b>OR</b>				
2(a)	A spherical balloon of diameter 0.5m is initially having an inside pressure of 100kPa. Due to heating, the pressure inside the balloon increases to 400kPa during which the inside pressure varies inversely proportional to square of the diameter of balloon. Determine displacement work during this process.	4	CO3	K3
(b)	An inventor claims that his heat engine which work at the rate of one kilowatt and absorbs heat at the rate of 65kJ/min from a source at $1127^\circ\text{C}$ , when the ambient temperature is $27^\circ\text{C}$ . Identify whether his claim is possible?	4	CO3	K3
(c)	The readings $t_A$ and $t_B$ of two Celsius thermometers A and B agree at ice & steam point, but elsewhere are related by the equation $t_A = L + Mt_B + Nt_B^2$ where L, M, N are constants, when both thermometers are immersed in a system of fluid, A registers $11^\circ\text{C}$ while B registers $10^\circ\text{C}$ . Solve for the reading on A when B registers $37.4^\circ\text{C}$	4	CO3	K3
<b>PART -B</b>				
3(a)	Distinguish between (i) path and point function (ii) Work and Heat	4	CO1	K2
(b)	With a neat PV diagram, illustrate an expression for work done for isothermal process and isobaric process by deriving from fundamentals.	4	CO1	K2
<b>OR</b>				
4(a)	Explain thermodynamic equilibrium.	4	CO1	K2
(b)	Explain Carnot heat pump and reversible heat engine	4	CO1	K2

  
 Name & Signature of  
 Course In charge  
 Dr. Nagaprasad KS

  
 Name & Signature of  
 Module Coordinator  
 Dr. Nagaprasad KS

  
 HOD ME

  
 Principal



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**1 SESSIONAL TEST 2022 - 23(ODD SEMESTER)**

**SCHEME AND SOLUTION (SET B)**

Degree : BE  
Branch : ME  
Course Title : THERMODYNAMICS

Semester : III  
Course Code : 21ME34  
Max Marks : 20

Q. No	SOLUTION	MARKS
<b><u>PART-A</u></b>		
1(a)	Sketch; $W = 621.76\text{kJ}$	01 +03= 04
1(b)	(i) Reversible; (ii) Impossible	02 +03=04
1(c)	'B' scale expression $t = 4.6 t(B)$	02+ 02=04
2 (a)	$V = C/D^2$ ; $W = - 6.54\text{kJ}$	02+ 02=04
2(b)	Efficiency = 56% Ans: possible	02+ 02 = 04
2(c)	$M = 11.053$ ; $N = -0.00005364$	01+ 03=04
<b><u>PART-B</u></b>		
3 (a)	Explain depends on end points; Driving force is temperature;	02+ 02 = 04
3(b)	Sketch; $W = 0$ ; $W = (P_1 V_1 - P_2 V_2)/n-1$	01+ 03 = 04
4(a)	Explain thermal, mechanical equilibrium; Explain chemical, phase equilibrium	02+ 02= 04
4(c)	Carnot heat pump sketch+explanation; Carnot refrigerator sketch+explanation	02+ 02= 04

  
Signature of Course In-charge

  
Module In-charge

  
Head of the Department



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**SET: A**

USN

Degree : B. E.  
Branch : Mechanical Engineering  
Course Title : THERMODYNAMICS  
Duration : 60 Minutes

Semester : III  
Course Code : 21ME34  
Date : 11/01/2023  
Max Marks : 20

Note: 1. Answer ONE full question from each part.

2. Use of Thermodynamic Data Hand Book is permitted

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	In an air standard diesel cycle, the compression ratio is 16. At the beginning of compression, temperature is 15 °C and pressure is 0.1 MPa. Heat is added until the temperature at end of constant pressure process is 1480 °C. Calculate: cut-off ratio, heat supplied per kg of air and cycle efficiency.	6	CO4	K3
(b)	A Rankine cycle operates between a pressure of 80 bar and 0.1 bar. The maximum cycle temperature is 600°C. If the steam turbine and condensate pump efficiency are 0.9 and 0.8 respectively, calculate net specific work output and thermal efficiency.	6	CO5	K3
<b>OR</b>				
2(a)	With the help of P-V and T-S diagrams, derive an expression for the air standard efficiency of diesel cycle. Also state the assumptions made	6	CO4	K3
(b)	Steam at 20 bar is expanded in a steam turbine to a pressure of 0.08bar. The saturated vapour enters the condenser, calculate efficiency of Rankine cycle. If the turbine and pump efficiency are 80% and 70%, calculate efficiency.	6	CO5	K3
<b>PART -B</b>				
3(a)	Why is Carnot cycle not a realistic model for steam power plants? Explain with approaches using T-S diagram	4	CO2	K2
(b)	Illustrate to find value for specific volume of CO <sub>2</sub> at 200°C and 160 bar pressure by Vander wall's equation, Compressibility chart and Ideal gas equation.	4	CO2	K2
<b>OR</b>				
4(a)	Compare Otto and Diesel cycles, with PV & T-S diagrams, explain (i) maximum pressure & temperature are same (ii) compression ratio & heat addition are same	4	CO2	K2
(b)	Explain; Law of corresponding states, Reduced properties, Compressibility factor, Perfect gas equation, Limitation of Vander Waal's equation	4	CO2	K2

Name & Signature of  
Course In charge

(Dr. Nagaprasad KS)

Name & Signature of  
Module Coordinator

(Dr. Nagaprasad KS)

Name & Signature of  
HOD ME 31/1/23

Name & Signature of  
Principal






**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**II SESSIONAL TEST 2022 - 23(ODD SEMESTER)**

**SCHEME AND SOLUTION (SET A)**

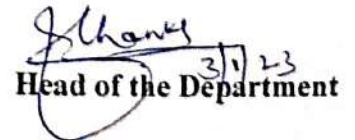
Degree : BE  
Branch : ME  
Course Title : THERMODYNAMICS

Semester : III  
Course Code : 21ME34  
Max Marks : 20

Q. No	SOLUTION	MARKS
	<u>PART-A</u>	
1(a)	Cutoff ratio = 1.169 Q = 223.6 kJ/kg, efficiency = 66%	02 +04= 06
1(b)	W <sub>net</sub> = 791.1 kJ/kg, efficiency = 30.3%	03 +03=06
2 (a)	PV diagram; Derivation	02+ 04=06
2(b)	Rankine efficiency = 31% Efficiency = 28.6%	03+ 03 = 06
	<u>PART-B</u>	
3 (a)	Explain; T-S diagram;	02+ 02 = 04
3(b)	$v = 0135 \text{ kg/m}^3$ ; $v = 0.1289 \text{ kg/m}^3$ ; $v = 0.1278 \text{ kg/m}^3$	01+ 03 = 04
4(a)	Explain; P-V & T-S diagram;	01+ 03= 04
4(c)	Explanation each 1 mark	02+ 02= 04

  
Signature of Course In-charge

  
Module In-charge

  
Head of the Department  
3/1/23



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23ODDSEMESTER**

**KSIT**

**SET: B**

USN 

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Degree : B.E.  
 Branch : Mechanical Engineering  
 Course Title : THERMODYNAMICS  
 Duration : 60 Minutes

Semester : III  
 Course Code : 21ME34  
 Date : 11/01/2023  
 Max Marks : 20

Note: 1. Answer **ONE** full question from each part  
 2. Use of Thermodynamic Data Hand Book is permitted

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Ma rks	CO	K- Level
<b>PART-A</b>				
1(a)	Two engines are to operate on Otto and Diesel cycle with the following data. Exhaust temperature: 700 K; Maximum temperature: 1400K. State of air at the beginning of compression 0.1MPa, 300K. <b>Estimate</b> the compression ratio, efficiencies & rate of work output	6	CO4	K3
(b)	A steam power station uses the following cycle: Steam at boiler outlet- 150bar, 550 <sup>0</sup> C, Reheat at 40 bar to 550 <sup>0</sup> C, Condenser at 0.1 bar. Using the Mollier chart and assuming ideal processes, <b>find:</b> i) quality at turbine exhaust ii) cycle efficiency iii) steam rate.	6	CO5	K3
<b>OR</b>				
2(a)	The minimum and maximum temperatures in an engine working on constant pressure cycle are 300K and 1500K and the heat addition during combustion is 500KJ/Kg of air. Another engine working on semi Diesel cycle between the same temperature limits has a heat addition of 500 KJ/Kg of air which is shared equally between the two heat addition processes. <b>Compare</b> their efficiencies and work outputs	6	CO4	K3
(b)	A cyclic steam power plant is to be designed for a steam temperature at turbine inlet of 360 <sup>0</sup> C and an exhaust pressure of 0.08 bar. After isentropic expansion of steam in the turbine, the moisture content at the turbine exhaust is not to exceed 15%. <b>Calculate</b> Rankine cycle efficiency. Estimate also the mean temperature of heat addition.	6	CO5	K3
<b>PART -B</b>				
3(a)	With the help of T-S diagram, <b>explain</b> the working of Rankine cycle with regeneration using (i) Open feed water heater and (ii) closed feed water system cascaded backward type	4	CO2	K2
(b)	Relate the values of pressure exerted by CO <sub>2</sub> in a container of 1.5 m <sup>3</sup> capacity when it contains 5kg at 27 <sup>0</sup> C, by using Ideal gas equation, Vander Waal's equation and compressibility chart.	4	CO2	K2
<b>OR</b>				
4(a)	<b>Explain</b> the effect of following on Rankine cycle efficiency: i) Boiler pressure ii) Super heating iii) Condenser pressure	4	CO2	K2
(b)	<b>Explain;</b> Law of corresponding states, Reduced properties, Compressibility factor, Perfect gas equation, Limitation of Vander Waal's equation.	4	CO2	K2

Name & Signature of  
 Course In charge  
 (Dr. Nagaprasad KS)

Name & Signature of  
 Module Coordinator  
 (Dr. Nagaprasad KS)

*[Signature]*  
 3/1/23  
 HOD ME

*[Signature]*  
 Selected Principal



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**II SESSIONAL TEST 2022 - 23(ODD SEMESTER)**

**SCHEME AND SOLUTION (SET B)**

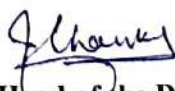
Degree : BE  
Branch : ME  
Course Title : THERMODYNAMICS

Semester : III  
Course Code : 21ME34  
Max Marks : 20

Q. No	SOLUTION	MARKS
	<b><u>PART-A</u></b>	
1(a)	Sketch; $W = 621.76\text{kJ}$	01 +03= 04
1(b)	(i) Reversible; (ii) Impossible	02 +03=04
2 (a)	$V = C/D^2$ ; $W = - 6.54\text{kJ}$	02+ 02=04
2(b)	Efficiency = 56% Ans: possible	02+ 02 = 04
	<b><u>PART-B</u></b>	
3 (a)	Explain depends on end points; Driving force is temperature;	02+ 02 = 04
3(b)	Sketch; $W = 0$ ; $W = (P_1V_1 - P_2V_2)/n-1$	01+ 03 = 04
4(a)	Explain thermal, mechanical equilibrium; Explain chemical, phase equilibrium	02+ 02= 04
4(c)	Carnot heat pump sketch+explanation; Carnot refrigerator sketch+explanation	02+ 02= 04

  
Signature of Course In-charge

  
Module In-charge

  
Head of the Department  
3/1/23



K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109  
THIRD TEST QUESTION PAPER 2022-23 ODD SEMESTER

SET: A

USN

Degree : B. E.  
Branch : Mechanical Engineering  
Course Title : THERMODYNAMICS  
Duration : 60 Minutes


Semester : III  
Course Code : 21ME34  
Date : 29/03/2023  
Max Marks : 20


Note: 1. Answer ONE full question from each part.

2. Use of Thermodynamic Data Hand Book is permitted

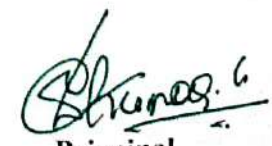
K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Show that entropy is a property of the system.	4	CO4	K3
(b)	A sample of fuel has following composition by weight. Carbon = 83%; Hydrogen = 11%; Oxygen = 3%; Nitrogen = 2%. Determine the stoichiometric air-fuel ratio	8	CO5	K3
<b>OR</b>				
2(a)	State and prove Clausius inequality.	4	CO4	K3
(b)	Methane is burned with atmospheric air. The analysis of products of combustion on dry basis is as follows; CO <sub>2</sub> = 10%, O <sub>2</sub> = 2.37%, CO = 0.53%, N <sub>2</sub> = 87.7%. Determine the combustion equation and air-fuel ratio on mass basis.	8	CO5	K3
<b>PART-B</b>				
3	Define stoichiometric air-fuel ratio, enthalpy of formation and enthalpy of combustion	8	CO2	K2
<b>OR</b>				
4	Define adiabatic flame temperature, combustion efficiency and percentage excess air.	8	CO2	K2

  
Name & Signature of  
Course In charge  
CD. Nagaprasad KS

  
Name & Signature of  
Module Coordinator  
CD. Nagaprasad KS

  
HOD ME  
21/3/23

  
Principal  
Selected



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**THIRD TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**SET: B**

USN									
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Degree : B. E.  
Branch : Mechanical Engineering  
Course Title : THERMODYNAMICS  
Duration : 60 Minutes


Semester : III  
Course Code : 21ME34  
Date : 29/03/2023  
Max Marks : 20


Note: 1. Answer ONE full question from each part.


2. Use of Thermodynamic Data Hand Book is permitted

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Prove that for system executing a cyclic process $\oint \frac{\delta Q}{T} \leq 0$ .	4	CO4	K3
(b)	The products of combustion of unknown fuel $C_xH_y$ have the following composition measured by an Orsat apparatus $CO_2 = 8\%$ , $O_2 = 8.8\%$ , $CO = 0.9\%$ , $N_2 = 82.3\%$ . Determine the combustion equation and air-fuel ratio on mass basis.	8	CO5	K3
<b>OR</b>				
2(a)	Show that entropy is a property of system.	4	CO4	K3
(b)	Benzene $C_6H_6$ is burnt in air and the analysis of products of combustion yielded the following results. $CO_2 = 10.96\%$ , $O_2 = 7.5\%$ , $CO = 0.5\%$ , $N_2 = 81.04\%$ . Determine the air-fuel ratio on mass basis and percentage excess air..	8	CO5	K3
<b>PART-B</b>				
3	Define enthalpy of formation, enthalpy of reactants and enthalpy of combustion	8	CO2	K2
<b>OR</b>				
4	With a neat sketch, explain the exhaust gas analysis using Orsat apparatus	8	CO2	K2

  
Name & Signature of  
Course In charge  
(Dr. Nagaprasad KS)

  
Name & Signature of  
Module Coordinator  
(Dr. Nagaprasad KS)

  
HOD ME  
21/3/23

  
Principal



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

SET-A

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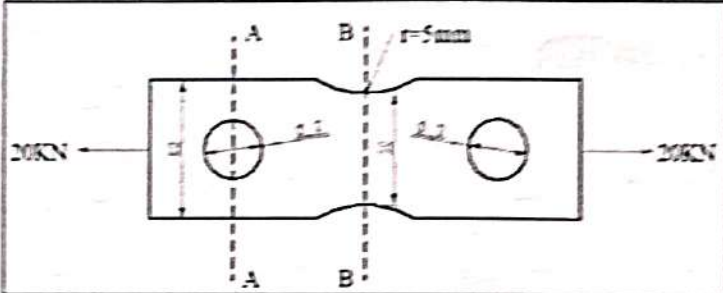
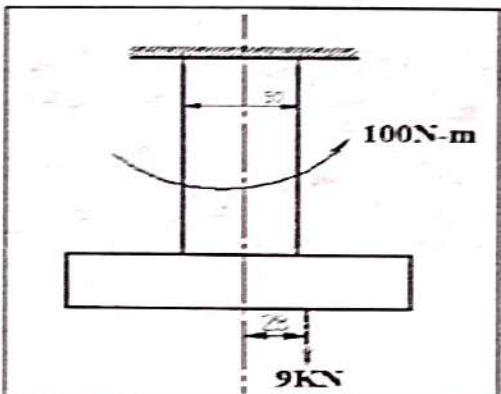
Degree : B.E  
 Branch : MECHANICAL ENGINEERING  
 Course Title : DESIGN OF MACHINE ELEMENTS-I  
 Duration : 90 Minutes

Semester : V  
 Course Code : 18ME52  
 Date : 14-11-2022  
 Max Marks : 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Briefly Explain the phases of Engineering Design.	6	CO1	K2
(b)	<p>A shaft of 50mm diameter is subjected to a tensile load of 10KN, bending load of 3KN &amp; a torque of 3KN-m as shown in figure, determine the stresses at points A &amp; B.</p>	6	CO1	K3
(c)	<p>A point in a structural member is subjected to plane stress as shown in figure. Determine the following.</p> <p>(i) Normal and Tangential Stress on a plane inclined at <math>45^\circ</math> with respect to vertical.</p> <p>(ii) The principal stresses.</p> <p>(iii) The orientation of principal stresses.</p> <p>(iv) The maximum shear stress and its direction.</p>	6	CO1	K3
<b>OR</b>				
2(a)	<p>State and explain the following theories of failures</p> <p>(a) Rankin's Theory, (b) Tresca's Theory, (c) Distortion Energy Theory</p>	6	CO1	K2

(b)	<p>Determine the thickness of a flat plate loaded as shown in figure. Limiting the maximum stress induced in the material to 80 Mpa.</p> 	6	CO1	K3
(c)	<p>A 50mm diameter steel rod supports a 9kN load &amp; in addition is subjected to a Torsional moment of 100N-m as shown in figure. Determine the maximum tensile &amp; maximum shear stress.</p> 	6	CO1	K3
<b>PART - B</b>				
3(a)	<p>Show that the maximum stress induced in axial impact loading is given by</p> $\sigma' = \sigma \left[ 1 + \sqrt{1 + \frac{2h}{\delta_{st}}} \right]$	6	CO2	K3
(b)	<p>An unknown weight falls through 100mm on a collar rigidly attached to the lower end of a vertical bar of 3m long and 600mm<sup>2</sup> cross section. The maximum instantaneous extension is 2mm. Determine the corresponding Stress and value of unknown weight. Take E=206Gpa.</p>	6	CO2	K3
<b>OR</b>				
4(a)	<p>A weight of 1.5kN is dropped on to a collar at the lower end of the vertical bar of length 3m and a diameter 25mm. Calculate the height of drop, if the maximum stress induced is not to exceed 120Mpa, take E=210Gpa.</p>	6	CO2	K3
(b)	<p>A weight of 1kN is dropped from a height of 50mm at the free end of a cantilever beam of effective length 300mm. Determine the square cross section of the cantilever beam. If the allowable stress for the material is 80Mpa.</p>	6	CO2	K3

*(Anil Kumar)*  
 Name & Signature of  
 Course In charge:

*Prakash*  
 Name & Signature of  
 Module Coordinator:

*J. S. S.*  
 HOD ME 4/11/22

*S. S. S.*  
 Principal  
*Selated*



**K S INSTITUTE OF TECHNOLOGY, BENGALURU-560109**  
 DEPARTMENT OF MECHANICAL ENGINEERING  
 I Internal Assessment test ODD Semester  
**SCHEME OF VALUATION 2022-23**

Course Title: Design of Machine Elements - I      Course Code: 18ME52      Date: 14/11/2022

Q. No.	Solution	Marks Division	Total Marks
(1a)	Statement of problem → Analysis of Problem → Synthesis → Analysis & optimization → Evaluation Presentation & Explanation →	-03- -03-	-06-
(1b)	Tensile stress $\sigma_t = 5.09 \text{ N/mm}^2$ Bending stress $\sigma_b = 97.78 \text{ N/mm}^2$ Shear stress $\tau = 12.22 \text{ N/mm}^2$ Stresses at Point A: $\sigma_{max} = 104.3 \text{ N/mm}^2$ ; $\tau = 12.22 \text{ N/mm}^2$ Stresses at Point B: $\sigma_{max} = 1.88 \text{ N/mm}^2$ ; $\tau_{max} = 12.22 \text{ N/mm}^2$	-03- -03- -03- -03-	-06-
(1c)	Normal & Tangential stress → $\sigma_0 = 30 \text{ N/mm}^2$ ; $\tau_0 = 30 \text{ N/mm}^2$ Principle stress → $\sigma_1 = 48 \text{ MPa}$ ; $\sigma_2 = -38.31 \text{ MPa}$ orientation of stress → $\theta_1 = 17.767^\circ$ ; $\theta_2 = 107.76^\circ$ Maximum shear stress → $\tau_{max} = 43.01 \text{ MPa}$ ; $\theta = 27.22^\circ$	-1.5- -1.5- -1.5- -1.5-	-06-
(2a)	Poisson's Theory & Definition → Tressa Theory & Definition → Distortion Theory & Definition →	-2- -2- -2-	-06-
(2b)	Considering section A-A      Thickness $h = 13.02 \text{ mm}$ Considering section B-B      Thickness $h = 11.901 \text{ mm}$	-3- -3-	-06-
(2c)	Maximum Tensile stress $\sigma_{max} = \left(\frac{\sigma}{2}\right) + \sqrt{\left(\frac{\sigma}{2}\right)^2 + \tau^2} = 25.754 \text{ N/mm}^2$ Maximum shear stress: $\tau_{max} = \sqrt{\left(\frac{\sigma}{2}\right)^2 + \tau^2} = 13.2 \text{ N/mm}^2$	-03- -03-	-06-



(3a)	Deriving Till $\sigma_1^2 = \left(\frac{\Delta L}{L E}\right) - \sigma_1 \left(\frac{W L}{E}\right) - W h = 0$	-03-	
	Impart stress: $\sigma_1 = \sigma \left\{ 1 + \sqrt{1 + \frac{2h}{\delta_{st}}} \right\} \rightarrow$	-03-	-06-
(3b)	Impart stress: $\sigma_1 = \frac{\delta_1 E}{L} = 137.34 \text{ N/mm}^2$	-02-	
	$\sigma_1 = \sigma \left\{ 1 + \sqrt{1 + \frac{2h}{\delta_{st}}} \right\}$ <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;"> <math>W = 807.03 \text{ N}</math> </div>	-04-	-06-
(4a)	$\sigma = \frac{F}{A} = 300 \text{ N/mm}^2$ ; $\delta_{st} = \frac{W L}{A E} = 0.0465 \text{ mm}$	-03-	
	$\sigma_1 = \sigma \left\{ 1 + \sqrt{1 + \frac{2h}{\delta_{st}}} \right\} = h = 38.0665 \text{ mm}$	-03-	06.
(4b)	$\sigma_b = \frac{M y}{I} = \frac{1.8 \times 10^6}{b^3}$ ; $\delta = \frac{1}{3} \frac{F L^3}{E I} = \frac{514.285 \times 10^3}{b^4}$	-03-	-06-
	$b = h = 313.2 \text{ mm}$	-03-	

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COURSE INCHARGE

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**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

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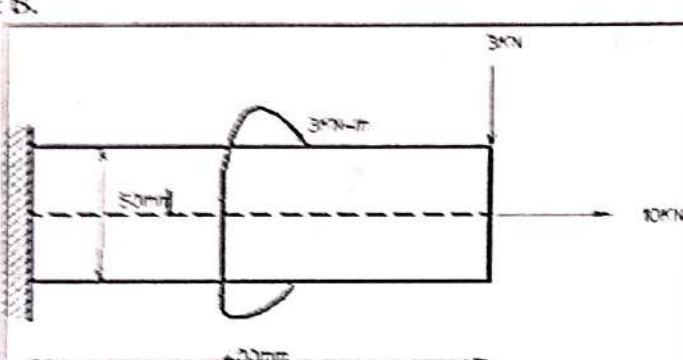
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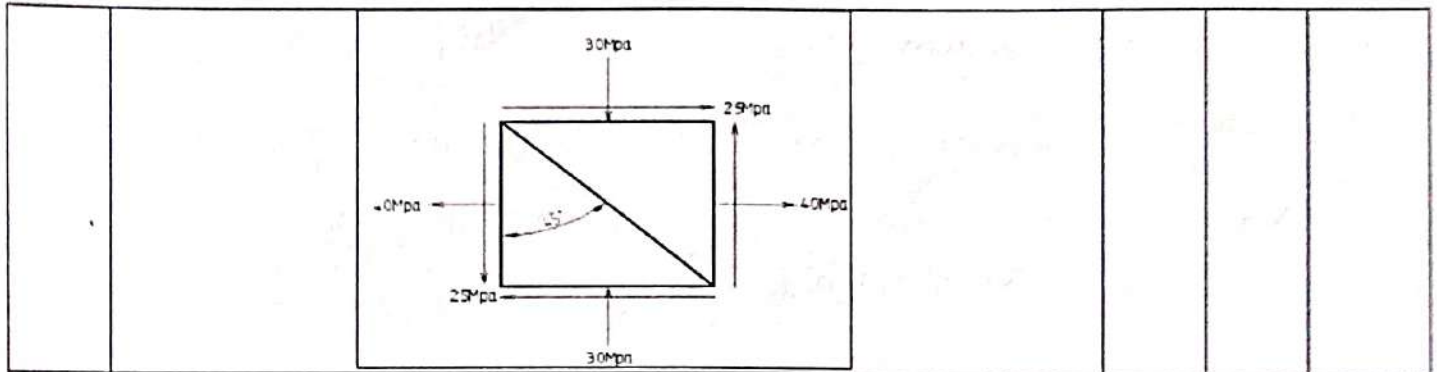
Degree : B.E.  
 Branch : MECHANICAL ENGINEERING  
 Course Title : DESIGN OF MACHINE ELEMENTS-I  
 Duration : 90 Minutes

Semester : V  
 Course Code : 18ME52  
 Date : 14-11-2022  
 Max Marks : 30

Note: Answer ONE full question from each part.

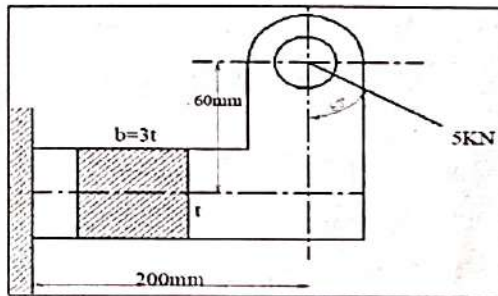
K-Level: K1-Remembering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Explain the codes and standards used in machine design.	6	CO1	K2
1(b)	<p>A shaft of 50mm diameter is subjected to a tensile load of 10KN, bending load of 5KN &amp; a torque of 5KN-m as shown in figure, determine the stresses at points A &amp; B.</p> 	6	CO1	K3
1(c)	A beam of uniform rectangular cross section is fixed at one end and carries a load of 1000N at a distance of 300mm from the fixed end. The maximum bending stress in the beam is 80MPa. Find the width and depth of the beam. If the depth is twice that of width.	6	CO1	K3
<b>OR</b>				
2(a)	Explain the factors which influence the selection of engineering materials.	6	CO1	K2
2(b)	<p>A point in a structural member is subjected to plane stress as shown in figure. Determine the following.</p> <p>(i) Normal and Tangential Stress on a plane inclined at 45° with respect to vertical.</p> <p>(ii) The principal stresses.</p> <p>(iii) The orientation of principal stresses.</p> <p>(iv) The maximum shear stress and its direction.</p>	6	CO1	K3



A wall bracket with a rectangular cross section is as shown in figure . The force 'P' acting on the bracket at  $60^\circ$  to the vertical is 5 kN. The material of the bracket is grey cast iron and FOS is 2. Determine the cross section of the bracket for maximum normal stress.

(c)



6

CO1

K3

PART - B

3(a)

A machine element in the form of a cantilever beam of 800mm span has a rectangular cross section of depth 200mm. The free end of a beam is subjected to an impact from a transverse load of 1kN, that drops on to it from a height of 40mm. Selecting carbon-steel C-30, with yield strength of 294.2Mpa and factor of safety as 2.5. Determine the width of rectangular cross section.

6

CO2

K3

(b)

A steel bar of 50mm diameter and 1m long is subjected to an axial impact load caused by weight of 200N under gravity, with a velocity of 5m/sec. Determine maximum stress induced in the bar. Take  $E=210 \times 10^3 \text{ N/mm}^2$

6

CO2

K3

OR

4(a)

Obtain an expression for impact stress induced in a member subjected to an axial load.

6

CO2

K3

(b)

An unknown weight falls through 100mm on a collar rigidly attached to the lower end of a vertical bar of 3m long and  $600\text{mm}^2$  cross section. The maximum instantaneous extension is 2mm. Determine the corresponding Stress and value of unknown weight. Take  $E=206\text{Gpa}$ .

6

CO2

K3

*(Anil Kumar A)*  
 Name & Signature of  
 Course In charge:

*H. N. N. N. N. N.*  
 Name & Signature of  
 Module Coordinator:

*J. Hanu*  
 HOD/ME 9/11/22

*K. S. S. S.*  
 Principal



**K S INSTITUTE OF TECHNOLOGY, BENGALURU-560109**

DEPARTMENT OF MECHANICAL ENGINEERING

I Internal Assessment test ODD Semester

**SCHEME OF VALUATION 2022-23**

Course Title: Design of Machine Elements - I

Course Code: 18ME52

Date: 14/11/2022

Q. No.	Solution	Marks Division	Total Marks
(1a)	Defn of standards with examples	-03-	-06-
(1b)	Defn of codes with examples	-03-	
(1b)	<p>Tensile Stress: <math>\sigma_t = 5.09 \text{ MPa}</math></p> <p>Bending Stress: <math>\sigma_b = 47.78 \text{ N/mm}^2</math></p> <p>Shear Stress: <math>\tau = 12.2 \text{ N/mm}^2</math></p> <p>Stress at A: <math>\sigma_{max} = 104.3 \text{ MPa}</math>; <math>\tau_{max} = 52.8 \text{ MPa}</math></p> <p>Stress at B: <math>\sigma_{max} = 1.58 \text{ MPa}</math>; <math>\tau_{max} = 47.92 \text{ MPa}</math></p>	-03-	-06-
(1c)	<p><math>M_b = F \times L = 3 \times 10^5 \text{ N-mm}</math>; <math>I = \frac{bh^3}{12} = \frac{8b^4}{12} \rightarrow</math></p> <p><math>y = h/2</math></p> <p><math>b = 17.784 \text{ mm}</math>      <math>h = 35.586 \text{ mm}</math></p>	-03-	-06-
(2a)	<p>Normal &amp; Tangential Stress <math>\sigma = 30 \text{ MPa}</math>; <math>\tau = 35 \text{ MPa}</math></p> <p>The Principal Stress <math>\sigma_1 = 48.01 \text{ MPa}</math>; <math>\sigma_2 = -38.31 \text{ MPa}</math></p> <p>orientation of Principal Stress <math>\theta_1 = 17.67^\circ</math>; <math>\theta_2 = 107.76^\circ</math></p> <p>Shear Stress &amp; Direction: <math>\tau_{max} = 43.01 \text{ MPa}</math>; <math>\theta = 27.23^\circ</math></p>	-1.5- -1.5- -1.5- -0.5-5-	-06-
(2b)	<p>Horizontal Component <math>F_H = 4320.127 \text{ N}</math></p> <p>Vertical Component <math>F_V = 8500 \text{ N}</math></p> <p>Direct Stress <math>\sigma_d = \frac{1444.37}{t^2}</math></p> <p>Bending Stress <math>\sigma_b = \frac{519615.04}{t^3}</math></p> <p><math>t = 29.275 \text{ mm}</math>      <math>b = 87.825 \text{ mm}</math></p>	-02- -02- -02-	-06-
(2c)	<p>Strength ; Rigidity ; wear Resistance ; minimum dimensions &amp; weight ; Safety ; Reliability ; Cost ; Maintainability ; manufacturability</p>	-06-	-06-

(3a)  $\sigma' = 117.7 \text{ MPa}; \quad \gamma = \frac{FL^3}{3EI} = \frac{1.819}{b}$

$\sigma' = \sigma \left\{ 1 + \sqrt{1 + \frac{2b}{\gamma}} \right\} = b = 69.64 \text{ mm}$

(3b)  $\sigma = \frac{F}{A} = 0.101 \text{ N/mm}^2; \quad v = \sqrt{2gh} \cdot h = 1.85 \times 10^{-3}$

$\delta_{st} = \frac{WL}{AE} = 4.85 \times 10^{-4} \text{ mm}$

$\sigma' = \sigma \left\{ 1 + \sqrt{1 + \frac{2b}{\delta_{st}}} \right\} = 229.77 \text{ N/mm}^2$

(4a) Deriving HLL:  $\sigma'^2 \left( \frac{AL}{AE} \right) - \sigma' \left( \frac{WL}{E} \right) - Wb = 0$

Deriving HLL:  $\sigma' = \sigma \left\{ 1 + \sqrt{1 + \frac{2b}{\delta_{st}}} \right\}$

(4b)  $\sigma' = \frac{\delta' E}{L} = 137.34 \text{ N/mm}^2$

$\sigma' = \sigma \left\{ 1 + \sqrt{1 + \frac{2b}{\delta_{st}}} \right\}$

$W = 807.03 \text{ N}$

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COURSE INCHARGE

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**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**SET: A**

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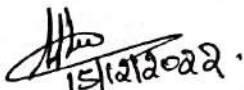
Degree	: B. E.,	Semester	: V
Branch	: Mechanical Engineering	Course Code	: 18ME52
Course Title	: Design of Machine Elements-I	Date	: 22/12/2022
Duration	: 90 Minutes	Max Marks	: 30


Note: Answer **ONE** full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Prove that a square has equal strength in both compression as well as in shear. <i>Key</i>	6	CO3	K3
(b)	Design a flange coupling to connect to a motor with following specification. Take pump output = 3000Ltrs/min, Total head =20m, Pump speed = 600rpm, Efficiency = 70%. Select C40 steel for shaft, C35 steel for key with factor of safety 2. Assume allowable stress in Cast Iron flange as 15Mpa.	12	CO3	K3
<b>OR</b>				
2(a)	A rectangular key of 15mm width and 12mm thickness is required to transmit a torque of 800N-m from a shaft of 40mm diameter. Taking allowable values of stress in shear and compression as 58Mpa and 110Mpa respectively. Find the length of the key required.	6	CO3	K3
(b)	Design a pin type flexible coupling to transmit 10KW at 500rpm. Assume C40 steel for shaft, pin, keys with $\sigma_y=328.6\text{Mpa}$ & FOS=2. Flange is made up of Cast iron with $\sigma_{ut}=124.5\text{Mpa}$	12	CO3	K3
<b>PART -B</b>				
3(a)	Derive an expression for Impact stress induced due to Impact bending load.	6	CO2	K3
(b)	A simply supported beam of 5m span has to resist an impact of 6KN falling under gravity with a velocity of 30m/min at its center. The beam is of box section of 40mm depth. The moment of inertia of box section is $10^8\text{mm}^4$ , the modulus of elasticity is 210Gpa. Determine the maximum stress induced in the beam and compare that with static stress.	6	CO2	K3
<b>OR</b>				
4(a)	A machine element in the form of a cantilever beam of span 800mm has a rectangular cross section of depth 200mm. The free end of a beam is subjected to an impact from a transverse load of 1KN, that drops on to it from a height of 40mm. Selecting C-30 steel with yield strength $\sigma_y=294.2\text{Mpa}$ and choosing Factor of Safety as 2.5,	6	CO2	K3

	determine the width of rectangular cross section.			
(b)	A stainless steel beam of span 1000mm is subjected to central load of 20KN, that falls from a height of 20mm. The beam has a rectangular cross section of 60mm X 200mm. The material of the beam has a modulus of elasticity of 207Gpa. Determine Maximum normal stress, Maximum static deflection, Impact factor, Maximum Impact normal stress, Maximum Impact deflection..	6	CO2	K3

  
 (ANIL KUMAR A)  
 Name & Signature of  
 Course In charge

  
 M. Naresh  
 (M. Naresh)  
 Name & Signature of  
 Module Coordinator

  
 HOD ME

  
 Principal



# K S INSTITUTE OF TECHNOLOGY, BANGALORE-109

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR-2022-23

## SCHEME OF EVALUATION

Internal: II

Subject: DME-I

Subject code: 18ME52

Sem & Section: V

Date: 22/12/2022

Max. Marks: 30

Duration: 90 MINS

Question No:	Points to be Covered	Marks Split	Total Marks
(1a)	$\tau_{hc} = \frac{\tau_c h l d}{4} \rightarrow \textcircled{1} \quad \tau_{hs} = \frac{\tau_c b h d}{2} \rightarrow \textcircled{2}$ $\textcircled{1} \div \textcircled{2} \quad \frac{\tau_{hc}}{\tau_{hs}} = \frac{\frac{\tau_c h l d}{4}}{\frac{\tau_c b h d}{2}} \quad \frac{\tau_{hc}}{\tau_{hs}} = \frac{\tau_c l / 2}{\tau_c b}$ $\frac{\tau_{hc}}{\tau_{hs}} = \frac{\tau_c}{\tau_c b} = \frac{1}{b} \quad \boxed{\tau_{hc} = \tau_{hs}}$	<p>03M.</p> <p>03M</p>	06M.
(1b)	$P = \frac{W D N}{1000} = 9.81 \text{ kW}; \quad P_{total} = \frac{P}{\eta} = \frac{9.81}{0.7} = 14.01 \text{ kW}$ $M_t = \frac{9550 N}{\eta} = 222.833 \times 10^3 \text{ N mm}$ $M_t = \frac{\pi d^3}{16} \tau_s \Rightarrow \tau_s = d s t = 28 \text{ mm}$ $\text{Key} \Rightarrow b = 8 \text{ mm}; h = 7 \text{ mm}; L = 29.91 \text{ mm}$ $\text{Bolts} \Rightarrow i = 4; D_1 = 106 \text{ mm}; d_1 = 7 \text{ mm}$ $\text{Stress in bolts: } \tau_b = 27.311 \text{ N/mm}^2$ $\text{NUTS: } D_2 = 67 \text{ mm}; L = 53.7 \text{ mm}; D = 145 \text{ mm}; t = 7 \text{ mm}$ $\text{Check for stress: } \tau_s = 4.51 \text{ N/mm}^2$	<p>03M.</p> <p>08M.</p> <p>04M</p> <p>03M.</p>	12M.
(2a)	$\tau_{hc} = \frac{\tau_c h l d}{4} \Rightarrow L = 60.606 \text{ mm}$ $\tau_{hs} = \frac{\tau_c b h d}{2} \Rightarrow L = 57.471 \text{ mm}$	<p>03M</p> <p>03M</p>	06M
(2b)	$M_t = \frac{9550 \times N}{\eta} = 191000 \text{ N mm}; \quad M_t = \frac{\pi d^3}{16} \tau_s \Rightarrow d s t = 28 \text{ mm} \rightarrow$ $\text{Key: } b = 8 \text{ mm}; h = 7 \text{ mm}; L = 25.54 \text{ mm} \rightarrow$ $\text{Pin: } i = 4; D_1 = 100 \text{ mm} \rightarrow$ $\text{Bolt: } L = 6.25 \text{ mm}; F = 936.0 \text{ N}; d_1 = 58 \text{ mm}; d_2 = 4 \text{ mm}; d_3 = 28 \text{ mm}$ $\text{Stress in pin: } \tau_p = 1.50 \text{ N/mm}^2; \tau_b = 4.65 \text{ N/mm}^2; \tau_{max} = 5.10 \text{ N/mm}^2$ $\tau_{max} = 2.77 \text{ MPa}$ $\text{Stress in flange: } D = 150 \text{ N/mm}^2; D_2 = 45.5 \text{ mm}; t = 9.75 \text{ mm}$ $\text{Stress in flange: } \tau_s = 6.02 \text{ N/mm}^2$	<p>02M.</p> <p>02M.</p> <p>04M.</p> <p>04M</p>	12M.



Question No:	Points to be Covered	Marks Split	Total Marks
(2a)	$W = \rho \times \text{Volume} = \rho \times \text{Area} \times \text{Distance} \Rightarrow W = \rho (h + y')$ $\text{max deflection by Equivalent static weight } w_e = \frac{1}{2} w_e y'$ $\delta w_e y' = W(h + y') \Rightarrow y' = \frac{w_e h^3}{48EI} \Rightarrow y' = \frac{\rho (h + y')}{48EI} \times \frac{w_e h^3}{48EI}$ $y' = \frac{\rho (h + y') y'}{48EI} \Rightarrow y'^2 - (\rho h) y' - \rho h y = 0$ $y' \times \frac{8EI}{h^2} = y' \times \frac{8EI}{h^2} \left\{ 1 + \sqrt{1 + \frac{2h}{y'}} \right\}$ $\sigma'_b = \sigma_b \left\{ 1 + \sqrt{1 + \frac{2h}{y'}} \right\}$	<p>03M</p> <p>02M</p> <p>02M</p>	06M
(3b)	$\sigma'_b = \sigma_b \left\{ 1 + \sqrt{1 + \frac{2h}{y'}} \right\} \Rightarrow h = \frac{y'^2}{2g} = 12.7 \text{ mm}$ $\sigma_b = \frac{M_b y}{I} \Rightarrow 1.5 \text{ N/mm}^2$ $y = \frac{W h^3}{48EI} \Rightarrow 0.744 \text{ mm}$ $\sigma'_b = 10.405 \text{ N/mm}^2; \text{IF} = 6.9367$	<p>03M</p> <p>03M</p>	06M
(4a)	$\sigma_b = \frac{M_b y}{I} \Rightarrow \frac{120}{b}; \quad y = \frac{F h^3}{48EI} = \frac{1219}{b}$ $\sigma'_b = \sigma_b \left\{ 1 + \sqrt{1 + \frac{2h}{y}} \right\} \Rightarrow (0.98080 - 1) = \sqrt{1 + 65.030}$ $b = 69.64 \text{ mm}$	<p>03M</p> <p>03M</p>	06M
(4b)	$\sigma_b = \frac{M_b y}{I} \Rightarrow 12.5 \text{ N/mm}^2$ $y = \frac{W h^3}{48EI} \Rightarrow 0.0504 \text{ m}$ $\sigma'_b = \sigma_b \left\{ 1 + \sqrt{1 + \frac{2h}{y}} \right\} \Rightarrow 366.27 \text{ N/mm}^2$ $\text{IF} = \frac{\sigma'_b}{\sigma_b} = 29.3016$ $y' = y \left\{ 1 + \sqrt{1 + \frac{2h}{y}} \right\} = 1.4650 \text{ mm}$	<p>02M</p> <p>01M</p> <p>01M</p> <p>01M</p> <p>01M</p>	06M

*[Signature]*  
15/12/2022

Signature of Course Incharge

*[Signature]*  
Signature of HOD/MED



K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109  
SECOND INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER

**KSIT**

**SET: B**

USN 

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Degree : B. E., Semester : V  
Branch : Mechanical Engineering Course Code : 18ME52  
Course Title : Design of Machine Elements-I Date : 22/12/2022  
Duration : 90 Minutes Max Marks : 30

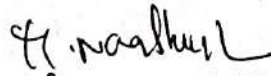
Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Find the dimensions of a square tapered key to transmit 20KW at 1800rpm. Allowable shear and compressive stresses are 80Mpa and 170Mpa. Also calculate the axial force required to drive the keyway.	6	CO3	K3
(b)	Design a flexible flanged coupling to transmit a power of 25KW at speed of 500rpm. Assume Shaft, Keys, Pins are made of C40 steel with FOS=2 and flanges are made of Cast iron with FOS=6. Assume bearing pressure=0.5Mpa.	12	CO3	K3
<b>OR</b>				
2(a)	Derive the equation for torque transmitted by the key in compression and shear.	6	CO3	K3
(b)	It is required to design a protected type rigid flange coupling to connect two shafts. The shaft transmits 37.5KW at 180rpm to the output shaft through coupling. Starting torque is 15 times the rated torque. The shaft and key are made of steel with yield strength 380Mpa and FOS=2.5. Flanges are made of Cast Iron FG200 with FOS=6. Assume ultimate shear as on half of the ultimate tensile strength.	12	CO3	K3
<b>PART -B</b>				
3(a)	A weight of 1KN is dropped from a height of 50mm at the free end of a cantilever beam of effective length 300mm. Determine the square cross section of the cantilever beam if the allowable stress for the material is 80Mpa.	6	CO2	K3
(b)	A power hammer of mass 500Kg strikes the angle supported at the midpoint of the beam simply supported at its ends 5m apart, the height through which the angle falls is 10cm. Determine the width of the rectangular cross section of beam if the depth of the cross section is 200mm. Take $E=210 \times 10^3$ Mpa and C-30 steel with FOS=2.5.	6	CO2	K3
<b>OR</b>				
4(a)	Derive an expression for Impact stress induced due to Impact bending load.	6	CO2	K3
(b)	A beam of 40mm depth and I cross section is resting on two supports	6	CO2	K3

that are 6m apart. It is loaded by a weight of 5000N falling through a height of 10mm and striking the beam at mid point. The moment of Inertia of the I section is  $12 \times 10^7 \text{mm}^4$ . Take  $E = 210 \times 10^3 \text{Mpa}$ .  
**Determine:** (i) Impact factor, (ii) Instantaneous maximum deflection, (iii) Instantaneous maximum stress, (iv) Instantaneous maximum load.

  
15/12/2022.  
(ADIL KUMAR A)  
Name & Signature of  
Course In charge

  
(M. NARAN KUMAR)  
Name & Signature of  
Module Coordinator

  
HOB ME

  
Principal

Selected.



# K S INSTITUTE OF TECHNOLOGY, BANGALORE-109

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR-2022-23

## SCHEME OF EVALUATION

Internal: II

Subject: DME-I

Subject code: 18ME52

Sem & Section: V

Date: 22/12/2022

Max. Marks: 30

Duration: 90 MINS

Question No:	Points to be Covered	Marks Split	Total Marks
(1a)	$M_t = \frac{9550 \times N}{n} = 106.11 \times 10^3 \text{ N-mm}$ $M_t = \frac{\pi d^3}{16} \tau_s = d = 20.806 \text{ mm}; d_{\text{std}} = 22 \text{ mm}$ $\text{from } T \cdot 17.4 \Rightarrow b = h = 6 \text{ mm}$ $M_t = \frac{\tau_s b h d}{2} \Rightarrow L = 20.09 \text{ mm}$ Axial force $\Rightarrow F_a = 2M_2 F + F_{\text{load} B} = 6765.31 \text{ N}$	02M 02M 02M	06M
(1b)	$M_t = \frac{9550 \times N}{n} = 477.8 \times 10^3 \text{ N-mm}$ $M_t = \frac{\pi d^3}{16} \tau_s = d_{\text{std}} = 32 \text{ mm}$ Key $b = h = 10 \text{ mm}; L = 60 \text{ mm}$ Check for stresses $\rightarrow \tau = 49.74 \text{ MPa}; \sigma_b = 99.48 \text{ MPa}$ Pinion: $i = 4; d_p = 16 \text{ mm}; R_D = 125 \text{ mm}$ Bush: $d' = 26 \text{ mm}; F = 181b; L_b = 70.74 \text{ mm}$ Flange: $D_3 = 170 \text{ mm}; t = 21 \text{ mm}$	01M 02M 02M 01M 02M 02M 02M	12M
(2a)	Compression $M_{tc} = F_c \times \text{Radius} \Rightarrow \sigma_c \times A \times \frac{d}{2} = \tau_c \frac{b}{2} \times \frac{d}{2}$ $M_{tc} = \frac{\tau_c b h d}{4}$ Shear: $M_{ts} = F_b \times \text{Radius} \Rightarrow \tau_b \frac{d}{2} \Rightarrow \tau_s b h \frac{d}{2}$ $M_{ts} = \frac{\tau_s b h d}{2}$	03M 03M	06M
(2b)	$M_t = \frac{9550 \times N}{n} \Rightarrow 1989583.34 \text{ N-mm}$ $M_{t \text{ max}} = 898437501 \text{ N-mm}$ $M_t = \frac{\pi d^3}{16} \tau_c \Rightarrow d_{\text{std}} = 65$ Key: $b = 18 \text{ mm}; h = 11 \text{ mm}; L = 109.8408 \text{ mm}$ Bolts: $i = 6; D_1 = 24.5 \text{ mm} = 18 \text{ mm}; d_1 = \frac{0.5d}{\pi} = 14 \text{ mm}$ Bolts: $\tau_b = 25901 \text{ N/mm}^2$ Hub DI: $D_2 = 122.5 \text{ mm}; h = 100 \text{ mm}; D = 237.5 \text{ mm}; t = 16.25$ Bolts: $\tau_g = 7.79 \text{ N/mm}^2$	02M 02M 04M 04M	12M

Question No:	Points to be Covered	Marks Split	Total Marks
(2a)	<p>work done = Force x Distance <math>\Rightarrow W(h+y)</math></p> <p>work done by equivalent weight <math>\Rightarrow \int_0^h w dy</math></p> <p><math>\frac{1}{2} w y^2 = w(h+y) \Rightarrow w = \frac{2w(h+y)}{y^2} \Rightarrow y' = \frac{wL^3}{48EI}</math></p> <p><math>y = \frac{2w(h+y)}{y} \times \frac{L^3}{48EI} \Rightarrow y' = \frac{R(h+y)}{y^2}</math></p> <p><math>y^2 - 2hy - (2y^2) = 0 \Rightarrow y' \times \frac{8EI}{L^2} = y \frac{8EI}{L^2} \{1 + \sqrt{1+2h/y}\}</math></p> <p><math>\sigma_b' = \sigma_b \{1 + \sqrt{1+2h/y}\}</math></p>	<p>02M.</p> <p>02M</p> <p>02M</p>	6M.
(2b)	<p><math>\sigma_b = \sigma_b [1 + \sqrt{1+2h/y}] = 7.89 \text{ N/mm}^2</math>; <math>\sigma_b = \frac{Mbh}{I} = 1.85 \text{ N/mm}^2</math></p> <p><math>IF = \frac{\sigma_b'}{\sigma_b} = 0.83</math>; <math>y' = y \{1 + \sqrt{1+2h/y}\} = 5.8116 \text{ mm}</math></p> <p><math>IF = \frac{wL}{\sigma} = 29187 \text{ N}</math></p>	<p>02M.</p> <p>03M.</p> <p>01M</p>	6M.
(3a)	<p><math>\sigma_b' = \sigma_b [1 + \sqrt{1+2h/y}] \Rightarrow \sigma_b = \frac{Mbh}{I} = \frac{1.8 \times 10^6}{b^3}</math></p> <p><math>y = \frac{1}{3} \frac{FL^3}{3EI} = \frac{514.285 \times 10^3}{b^4}</math></p> <p><math>b = h = 313 \text{ mm}</math></p>	<p>02M.</p> <p>02M</p> <p>02M</p>	6M.
(3b)	<p><math>\sigma_b = \frac{Mbh}{I} \Rightarrow \frac{919.04}{b}</math></p> <p><math>y = \frac{FL^3}{48EI} \Rightarrow \frac{91.93}{b}</math></p> <p><math>\sigma_b' = \sigma_b \{1 + \sqrt{1+2h/y}\}</math></p> <p><math>0.127b - 1 = \sqrt{1+2.19D}</math></p> <p><math>b = 151.8012 \text{ mm}</math></p>		



Signature of Course Incharge



Signature of HOD/MED

**KSIT**

# K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109

## THIRD INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER

**SET: A**

USN									
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**Degree** : B. E.,  
**Branch** : Mechanical Engineering  
**Course Title** : Design of Machine Elements-I  
**Duration** : 90 Minutes

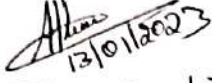
**Semester** : V  
**Course Code** : 18ME52  
**Date** : 18/01/2023  
**Max Marks** : 30

Note: Answer **ONE** full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Explain Caulking & Fullering with a neat sketch.	5	CO4	K2
(b)	Design a triple riveted longitudinal double strap butt joint with unequal strap for a boiler. The inside diameter of the longest course of the drum is 1.3m. The joint is to be designed for a steam pressure of 2.4N/mm <sup>2</sup> . The working stresses to be used are $\sigma_t=77\text{Mpa}$ for plate material in tension, $\tau =62\text{Mpa}$ for rivet material in shear, $\sigma_c=120\text{Mpa}$ for rivet material in compression. Assume joint efficiency of 81%.	10	CO4	K4
<b>OR</b>				
2(a)	Explain in brief types of failures in riveted joints.	5	CO4	K2
2(b)	An air vessel of 1m diameter has triple riveted lap joint (Zig-Zag type), the maximum air pressure in the vessel is 2Mpa. Design the riveted joint if the safe working stress in tension, Shear and compression are 125Mpa, 90Mpa & 165Mpa.	10	CO4	K4
<b>PART -B</b>				
3(a)	Derive the Expression for Torque required to lift the load on a square threaded screw.	7	CO5	K3
(b)	A weight of 500KN is raised at a speed of 6m/min by two screw rods with square threads of 50X8 cut by them. The two screw rods are driven through bevel gear driven by a motor, Calculate, i) The torque required to raise the load ii) The speed of rotation of the screw rod assuming the threads are of double start. iii) The maximum stresses induced on the cross-section of the screw rod. iv) The efficiency of screw drive. v) The length of nuts for the purpose of supporting the load vi) Check for overhaul.	8	CO5	K4
<b>OR</b>				

4(a)	Design a screw jack with a lift of 300mm to lift a load of 50KN. Select C40 steel ( $\sigma_y = 328.6MPa$ ) for screw and soft phosphor bronze ( $\sigma_{ut} = 345MPa, \sigma_y = 138MPa$ ) for nut.	15	CO5	K4
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 (Anilkumar. A)  
 Name & Signature of  
 Course In charge

  
 Name & Signature of  
 Module Coordinator

  
 HOD ME

  
 Principal




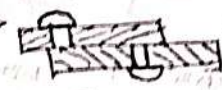



SCHEME OF EVALUATION

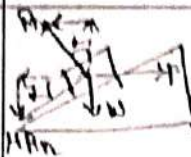
Internal: III  
 Subject: DME-I  
 Subject code: 18ME52

Sem & Section: V  
 Date: 18/01/2023

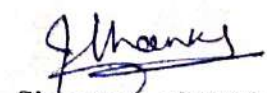
Max. Marks: 30  
 Duration: 90 M

Question No:	Points to be Covered	Marks Split	Total Marks
(1a)	<p><u>Countersink</u>  * used to get better proof joint            * used point angled top at 70°/75°</p> <p><u>Roller thread</u>  * uses the tool equal to the thickness of plate</p>	<p>2.5M</p> <p>2.5M</p>	05M
(1b)	<p>Finding thickness &amp; sketch <math>\rightarrow</math></p> <p>Finding cover plate thickness, length &amp; dia of rivet <math>\rightarrow</math></p> <p>Finding Pitch, transverse pitch &amp; margin <math>\rightarrow</math></p> <p>Finding efficiency <math>\rightarrow</math></p>	<p>2M</p> <p>2M</p> <p>3M</p> <p>3M</p>	10M
(2a)	<p><u>Tearing of plate</u> <math>\rightarrow</math>  hole is placed to close to plate.</p> <p><u>Shearing of rivets</u> <math>\rightarrow</math>  failure because of shear.</p> <p><u>Crushing of rivets</u> <math>\rightarrow</math>  failure because of compressive load.</p>	<p>2M</p> <p>1.5M</p> <p>1.5M</p>	05M
(2b)	<p>Finding thickness &amp; sketching a joint <math>\rightarrow</math></p> <p>Finding length, dia of rivet &amp; rivet hole dia <math>\rightarrow</math></p> <p>Finding longitudinal pitch, transverse pitch &amp; margin <math>\rightarrow</math></p> <p>Finding efficiency <math>\rightarrow</math></p>	<p>2M</p> <p>2M</p> <p>3M</p> <p>2M</p>	10M



Question No:	Points to be Covered	Marks Split	Total Marks
(3a)	 <p>Vertical component  <math>W = R \cos \phi - \mu R \sin \phi</math>  <math>\frac{F}{W} = \left\{ \frac{\mu + \tan \phi}{1 - \mu \tan \phi} \right\} \Rightarrow M_{is} = F \times \frac{d}{2}</math>; <math>\mu = \tan \phi</math>  <math>M_{is} = W \frac{d}{2} \tan(\phi + \alpha)</math></p>	04M 03M	07M
(3b)	<p>Torque <math>\Rightarrow M_t = W \left[ \frac{d_2}{2} \left( \frac{\mu + \tan \phi}{1 - \mu \tan \phi} \right) + \frac{\mu d_c}{2} \right] = 2647500 \text{ N-mm}</math></p> <p>Speed <math>\Rightarrow n = \frac{V}{\pi} = \frac{6000}{2 \times \pi}</math></p> <p>Efficiency <math>\Rightarrow \eta = \frac{d_2 \tan \alpha}{d_2 \left( \frac{\mu + \tan \phi}{1 - \mu \tan \phi} \right) + \mu d_c} = 20.8\%</math></p> <p>Length of nut! <math>l_n = i P = \frac{4WP}{\pi (d_2^2 - d_1^2)} = 156 \text{ mm}</math></p> <p>Condition for overhauling <math>\tan \alpha &gt; \mu</math></p>	02M 01M 02M 02M 01M	08M
(4)	<p>Design of screw! <math>A_c = 707 \text{ mm}^2</math>; <math>d = 36 \text{ mm}</math>; <math>d_1 = 30 \text{ mm}</math>; <math>d_2 = 33 \text{ mm}</math>; <math>d_{nut} = 36.5 \text{ mm}</math></p> <p>Stress in screw! <math>\sigma_{max} = 82.41 \text{ N/mm}^2</math>; <math>\tau_{max} = 47.05 \text{ N/mm}^2</math></p> <p>Screw head! <math>H_1 = 9 \text{ mm}</math>; <math>d_{c1} = 72 \text{ mm}</math>; <math>d_c = 51 \text{ mm}</math>; <math>A_c = 0.6</math></p> <p>Nut! <math>l_n = 72 \text{ mm}</math>; <math>D_1 = 55 \text{ mm}</math>; <math>D_2 = 65 \text{ mm}</math>; <math>H = 15 \text{ mm}</math></p> <p>Buckling <math>F_{os} = 157048.4552 \text{ N}</math></p> <p>Handle! <math>l_n = 1769 \text{ mm}</math>; <math>d_h = 33 \text{ mm}</math></p> <p>CoP! <math>D_3 = 72 \text{ mm}</math>; <math>D_4 = 144 \text{ mm}</math>; <math>H_2 = 60 \text{ mm}</math>; <math>t = 6 \text{ mm}</math></p> <p>Efficiency! <math>\eta = 13.55\%</math></p> <p>Overhauling! Self-locking screw</p> <p>Body! <math>H = 450 \text{ mm}</math>; <math>D_5 = 100 \text{ mm}</math>; <math>D_6 = 150 \text{ mm}</math>; <math>D_7 = 225 \text{ mm}</math>; <math>t_1 = 30 \text{ mm}</math>; <math>t_2 = 10 \text{ mm}</math></p>	03M 03M 02M 02M 03M 02M	15M

  
Signature of Staff

  
Signature of HOD



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**KSIT**

**SET: B**

USN

Degree : B. E.,  
Branch : Mechanical Engineering  
Course Title : Design of Machine Elements-I  
Duration : 90 Minutes

Semester : V  
Course Code : 18ME52  
Date : 18/01/2023  
Max Marks : 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Explain in brief types of failures in riveted joints.	5	CO4	K2
(b)	Design a longitudinal joint for a boiler of 1m diameter, subjected to a steam pressure of 2Mpa. Select double riveted joint with double cover straps, with a required efficiency of 75%. Take the following allowable stress. Tensile stress ( $\sigma_t=80$ )Mpa, shear stress ( $\tau =60$ )Mpa, Compressive stress ( $\sigma_c=120$ )Mpa.	10	CO4	K4
<b>OR</b>				
2(a)	Explain Caulking & Fullering with a neat sketch.	5	CO4	K2
(b)	A boiler shell of 1m diameter has a circumferential triple riveted lap joint. The maximum pressure in the boiler is 2Mpa. Design the riveted joint if the allowable stress in tension, shear and compression is 120Mpa, 80Mpa and 160Mpa respectively.	10	CO4	K4
<b>PART -B</b>				
3(a)	Briefly Explain Self locking and Overhauling. Derive torque required to raise the load.	7	CO5	K3
(b)	A Double threaded power screw with trapezoidal ISO thread is used to lift a load of 300KN. The nominal diameter is 100mm and the pitch is 12mm. The coefficient of friction is 0.15. Neglecting collar friction, Determine (i) Torque required to lift the load (ii) Torque required to lower the load (iii) Efficiency of the screw (iv) Check whether the screw is self locking or Overhauling.	8	CO5	K3
<b>OR</b>				
4(a)	Design a screw jack with a lift of 300mm to lift a load of 50KN. Select C40 steel ( $\sigma_y = 328.6$ MPa) for screw and soft phosphor bronze ( $\sigma_{ut} = 345$ MPa, $\sigma_y = 138$ MPa) for nut.	15	CO5	K4

13/01/2022  
Name & Signature of  
Course In charge  
(Anil Kumar A)

19/1/23  
Name & Signature of  
Module Coordinator

HOD ME






Principal  
S. K. S. S.

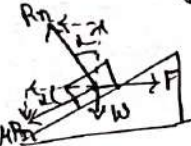
#### SCHEME OF EVALUATION

Internal: III  
 Subject: DME-I  
 Subject code: 18ME52

Sem & Section: V  
 Date: 18/01/2023

Max. Marks: 30  
 Duration: 90 M

Question No:	Points to be Covered	Marks Split	Total Marks
(1a)	<p><u>Spacing of plates:</u>  when hole is placed too close to the end of the plate. →</p>	2M	5M.
	<p><u>Spacing of rivets:</u>  failure because of shear. →</p>	1.5M	
	<p><u>Spacing of rivets:</u>  failure because of compressive load. →</p>	1.5M	
(1b)	<p>Thickness <math>\Rightarrow h = \frac{P D_1}{4 \sigma_s} = 17 \text{mm}</math> &amp; sketch. →</p>	3M.	10M.
	<p>Dia of rivet = <math>6\sqrt{h} = 6\sqrt{17} = 27 \text{mm}</math>; <math>d_h = 28.5 \text{mm}</math>. →</p>	2M.	
	<p>Cover plate <math>t_1 = t_2 = 0.625h = 10.625 \text{mm}</math>. →</p>	3M	
	<p>Length <math>L = t_1 + t_2 + t_3 + 1.5d_h = 81 \text{mm}</math>. →</p>	2M.	
	<p>Longitudinal Pitch <math>P = 100 \text{mm}</math>; <math>P_t = 70 \text{mm}</math>; <math>m = 43 \text{mm}</math>. →</p>	2M.	
	<p>Efficiency <math>\eta = \frac{\text{least resistance to failure}}{\text{strength of the plate}} = 71.25\% \rightarrow</math></p>		
(2a)	<p><u>Callking:</u>  * used to get least proof joint * used point edge tool at 70-75°</p>	2.5M	05M.
	<p><u>Following:</u>  * used tool that is equal to the thickness of the plate</p>	2.5M	
(2b)	<p>Thickness <math>h = \frac{D_1 P_s}{4 \sigma_s} = 6 \text{mm}</math>; sketch →</p>	3M.	10M.
	<p>Dia = <math>d = 6\sqrt{h} = 16 \text{mm}</math> &amp; <math>d_h = 17 \text{mm}</math>. →</p>	02M.	
	<p>Length = <math>37.5 \text{mm}</math>. →</p>	02M	
	<p>Pitch = <math>61 \text{mm}</math>; <math>P_t = 42.5 \text{mm}</math>; <math>m = 25.5 \text{mm}</math>. →</p>	03M.	
	<p>Efficiency <math>\eta = \frac{\text{least resistance to failure}}{\text{strength of solid plate.}} \Rightarrow</math></p> <p><math>\eta = 73.77\%</math>.</p>		

Question No:	Points to be Covered	Marks Split	Total Marks
(2a)	<p>Self locking <math>\Rightarrow \phi &gt; \alpha</math>  overhauling <math>\Rightarrow \phi &lt; \alpha</math></p>  <p>Horizontal forces:  <math>F = \mu R_n \cos \alpha + R_n \sin \alpha</math>  Vertical Component:  <math>W = R_n \cos \alpha - \mu R_n \sin \alpha</math></p> <p><math>\frac{F}{W} = \left\{ \frac{\mu + \tan \alpha}{1 - \mu \tan \alpha} \right\} \Rightarrow \mu \tan \alpha = F \times \frac{d}{2}</math>  <math>\mu \tan \alpha = W \frac{d}{2} \tan(\phi - \alpha)</math></p>	<p>01M  03M  02M</p>	07M
(3b)	<p>Torque! - <math>\mu \tan \alpha = W \frac{d}{2} \tan(\phi + \alpha) = 330 \times 10^4 \text{ N-mm}</math>  Torque to lower load! - <math>\mu \tan \alpha = W \frac{d}{2} \tan(\phi - \alpha) = 95748 \times 10^3 \text{ N-mm}</math>  Efficiency! - <math>\eta = \frac{d \tan \alpha}{(\mu + \tan \alpha) d} = 34.7\%</math>  Condition for self locking <math>\tan \alpha &gt; \mu</math></p>	<p>02M  02M  02M  02M</p>	08M
(4)	<p>Design of screw: <math>A_c = 707 \text{ mm}^2</math>; <math>d = 36 \text{ mm}</math>; <math>d_1 = 30 \text{ mm}</math>  <math>d_2 = 33 \text{ mm}</math>; <math>d_{nut} = 36.5 \text{ mm}</math>  Stress in screw! - <math>\sigma_{max} = 47.05 \text{ N/mm}^2</math>  Screw neck! - <math>H_1 = 54 \text{ mm}</math>; <math>d_{c1} = 72 \text{ mm}</math>; <math>d_{c2} = 51 \text{ mm}</math>; <math>\mu = 0.147</math>  Nut! - <math>L_n = 72 \text{ mm}</math>; <math>D_1 = 55 \text{ mm}</math>; <math>D_2 = 65 \text{ mm}</math>; <math>H = 15 \text{ mm}</math>  Buckling! - <math>F_{cs} = 157048.4552 \text{ N}</math>  Handle! - <math>L_n = 1765 \text{ mm}</math>; <math>d_n = 33 \text{ mm}</math>  Cup! - <math>D_3 = 72 \text{ mm}</math>; <math>D_4 = 144 \text{ mm}</math>; <math>H_2 = 60 \text{ mm}</math>; <math>t = 10 \text{ mm}</math>  Efficiency! - <math>\eta = 13.55\%</math>  overhauling! - self locking of screw.  Body! - <math>H = 450 \text{ mm}</math>, <math>D_5 = 100 \text{ mm}</math>; <math>D_6 = 150 \text{ mm}</math>  <math>D_7 = 225 \text{ mm}</math>; <math>t_1 = 30 \text{ mm}</math>; <math>t_2 = 10 \text{ mm}</math></p>	<p>03M  03M  02M  02M  03M  02M</p>	15M

*[Signature]*  
31/01/2023  
Signature of Staff

*[Signature]*  
Signature of HOD



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**I SESSIONAL TEST QUESTION PAPER 2022 - 23 ODD SEMESTER**

Set A

USN									
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Degree : B.E Semester: VII  
 Branch : Mechanical Engineering CourseCode: 18ME72  
 Course Title :Computer Aided Design & Manufacturing Date: 27/10/2022  
 Duration :90Minutes MaxMarks: 30

Note: Answer ONE full question from each part.

K1 - Remembering K2- Understanding K3-Applying K4-Analysing K5-Evaluating K6-Creating

Q No.	Question	Marks	CO mapping	K-Level																					
<b>PART-A</b>																									
1(a)	Explain the elements of Computer Integrated Manufacturing systems with the help of a block diagram	6M	CO1	-K2																					
(b)	Explain manufacturing lead time, Production rate, Availability	6M	CO1	-K2																					
(c)	A certain part is routed through six machines. The setup and operation times for each machine is given in the table. The batch size is 100 and average non operation time for each machine is 12 hours. Calculate a) manufacturing lead time, and production rate for operation 3.	6M	CO1	-K3																					
	<table border="1"> <thead> <tr> <th>Machine</th> <th>Setup time (hrs)</th> <th>Cycle time (min)</th> </tr> </thead> <tbody> <tr><td>1</td><td>4</td><td>5</td></tr> <tr><td>2</td><td>2</td><td>3.5</td></tr> <tr><td>3</td><td>8</td><td>10</td></tr> <tr><td>4</td><td>3</td><td>1.9</td></tr> <tr><td>5</td><td>3</td><td>4.1</td></tr> <tr><td>6</td><td>4</td><td>2.5</td></tr> </tbody> </table>				Machine	Setup time (hrs)	Cycle time (min)	1	4	5	2	2	3.5	3	8	10	4	3	1.9	5	3	4.1	6	4	2.5
	Machine				Setup time (hrs)	Cycle time (min)																			
	1				4	5																			
	2				2	3.5																			
	3				8	10																			
	4				3	1.9																			
5	3	4.1																							
6	4	2.5																							
<b>OR</b>																									
2(a)	Define the objectives of automated flow lines	6M	CO1	K1																					
(b)	Explain Upper bound and Lower bound approach with respect to automated flow lines	6M	CO1	K2																					
(c)	Explain with the sketches automated assembly systems.	6M	CO1	-K2																					
<b>PART-B</b>																									
3(a)	Explain computer Aided process planning and with a block explain computer aided retrieval type CAPP System	6M	CO2	K2																					
(b)	Explain MRP with the block diagram	6M	CO2	K2																					
<b>OR</b>																									
4(a)	Explain Shop floor control with relevant production terminology.	6M	CO2	-K2																					
(b)	Classify computer aided quality control and explain reasons for its implementation.	6M	CO2	K2																					

*T. N. Nalke*  
Staff Incharge

*G. V. V.*  
Module Coordinator

*J. Hanay*  
HOD

*S. Kumar*  
Principal



**KSIT**

Set A

**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**

**I SESSIONAL TEST 2022 - 23 ODD SEMESTER**

**Scheme & Solution**

**Degree : B.E**  
**Branch : Mechanical Engineering**  
**Course Title : Computer Aided Design & Manufacturing**

**Semester : VII**  
**Course Code : 18ME72**  
**Max Marks : 30**

Q.NO.1	POINTS	MARKS
1 (a)	6 Elements and sketches	6M
1 (b)	Each definition 2 marks	6M
1(c)	Production time calculation : 3marks Production rate calculation : 3 marks	6M
2(a)	6 objectives	6M
(b)	Explanation of upper bound : 3marks Lower Bound : 3marks	6M
(c)	4 types of automated systems with sketches: 1.5X4=6	6M
3(a)	6 flow chart representation : 6 marks	6M
3(b)	6 elements of MRP : 6 marks	6M
4(a)	Classification of shop floor control(3 types ) 3X2 6marks:	6M
4(b)	Quality control types : 2 Marks 4 reasons : 4 marks	6M

  
Signature of Incharge

  
Module Coordinator

  
HOD



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**I SESSIONAL TEST QUESTION PAPER 2022 - 23 ODD SEMESTER**

USN

Degree : B.E Semester -VII  
Branch : Mechanical Engineering CourseCode: 18ME72  
Course Title :Computer Aided Design & Manufacturing Date: 27/10/2022  
Duration :90Minutes MaxMarks: 30

Note: Answer ONE full question from each part.

K1 - Remembering K2- Understanding K3-Applying K4-Analysing K5-Evaluating K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	Define Automation. Explain different types of automation in brief with some simple examples	6M	CO1	K2
(b)	Explain work in process , Capacity and utilization in the production process	6M	CO1	K2
(c)	A machine part in the company has to pass through 8 machines. 15 new batches are launched every week. Operating time is 8min. Average set up time 8 hours/batch. Number of machines available in the company are 20 . The plant operates on an average of 80 production hrs/week. Calculate i)Manufacturing lead time. ii) Production rate iii)Plant utilization iv) Work in process	6M	CO1	K3
<b>OR</b>				
2(a)	Classify and explain automated flow lines	6M	CO1	K2
(b)	Explain Upper bound and Lower bound approach with respect to automated flow lines	6M	CO1	K2
(c)	What is buffer storage and Explain the reasons for usage of buffer storage	6M	CO1	K2
<b>PART-B</b>				
3(a)	Explain computer Aided process planning and with a block explain computer aided generative type CAPP System	6M	CO2	K2
(b)	Explain MRP with the block diagram of inputs	6M	CO2	K2
<b>OR</b>				
4(a)	What is capacity planning and explain how to meet short term and long term market demands	6M	CO2	K2
(b)	Classify computer aided quality control and explain reasons for its implementation.	6M	CO2	K2

*H. N. Reddy*  
Staff Incharge

*G. V. S.*  
Module Coordinator

*J. Hanumanth*  
HOD

*S. Kumar*  
Principal

*Selected*



K.S.I.T.

Set A

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

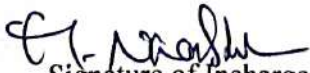
I SESSIONAL TEST 2022 - 23 ODD SEMESTER

**Scheme & Solution**

Degree : B.E  
Branch : Mechanical Engineering  
Course Title : Computer Aided Design & Manufacturing

Semester : VII  
Course Code : 18ME72  
Max Marks : 30

Q.NO.1	POINTS	MARKS
1 (a)	6 Elements and sketches	6M
1 (b)	Each definition 2 marks	6M
1(c)	Production time calculation : 3marks Production rate calculation : 3 marks	6M
2(a)	6 objectives	6M
(b)	Explanation of upper bound : 3marks Lower Bound : 3marks	6M
(c)	4 types of automated systems with sketches: 1.5X4=6	6M
3(a)	6 flow chart representation : 6 marks	6M
3(b)	6 elements of MRP : 6 marks	6M
4(a)	Classification of shop floor control(3 types ) 3X2 6marks:	6M
4(b)	Quality control types : 2 Marks 4 reasons : 4 marks	6M

  
Signature of Incharge

  
Module Coordinator

  
HOD





**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 ODDSEMESTER**

**SET: A**

USN											
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Degree : B.E.  
 Branch : Mechanical Engineering  
 Course Title : CAD&M  
 Duration : 90 Minutes

Semester : VII  
 Course Code : 18ME72  
 Date : 28/11/2022  
 Max Marks : 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating


Q No.	Questions	Marks	CO	K-Level																																	
<b>PART-A</b>																																					
1(a)	Explain 1) minimum rational work element 2) total work content time 3) cycle time 4) precedence constraints	6	CO3	K2																																	
(b)	Explain the benefits of FMS and its components	6	CO3	K2																																	
(c)	Apply LCR rule, balance the following system. Construct precedence diagram, if ideal cycle time is 5 min find the number of work stations required. Also find balance delay and balance efficiency.	6	CO3	K3																																	
	<table border="1"> <tr> <td>Element no</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td>Te</td> <td>4</td> <td>1</td> <td>1</td> <td>0.5</td> <td>3</td> <td>0.5</td> <td>4</td> <td>2</td> <td>2</td> <td>4</td> </tr> <tr> <td>Precedence</td> <td>-</td> <td>-</td> <td>1</td> <td>1,2</td> <td>2</td> <td>3</td> <td>3</td> <td>3,4</td> <td>6,7,8</td> <td>5,8</td> </tr> </table>				Element no	1	2	3	4	5	6	7	8	9	10	Te	4	1	1	0.5	3	0.5	4	2	2	4	Precedence	-	-	1	1,2	2	3	3	3,4	6,7,8	5,8
	Element no				1	2	3	4	5	6	7	8	9	10																							
	Te				4	1	1	0.5	3	0.5	4	2	2	4																							
Precedence	-	-	1	1,2	2	3	3	3,4	6,7,8	5,8																											
OR																																					
2(a)	Explain AS/RS and automated parts identification and data capture	6	CO3	K2																																	
(b)	Apply K&W method, balance the following system. Construct precedence diagram, if ideal cycle time is 5 min find the number of work stations required. Also find balance delay and smoothness index.	6	CO3	K3																																	
	<table border="1"> <tr> <td>Element no</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td>Te</td> <td>4</td> <td>1</td> <td>2</td> <td>0.5</td> <td>3</td> <td>0.5</td> <td>4</td> <td>2</td> <td>2</td> <td>5</td> </tr> <tr> <td>Precedence</td> <td>-</td> <td>-</td> <td>1</td> <td>1,2</td> <td>2</td> <td>3</td> <td>3</td> <td>3,4</td> <td>6,7,8</td> <td>5,8</td> </tr> </table>				Element no	1	2	3	4	5	6	7	8	9	10	Te	4	1	2	0.5	3	0.5	4	2	2	5	Precedence	-	-	1	1,2	2	3	3	3,4	6,7,8	5,8
	Element no				1	2	3	4	5	6	7	8	9	10																							
	Te				4	1	2	0.5	3	0.5	4	2	2	5																							
Precedence	-	-	1	1,2	2	3	3	3,4	6,7,8	5,8																											
OR																																					
(c)	Explain various methods of line balancing in automated assembly systems.	6	CO3	K2																																	
<b>PART-B</b>																																					

3(a)	Explain scaling, transformation and rotation in cad modeling	6	CO2	K2
(b)	Explain basic components of NC system	6	CO4	K2
<b>OR</b>				
4(a)	A line is defined by coordinates as follows. Calculate new position for angular rotation of 30 with reference to origin. $\begin{bmatrix} 0 & 6 \\ 5 & 8 \end{bmatrix}$	6	CO2	K2
(b)	Write different M-codes and G-codes in NC part programming(minimum 6)	6	CO4	K2

H. Naveen 23/11/20  
 (H. Naveen)

Name & Signature of  
 Course In charge

  
 Name & Signature of  
 Module Coordinator

  
 HOD ME  
 Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

  
 Principal  




K.S.I.T

Set A

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

II SESSIONAL TEST 2022 - 23 ODD SEMESTER


**Scheme & Solution**

Degree : B.E  
Branch : Mechanical Engineering  
Course Title : Computer Aided Design &  
Manufacturing

Semester : VII  
Course Code : 18ME72  
Max Marks : 30

Q.NO.1	POINTS	MARKS
1 (a)	Each definition 1.5 marks 4 definitions : $4 \times 1.5 = 6$	6M
1 (b)	3 FMS benefits : 3 marks 3 components of FMS = 3marks	6M
1(c)	Precedence diagram : 3 marks Solution : 3 marks	6M
2(a)	Explanation of AS system : 3 Marks Explanation of RS system : 3 Marks	6M
(b)	Precedence diagram : 3 marks Solution : 3 marks	6M
(c)	4 line balancing methods: $4 \times 1.5 : 6$ Marks	6M
3(a)	Explanation of each definition : 2marks 3 definitions (scaling, transformation and rotation) = $3 \times 2 : 6$ Marks	6M
3(b)	6 elements of CNC : $6 \times 1 = 6$	6M
4(a)	Rotation matrix : 3 marks Solution : 3marks	6M
4(b)	3 M codes : 3 marks 3 G-codes : 3marks	6M

  
Signature of In charge

  
HOD  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 ODDSEMESTER**

**KSIT**

**SET: B**

USN											
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Degree : B.E.  
 Branch : Mechanical Engineering  
 Course Title : CAD&M  
 Duration : 90 Minutes

Semester : VII  
 Course Code : 18ME72  
 Date : 28/11/2022  
 Max Marks : 30

Note: Answer **ONE full** question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level																																	
<b>PART-A</b>																																					
1(a)	Explain AS/RS and automated parts identification and data capture	6	CO3	K2																																	
(b)	Explain a)smoothness index b) Balance delay c) Line efficiency	6	CO3	K2																																	
(c)	Apply K&W rule, balance the following /system. Construct precedence diagram, if ideal cycle time is 10 min find the number of work stations required. Also find balance delay ,smoothness index, and line efficiency..	6	CO3	K3																																	
	<table border="1"> <tr> <td>Element no</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td>Te</td> <td>5</td> <td>3</td> <td>8</td> <td>2</td> <td>1</td> <td>6</td> <td>4</td> <td>5</td> <td>3</td> <td>6</td> </tr> <tr> <td>Precedence</td> <td>-</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> <td>3</td> <td>4,5</td> <td>3,5</td> <td>7,8</td> <td>6,9</td> </tr> </table>				Element no	1	2	3	4	5	6	7	8	9	10	Te	5	3	8	2	1	6	4	5	3	6	Precedence	-	1	1	2	2	3	4,5	3,5	7,8	6,9
	Element no				1	2	3	4	5	6	7	8	9	10																							
	Te				5	3	8	2	1	6	4	5	3	6																							
Precedence	-	1	1	2	2	3	4,5	3,5	7,8	6,9																											
<b>OR</b>																																					
2(a)	Sketch and explain Flexible manufacturing cell	6	CO3	K2																																	
(b)	Apply LCR rule, balance the following system. Construct precedence diagram, if ideal cycle time is 10 min find the number of work stations required. Also find balance delay ,smoothness index, and line efficiency.	6	CO3	K3																																	
	<table border="1"> <tr> <td>Element no</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td>Te</td> <td>4</td> <td>3</td> <td>8</td> <td>2</td> <td>2</td> <td>6</td> <td>4</td> <td>5</td> <td>3</td> <td>6</td> </tr> <tr> <td>Precedence</td> <td>-</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> <td>3</td> <td>4,5</td> <td>3,5</td> <td>7,8</td> <td>6,9</td> </tr> </table>				Element no	1	2	3	4	5	6	7	8	9	10	Te	4	3	8	2	2	6	4	5	3	6	Precedence	-	1	1	2	2	3	4,5	3,5	7,8	6,9
	Element no				1	2	3	4	5	6	7	8	9	10																							
	Te				4	3	8	2	2	6	4	5	3	6																							
Precedence	-	1	1	2	2	3	4,5	3,5	7,8	6,9																											
(c)	Explain various methods of line balancing in automated assembly systems.	6	CO3	K2																																	
<b>PART -B</b>																																					

3(a)	Explain the need of transformations in cad modeling and represent mathematical procedures for scaling , translations and rotations in 2D modeling.	6	CO2	K2
(b)	Explain the fundamental steps involved in milling and Drilling operations	6	CO4	K2
<b>OR</b>				
4(a)	A line is defined by coordinates as follows. Calculate new position for transformation distance of 2 units in 'X' and 'Y' axis along with scaling factor of 2 in both the axis. $\begin{bmatrix} 0 & 3 \\ 5 & 8 \end{bmatrix}$	6	CO2	K2
(b)	Write different codes used in the NC part programming(minimum 6)	6	CO4	K2

*M. Nagaraj*  
*CMJNATONS (11/12)*  
 Name & Signature of  
 Course In charge

*Guy*  
 Name & Signature of  
 Module Coordinator

*J. Hanumanth*  
**HOD ME**  
 Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

*S. Kumar*  
 Principal

~~*[Signature]*~~  
 Selected



K.S.I.T

Set B

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

II SESSIONAL TEST 2022 - 23 ODD SEMESTER

Scheme & Solution

Degree : B.E  
Branch : Mechanical Engineering  
Course Title : Computer Aided Design &  
Manufacturing

Semester : VII  
Course Code : 18ME72  
Max Marks : 30

Q.NO.I	POINTS	MARKS
1 (a)	Explanation of AS system : 3 Marks Explanation of RS system : 3 Marks	6M
1 (b)	Each definition 2 Marks 3 definitions : $3 \times 2 = 6$	6M
1(c)	Precedence diagram : 3 Marks Solution : 3 marks	6M
2(a)	Sketch of FMS cell : 3 Marks Explanation : 3 marks	6M
(b)	Precedence diagram : 3 Marks Solution : 3 marks	6M
(c)	4 line balancing methods: $4 \times 1.5 = 6$ Marks	6M
3(a)	Explanation of each definition : 2marks 3 definitions (scaling, transformation and rotation) = $3 \times 2 = 6$ Marks	6M
3(b)	3 steps in milling : 3 Marks 3 steps in drilling : 3 Marks	6M
4(a)	Transformation matrix : 3 marks Scaling Matrix : 3marks	6M
4(b)	6 codes (either G or M codes) $6 \times 1 = 6$ Marks	6M

Signature of In charge

HOD  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**3 SESSIONAL TEST QUESTION PAPER 2022 - 23 ODD SEMESTER**

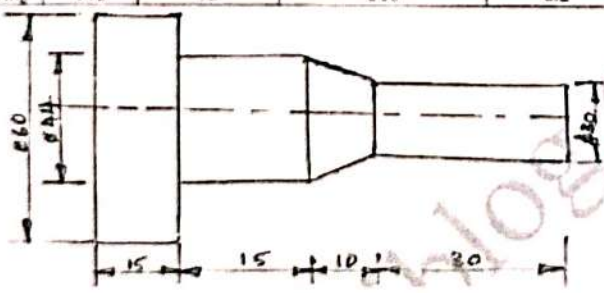
Set A

USN									
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Degree : B.E Semester: 7  
 Branch : Mechanical Engineering  
 Course Title : Computer Aided Design & Manufacturing  
 Duration : 90 Minutes

VII  
 CourseCode: 18ME72  
 Date: 22/12/2022  
 MaxMarks: 30

**Note: Answer ONE full question from each part.**

Q No.	Question	Marks	CO mapping	K-Level															
<b>PART-A</b>																			
1(a)	What are various components of Industry 4.0 and applications of IOT	6M	CO5	Understanding -K2															
(b)	Explain i) Big data ii) cloud computing ii) Supply chain management	6M	CO5	Understanding -K2															
(c)	Explain different steps in Additive manufacturing	6M	CO5	Understanding -K2															
<b>OR</b>																			
2(a)	Explain with a neat sketch i) sheet metal lamination ii)Photo-polymerisation	6M	CO5	Understanding -K2															
(b)	Explain i) Binder Jetting ii) Supply chain management	6M	CO5	Understanding -K2															
(c)	Explain different power bed fusion techniques	6M	CO5	Understanding -K2															
<b>PART-B</b>																			
3(a)	Write a turning centre program for the part shown below. Use one finish cut and rest rough cut to remove the material using following information. <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>Operation</th> <th>Tool No.</th> <th>Onset Register</th> <th>Cutting speed (m/min)</th> <th>Feed (mm/rev)</th> </tr> </thead> <tbody> <tr> <td>Rough cut</td> <td>T01</td> <td>10</td> <td>200</td> <td>0.4</td> </tr> <tr> <td>Finishing</td> <td>T02</td> <td>12</td> <td>300</td> <td>0.2</td> </tr> </tbody> </table> 	Operation	Tool No.	Onset Register	Cutting speed (m/min)	Feed (mm/rev)	Rough cut	T01	10	200	0.4	Finishing	T02	12	300	0.2	6M	CO4	Understanding -K2
Operation	Tool No.	Onset Register	Cutting speed (m/min)	Feed (mm/rev)															
Rough cut	T01	10	200	0.4															
Finishing	T02	12	300	0.2															
(b)	Sketch and explain various robot configurations	6M	CO4	Understanding -K2															
<b>OR</b>																			
4(a)	explain the elements of CNC system and its advantages .	6M	CO4	Understanding -K2															
(b)	Explain end effectors in the robots along with various programming methods in robots.	6M	CO4	Understanding -K2															

*M. N. Srinivas*  
 Name & Signature of  
 Course In charge

*G. V. V.*  
 Name & Signature of  
 Module Coordinator

*J. Hanumanth*  
 HOD ME

*S. Srinivas*  
 Principal  
*S. Srinivas*



K. S. I. T.

Set A

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109


III SESSIONAL TEST 2022 - 23 ODD SEMESTER

**Scheme & Solution**

Degree : B.E  
Branch : Mechanical Engineering  
Course Title : Computer Aided Design & Manufacturing

Semester : VII  
Course Code : 18ME72  
Max Marks : 30

Q.NO.1	POINTS	MARKS
1 (a)	6 Components of Industry 4.0 6X1	6M
1 (b)	Each explanation for subcomponents : 2marks 3X2 =6	6M
1(c)	For each step : 1 marks 6 steps : 6Marks	6M
2(a)	Each explanation for subcomponents : 2marks 3X2 =6	6M
(b)	Each explanation for subcomponents : 3marks 2X3 =6	6M
(c)	Sketch : 2marks Explanation : 4 marks	6M
3(a)	Syntax : 2marks Comments : 1marks Correctness of program : 3marks	6M
3(b)	4 components of robots : 4X1.5=6 Marks	6M
4(a)	4 elements of robots: 4X1.5=6 Marks	6M
4(b)	Each end effector with explanation : 3 marks 2 end effectors : 2X3 =6marks	6M

  
Signature of In charge

  
Module Coordinator

  
HOD





**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**3 SESSIONAL TEST QUESTION PAPER 2022 - 23 ODD SEMESTER**

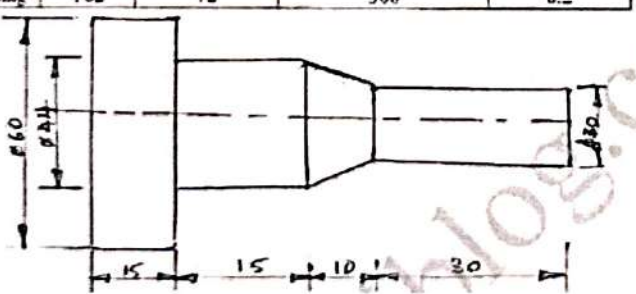
Set B

USN									
-----	--	--	--	--	--	--	--	--	--

Degree : B.E Semester: 7  
 Branch : Mechanical Engineering  
 Course Title : Computer Aided Design & Manufacturing  
 Duration : 90 Minutes

VII  
 CourseCode: 18ME72  
 Date: 22/12/2022  
 MaxMarks: 30

**Note: Answer ONE full question from each part.**

Q No.	Question	Marks	CO mapping	K-Level															
<b>PART-A</b>																			
1(a)	Explain various components of Industry 4.0 and briefly explain.	6M	CO5	Understanding -K2															
(b)	Explain i) Supply Chain and Logistics ii) cloud computing ii) IOT	6M	CO5	Understanding -K2															
(c)	Explain different steps in Additive manufacturing	6M	CO5	Understanding -K2															
<b>OR</b>																			
2(a)	Explain with a neat sketch i) Powder Bed Fusion Sintering Techniques ii) Photo-polymerization	6M	CO5	Understanding -K2															
(b)	Explain i) Material Extrusion techniques ii) Big data Management	6M	CO5	Understanding -K2															
(c)	Explain importance of IOT on Predictive Maintenance	6M	CO5	Understanding -K2															
<b>PART-B</b>																			
3(a)	Write a turning centre program for the part shown below. Use one finish cut and rest rough cut to remove the material using following information. <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>Operation</th> <th>Tool No.</th> <th>Onset Register</th> <th>Cutting speed (m/min)</th> <th>Feed (mm/rev)</th> </tr> </thead> <tbody> <tr> <td>Rough cut</td> <td>T01</td> <td>10</td> <td>200</td> <td>0.4</td> </tr> <tr> <td>Finishing</td> <td>T02</td> <td>12</td> <td>300</td> <td>0.2</td> </tr> </tbody> </table> 	Operation	Tool No.	Onset Register	Cutting speed (m/min)	Feed (mm/rev)	Rough cut	T01	10	200	0.4	Finishing	T02	12	300	0.2	6M	CO4	Understanding -K2
Operation	Tool No.	Onset Register	Cutting speed (m/min)	Feed (mm/rev)															
Rough cut	T01	10	200	0.4															
Finishing	T02	12	300	0.2															
(b)	Explain a) Resolution b) Precision c) Repeatability	6M	CO4	Understanding -K2															
<b>OR</b>																			
4(a)	Explain the classification of End effectors with sketches in Robots .	6M	CO4	Understanding -K2															
(b)	Explain with line sketches different robot configurations.	6M	CO4	Understanding -K2															

*H. Arshad*  
 19/12/22  
 Name & Signature of  
 Course In charge

*Gu*  
 Name & Signature of  
 Module Coordinator

*J. Manj*  
 HOD ME

*Shanmug*  
 Principal



Set B

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

III SESSIONAL TEST 2022 - 23 ODD SEMESTER

Scheme & Solution

Degree : B.E  
Branch : Mechanical Engineering  
Course Title : Computer Aided Design & Manufacturing

Semester : VII  
Course Code : 18ME72  
Max Marks : 30

Q.NO.1	POINTS	MARKS
1 (a)	6 Components of Industry 4.0 = $6 \times 1 = 6$ marks	6M
1 (b)	Each explanation for subcomponents : 2marks $3 \times 2 = 6$	6M
1(c)	For each step : 1 marks 6 steps : 6Marks	6M
2(a)	Each explanation for subcomponents : 3marks $2 \times 3 = 6$	6M
(b)	Each explanation for subcomponents : 3marks $2 \times 3 = 6$	6M
(c)	6 predictive maintenance techniques : $6 \times 1 = 6$ marks	6M
3(a)	Syntax : 2marks Comments : 1marks Correctness of program : 3marks	6M
3(b)	Each definition : 2marks 3 definitions $3 \times 2 = 6$ marks	6M
4(a)	Each end effector with explanation : 3 marks 2 end effectors : $2 \times 3 = 6$ marks	6M
4(b)	4 configurations of the robots : $4 \times 1.5 = 6$ Marks	6M

  
Signature of In charge

  
Module Coordinator

  
HOD



# ವಿಶ್ವೇಶ್ವರಯ್ಯತಾಂತ್ರಿಕವಿಶ್ವವಿದ್ಯಾಲಯ

ವಿಟಿಯುಅಧಿನಿಯಮನಂ ೯೯೪ ರಅಡಿಯಲ್ಲಿಕರ್ನಾಟಕಸರ್ಕಾರದಿಂದಸ್ಥಾಪಿತವಾದರಾಜ್ಯವಿಶ್ವವಿದ್ಯಾಲಯ

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

State University of Government of Karnataka Established as per the VTU Act, 1994 "JnanaSangama" Belagavi-590018, Karnataka, India

Prof. B. E. Rangaswamy, Ph.D  
REGISTRAR

Phone: (0831) 2498100  
Fax: (0831) 2405467

REF: VTU/BGM/GC/2023/ 680

DATE: 8 MAY 2023

### NOTIFICATION

**Subject:** Tentative Academic Calendar of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of University regarding...

**Reference:** Hon'ble Vice-Chancellor's approval dated: 08.05.2023

Tentative Academic Calendar of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

(Tentative) Academic Calendar for semesters of II semester B.E./B.Tech./B.Arch./B.Plan and IV semester B.E./B.Tech., Programs (May 2023)			
	II semester B.E./B.Tech.	II semester B.Arch, B.Plan	IV semester B.E./ B.Tech
Commencement of even semester	17.05.2023	17.05.2023	17.05.2023
Internship	-----	-----	17.05.2023 To 03.06.2023
Commencement of the Classes	17.05.2023	17.05.2023	05.06.2023
Last Working day of the Semester	31.08.2023	31.08.2023	16.09.2023
Practical Examination/Viva Examination	01.09.2023 To 10.09.2023	01.09.2023 To 08.09.2023	19.09.2023 To 30.09.2023
Theory Examinations	11.09.2023 To 07.10.2023	11.09.2023 To 27.09.2023	03.10.2023 To 20.10.2023
Commencement of next Semester	09.10.2023	09.10.2023	25.10.2023

Please Note:

- The academic sessions for EVEN semesters should commence on the **date mentioned** above.

- If necessary, the college may hold extra classes on Saturdays and Sundays to complete academic activities within the specified timeframe.
- The faculty/staff shall be available to undertake any work assigned by the university.
- University Examination Calendars will be published by the Registrar (Evaluation) from time to time.
- The Academic Calendar may be modified as MHRD/UGC/AICTE/state governments issue guidelines/directives in the future.
- Academic calendars are also applicable to autonomous colleges. If any changes are to be made by Autonomous colleges in the academic terms and examination schedule, they could do so with the approval of the university
- If any clarification/correction/suggestions, please email [-sbhalbhavi@vtu.ac.in](mailto:sbhalbhavi@vtu.ac.in)
- \*\* Induction Program shall be conducted for 10 days for 2nd semester students. Activities related to Induction program's shall be conducted on every Saturday (if required on Sunday) totaling to 10 days. Upon completion of the Induction program, colleges must email a brief report to [sbhalbhavi@vtu.ac.in](mailto:sbhalbhavi@vtu.ac.in)

1. The principals of engineering colleges under the ambit of the University, are hereby informed to bring the academic calendar to the notice of all concerned.
2. The Chairpersons of the PG department of the University where UG programs are offered are hereby informed to bring the academic calendar to the notice of the all concerned
3. The Directors of Schools of Architecture and Planning under the ambit of the university are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The principals of all engineering colleges, Directors, Schools of Architecture and Planning, under the ambit of VTU Belagavi. The Chairperson of the PG Department of the university.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. The Director of Central Placement Officer VTU Belagavi for information
7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

*Ras* *BE*

REGISTRAR

*M*



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

**Prof. Dr. B. E. Rangaswamy, Ph.D.**  
REGISTRAR

**Phone : (0831) 2498100**  
**Fax : (0831) 2405467**

REF: VTU/BGM/ACA/2022-23/ 7119

DATE: 2 MAR 2023

### NOTIFICATION

- Subject:** Tentative Academic Calendar of II and IV sem B.Sc (Hon), VI sem B.E./B.Tech., B.Plan, B.Arch programs of University regarding...
- Reference:** Hon'ble Vice-Chancellor's approval dated: 01.03.2023

The tentative academic calendar concerned to II and IV sem B.Sc (Hon), VI sem B.E./B.Tech., B.Plan, B.Arch., programs of University for academic year 2022-23 are hereby notified as mentioned in Annexure-I;

The Principals/ Directors of all Engineering Colleges/Schools of Architecture, under the ambit of University are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-  
REGISTRAR

To,

1. The Principals all Engineering Colleges under the ambit of University
2. The Director of all school of Architecture under the ambit of University
3. The chairperson/Program coordinator of MBA(IEV) program VTU Belagavi

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The special Officer QPDS section VTU Belagavi
4. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
5. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
6. The Director of Physical Education, VTU Belagavi for information
7. The Director, Central Placement Cell, VTU Belagavi
8. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

Rav BE

REGISTRAR

✍

**Annexure-I**  
**Tentative Academic Calendar for academic year 2022-23**

	II sem B.Sc.(Hon)	IV sem B.Sc (Hon)	VI sem B.E./B.Tech	VI sem B.Plan	#VI sem B.Arch.
Commencement of semester Classes	06.03.2023 ✓	20.03.2023 ✓	20.03.2023 ✓	20.03.2023 ✓	20.03.2023 ✓
Last Working day of the Semester	30.06.2023 ✓	10.07.2023 ✓	10.07.2023 ✓	10.07.2023 ✓	10.07.2023 ✓
Practical Examination/Viva Examination	03.07.2023 To 07.07.2023 ✓	11.07.2023 To 15.07.2023 ✓	11.07.2023 To 21.07.2023 ✓	11.07.2023 To 21.07.2023 ✓	11.07.2023 To 21.07.2023 ✓
Theory Examinations	10.07.2023 To 25.07.2023 ✓	17.07.2023 To 31.07.2023 ✓	24.07.2023 To 12.08.2023 ✓	24.07.2023 To 12.08.2023 ✓	24.07.2023 To 12.08.2023 ✓
Internship	-----	-----	04 weeks 09.09.2023 ✓	06 weeks 16.09.2023 ✓	-----
Commencement of next Semester	01.08.2023 ✓	01.08.2023 ✓	11.09.2023 ✓	19.09.2023 ✓	16.08.2023 ✓

# Academic calendar already notified vide VTU/BGM/ACA/2022-23/6889, dated 15.02.2023

**Please Note:**

- The academic sessions should commence on the **date mentioned** above.
- If required, the college can also plan to have extra classes on Saturday(1<sup>st</sup> and 3<sup>rd</sup>) and Sundays full day to complete academic activities within the duration mentioned.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- If any clarification/correction, please email to – [sbhalbhavi@vtu.ac.in](mailto:sbhalbhavi@vtu.ac.in)

**REGISTRAR**





# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D.  
REGISTRAR

Phone: (0831) 2498100  
Fax : (0831) 2405467

REF: VTU/BGM/ACA/2022-23/ 6566

DATE: 3 FEB 2023

### NOTIFICATION

**Subject:** Tentative Academic Calendar of VIII semesters of B.E./ B.Tech.,  
B.Arch., B. Plan programs of University regarding...

**Reference:** Hon'ble Vice-Chancellor's approval dated: 03.02.2023

The tentative academic calendar concerned to VIII semesters of B.E./B.Tech.,  
B. Arch., and B. Plan programs of University for academic year 2022-23 are hereby  
notified as mentioned below;

(Tentative) Academic Calendar for semesters of all VIII Semester UG Programs (Feb 2023)			
	B.E./B.Tech.	B.Arch	B.Plan
Commencement of 8 <sup>th</sup> semester Classes	13.02.2023	13.02.2023	13.02.2023
Last Working day of 8 <sup>th</sup> Semester	13.05.2023	13.05.2023	13.05.2023
Practical Examination/Viva Examination	05.06.2023 To 13.06.2023	16.05.2023 To 26.05.2023	----
Theory Examinations	16.05.2023 To 01.06.2023	29.05.2023 To 10.06.2023	16.05.2023 To 01.06.2023
Commencement of next Semester	---	-----	-----

#### Please Note:

- The academic sessions for VIII semester should commence on the **date mentioned** above.
- The Institute needs to function for **six days** a week with Saturday being half working day. #if required, the college can also plan to have extra classes on Saturday afternoons and Sundays full day to complete academic activities within the duration mentioned. This will facilitate the final year students for appearing competitive examination for their career and also helps in seeking admission abroad.

- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- If any clarification/correction, please email to - **sbhvtuso@yahoo.com**

The Principals/ Directors of Schools of Architecture, under the ambit of University are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The Principals / Directors, Schools of Architecture under the ambit of VTU Belagavi.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. **The Director of Physical Education, VTU Belagavi for information**
6. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

  
REGISTRAR 3.2.23  






# ವಿಶ್ವೇಶ್ವರಯ್ಯತಾಂತ್ರಿಕವಿಶ್ವವಿದ್ಯಾಲಯ

ವಿಜಯನಗರನಿರ್ಮಿತ ೧೯೯೪ ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

State University of Government of Karnataka Established as per the VTU Act, 1994 "JnanaSangama" Belagavi-590018, Karnataka, India

Prof. B. E. Rangaswamy, Ph.D  
REGISTRAR

Phone: (0831) 2498100  
Fax: (0831) 2405467

REF: VTU/BGM/GC/2023/ 680

DATE: 8 MAY 2023

### NOTIFICATION

**Subject:** Tentative Academic Calendar of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of University regarding...

**Reference:** Hon'ble Vice-Chancellor's approval dated: 08.05.2023

Tentative Academic Calendar of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

(Tentative) Academic Calendar for semesters of II semester B.E./B.Tech./B.Arch./B.Plan and IV semester B.E./B.Tech., Programs (May 2023)			
	II semester B.E./B.Tech.	II semester B.Arch, B.Plan	IV semester B.E./ B.Tech
Commencement of even semester	17.05.2023	17.05.2023	17.05.2023
Internship	-----	-----	17.05.2023 To 03.06.2023
Commencement of the Classes	17.05.2023	17.05.2023	05.06.2023
Last Working day of the Semester	31.08.2023	31.08.2023	16.09.2023
Practical Examination/Viva Examination	01.09.2023 To 10.09.2023	01.09.2023 To 08.09.2023	19.09.2023 To 30.09.2023
Theory Examinations	11.09.2023 To 07.10.2023	11.09.2023 To 27.09.2023	03.10.2023 To 20.10.2023
Commencement of next Semester	09.10.2023	09.10.2023	25.10.2023

Please Note:

- The academic sessions for EVEN semesters should commence on the **date mentioned** above.

- If necessary, the college may hold extra classes on Saturdays and Sundays to complete academic activities within the specified timeframe.
- The faculty/staff shall be available to undertake any work assigned by the university.
- University Examination Calendars will be published by the Registrar (Evaluation) from time to time.
- The Academic Calendar may be modified as MHRD/UGC/AICTE/state governments issue guidelines/directives in the future.
- Academic calendars are also applicable to autonomous colleges. If any changes are to be made by Autonomous colleges in the academic terms and examination schedule, they could do so with the approval of the university
- If any clarification/correction/suggestions, please email [-sbhalbhavi@vtu.ac.in](mailto:sbhalbhavi@vtu.ac.in)
- \*\* Induction Program shall be conducted for 10 days for 2nd semester students. Activities related to Induction program's shall be conducted on every Saturday (if required on Sunday) totaling to 10 days. Upon completion of the Induction program, colleges must email a brief report to [sbhalbhavi@vtu.ac.in](mailto:sbhalbhavi@vtu.ac.in)

1. The principals of engineering colleges under the ambit of the University, are hereby informed to bring the academic calendar to the notice of all concerned.
2. The Chairpersons of the PG department of the University where UG programs are offered are hereby informed to bring the academic calendar to the notice of the all concerned
3. The Directors of Schools of Architecture and Planning under the ambit of the university are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The principals of all engineering colleges, Directors, Schools of Architecture and Planning, under the ambit of VTU Belagavi. The Chairperson of the PG Department of the university.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. The Director of Central Placement Officer VTU Belagavi for information
7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

*Ras* *BE*

REGISTRAR

*M*



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D.  
REGISTRAR

Phone : (0831) 2498100  
Fax : (0831) 2405467

REF: VTU/BGM/ACA/2022-23/ 7119

DATE: 2 MAR 2023

### NOTIFICATION

- Subject:** Tentative Academic Calendar of II and IV sem B.Sc (Hon), VI sem B.E./B.Tech., B.Plan, B.Arch programs of University regarding...
- Reference:** Hon'ble Vice-Chancellor's approval dated: 01.03.2023

The tentative academic calendar concerned to II and IV sem B.Sc (Hon), VI sem B.E./B.Tech., B.Plan, B.Arch., programs of University for academic year 2022-23 are hereby notified as mentioned in Annexure-I;

The Principals/ Directors of all Engineering Colleges/Schools of Architecture, under the ambit of University are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-  
REGISTRAR

To,

1. The Principals all Engineering Colleges under the ambit of University
2. The Director of all school of Architecture under the ambit of University
3. The chairperson/Program coordinator of MBA(IEV) program VTU Belagavi

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The special Officer QPDS section VTU Belagavi
4. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
5. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
6. The Director of Physical Education, VTU Belagavi for information
7. The Director, Central Placement Cell, VTU Belagavi
8. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

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REGISTRAR

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**Annexure-I**  
**Tentative Academic Calendar for academic year 2022-23**

	II sem B.Sc.(Hon)	IV sem B.Sc (Hon)	VI sem B.E./B.Tech	VI sem B.Plan	#VI sem B.Arch.
Commencement of semester Classes	06.03.2023 ✓	20.03.2023 ✓	20.03.2023 ✓	20.03.2023 ✓	20.03.2023 ✓
Last Working day of the Semester	30.06.2023 ✓	10.07.2023 ✓	10.07.2023 ✓	10.07.2023 ✓	10.07.2023 ✓
Practical Examination/Viva Examination	03.07.2023 To 07.07.2023 ✓	11.07.2023 To 15.07.2023 ✓	11.07.2023 To 21.07.2023 ✓	11.07.2023 To 21.07.2023 ✓	11.07.2023 To 21.07.2023 ✓
Theory Examinations	10.07.2023 To 25.07.2023 ✓	17.07.2023 To 31.07.2023 ✓	24.07.2023 To 12.08.2023 ✓	24.07.2023 To 12.08.2023 ✓	24.07.2023 To 12.08.2023 ✓
Internship	-----	-----	04 weeks 09.09.2023 ✓	06 weeks 16.09.2023 ✓	-----
Commencement of next Semester	01.08.2023 ✓	01.08.2023 ✓	11.09.2023 ✓	19.09.2023 ✓	16.08.2023 ✓

# Academic calendar already notified vide VTU/BGM/ACA/2022-23/6889, dated 15.02.2023

**Please Note:**

- The academic sessions should commence on the **date mentioned** above.
- If required, the college can also plan to have extra classes on Saturday(1<sup>st</sup> and 3<sup>rd</sup>) and Sundays full day to complete academic activities within the duration mentioned.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- If any clarification/correction, please email to – [sbhalbhavi@vtu.ac.in](mailto:sbhalbhavi@vtu.ac.in)

**REGISTRAR**





# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

"JnanaSangama" Belagavi-590018, Karnataka, India

Prof. Dr. B. E. Rangaswamy, Ph.D.  
REGISTRAR

Phone: (0831) 2498100  
Fax : (0831) 2405467

REF: VTU/BGM/ACA/2022-23/ 6566

DATE: 3 FEB 2023

### NOTIFICATION

**Subject:** Tentative Academic Calendar of VIII semesters of B.E./ B.Tech.,  
B.Arch., B. Plan programs of University regarding...

**Reference:** Hon'ble Vice-Chancellor's approval dated: 03.02.2023

The tentative academic calendar concerned to VIII semesters of B.E./B.Tech.,  
B. Arch., and B. Plan programs of University for academic year 2022-23 are hereby  
notified as mentioned below;

(Tentative) Academic Calendar for semesters of all VIII Semester UG Programs (Feb 2023)			
	B.E./B.Tech.	B.Arch	B.Plan
Commencement of 8 <sup>th</sup> semester Classes	13.02.2023	13.02.2023	13.02.2023
Last Working day of 8 <sup>th</sup> Semester	13.05.2023	13.05.2023	13.05.2023
Practical Examination/Viva Examination	05.06.2023 To 13.06.2023	16.05.2023 To 26.05.2023	----
Theory Examinations	16.05.2023 To 01.06.2023	29.05.2023 To 10.06.2023	16.05.2023 To 01.06.2023
Commencement of next Semester	---	-----	-----

#### Please Note:

- The academic sessions for VIII semester should commence on the **date mentioned** above.
- The Institute needs to function for **six days** a week with Saturday being half working day. #if required, the college can also plan to have extra classes on Saturday afternoons and Sundays full day to complete academic activities within the duration mentioned. This will facilitate the final year students for appearing competitive examination for their career and also helps in seeking admission abroad.

- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. If any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- If any clarification/correction, please email to - **sbhvtuso@yahoo.com**

The Principals/ Directors of Schools of Architecture, under the ambit of University are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The Principals / Directors, Schools of Architecture under the ambit of VTU Belagavi.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. **The Director of Physical Education, VTU Belagavi for information**
6. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

  
REGISTRAR 3.2.23  




# K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

*TENTATIVE CALENDAR OF EVENTS: VIII EVEN SEMESTER (2022-2023)*

**SESSION: FEB 2023 – MAY 2023**

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	FEB	13	14	15	16	17	18 DH	5	18- Maha Shivaratri
2	FEB	20	21	22	23	24	25	6	25- Wednesday Time Table
3	FEB/MAR	27	28	1	2 BV	3 ASD	4 DH	5	
4	MAR	6	7	8	9	10	11TA	6	11 - Tuesday Time Table
5	MAR	13T1	14T1	15	16	17	18 DH	5	
6	MAR	20BV	21* FFB1	22 H	23ASD	24	25	5	21* - First Faculty Feed Back 22- Ugadi 25-Monday Time Table
7	MAR/APR	27	28	29	30	31	1	6	1-Monday Time Table
8	APR	3H	4	5	6	7H	8DH	3	3-Mahaveera Jayanthi 7-Good Friday 8-Friday Time Table
9	APR	10	11	12	13TA	14H	15	5	14-Dr. B R Ambedkar Jayanthi 15-Monday Time Table
10	APR	17T2	18T2	19	20	21	22DH	5	
11	APR	24BV	25* FFB2	26ASD	27	28	29	6	25* - Second Faculty Feed Back 29-Friday Time Table
12	MAY	1H	2	3	4	5	6DH	4	1-May Day
13	MAY	8	9	10	11T3	12T3	13*	6	13-Friday Time Table 13* - Last Working day

**Total No of Working Days : 67**

Total Number of working days ( Excluding holidays and Tests)=61

<b>H</b>	Holiday
<b>BV</b>	Blue Book
<b>T1,T2,T3</b>	Tests 1,2,3
<b>ASD</b>	Attendance & Sessional Display
<b>DH</b>	Declared Holiday
<b>LT1</b>	Lab Test 1
<b>TA</b>	Test attendance

Monday	12
Tuesday	12
Wednesday	13
Thursday	12
Friday	12
<b>Total</b>	<b>61</b>

PRINCIPAL  
**K.S. INSTITUTE OF TECHNOLOGY**  
 BENGALURU - 560 109.



# K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

**TENTATIVE CALENDAR OF EVENTS: VI EVEN SEMESTER (2022-2023)**

**SESSION: MARCH TO JULY 2023**

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	MAR	20*	21	22 H	23	24	25	5	20* - Commencement of VI Sem 22- Ugadi 25-Monday Time Table
2	MAR/APR	27	28	29	30	31	1	6	1-Monday Time Table
3	APR	3H	4	5	6	7H	8DH	3	3-Mahaveera Jayanthi 7-Good Friday
4	APR	10	11	12	13	14H	15 TA	5	14-Dr. B R Ambedkar Jayanthi 15-Monday Time Table
5	APR	17T1	18T1	19T1	20	21	22DH	5	
6	APR	24BV	25* FFB1	26 ASD	27	28	29	6	25* - First Faculty Feed Back 29-Friday Time Table
7	MAY	1H	2	3	4	5	6DH	4	1-May Day
8	MAY	8	9	10	11	12	13	6	13-Friday Time Table
9	MAY	15	16	17	18	19	20DH	5	
10	MAY	22 LT1	23 LT1	24 LT1	25	26 TA	27	6	27-Tuesday Time Table
11	MAY/JUN	29T2	30 T2	31 T2	1	2	3DH	4	
12	JUN	5 BV	6* FFB2	7 ASD	8	9	10	6	6 - Second Faculty Feed Back 10-Wednesday Time Table
13	JUN	12	13	14	15	16	17DH	5	
14	JUN	19	20	21	22	23	24	6	24-Tuesday Time Table
15	JUN/JULY	26 LT2	27 LT2	28 LT2	29H	30	1DH	5	29 - Bakrid
16	JULY	3 T3	4 T3	5 T3	6	7	8	6	8-Wednesday Time Table
17	JULY	10*						1	10* - Last Working day

**Total No of Working Days : 84**

Total Number of working days ( Excluding holidays and Tests)=69

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT1	Lab Test 1
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	12
Thursday	15
Friday	16
<b>Total</b>	<b>69</b>

6/13/23  
 PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.





# K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: IV EVEN SEMESTER (2022-2023)

SESSION: MAY TO SEP 2023

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	MAY			17*	18	19	20DH	3	17* - Commencement of IV Sem
2	MAY	22	23	24	25	26	27	6	27-Tuesday Time Table
3	MAY/JUN	29	30	31	1	2	3DH	5	
4	JUN	5	6	7	8	9	10	6	10-Wednesday Time Table
5	JUN	12	13	14	15	16 TA	17DH	5	
6	JUN	19 T1	20 T1	21 T1	22	23	24	6	24-Tuesday Time Table
7	JUN/JULY	26	27	28 BV	29H	30 * FFB1	1DH	4	29 - Bakrid 30 - First Faculty Feed Back
8	JULY	3 LT1	4 LT1	5 LT1	6 ASD	7	8	6	8-Wednesday Time Table
9	JULY	10	11	12	13	14	15DH	5	
10	JULY	17	18	19	20	21	22	6	22- Tuesday Time Table
11	JULY	24	25	26	27	28 TA	29H	5	29- Moharam
12	JULY/AUG	31 T2	1 T2	2 T2	3	4	5	6	5- Monday Time Table
13	AUG	7	8	9 BV	10	11 ASD	12 DH	5	
14	AUG	14	15.H	16	17 * FFB2	18	19	5	15 - Independence Day 17 - Second Faculty Feed Back 19- Monday Time Table
15	AUG	21	22	23	24	25	26 DH	5	
16	AUG/SEP	28	29	30	31	1	2	6	2- Wednesday
17	SEP	4	5	6 T3	7 T3	8 T3	9 DH	5	
18	SEP	11LT2	12LT2	13LT2	14	15	16*	6	16- Thursday Time Table 16* - Last Working day

**Total No of Working Days : 95**

Total Number of working days ( Excluding holidays and Tests)=80

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT1, 2	Lab Test 1,2
TA	Test attendance

Monday	15
Tuesday	15
Wednesday	16
Thursday	17
Friday	17
<b>Total</b>	<b>80</b>

**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109.**



# K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109

**TENTATIVE CALENDAR OF EVENTS: II EVEN SEMESTER (2022-2023)**

**SESSION: MAY TO SEP 2023**

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	MAY				25*	26	27	3	25* - Commencement of II Sem 27-Tuesday Time Table
2	MAY/JUN	29	30	31	1	2	3DH	5	
3	JUN	5	6	7	8	9	10	6	10-Wednesday Time Table
4	JUN	12	13	14	15	16	17DH	5	
5	JUN	19	20	21	22	23	24 TA	6	24-Tuesday Time Table
6	JUN/JULY	26 T1	27 T1	28 T1	29H	30 * FFB1	1DH	4	29 - Bakrid 30 - First Faculty Feed Back
7	JULY	3 LT1	4 LT1	5 LT1	6 BV	7	8 ASD	6	8-Wednesday Time Table
8	JULY	10	11	12	13	14	15DH	5	
9	JULY	17	18	19	20	21	22	6	22- Tuesday Time Table
10	JULY	24	25	26	27	28 TA	29H	5	29- Moharam
11	JULY/AUG	31 T2	1 T2	2 T2	3	4	5	6	5- Monday Time Table
12	AUG	7	8	9 BV	10	11 ASD	12 DH	5	
13	AUG	14	15 H	16	17 * FFB2	18	19	5	15 - Independence Day 17 - Second Faculty Feed Back 19- Monday Time Table
14	AUG	21	22	23	24	25	26 DH	5	
15	AUG/SEP	28	29	30	31 T3	1 T3	2 T3	6	
16	SEP	4 LT2	5 LT2	6 LT2	7	8	9* DH	5	9* - Last Working day

**Total No of Working Days : 83**

Total Number of working days ( Excluding holidays and Tests)=68

<b>H</b>	Holiday
<b>BV</b>	Blue Book Verification
<b>T1,T2,T3</b>	Tests 1,2,3
<b>ASD</b>	Attendance & Sessional Display
<b>DH</b>	Declared Holiday
<b>LT1, 2</b>	Lab Test 1,2
<b>TA</b>	Test attendance

Monday	13
Tuesday	13
Wednesday	13
Thursday	14
Friday	15
<b>Total</b>	<b>68</b>

**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109.**

**K. S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**EVEN SEMESTER - MAY to SEP 2023**

Class Teacher : Mr. HARISH U  
W.E.F: 15/05/2023

SEM: IV

O B L II - 105

PERIOD	1	2	10:20 - 10:35	3	4	12:25 - 1:15	5	6	7	
TIME/DAY	8:30 - 9:25	9:25 - 10:20		10:35 - 11:30	11:30 - 12:25		1:15 - 2:10	2:10 - 3:05	3:05 - 4:00	
MON	MOM (21ME44)	CAPLP (Maths) (21ME41)	LUNCH TIME	FM (21ME43)	MOM (21ME44)	LUNCH TIME	KANNADA (21KSK/KBK47)	MSAJF (21ME42)		
TUE	MSAJF (21ME42)	FM (21ME43)		CAPLP (Maths) (21ME41)	BFE (21BE45)		UHV (21UH49)	FM LAB (21ME43)		
WED	MOM (21ME44)	MSAJF (21ME42)		FM (21ME43)	CAPLP (Maths) (21ME41)		MM&M LAB (21ME46)			
THU	BFE (21BE45)	CAPLP (Maths) (21ME41)		FM (21ME43)	MOM (21ME44)		MSAJF (21ME42)	INTERNSHIP (21INT49)		
FRI	CAPLP (Maths) (21ME41)	MSAJF (21ME42)		MOM (21ME44)	FM (21ME43)		SSE (21ME481)		MAT DIP (21MATDIP41)	
SAT										

Subject Code	Subject Name	Faculty Name
21ME41	Complex Analysis, Probability and Linear Programming(CAPALP)	Dr. Jalaja P
21ME42	Machining Science and Jigs & Fixtures (MS&JF)	Mr. Harish U
21ME43	Fluid Mechanics (FM)	Dr. Saleem Khan
21ME44	Mechanics of Materials (MOM)	Mr. Tejaswini M L
21ME45	Biology For Engineers (BFE)	
21MEL46	Mechanical Measurements and Metrology lab (MMM)	Dr. Girish T R
21KSK47 21KBK 47	Sanskritika Kannada / Balake Kannada	Mr. Trimurthy R
21ME481	Spread Sheetsfor Engineers (SSE)	Mr. Nagabhushana M
21UH49	Universal Human Values (UHV)	Dr. Nirmala L
21INT49	Internship	Mr. K Prasad

CO- ORDINATOR

*J. Hanu*  
30/5/23  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109

*J. Hanu*  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109

**K. S. INSTITUTE OF TECHNOLOGY, BANGALURU - 560109**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

**EVEN SEMESTER - MAR to JULY 2023**

Class Teacher : Mr. K PRASAD  
W.E.F: 20/03/2023

SECTION: VI (18 SCHEME)

OLD BLOCK LH - 106

PERIOD	1	2	10:20 - 10:35	3	4	12:25 - 1:15	5	6	7
TIME/DAY	8:30 - 9:25	9:25 - 10:20		10:35 - 11:30	11:30 - 12:25		1:15 - 2:10	2:10 - 3:05	3:05 - 4:00
MON	IOS (18CS654)	NTM (18ME64)	TEA BREAK	DME-II (18ME62)	HT (18ME63)	LUNCH TIME	CAMA LAB (18MEL66)		
TUE	DME-II (18ME62)	FEM (18ME61)		HT (18ME63)	IOS (18CS654)		MINI PROJECT (18MEMPP68)		
WED	FEM (18ME61)	DME-II (18ME62)		IOS (18CS654)	NTM (18ME64)		MINI PROJECT (18MEMPP68)		
THU	NTM (18ME64)	HT (18ME63)		DME-II (18ME62)	FEM (18ME61)		HT LAB (18MEL67)		
FRI	HT (18ME63)	DME-II (18ME62)		HT (18ME63)	FEM (18ME61)		NTM (18ME64)	IOS (18CS654)	-
SAT									
Subject Code		Subject Name			Faculty Name				
18ME61		Finite Element Methods			Mr. Nagabhushana M				
18ME62		Design of Machine Elements -II			Mr. Anil Kumar A				
18ME63		Heat Transfer			Dr. Dilip Kumar K / Dr. Nagaprasad K S				
18ME641		Non Traditional Machining			Dr. L Nirmala				
18CS654		Introduction to Operating System			Mr. Prashanath H S				
18MEL66		Computer Aided Modelling and Analysis Lab			Mr. Nagabhushana M				
18MEL67		Heat Transfer Lab			Dr. Nagaprasad K S				
18MEMPP68		Mini - Project			Dr. Saleem Khan				
		Internship			Mr. Harish U				

CO- ORDINATOR

*[Signature]*  
31/5/23  
HEAD OF THE DEPARTMENT  
Dept. of Mechanical Engg.  
K.S. Institute of Technology

*[Signature]*  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY

K. S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109

DEPARTMENT OF MECHANICAL ENGINEERING

EVEN SEMESTER - FEB to MAY 2023

Class Teacher : Mr. Nagabhushana .M

NEW BUILDING LII - NB 204 (SEMINAR HALL)

W.E.F: 13/02/2023

SECTION: VIII

PERIOD	1	2	10:20 - 10:35	3	4	12:25 - 1:15	5	6	7	
TIME/DAY	8:30 - 9:25	9:25 - 10:20		10:35 - 11:30	11:30 - 12:25		1:15 - 2:10	2:10 - 3:05	3:05 - 4:00	
MON	TRI (18ME822)	TRI (18ME822)	TEA BREAK	EE (18ME81)	EE (18ME81)	LUNCH TIME	Technical Seminar(18MES84)			
TUE	EE (18ME81)	TRI (18ME822)		EE (18ME81)	TRI (18ME822)		Internship (18ME85)			
WED	Project Work Phase - II (18MEP83)			Project Work Phase - II (18MEP83)			Project Work Phase - II (18MEP83)			
THU	-	-		-	-		-	-	-	-
FRI	-	-		-	-		-	-	-	-
SAT	-	-		-	-		-	-	-	-

Subject Code	Subject Name	Faculty Name
18ME81	Energy Engineering	Mr. Prasad K
18ME822	Tribology	Dr. Girish T R
18MEP83	Project Work Phase - II	Dr. Nirmala L / Ms. Tejaswini M L
18MES84	Technical Seminar	Dr. Nagaprasad K S
18ME85	Internship	Mr. Harish U

CO-ORDINATOR

*J. Hanu* 9/2/23  
 HEAD OF THE DEPARTMENT  
 Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

*S. Kumar . C*  
 PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.



**KSIT**

**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

**SET: A**

USN 

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Degree : B.E  
Branch - Stream : ME-ME  
Course Title : Fluid Mechanics  
Duration : 60 Minutes

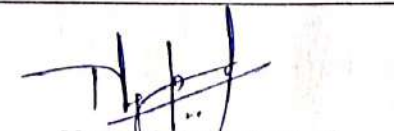
Semester : IV  
Course Type / Code : Integrated/21ME43  
Date : 01/08/2023  
Max Marks : 20

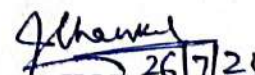
Note: Answer **ONE** full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Derive Darcy's equation for head losses due to friction in a circular pipe.	8	CO3	K3
(b)	A horizontal circular pipe is of 50 mm diameter and 750 m long maintains water flow rate of 0.03 m <sup>3</sup> /min. Calculate the head loss due to friction and the power required to maintain the flow if $\mu=1.14 \times 10^{-3}$ N-s/m <sup>2</sup> and $f=0.008$ .	4	CO3	K3
<b>OR</b>				
2(a)	What are the losses that occur in pipes. Give the expressions for different minor energy losses.	4	CO3	K3
(b)	A horizontal pipeline, 50 m long, is connected to a reservoir at one end and discharges freely in to the atmosphere at the other end. For the first 25 m length from the reservoir the pipe has a diameter of 15 cm and it has a square entrance at the reservoir. The remaining 25 m length of pipe has a diameter of 30 cm. the junction of the two pipes is in the form of a sudden expansion. The 15 cm has a gate valve ( $K=0.2$ ) in fully open condition. If the height of water surface in the tank is 10 m above the centerline of the pipe, estimate the discharge in the pipe by considering the Darcy's Weisbach factor $f=0.02$ for both the pipes (Include all minor losses in the calculations)	8	CO3	K3
<b>PART -B</b>				
3(a)	Obtain Bernoulli's equation from Euler's equation of motion.	4	CO2	K3
(b)	Check whether the following equations (with their usual notations) are dimensionally homogeneous or not. i) $h_f = 4fLV^2/2gd$ ii) $P = \gamma QH$	4	CO4	K3
<b>OR</b>				
4(a)	A pipe 5 m long is inclined at an angle of 15° with the horizontal. The smaller section of the pipe which is at a lower level is of 80 mm diameter and the larger section of the pipe is of 240 mm diameter. Determine the difference of pressure between the two sections, if the pipe is uniformly tapering and the velocity of water at the smaller section is 1 m/s.	4	CO2	K3
(b)	Using Rayleigh's method find the expression for power P, developed by a pump when P depends upon the head H, the discharge Q and specific weight w of the fluid.	4	CO4	K3

  
Name & Signature  
of Course In charge

  
Name & Signature of  
Module Coordinator  
(Dr. Nagaraj Prasad KS)

  
HOD 26/7/23

  
Principal  
Selected



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**SECOND SESSIONAL TEST 2022 - 23 (EVEN SEMESTER)**

**SCHEME AND SOLUTION (SET A)**

Degree : B.E  
 Branch-Stream : ME -ME  
 Course Title : Fluid Mechanics

Semester : IV  
 Course Type / Code : Integrated/21ME43  
 Max Marks : 20

Q. No	SOLUTION	MARKS
1(a)	<p align="center"><b><u>PART-A</u></b></p> <p align="center">Fig: uniform horizontal pipe with a steady flow of fluid</p> <p align="center"><math>h_f = 4fLV^2/2gd</math></p> <p align="right">Sketch-02 Derivation-06</p>	08
1(b)	$Q=AV$ $\square V = 0.2546 \text{ m/s} \text{ --01}$ $Re = \rho Vd/\mu, \square Re = 11.1667 \times 10^3 \text{ --01}$ $h_f = 4fLV^2/2gd, \square h_f = 1.5858 \text{ m} \text{ --01}$ $P = \gamma Qh_f = 7.7783 \text{ W} \text{ --01}$	04
2 (a)	<p>Major and Minor head losses in pipes</p> <p>Major head losses in pipes- i) Darcy's and (<math>h_f = 4fLV^2/2gd</math>)          ii) Chezy's equation (<math>V = C \sqrt{mi}</math>)</p> <p>Minor head losses in pipes- i) <math>h_e = (V_1 - V_2)^2/2g</math>          ii) <math>h_c = 0.375 V_2^2/2g</math>          iii) <math>h_i = 0.5 V^2/2g</math>          iv) <math>h_o = V^2/2g</math></p>	02+02= 04
2(b)	$V_1 = 4V_2 \text{ --01}$ $h_i = 8(V_2)^2/2g, h_{\text{fittings}} = 3.2(V_2)^2/2g, h_n = 213.33(V_2)^2/2g, h_e = 9(V_2)^2/2g \text{ --05}$ $h_c = 6.66(V_2)^2/2g$ $V_2 = 0.9 \text{ m/sec} \text{ --01}$ $Q = 0.0636 \text{ m}^3/\text{sec} \text{ --01}$	08
3 (a)	<p align="center"><b><u>PART-B</u></b></p> <p><math>dp/p + gdz + vdv = 0</math> ----- Euler's equation ----01  <math>p/\rho g + v^2/2g + Z = \text{Constant}</math> ----- Bernoulli's equation ----03</p>	04

3(b)	$h_f = 4fV^2/2gd$ $[L]=[L]$ LHS=RHS $\square$ Equation is dimensionally homogeneous.  $P = \gamma QH$ $[ML^2T^{-3}] = [ML^2T^{-3}]$ LHS=RHS $\square$ Equation is dimensionally homogeneous.	02+02  04
4(a)	$A_1 = 5.026 \times 10^{-3} \text{ m}^2$ $A_2 = 0.045 \text{ m}^2$ $V_2 = 0.11 \text{ m/sec}$ ----- 01 $Z_2 = 5 \sin 15^\circ = 1.294 \text{ m}$ ----- 01 $P_1 - P_2 = 12209.69 \text{ N/m}^2$ or $12.20 \text{ KN/m}^2$ ----- 02	04
4(b)	$P = K H^a Q^b w^c$ $[ML^2T^{-3}] = K [L]^a [L^3T^{-1}]^b [ML^{-2}T^{-2}]^c$ ----- 02 $c=1, a=1, b=1$ $P = K H^1 Q^1 w^1$ ----- 02	04

  
Signature of Course In-charge

  
Module In-charge

  
Head of the Department





**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

**SET: B**

Degree : B.E  
Branch - Stream : ME-ME  
Course Title : Fluid Mechanics  
Duration : 60 Minutes

USN 

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Semester : IV  
Course Type / Code : Integrated/21ME43  
Date : 01/08/2023  
Max Marks : 20

Note: Answer **ONE** full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Derive Chezy's equation for loss of head due to friction in pipes.	4	CO3	K3
(b)	Two reservoirs are connected by a pipeline consisting of two pipes, one of 15 cm diameter and length 6 m and other of diameter 22.5 cm and 16 m length. If difference of water levels in the two reservoirs is 6 m, calculate the discharge. Take coefficient of friction $f=0.04$ .	8	CO3	K3
<b>OR</b>				
2(a)	For a flow through pipe, derive Darcy-Weisbach equation.	8	CO3	K3
(b)	A 5 cm diameter pipe takes off abruptly from a large tank and run 8 m, then expands abruptly to 10 cm diameter and runs 45 m and next discharge directly into open air with a velocity of 1.5 m/s. Compute the necessary height of water surface above the point discharge. Take $f=0.0065$ in the Darcy equation.	4	CO3	K3
<b>PART -B</b>				
3(a)	A pipe 5 m long is inclined at an angle of $15^\circ$ with the horizontal. The smaller section of the pipe which is at a lower level is of 80 mm diameter and the larger section of the pipe is of 240 mm diameter. Determine the difference of pressure between the two sections, if the pipe is uniformly tapering and the velocity of water at the smaller section is 1 m/s.	4	CO2	K3
(b)	The time period (t) of a pendulum depends upon the length (L) of the pendulum and acceleration due to gravity (g). Derive an expression for the time period using Rayleigh's method.	4	CO4	K3
<b>OR</b>				
4(a)	Obtain Bernoulli's equation from Euler's equation of motion.	4	CO2	K3
(b)	Explain dimensional homogeneity with two examples.	4	CO4	K3

Name & Signature  
of Course In charge

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Module Coordinator

(Dr. Nagaprasad KS)

HOD 26/7/23

Principal

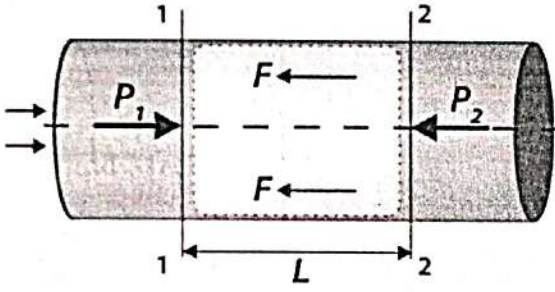


**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**SECOND SESSIONAL TEST 2022 - 23(EVEN SEMESTER)**

**SCHEME AND SOLUTION (SET B)**

Degree : B.E  
 Branch-Stream : ME -ME  
 Course Title : Fluid Mechanics

Semester : IV  
 Course Type / Code : Integrated/21ME43  
 Max Marks : 20

Q. No	SOLUTION	MARKS
	<b>PART-A</b>	
1(a)	Derivation of Chezy's equation ( $V = C \sqrt{mi}$ )	04
1(b)	$Q = A_1 V_1 = A_2 V_2$ $V_1 = 2.25 V_2 = 3.492 \text{ m/sec} \text{ --- } 01$ $h_i = 0.3107 \text{ m}, h_{f1} = 3.9774 \text{ m}, h_e = 0.1918 \text{ m}, h_{f2} = 1.3968 \text{ m}, h_o = 0.1228 \text{ m} \text{ -- } 05$ $V_2 = 1.552 \text{ m/sec} \text{ --- } 01$ $Q = 0.0617 \text{ m}^3/\text{sec} \text{ --- } 01$	08
2 (a)	 <p align="center">Fig: uniform horizontal pipe with a steady flow of fluid</p> <p align="right">Sketch-02  <math>h_f = 4fLV^2/2gd</math> Derivation- 06</p>	08
2(b)	$V_1 = 6 \text{ m/s} \text{ -- } 01$ $h_i = 0.9174 \text{ m}, h_{f1} = 7.6330 \text{ m}, h_e = 1.0321 \text{ m}, h_{f2} = 1.3417 \text{ m} \text{ -- } 02$ $H = 11.0388 \text{ m} \text{ --- } 01$	04
	<b>PART-B</b>	
3 (a)	$A_1 = 5.026 \times 10^{-3} \text{ m}^2$ $A_2 = 0.045 \text{ m}^2$ $V_2 = 0.11 \text{ m/sec} \text{ ----- } 01$ $Z_2 = 5 \sin 15^\circ = 1.294 \text{ m} \text{ ----- } 01$ $P_1 - P_2 = 12209.69 \text{ N/m}^2 \text{ or } 12.20 \text{ KN/m}^2 \text{ ----- } 02$	04

3(b)	$t = K L^a g^b$ --- 01 $T = K [L]^a [LT^{-2}]^b$ --- 01 $a = 1/2, b = -1/2$ ---- 01 $\square t = K L^{1/2} g^{-1/2}$ ---- 01	04
4(a)	$dp/p + gdz + vdv = 0$ ----- Euler's equation ---- 01 $p/\rho g + v^2/2g + Z = \text{Constant}$ ----- Bernoulli's equation ---- 03	04
4(b)	$h_f = 4f l V^2 / 2gd$ $[L] = [L]$ LHS=RHS $\square$ Equation is dimensionally homogeneous. $P = \gamma Q H$ $[ML^2T^{-3}] = [ML^2T^{-3}]$ LHS=RHS $\square$ Equation is dimensionally homogeneous.	02+02= 04

  
Signature of Course In-charge

  
Module In-charge

  
26/7/23  
Head of the Department



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

**SET: A**

Degree : B.E  
Branch - Stream : ME-ME  
Course Title : Fluid Mechanics  
Duration : 60 Minutes

USN

Semester : IV  
Course Type / Code : Integrated/21ME43  
Date : 07/09/2023  
Max Marks : 20

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Derive an expression for velocity of sound wave in a fluid.	8	CO5	K3
(b)	A projectile travels in air of pressure 8.829 N/cm <sup>2</sup> at -10°C at a speed of 1200 km/hr. Find the Mach number and Mach angle. Take k=1.4 and R=287 j/kg K.	4	CO5	K3
<b>OR</b>				
2(a)	What do you understand by stagnation pressure? Obtain an expression for stagnation pressure of a compressible fluid in terms of approaching Mach number and pressure.	8	CO5	K3
(b)	Find the velocity of air flowing at the outlet of a nozzle, fitted to a large vessel which contains air at a pressure of 294.3 N/cm <sup>2</sup> (abs) and at a temperature of 30°C. The pressure at the outlet of the nozzle is 137.34 N/cm <sup>2</sup> (abs). Take k=1.4 and R=287 j/kg K.	4	CO5	K3
<b>PART -B</b>				
3(a)	Using Buckingham's $\pi$ -theorem, show that the velocity through a circular orifice is given by $V = \sqrt{2gH\phi \left[ \frac{D}{H}, \frac{\mu}{\rho v H} \right]}$ . Where H is the head causing flow, D is the diameter of the orifice, $\mu$ is the co-efficient of viscosity, $\rho$ is the mass density and g is the acceleration due to gravity.	8	CO4	K3
<b>OR</b>				
4(a)	Explain the different types of hydraulic similarities that must exist between a prototype and its model.	4	CO4	K3
(b)	Define the following non-dimensional numbers: (i) Reynold's number and (ii) Mach's number. What are their significances for fluid flow problems?	4	CO4	K3

  
Name & Signature  
of Course In charge  
2/9/23

  
Name & Signature of  
Module Coordinator  
(Dr. Nageshprasad KS)

  
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Principal  
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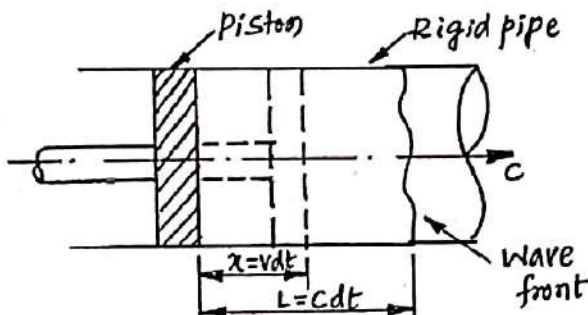


**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**THIRD SESSIONAL TEST 2022 - 23 (EVEN SEMESTER)**

**SCHEME AND SOLUTION (SET A)**

Degree : B.E  
 Branch-Stream : ME -ME  
 Course Title : Fluid Mechanics

Semester : IV  
 Course Type / Code : Integrated/21ME43  
 Max Marks : 20

Q. No	SOLUTION	MARKS
1(a)	<p align="center"><b>PART-A</b></p>  <p>Mass of fluid before compression = Mass of fluid after compression</p> $\rho A c dt = (\rho + d\rho) A x (c dt - v dt)$ <p>÷ by A dt</p> $\rho c = (\rho + d\rho)(c - v)$ <p>On Simplification <math>c d\rho = \rho v + v d\rho</math></p> <p><math>d\rho</math> is very small, ∴ neglected, <math>c d\rho = \rho v</math> - (A)</p> <p>From momentum equation</p> $(P + dP)A - P \times A = \frac{\rho A L}{dt} (v - 0) = \frac{\rho A c dt}{dt} (v - 0) = \rho A c v$ $dP A = \rho A c v \quad \therefore c = \frac{dP}{\rho v} \text{ - (B)}$ <p>×<sup>14</sup> (A) &amp; (B) <math>c^2 d\rho = \rho v \frac{dP}{\rho v}, \quad c = \sqrt{\frac{dP}{d\rho}}</math></p>	<p align="center">02</p> <p align="center">02</p> <p align="center">02</p> <p align="center">02</p>

1(b)

$$P = 8.829 \text{ N/cm}^2 = 8.829 \times 10^4 \text{ N/m}^2$$

$$T = -10^\circ\text{C} = -10 + 273 = 263 \text{ K}$$

$$V = 1200 \text{ km/hr} = \frac{1200 \times 1000}{60 \times 60} = 333.34 \text{ m/s}$$

$$k = 1.4$$

$$R = 287 \text{ J/kg}\cdot\text{K}$$

$$C = \sqrt{kRT} = \sqrt{1.4 \times 287 \times 263} = 325.07 \text{ m/s}$$

$$M = \frac{V}{C} = \frac{333.34}{325.07} = 1.02$$

$$\sin \alpha = \frac{C}{V} = \frac{1}{M} = \frac{1}{1.02} = 0.98$$

$$\alpha = \sin^{-1}(0.98) = 78.52^\circ$$

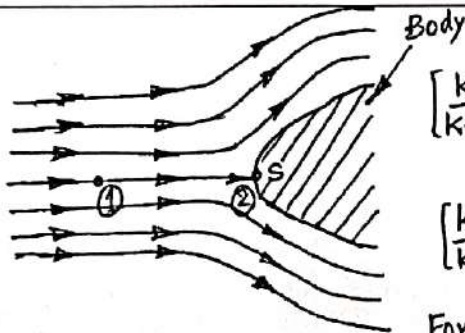
01

01

01

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2(a)



$$\left[ \frac{k}{k-1} \right] \frac{P_1}{\rho_1} + \frac{V_1^2}{2g} + Z_1 = \left[ \frac{k}{k-1} \right] \frac{P_2}{\rho_2} + \frac{V_2^2}{2g} + Z_2$$

$$Z_1 = Z_2, P_2 = P_1, \rho_2 = \rho_1$$

$$\left[ \frac{k}{k-1} \right] \frac{P_1}{\rho_1} \left[ 1 - \frac{\rho_1}{\rho_2} \times \frac{\rho_1}{\rho_2} \right] = -\frac{V_1^2}{2}$$

For Adiabatic process

$$\frac{P_1}{\rho_1^k} = \frac{P_2}{\rho_2^k} = \frac{P_s}{\rho_s^k}$$

$$\frac{\rho_1}{\rho_s} = \left[ \frac{P_1}{P_s} \right]^{1/k}$$

$$\left[ \frac{k}{k-1} \right] \frac{P_1}{\rho_1} \left[ 1 - \frac{P_s}{P_1} \times \left( \frac{P_1}{P_s} \right)^{1/k} \right] = -\frac{V_1^2}{2}$$

04

on Simplification

$$1 + \frac{V_1^2}{2} \left[ \frac{k-1}{k} \right] \frac{\rho_1}{P_1} = \left[ \frac{P_s}{P_1} \right]^{k-1}$$

For adiabatic process, velocity of sound is

$$C = \sqrt{kRT} = \sqrt{k \frac{P}{\rho}}, \quad C_1 = \sqrt{k \frac{P_1}{\rho_1}} \quad \text{or} \quad C_1^2 = k \frac{P_1}{\rho_1}$$

$$1 + \frac{V_1^2}{2} (k-1) \times \frac{1}{C_1^2} = \left[ \frac{P_s}{P_1} \right]^{k-1}$$

$$1 + \frac{M_1^2}{2} (k-1) = \left[ \frac{P_s}{P_1} \right]^{k-1}$$

$$\therefore P_s = P_1 \left[ 1 + \frac{k-1}{2} M_1^2 \right]^{k-1}$$

04

2(b)	$P_1 = 294.3 \text{ N/cm}^2 = 294.3 \times 10^4 \text{ N/m}^2$ $T_1 = 30 + 273 = 303 \text{ K}$ $P_2 = 137.34 \text{ N/cm}^2 = 137.34 \times 10^4 \text{ N/m}^2$ $R = 287 \text{ J/kg K}$ $k = 1.4$ $\frac{P_1}{\rho_1} = R T_1, \quad \rho_1 = \frac{P_1}{R T_1} = \frac{294.3 \times 10^4}{287 \times 303} = 33.84 \text{ kg/m}^3$ $V_2 = \sqrt{\left[ \frac{2k}{k-1} \right] \frac{P_1}{\rho_1} \left[ 1 - \left( \frac{P_2}{P_1} \right)^{\frac{k-1}{k}} \right]} = \sqrt{\left[ \frac{2 \times 1.4}{1.4 - 1} \right] \frac{294.3 \times 10^4}{33.84} \left[ 1 - \left( \frac{137.34 \times 10^4}{294.3 \times 10^4} \right)^{\frac{1.4-1}{1.4}} \right]}$ $V_2 = 344.54 \text{ m/sec}$	02  02
3(a)	<p style="text-align: center;"><u>PART-B</u></p> $V = f(H, D, \mu, \rho, g)$ $f(V, H, D, \mu, \rho, g) = 0$ $n = 6, m = 3, (n - m) = 6 - 3 = 3 \pi\text{'s}$ $f_1(\pi_1, \pi_2, \pi_3) = 0$ $\pi_1 = H^{a_1} g^{b_1} \rho^{c_1} V$ $\pi_2 = H^{a_2} g^{b_2} \rho^{c_2} D$ $\pi_3 = H^{a_3} g^{b_3} \rho^{c_3} \mu$ <p>For first <math>\pi</math>-term: <math>a_1 = -\frac{1}{2}, b_1 = -\frac{1}{2}, c_1 = 0, \therefore \pi_1 = H^{-\frac{1}{2}} g^{-\frac{1}{2}} \rho^0</math></p> $\pi_1 = \frac{V}{H^{\frac{1}{2}} g^{\frac{1}{2}}} \Rightarrow \boxed{\pi_1 = \frac{V}{\sqrt{gH}}}$ <p>For Second <math>\pi</math>-term: <math>a_2 = -1, b_2 = 0, c_2 = 0, \therefore \pi_2 = H^{-1} g^0 \rho^0 D</math></p> $\boxed{\pi_2 = \frac{D}{H}}$ <p>For Third <math>\pi</math>-term: <math>a_3 = -\frac{3}{2}, b_3 = -\frac{1}{2}, c_3 = -1, \pi_3 = H^{-\frac{3}{2}} g^{-\frac{1}{2}} \rho^{-1} \mu</math></p> <p>on simplification, <math>\boxed{\pi_3 = \frac{\mu}{\rho V H}}</math></p> $f_1\left(\frac{V}{\sqrt{gH}}, \frac{D}{H}, \frac{\mu}{\rho V H}\right) = 0$ $\frac{V}{\sqrt{gH}} = \phi\left[\frac{D}{H}, \frac{\mu}{\rho V H}\right] \text{ or } \boxed{V = \sqrt{2gH} \phi\left[\frac{D}{H}, \frac{\mu}{\rho V H}\right]}$	02  02  02
4(a)	<ul style="list-style-type: none"> <li>✓ Geometric Similarity</li> <li>✓ Kinematic Similarity</li> <li>✓ Dynamic Similarity</li> </ul>	04

4(b)

i) Reynold's Number is defined as the ratio of inertia force of a flowing fluid and the viscous force of the fluid

$$Re = \frac{\rho V d}{\mu}$$

Significance: The Reynold's number is used to study fluids as they flow. The Reynold's number determines whether a fluid flow is laminar or turbulent.

ii) Mach Number is defined as the square root of the ratio of the inertia force to elastic force.  $M = \frac{V}{C}$

Significance: The Mach number provides a comparison between fluid flow rate and the speed of sound

04

  
Signature of Course In-charge 2/9/23

  
Module In-charge

  
Head of the Department





**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

**SET: B**

USN

Degree : B.E  
Branch - Stream : ME-ME  
Course Title : Fluid Mechanics  
Duration : 60 Minutes

Semester : IV  
Course Type / Code : Integrated/21ME43  
Date : 07/09/2023  
Max Marks : 20

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Obtain an expression for stagnation pressure of a compressible fluid in terms of approaching Mach number and pressure.	8	CO5	K3
(b)	Find the Mach number when an aeroplane is flying at 1000 km/hr through still air having pressure of 7 N/cm <sup>2</sup> and temperature of -5°C. Take R= 287.14 j/kg K. Calculate the pressure and temperature of air at stagnation point. Take k=1.4.	4	CO5	K3
<b>OR</b>				
2(a)	Derive an expression for velocity of sound wave in a fluid.	8	CO5	K3
(b)	Define Computational fluid dynamics (CFD). Mention the applications and limitations of CFD.	4	CO5	K3
<b>PART-B</b>				
3(a)	Using Buckingham's $\pi$ -theorem, show that the discharge Q consumed by an oil ring is given by $Q = Nd^3\phi \left[ \frac{\mu}{\rho N d^2}, \frac{\sigma}{\rho N^2 d^3}, \frac{w}{\rho N^2 d} \right]$ Where d is the internal diameter of the ring, N is the rotational speed, $\rho$ is density, $\mu$ is viscosity, $\sigma$ is surface tension and w is the specific weight of oil.	8	CO4	K3
<b>OR</b>				
4(a)	What are repeating variables? How are the repeating variables selected for dimensional analysis	4	CO4	K3
(b)	A 7.2 m height and 15 m long spillway discharges 94 m <sup>3</sup> /s discharge under a head of 2 m. If a 1:9 scale model of this spillway is to be constructed, determine model dimensions, head over spillway model and the model discharge. If model experiences a force of 7500 N, determine force on the prototype.	4	CO4	K3

  
Name & Signature  
of Course In charge

  
Name & Signature of  
Module Coordinator  
(Dr. Nagaprasad KS)

  
HOD

  
Principal

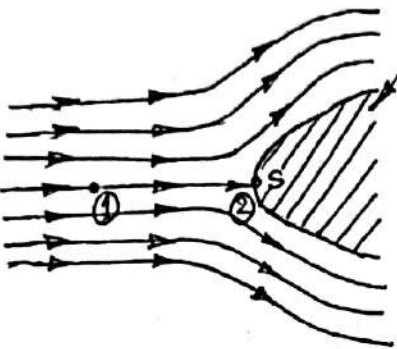


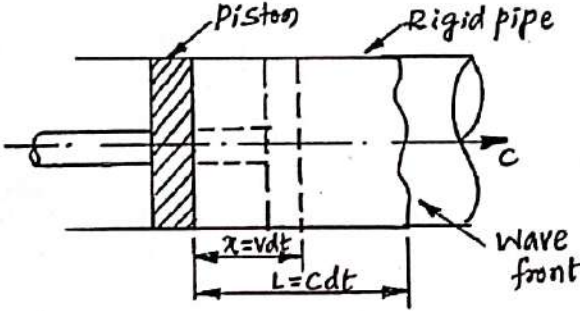
**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**THIRD SESSIONAL TEST 2022 - 23 (EVEN SEMESTER)**

**SCHEME AND SOLUTION (SET B)**

Degree : B.E  
 Branch-Stream : ME -ME  
 Course Title : Fluid Mechanics

Semester : IV  
 Course Type / Code : Integrated/21ME43  
 Max Marks : 20

Q. No	SOLUTION	MARKS
1(a)	<p align="center"><u>PART-A</u></p>  <p> <math display="block">\left[ \frac{k}{k-1} \right] \frac{P_1}{\rho_1 g} + \frac{V_1^2}{2g} + Z_1 = \left[ \frac{k}{k-1} \right] \frac{P_2}{\rho_2 g} + \frac{V_2^2}{2g} + Z_2</math> <math display="block">Z_1 = Z_2, P_2 = P_s, \rho_2 = \rho_s</math> <math display="block">\left[ \frac{k}{k-1} \right] \frac{P_1}{\rho_1} \left[ 1 - \frac{\rho_s}{\rho_1} \times \frac{\rho_1}{\rho_s} \right] = -\frac{V_1^2}{2}</math> <p>For Adiabatic process</p> <math display="block">\frac{P_1}{\rho_1^k} = \frac{P_2}{\rho_2^k} = \frac{P_s}{\rho_s^k}</math> <math display="block">\frac{\rho_1}{\rho_s} = \left[ \frac{P_1}{P_s} \right]^{1/k}</math> <math display="block">\left[ \frac{k}{k-1} \right] \frac{P_1}{\rho_1} \left[ 1 - \frac{P_s}{P_1} \times \left( \frac{P_1}{P_s} \right)^{1/k} \right] = -\frac{V_1^2}{2}</math> <p>on Simplification</p> <math display="block">1 + \frac{V_1^2}{2} \left[ \frac{k-1}{k} \right] \frac{\rho_1}{P_1} = \left[ \frac{P_s}{P_1} \right]^{k-1}</math> <p>For adiabatic process, velocity of sound is</p> <math display="block">C = \sqrt{kRT} = \sqrt{k \frac{P}{\rho}}, C_1 = \sqrt{k \frac{P_1}{\rho_1}} \text{ or } C_1^2 = k \frac{P_1}{\rho_1}</math> <math display="block">1 + \frac{V_1^2}{2} (k-1) \times \frac{1}{C_1^2} = \left[ \frac{P_s}{P_1} \right]^{k-1}</math> <math display="block">1 + \frac{M_1^2}{2} (k-1) = \left[ \frac{P_s}{P_1} \right]^{k-1}</math> <math display="block">\therefore P_s = P_1 \left[ 1 + \frac{k-1}{2} M_1^2 \right]^{k/(k-1)}</math> </p>	<p align="right">02</p> <p align="right">02</p> <p align="right">02</p> <p align="right">02</p>

1(b)	$V = 1000 \times 1000 / 60 \times 60 = 277.78 \text{ m/s}$ $C = \sqrt{KRT} = \sqrt{1.4 \times 287.14 \times 268} = 328.2 \text{ m/s}$ $M_1 = V_1 / C_1 = 277.78 / 328.2 = 0.846$ $P_s = 11.18 \times 10^4 \text{ N/m}^2$ $T_s = 306.36^\circ \text{K}$	01 01 01 01
2(a)	 <p>Mass of fluid before compression = Mass of fluid after compression</p> $\rho A c dt = (\rho + d\rho) A x (c dt - v dt)$ <p>÷ by <math>A dt</math></p> $\rho c = (\rho + d\rho)(c - v)$ <p>On simplification <math>c d\rho = \rho v + v d\rho</math></p> <p><math>d\rho</math> is very small, <math>\therefore</math> neglected, <math>c d\rho = \rho v</math> — (A)</p> <p>From momentum equation</p> $(P + dP)A - P \times A = \frac{\rho A L}{dt} (v - 0) = \frac{\rho A c dt}{dt} (v - 0) = \rho A c v$ $dP A = \rho A c v \quad \therefore c = \frac{dP}{\rho v}$ — (B) <p><math>\times^{14}</math> (A) &amp; (B) <math>c^2 d\rho = \rho v \frac{dP}{\rho v}</math>, <math>c = \sqrt{\frac{dP}{d\rho}}</math></p>	02  02  02  02
2(b)	<p><b>Computational fluid dynamics (CFD)</b> is a science that, with the help of digital computers, produces quantitative predictions of fluid-flow phenomena based on the conservation laws (conservation of mass, momentum, and energy) governing fluid motion.</p> <p><b>Applications of CFD Engineering in Different Fields</b>  Turbomachinery, Electronics Cooling Simulation, Heat Transfer and Thermal Management, Rotating Machinery Simulation, CFD Analysis for Cavitation, CFD Simulation in Aerodynamics, CFD Simulation for Batteries.</p> <p><b>Limitations of CFD</b></p> <ul style="list-style-type: none"> <li>▪ Cost of tool or software is very high</li> <li>▪ Solutions are not reliable</li> <li>▪ Require large number of input data</li> </ul>	01         03

**PART-B**

3 (a)

**Solution.** Given :  $Q = f(d, N, \rho, \mu, \sigma, w)$  or  $f_1(Q, d, N, \rho, \mu, \sigma, w) = 0$

$\therefore$  Total number of variables,  $n = 7$

Dimensions of each variables are

$$Q = L^3 T^{-1}, d = L, N = T^{-1}, \rho = ML^{-3}, \mu = ML^{-1} T^{-1}, \sigma = MT^{-2}$$

and

$$w = ML^{-2} T^{-2}$$

$\therefore$  Total number of fundamental dimensions,  $m = 3$

$\therefore$  Total number of  $\pi$ -terms =  $n - m = 7 - 3 = 4$

$\therefore$  Equation (i) becomes as  $f_1(\pi_1, \pi_2, \pi_3, \pi_4) = 0$

Choosing  $d, N, \rho$  as repeating variables, the  $\pi$ -terms are

$$\pi_1 = d^{a_1} \cdot N^{b_1} \cdot \rho^{c_1} \cdot Q$$

$$\pi_2 = d^{a_2} \cdot N^{b_2} \cdot \rho^{c_2} \cdot \mu$$

$$\pi_3 = d^{a_3} \cdot N^{b_3} \cdot \rho^{c_3} \cdot \sigma$$

$$\pi_4 = d^{a_4} \cdot N^{b_4} \cdot \rho^{c_4} \cdot w$$

**First  $\pi$ -term**

$$\pi_1 = d^{a_1} \cdot N^{b_1} \cdot \rho^{c_1} \cdot Q$$

Substituting dimensions on both sides,

$$M^0 L^0 T^0 = L^{a_1} \cdot (T^{-1})^{b_1} \cdot (ML^{-3})^{c_1} \cdot L^3 T^{-1}$$

Equating the powers of  $M, L, T$  on both sides,

Power of  $M$ ,  $0 = c_1, \therefore c_1 = 0$

Power of  $L$ ,  $0 = a_1 - 3c_1 + 3, \therefore a_1 = 3c_1 - 3 = 0 - 3 = -3$

Power of  $T$ ,  $0 = -b_1 - 1, \therefore b_1 = -1$

Substituting  $a_1, b_1, c_1$  in  $\pi_1, \pi_1 = d^{-3} \cdot N^{-1} \cdot \rho^0 \cdot Q = \frac{Q}{d^3 N}$

02

**Second  $\pi$ -term**  $\pi_2 = d^{a_2} \cdot N^{b_2} \cdot \rho^{c_2} \cdot \mu$

Substituting the dimensions on both sides,

$$M^0 L^0 T^0 = L^{a_2} \cdot (T^{-1})^{b_2} \cdot (ML^{-3})^{c_2} \cdot ML^{-1} T^{-1}$$

Equating the powers of  $M, L, T$  on both sides,

Power of  $M$ ,  $0 = c_2 + 1, \therefore c_2 = -1$

Power of  $L$ ,  $0 = a_2 - 3c_2 - 1, \therefore a_2 = 3c_2 + 1 = -3 + 1 = -2$

Power of  $T$ ,  $0 = -b_2 - 1, \therefore b_2 = -1$

Substituting the values of  $a_2, b_2, c_2$  in  $\pi_2$ ,

$$\pi_2 = d^{-2} \cdot N^{-1} \cdot \rho^{-1} \cdot \mu = \frac{\mu}{d^2 N \rho} \text{ or } \frac{\mu}{\rho N d^2}$$

02

**Third  $\pi$ -term**  $\pi_3 = d^{a_3} \cdot N^{b_3} \cdot \rho^{c_3} \cdot \sigma$

Substituting dimensions on both sides,

$$M^0 L^0 T^0 = L^{a_3} \cdot (T^{-1})^{b_3} \cdot (ML^{-3})^{c_3} \cdot MT^{-2}$$

Equating the powers of  $M, L, T$  on the sides,

Power of  $M$ ,  $0 = c_3 + 1, \therefore c_3 = -1$

Power of  $L$ ,  $0 = a_3 - 3c_3, \therefore a_3 = 3c_3 = -3$

Power of  $T$ ,  $0 = -b_3 - 2, \therefore b_3 = -2$

Substituting the values of  $a_3, b_3, c_3$  in  $\pi_3$ ,

$$\pi_3 = d^{-3} \cdot N^{-2} \cdot \rho^{-1} \cdot \sigma = \frac{\sigma}{d^3 N^2 \rho}$$

**Fourth  $\pi$ -term**  $\pi_4 = d^{a_4} \cdot N^{b_4} \cdot \rho^{c_4} \cdot w$

Substituting dimensions on both sides,

$$M^0 L^0 T^0 = L^{a_4} \cdot (T^{-1})^{b_4} \cdot (ML^{-3})^{c_4} \cdot ML^{-2} T^{-2}$$

Equating the powers of  $M, L, T$  on both sides,

Power of  $M$ ,  $0 = c_4 + 1, \therefore c_4 = -1$

Power of  $L$ ,  $0 = a_4 - 3c_4 - 2, \therefore a_4 = 3c_4 + 2 = -3 + 2 = -1$

Power of  $T$ ,  $0 = -b_4 - 2, \therefore b_4 = -2$

Substituting the values of  $a_4, b_4$  and  $c_4$  in  $\pi_4$ ,

$$\pi_4 = d^{-1} \cdot N^{-2} \cdot \rho^{-1} \cdot w = \frac{w}{d N^2 \rho}$$

Now substituting the values of  $\pi_1, \pi_2, \pi_3, \pi_4$  in (ii),

$$f\left(\frac{Q}{d^3 N}, \frac{\mu}{\rho N d^2}, \frac{\sigma}{d^3 N^2 \rho}, \frac{w}{d N^2 \rho}\right) = 0 \text{ or } \frac{Q}{d^3 N} = f_1\left[\frac{\mu}{\rho N d^2}, \frac{\sigma}{d^3 N^2 \rho}, \frac{w}{d N^2 \rho}\right]$$

02


02

or

$$Q = d^3 N \phi\left[\frac{\mu}{\rho N d^2}, \frac{\sigma}{d^3 N^2 \rho}, \frac{w}{d N^2 \rho}\right]. \text{ Ans.}$$

4(a)	<p><b>Method of Selecting Repeating Variables.</b> The number of repeating variables are equal to the number of fundamental dimensions of the problem. The choice of repeating variables is governed by the following considerations :</p> <ol style="list-style-type: none"> <li>1. As far as possible, the dependent variable should not be selected as repeating variable.</li> <li>2. The repeating variables should be chosen in such a way that one variable contains geometric property, other variable contains flow property and third variable contains fluid property.</li> </ol> <p>Variables with Geometric Property are</p> <p>(i) Length, <math>l</math>                      (ii) <math>d</math>                      (iii) Height, <math>H</math> etc.</p> <p>Variables with flow property are</p> <p>(i) Velocity, <math>V</math>                      (ii) Acceleration etc.</p> <p>Variables with fluid property : (i) <math>\mu</math>, (ii) <math>\rho</math>, (iii) <math>\omega</math> etc.</p> <ol style="list-style-type: none"> <li>3. The repeating variables selected should not form a dimensionless group.</li> <li>4. The repeating variables together must have the same number of fundamental dimensions.</li> <li>5. No two repeating variables should have the same dimensions.</li> </ol> <p>In most of fluid mechanics problems, the choice of repeating variables may be (i) <math>d, v, \rho</math> (ii) <math>l, v, \rho</math> or (iii) <math>l, v, \mu</math> or (iv) <math>d, v, \mu</math>.</p>	04
4(b)	<p>(i) Model dimensions (<math>h_m</math> and <math>L_m</math>)</p> $\frac{h_p}{h_m} = \frac{L_p}{L_m} = L_r = 9$ <p><math>\therefore h_m = \frac{h_p}{9} = \frac{7.2}{9} = 0.8 \text{ m. Ans.}</math></p> <p>And <math>L_m = \frac{L_p}{9} = \frac{15}{9} = 1.67 \text{ m. Ans.}</math></p> <p>(ii) Head over model (<math>H_m</math>)</p> $\frac{H_p}{H_m} = L_r = 9$ <p><math>\therefore H_m = \frac{H_p}{9} = \frac{2}{9} = 0.222 \text{ m. Ans.}</math></p> <p>(iii) Discharge through model (<math>Q_m</math>)</p> <p>Using equation (12.23), we get <math>\frac{Q_p}{Q_m} = L_r^{2.5}</math></p> <p><math>\therefore Q_m = \frac{Q_p}{L_r^{2.5}} = \frac{94}{9^{2.5}} = \frac{94}{243} = 0.387 \text{ m}^3/\text{s. Ans.}</math></p> <p>(iv) Force on the Prototype (<math>F_p</math>)</p> <p>Using equation (12.24), we get <math>F_r = \frac{F_p}{F_m} = L_r^3</math></p> <p><math>\therefore F_p = F_m \times L_r^3 = 7500 \times 9^3 = 5467500 \text{ N. Ans.}</math></p>	01  01  01  01

  
Signature of Course In-charge

  
Module In-charge

  
Head of the Department



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022 - 23 EVEN SEMESTER**

Set A

USN

Degree : B.E  
Branch : Mechanical Engineering  
Course Title : HEAT TRANSFER  
Duration : 90 Minutes

Semester : VI  
Course Code : 18ME63  
Date : 18-04-2023  
Max Marks : 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	A furnace wall is made of silica brick ( $K = 1.6 \text{ W/mK}$ ) inside and magnesia brick ( $K = 4.8 \text{ W/mK}$ ) outside, 10cm thick. If the inner and outer surfaces are exposed to temperature of $820^\circ\text{C}$ and $120^\circ\text{C}$ respectively, <b>find</b> the heat flow through the wall per $\text{m}^2$ . Assume a contact resistance of $0.22 \text{ m}^2\text{K} / \text{W}$ . Draw the temperature profile through the composite wall. The inside and outside heat transfer coefficient are $35 \text{ W/m}^2\text{K}$ and $12 \text{ W/m}^2\text{K}$	6	CO3	K3
(b)	A flat wall of a furnace is made up of fire brick, insulating brick and insulating building brick of thickness 25cm, 12.5cm and 25cm respectively. The inside wall is at a temperature of $600^\circ\text{C}$ and the outside atmospheric temperature is $20^\circ\text{C}$ . If the heat transfer coefficient for the outside surface is $10 \text{ W/m}^2 \text{ }^\circ\text{C}$ , <b>calculate</b> (i) Heat loss per $\text{m}^2$ of wall area (ii) Temperature of outside wall surface of the furnace. $K_{\text{fire brick}} = 1.4 \text{ W/m } ^\circ\text{C}$ ; $K_{\text{insulating material}} = 0.2 \text{ W/m } ^\circ\text{C}$	6	CO3	K3
(c)	<b>Calculate</b> the temperature gradient and rate of heat flow through the aluminium wall of a 15cm thick having surface temperature difference of $60^\circ\text{C}$ . The surface area is $120\text{cm}^2$ area. Take $K$ of steel and Aluminium as $265 \text{ W/mK}$ and $201 \text{ W/m K}$ respectively.	6	CO3	K3
<b>OR</b>				
2(a)	A composite wall consists of 10cm thick layer of building brick of $K = 0.7 \text{ W/m K}$ and 3cm thick plaster of $K = 0.5 \text{ W/mK}$ . An insulating material of $K = 0.08 \text{ W/m K}$ is to be added to reduce the heat from the wall by 70%. <b>Determine</b> the thickness of insulation.	6	CO3	K3
(b)	The exterior wall of a building is constructed of four materials 12mm thick gypsum board, 75mm thick fiber glass insulation, 20mm thick plywood and 20mm thick hardboard. The inside and outside temperatures are $20^\circ\text{C}$ and $-10^\circ\text{C}$ . The convection heat transfer coefficient on the inner and outer surfaces of the wall are 6 and $10\text{W/m}^2 \text{ }^\circ\text{C}$ . <b>Determine</b> the heat flux and overall heat transfer coefficient. Take the values of $K$ as follows:	6	CO3	K3

	Material	Thermal conductivity	Material	Thermal conductivity			
	Fibre	0.036 W/m K	Hardboard	0.215 W/m K			
	Gypsum	0.176 W/m K	Plywood	0.115 W/m K			
(c)	A hot plate maintained at 373 K dissipates heat at a rate of 7.5 kW/m <sup>2</sup> to the ambient air at 30°C. Calculate the convective heat transfer coefficient between air and plate.				6	CO3	K3
<b>PART-B</b>							
3(a)	Discuss the assumptions in conduction equation of Fourier law and define thermal conductivity, surface emissivity.				6	CO1	
(b)	Illustrate by deriving 3-dimensional heat conduction equation in Cartesian co-ordinates				6	CO1	K2
<b>OR</b>							
4(a)	Explain the three modes of heat transfer				6	CO1	K2
(b)	Explain Boundary conditions of First, Second and Third kind				6	CO1	K2



Name & Signature of  
Course In charge  
(Dr. Nagaprasad KS)



Name & Signature of  
Module Coordinator  
(Dr. Nagaprasad KS)



HOD ME



Principal

Selected



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**FIRST SESSIONAL TEST 2022 - 23(ODD SEMESTER)**

**SCHEME AND SOLUTION (SET A)**

**Degree : BE**  
**Branch : ME**  
**Course Title : HEAT TRANSFER**

**Semester : VI**  
**Course Code : 18ME63**  
**Max Marks : 30**

Q. No	SOLUTION	MARKS
	<b><u>PART-A</u></b>	
1(a)	$Q = 1126 \text{ W/m}^2$ Temperature profile	03 +03= 06
1(b)	$Q = 1273 \text{ W};$ $T = 247 \text{ deg C}$	03 +03=06
1(c)	$dT/dx = 2.2 \text{ }^\circ\text{C/m};$ $Q = 128 \text{ W}$	03 +03 = 06
2 (a)	$Q' = 0.7 Q$ $L = 12\text{cm}; x = 3.1\text{cm}$	03+ 03=06
2(b)	$Q = 938.7 \text{ W/m}^2$ $T = 1657 \text{ deg C}, 1507 \text{ deg C}, 239 \text{ deg C}$	04+ 05 = 09
2(c)	Diagram; $h = 1126 \text{ W/m}^2 \text{ K}$	03 +03=06
	<b><u>PART-B</u></b>	
3 (a)	Assumption; defenition	03+ 03 = 06
(b)	diagram; Energy balance derivation.	02+ 04 = 06
4(a)	Each mode explanation; Formula	03+ 03 = 06
4(c)	Diagram 3Nos.; Explanation	03+ 03= 06

Signature of Course In-charge

Module In-charge

Head of the Department





**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022 - 23 EVEN SEMESTER**

Set B

USN 

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Degree : B.E  
Branch : Mechanical Engineering  
Course Title : HEAT TRANSFER  
Duration : 90 Minutes


Semester : VI  
Course Code : 18ME63  
Date : 18-04-2023  
Max Marks : 30


Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	A surface plate of size 20cm x 20cm is inserted between two slabs. Slab A is 3cm thick ( $K = 50 \text{ W/mK}$ ) and slab B is 1.5cm thick ( $K=0.2 \text{ W/m K}$ ). The outside heat transfer coefficients on both sides of A and B are 200 and 50 $\text{W/m}^2 \text{ K}$ respectively. Temperature of surrounding air is $25^\circ \text{C}$ . If the rating of heater is 1 kW, <b>find</b> (i) Maximum temperature in the system (ii) Outer surface temperature of two slabs	6	CO3	K3
(b)	A furnace wall is made of inside silica brick ( $K=1.6 \text{ W/m K}$ ), outside magnetia brick ( $K=4.8 \text{ W/m K}$ ), 10 cm thick each. The inside and outside surfaces are exposed to fluid temperatures of $820^\circ \text{C}$ and $393^\circ \text{K}$ respectively. Find the heat flow through the wall per $\text{m}^2$ per hour. <b>Calculate</b> the temperatures and draw the temperature profile through the composite wall. The inside and outside heat transfer coefficients are $35 \text{W/m}^2 \text{K}$ and $0.012 \text{ kW/m}^2 \text{K}$ respectively	6	CO3	K3
(c)	The heat flow rate through a 4cm thick wood board for a temperature difference of $25^\circ \text{C}$ between the inner & outer surface is $75 \text{W/m}^2$ . <b>Determine</b> the thermal conductivity of wood.	6	CO3	K3
<b>OR</b>				
2(a)	<b>Calculate</b> the rate of heat flow through the wall of a refrigerated van of 1.5mm of steel sheet at outer surface, 100mm plywood at the inner surface and 2cm of glass-wool in between. The temperature at the inner and outer surfaces are $-15^\circ \text{C}$ and $24^\circ \text{C}$ respectively. Take thermal conductivities of steel, glass-wool and plywood as $23.2 \text{ W/m}^\circ \text{C}$ , $0.014 \text{ W/m}^\circ \text{C}$ and $0.052 \text{ W/m}^\circ \text{C}$	6	CO3	K3
(b)	The exterior wall of a house consists of 100mm thick brick with the thermal conductivity of $0.7 \text{ W/m K}$ , followed by a 30mm gypsum plaster with thermal conductivity of $0.48 \text{ W/mK}$ . <b>Find</b> the thickness of loosely packed insulating material ( $K = 0.065 \text{ W/mK}$ ) to be added to reduce the heat loss or gain through the wall by 80%.	6	CO3	K3

(c)	A horizontal steel pipe of 50mm diameter and 100cm long maintained at 60°C is kept in a large room at 22°C. Assume surface emissivity of steel as 0.8. Calculate the heat lost by radiation.			
<b>PART-B</b>				
3(a)	Discuss three kind of Boundary condition	6	CO1	K2
(b)	Illustrate by deriving an expression for temperature distribution, under one dimensional steady state heat conduction for the plane wall with internal heat generation	6	CO1	K2
<b>OR</b>				
4(a)	Explain any two modes of heat transfer	6	CO1	K2
(b)	Explain thermal conductivity, thermal diffusivity, Overall heat transfer coefficient and Convective resistance.	6	CO1	K2

  
 Name & Signature of  
 Course In charge  
 (Dr. Nagaprasad Ks)

  
 Name & Signature of  
 Module Coordinator  
 (Dr. Nagaprasad Ks)

  
 HOD ME

  
 Principal



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**FIRST SESSIONAL TEST 2022 - 23(ODD SEMESTER)**

**SCHEME AND SOLUTION (SET B)**

Degree : BE  
Branch : ME  
Course Title : HEAT TRANSFER

Semester : VI  
Course Code : 18ME63  
Max Marks : 30

Q. No	SOLUTION	MARKS
	<b><u>PART-A</u></b>	
1(a)	Resistance diagram + $Q_1 = Q_2$ $T_{max} = 225 \text{ deg C}$	04 +02= 06
1(b)	$Q = 1145 \text{ W};$ $T = 227 \text{ deg C} + \text{temp profile}$	03 +03=06
1(c)	Diagram; $K = 0.15 \text{ W/mK}$	03+ 03 = 06
2 (a)	Composite wall diagram $Q = 1436.9 \text{ W/m}^2$	03+ 03=06
2(b)	$Q' = 0.8 Q$ $L = 35\text{cm}$	03+ 03 = 06
2(c)	Diagram; $h = 912 \text{ W/m}^2 \text{ K}$	03+ 03=06
	<b><u>PART-B</u></b>	
3 (a)	Assumption; Definition	03+ 03 = 06
3(b)	Temp equation; Q equation.	03+ 03 = 06
4(a)	Each mode explanation; Formula	03+ 03= 06
4(c)	Explanation each; Formula	03+ 03= 06

  
Signature of Course In-charge

  
Module In-charge

  
Head of the Department



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022 - 23 EVEN SEMESTER**

Set A

Degree : B.E  
Branch : Mechanical Engineering  
Course Title : HEAT TRANSFER  
Duration : 90 Minutes

USN 

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Semester : VI  
Course Code : 18ME63  
Date : 06-06-2023  
Max Marks : 30


Note: 1. Answer ONE full question from each part.

2. Use of Heat transfer DATA HAND BOOK is permitted

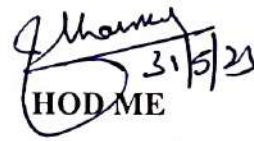
K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	A hot cylinder ingot of 50mm diameter and 200mm length is taken out from the furnace at 800°C and then dipped in water till its temperature falls to 500°C ( $h_w = 200 \text{ W/m}^2 \text{ K}$ ). Then it is directly exposed to air till its temperature falls to 100°C ( $h_a = 20 \text{ W/m}^2 \text{ K}$ ). The temperature of air and water is 303 K. Taking the properties of ingot as $\rho = 800 \text{ kg/m}^3$ , $C = 0.2 \text{ kJ/kgK}$ and $K = 60 \text{ W/m K}$ , find the total time required for the ingot to reach the temperature from 800°C to 373 K.	6	CO2	K3
(b)	The surface temperature of the plate located parallel to air stream is 90°C. The free stream velocity is 60m/s and the air temperature is 10°C. The plate is 60cm wide and 45cm long in the direction of air stream. Assuming that the transitional Reynold's number is $4 \times 10^5$ , determine (i) the average heat transfer coefficient in laminar and turbulent regions (ii) Rate of heat transfer for the entire plate considering both the sides of the plate. Given that correlations for the local Nusselt Number are $0.332 (Re_x)^{0.5} Pr^{0.333}$ for laminar flow and $0.028 (Re_x)^{0.8} Pr^{0.333}$ for turbulent flow	6	CO4	K3
(c)	A thermocouple (TC) junction is in the form of 8 mm sphere. Properties of the material are $\rho = 8000 \text{ kg/m}^3$ , $C = 420 \text{ J/kgK}$ and $K = 40 \text{ W/m K}$ , and heat transfer coefficient $h = 45 \text{ W/m}^2 \text{ K}$ . find, if the junction is initially at a temperature of 28°C and inserted in a stream of hot air at 300°C; (i) time constant (ii) the TC is taken out from hot air after 10 sec and kept in still air at 30 °C. Assuming $h$ in air as $10 \text{ W/m}^2 \text{ K}$ , find the temperature attained by the junction 15 sec.	6	CO2	K3
<b>OR</b>				
2(a)	A short iron cylinder ( $K = 60 \text{ W/m K}$ , $\alpha = 1.6 \times 10^{-3} \text{ m}^2/\text{s}$ ) of diameter 5 cm and height 4 cm is initially at a uniform temperature of 225°C. Suddenly the boundary surfaces are exposed to ambient fluid at 25 °C with a heat transfer coefficient of 500 W/m <sup>2</sup> K. Calculate the centre temperature at 2 min after the start of cooling. Also calculate, the temperature at a 2 cm from the axis at $t=2\text{min}$ after the start of cooling.	6	CO2	K3

(b)	Assuming man as a cylinder of 45cm diameter and 1.72m high, with a surface temperature of 35°C, <b>find</b> the heat lost from his body while placing it in wind flowing at 20km/h at 17°C. use the relation $N_{ud} = 0.027R_{ed}^{0.805}P_r^{1/3}$	6	C04	K3
(c)	Air at 40°C flows over a thin plate with a velocity of 3m/sec. the plate is 2m long and 1m wide. <b>Estimate</b> the boundary layer thickness at the trailing edge of the plate and the total drag force experienced by the plate.	6	C02	K3
<b>PART-B</b>				
3(a)	<b>Derive</b> an expression for temperature distribution in a lumped system after deriving from heat balance equation	6	C02	K3
(b)	Using dimensional analysis, <b>derive</b> for Nusselt number in terms Grashoff's and Prandtl number for natural convection heat transfer.	6	C04	K3
<b>OR</b>				
4(a)	<b>Derive</b> an expression for heat transfer rate for a body subjected to heating or cooling with Biot and Fourier number.	6	C02	K3
(b)	Using dimensional analysis, <b>derive</b> for Nusselt number in terms Reynold's and Prandtl number for forced convection heat transfer.	6	C04	K3

  
 Name & Signature of  
 Course In charge  
 Dr. Nagaprasad KS

  
 Name & Signature of  
 Module Coordinator  
 Dr. Nagaprasad KS

  
 HOD ME  
 31/5/23

  
 Principal  
 Selected



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109  
SECOND SESSIONAL TEST 2022 - 23(ODD SEMESTER)


SCHEME AND SOLUTION (SET A)


Degree : BE  
Branch : ME  
Course Title : HEAT TRANSFER

Semester : VI  
Course Code : 18ME63  
Max Marks : 30

Q. No	SOLUTION	MARKS
	<b><u>PART-A</u></b>	
1(a)	Check Bi value $t = 126 \text{ sec}$	03 +03= 06
1(b)	$h = 21.2 \text{ W/m}^2 \text{ K};$ $Q = 922 \text{ W}$	03 +03=06
1(c)	Time constant = 1.4 sec; $T = 55^\circ\text{C}$	03+03= 06
2 (a)	$T_c = 170^\circ\text{C}$ $T_r = 153^\circ\text{C}$	03+ 03=06
2(b)	$h = 20.68 \text{ W/m}^2 \text{ K};$ $Q = 955.3 \text{ W}$	03+ 03 = 06
2(c)	$X = 12\text{mm};$ $F = 0.25 \text{ N}$	03+03= 06
	<b><u>PART-B</u></b>	
3 (a)	Assumption + diagram; derivation.	03+ 03 = 06
3(b)	Derivation; Significance	04+ 02= 06
4(a)	Assumption + diagram; derivation	03+ 03= 06
4(c)	Derivation; Significance	04+ 02= 06

  
Signature of Course In-charge

  
Module In-charge

  
31/5/23  
Head of the Department



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**SECOND SESSIONAL TEST 2022 - 23(ODD SEMESTER)**

**SCHEME AND SOLUTION (SET B)**

Degree : BE  
Branch : ME  
Course Title : HEAT TRANSFER

Semester : VI  
Course Code : 18ME63  
Max Marks : 30

Q. No	SOLUTION	MARKS
	<b><u>PART-A</u></b>	
1(a)	$t = 1116 \text{ sec};$ $Q = 210 \text{ W}$	03 +03= 06
1(b)	$U = 0.23 \text{ m/s};$ $Q = 20.15 \text{ W}$	03 +03=06
1(c)	$X = 1.23\text{mm};$ $X_h = 1.56\text{mm}$	03+03= 06
2 (a)	$T_c = 110^\circ\text{C}$ $T_r = 123^\circ\text{C}; Q = 15234 \text{ J}$	03+ 03=06
2(b)	$h = 20.68 \text{ W/m}^2 \text{ K};$ $Q = 955.3 \text{ W}$	03+ 03 = 06
2(c)	Check Bi; $t = 2356 \text{ sec}$	03+03= 06
	<b><u>PART-B</u></b>	
3 (a)	Assumption + diagram; derivation.	03+ 03 = 06
3(b)	Four parameters explain; Formula	04+ 02= 06
4(a)	Assumption + diagram; derivation	03+ 03= 06
4(b)	Four parameters explain; Formula + signifiace	04+ 02= 06

  
Signature of Course In-charge

  
Module In-charge

  
31/5/23  
Head of the Department



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022 - 23 EVEN SEMESTER**

Set B

USN									
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Degree : B.E  
 Branch : Mechanical Engineering  
 Course Title : HEAT TRANSFER  
 Duration : 90 Minutes

Semester : VI  
 Course Code : 18ME63  
 Date : 06-06-2023  
 Max Marks : 30

Note: 1. Answer ONE full question from each part.

2. Use of Heat transfer DATA HAND BOOK is permitted


K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating


Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	A 12mm diameter sphere at 540 <sup>0</sup> C is exposed to cooling air flow at 27 <sup>0</sup> C and heat transfer coefficient of 114 W/m <sup>2</sup> K. Check whether it is a lumped system? Find (i) The time required to cool the sphere from 540 <sup>0</sup> C to 27 <sup>0</sup> C (ii) Total heat transfer during the first two minutes. Properties of sphere are $\rho = 7850 \text{ kg/m}^3$ , $C=475 \text{ J/kgK}$ and $\alpha = 0.045 \text{ m}^2/\text{hr}$	6	CO2	K3
(b)	Water at a velocity of 1.5m/s enters a 2cm diameter tube at 40 <sup>0</sup> C. The heat exchanger tube wall is maintained at 100 <sup>0</sup> C. If the water is heated to a temperature of 80 <sup>0</sup> C in the tube, find the length of the tube required.	6	CO4	K3
(c)	Atmospheric air at 25 <sup>0</sup> C flows over the surface of a flat plate 1m long with a velocity of 5m/s. The plate is maintained at temperature of 75 <sup>0</sup> C, Determine velocity boundary layer thickness and thermal boundary layer thickness at the trailing edge.	6	CO2	K3
<b>OR</b>				
2(a)	A 5cm thick iron plate ( $\rho=7850 \text{ kg/m}^3$ , $C=460 \text{ J/kgK}$ and $K=60 \text{ W/m}^0\text{C}$ ) is initially at 225 <sup>0</sup> C. Suddenly both the surfaces are exposed to an ambient air at 25 <sup>0</sup> C with a heat transfer coefficient of 500 W/m <sup>2</sup> °C. Calculate (i) the centre temperature at t=2 min after the start of cooling (ii) the temperature at a depth of 1cm from the surface at t=2min after the start of cooling (iii)energy removed from plate per m <sup>2</sup> during this time.	6	CO2	K3
(b)	Air at 27 <sup>0</sup> C moving at 0.3m/s across 1000 W bulb which glows at 127 <sup>0</sup> C. If the bulb is approximated 60cm diameter sphere, estimate heat transfer rate and percentage power lost due to convection.	6	CO4	K3
(c)	An Aluminum sphere weighing 5.5 kg and initially at 290 <sup>0</sup> C is suddenly immersed in an fluid at 298 K. The convective heat transfer coefficient is 58 W/m <sup>2</sup> K. Estimate the time required to cool the aluminum to 95 <sup>0</sup> C.	6	CO2	K3




**PART-B**

3(a)	Using dimensional analysis, <b>derive</b> for Nusselt number in terms Reynold's and Prandtl number for forced convection heat transfer	6	C02	K3
(b)	<b>Identify</b> the need of biot number, Fourier number, Heisler chart, thermocouple junction in lumped system analysis.	6	C04	K3
<b>OR</b>				
4(a)	<b>Derive</b> an expression for temperature distribution in a lumped system after deriving from heat balance equation.	6	C02	K3
(b)	<b>Identify</b> any four dimensionless parameters in Natural convection analysis and explain their significance	6	C04	K3

  
Name & Signature of  
Course In charge  
(Dr. Nagaprasad KS)

  
Name & Signature of  
Module Coordinator  
(Dr. Nagaprasad KS)

  
3/5/23  
HOD ME

  
Principal



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022 - 23 EVEN SEMESTER**

Set A

USN									
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Degree : B.E  
 Branch : Mechanical Engineering  
 Course Title : HEAT TRANSFER  
 Duration : 90 Minutes


Semester : VI  
 Course Code : 18ME63  
 Date : 07-07-2023  
 Max Marks : 30

Note: 1. Answer ONE full question from each part.  
 2. Use of Heat transfer DATA HAND BOOK is permitted  
 K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	Assuming man as a vertical cylinder of 300mm diameter and 170cm high, with a surface temperature of 36°C and atmospheric temperature as 14°C, Calculate the heat lost from his body in one day.	6	C04	K3
(b)	A cross flow heat exchanger in which both the fluids are unmixed is used to heat water with an engine oil. Water enters at 30°C and leaves at 85°C at the rate of 1.5kg/s while engine oil with $C_p = 2.3 \text{ kJ/kg K}$ enters at 120°C with a mass flow rate of 3.5 kg/s. The heat transfer surface area is 30m <sup>2</sup> . Calculate the overall heat transfer coefficient using LMTD method.	6	C05	K3
(c)	Two large parallel plates with emissivity of 0.5 each are maintained at different temperatures and exchanging heat only by radiation. An equally large radiation shield of surface emissivity 0.05 is inserted parallel to the plates. Find the percentage reduction in heat transfer.	6	C05	K3
<b>OR</b>				
2(a)	A horizontal 40W tube which is 3.8cm in diameter and 120cm long is in still air at 20°C. If the surface temperature is 40°C, and radiation is neglected, find percentage of power is being dissipated by convection?	6	C04	K3
(b)	A counterflow heat exchanger is employed to cool 0.55kg/s ( $C_p = 2.45 \text{ kJ/kg K}$ ) of oil from 115°C by the use of water. The inlet and outlet temperature of cooling water are 15°C and 75°C respectively. The overall heat transfer coefficient is expected to be 1450 W/m <sup>2</sup> K. Using NTU method, calculate the following (i) mass flow rate of water (ii) Effectiveness of heat exchanger.	6	C05	K3
(c)	An enclosure measures 1.5m x 1.7m with a height of 2m. The walls and ceiling are maintained at 250° C and the floor at 130° C. The walls and ceiling have an emissivity of 0.82 and the floor 0.7. Determine the net radiation to the floor.	6	C05	K3

PART-B				
3(a)	Derive an expression for LMTD in case of parallel flow heat exchanger. State the assumptions made.	6	C05	K3
(b)	Explain; Wein's displacement Law, Stefan Boltzman's law, Kirchoff's law, Max Plank theory and View factor	6	C01	K2
OR				
4(a)	Derive an expression for LMTD for counter flow heat exchanger.	6	C05	K3
(b)	Explain the concept of black body, Irradiation and Radiation shield.	6	C01	K2

  
 Name & Signature of  
 Course In charge  
 (Dr. Nagaprasad KS)

  
 Name & Signature of  
 Module Coordinator  
 (Dr. Nagaprasad KS)

  
 HOD ME

  
 Principal



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**THIRD SESSIONAL TEST 2022 - 23(ODD SEMESTER)**

**SCHEME AND SOLUTION (SET A)**

**Degree : BE**  
**Branch : ME**  
**Course Title : HEAT TRANSFER**

**Semester : VI**  
**Course Code : 18ME63**  
**Max Marks : 30**

Q. No	SOLUTION	MARKS
	<b><u>PART-A</u></b>	
1(a)	$Gr = 8.18 \times 10^8$ $h = 6.17 \text{ W/m}^2 \text{ K}$	03 +03= 06
1(b)	Correction factor = 0.87 $U = 325.17 \text{ W/m}^2 \text{ K}$	03 +03=06
1(c)	$Q = 17.2 \text{ kW};$ 91.44%	03+03= 06
2 (a)	$Q = 21. \text{ W}$ 68%	03+ 03=06
2(b)	$m = 0.55 \text{ kg/s}$ $\epsilon = 0.7502$	03+ 03 = 06
2(c)	$F_{1-2} = 0.24$ $Q = 6582.2 \text{ W}$	03+03= 06
	<b><u>PART-B</u></b>	
3 (a)	Sketch + energy balance equation Final expression+ Assumptions	03+ 03 = 06
3(b)	Explanation; Formula	04+ 02= 06
4(a)	Sketch + energy balance equation Final expression	03+ 03= 06
4(c)	Explanation; Formula	04+ 02= 06



Signature of Course In-charge



Module In-charge



Head of the Department



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109  
THIRD INTERNAL TEST QUESTION PAPER 2022 - 23 EVEN SEMESTER

Set B

USN 

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Degree : B.E  
Branch : Mechanical Engineering  
Course Title : HEAT TRANSFER  
Duration : 90 Minutes

Semester : VI  
Course Code : 18ME63  
Date : 07-07-2023  
Max Marks : 30

Note: 1. Answer ONE full question from each part.

2. Use of Heat transfer DATA HAND BOOK is permitted

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	Using Buckingham's $\pi$ -theorem, derive an expression for Nusselt number in terms Reynold's and Prandtl number for free convection heat transfer.	6	CO4	K3
(b)	The flow rate of hot and cold water streams running through a parallel flow heat exchanger are 0.2kg/s and 0.5kg/s respectively. The inlet temperature on hot and cold sides are 75°C and 20°C respectively. The exit temperature of hot water is 45°C. If the individual heat transfer coefficients on both sides are 650W/m <sup>2</sup> °C. Calculate the area of heat exchanger.	6	CO5	K3
(c)	Prove that emissive power of black body is $\pi$ times intensity of radiation	6	CO5	K3
<b>OR</b>				
2(a)	Calculate the rate of convection heat transfer loss per unit length from a horizontal wire 1mm in diameter held at 127°C in 27°C air. Repeat for the case where the wire is held in carbon dioxide atmosphere.	6	CO4	K3
(b)	A heat exchanger have an effectiveness of 0.5 when the flow is counter flow and thermal capacity of one fluid is twice that as the other fluid. Calculate the effectiveness of heat exchanger, if the direction of flow of one of the fluid is reversed with the same mass flow rate as before.	6	CO5	K3
(c)	Two large parallel plates are at 1000 K and 800 K. Determine the heat exchange per unit area when, (i) The surfaces are black (ii) The hot surface has an emissivity of 0.9 and cold 0.6. (iii) A large plate of emissivity 0.1 is inserted between them. Also find the percentage reduction in heat transfer because of insertion of large plate.	6	CO5	K3

PART-B				
3(a)	Derive an expression for LMTD for counter flow heat exchanger.	6	C05	K3
(b)	Explain; Lamberts cosine law, Wein's displacement Law, Stefan Boltzman's law, Plank' law and View factor	6	C01	K2
OR				
4(a)	Derive an expression for LMTD in case of parallel flow heat exchanger. State the assumptions made.	6	C05	K3
(b)	Illustrate and prove Kirchoff's law of radiation	6	C01	K2



Name & Signature of  
Course In charge

(Dr. Nagaprasad KS)



Name & Signature of  
Module Coordinator

(Dr. Nagaprasad KS)



HOD ME



Principal

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**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**THIRD SESSIONAL TEST 2022 - 23(ODD SEMESTER)**

**SCHEME AND SOLUTION (SET B)**

**Degree : BE**  
**Branch : ME**  
**Course Title : HEAT TRANSFER**

**Semester : VI**  
**Course Code : 18ME63**  
**Max Marks : 30**

Q. No	SOLUTION	MARKS
	<b><u>PART-A</u></b>	
1(a)	Each term 2marks	02+02+ 02= 06
1(b)	LMTD = 29.118 <sup>0</sup> C A = 2.65 m <sup>2</sup>	03 +03=06
1(c)	Diagram; Proof with three integration	03+03= 06
2 (a)	h = 81.11 W/m <sup>2</sup> K h <sub>CO2</sub> = 89.13 W/m <sup>2</sup> K	03+ 03=06
2(b)	C <sub>h</sub> = 2 C <sub>c</sub> ; N = 0.8109 ε = 0.469	03+ 03 = 06
2(c)	Q = 1578.2 W/m <sup>2</sup> Q = 774 W/m <sup>2</sup>	03+03= 06
	<b><u>PART-B</u></b>	
3 (a)	Sketch + energy balance equation Final expression	03+ 03 = 06
3(b)	Explanation; Formula	04+ 02= 06
4(a)	Sketch + energy balance equation Final expression+ Assumptions	03+ 03= 06
4(c)	Explanation; Derivation	04+ 02= 06

Signature of Course In-charge

Module In-charge

Head of the Department



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

**SET: A**

USN

**Degree : B.E**  
**Branch : Mechanical Engg**

**Semester : VIII**

**Course : 18ME81**  
**Code**

**Course Title : Energy Engineering**  
**Duration : 90 Minutes**

**Date : 13/03/23**  
**Max Marks : 30**

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Explain hydraulic ash handling system with neat sketch	6	CO1	K2
(b)	With neat sketch Explain working principle of Lamont boiler	6	CO1	K2
(c)	Define cooling tower and Explain the principle of operation hyperbolic cooling tower, with neat a sketch	6	CO1	K2
<b>OR</b>				
2(a)	With neat sketch Explain any two coal handling system	6	CO1	K2
(b)	Explain briefly about i) Economiser iii) Air preheater	6	CO1	K2
(c)	Sketch and Explain the Benson boiler	6	CO1	K2
<b>PART-B</b>				
3(a)	Explain the following terms: i) Solar constant ii) Direct radiation iii) diffused radiation iv) Extra terrestrial radiation	6	CO2	K2
(b)	Calculate sun altitude angle ( $\alpha$ ) and solar azimuth angle ( $\gamma_s$ ) on August 1 <sup>st</sup> for location at 40°N latitude at 7.30 am solar time	6	CO2	K3
<b>OR</b>				
4(a)	Classify solar radiation measuring instruments. Explain any one of instrument with sketch	6	CO2	K2
(b)	Calculate the local Solar time (LST) and declination at a location latitude 28°15'N, longitude 77°30'E at 12.30 (IST) on July 19, The equation of time correction is on July 19 is (-1'01'') (IST) is the local civil time corresponding to 82.5°E longitude	6	CO2	K3

**PRAJADK**  
Name & Signature of  
Course In charge:

Name & Signature of  
Module Coordinator:  
(Dr. Nagaprasad KS)

Name & Signature of  
HOD/ME

Name & Signature of  
Principal






K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109  
I SESSIONAL TEST 2022 - 23 EVEN SEMESTER  
SCHEME AND SOLUTION

Degree : B.E  
Branch : MECHANICAL ENGG  
Course Title : Energy Engg

Semester : VIII  
Course Code : 18ME81  
Max Marks : 30

SET-A

Q.NO.	POINTS	MARKS
1 (a)	Sketch Explanation.	6
(b)	Sketch Explanation	6
(c)	Definition. Sketch Explanation	6
2 (a)	Each Sketch 1 Each Explanation 2	6
(b)	Each Sketch 1 Each Explanation 2	6
(c)	Sketch Explanation.	6
3 (a)	Each Explanation $\times 1\frac{1}{2}$	6
(b)	LAT = 13hr 2min 48sec $\delta = 21^{\circ} 21' 13''$	6
4 (a)	Classification - 02 Sketch - 02 Explanation - 02	6
(b)	$\delta = 17.9^{\circ}$ $2 = 28.46'$ $\gamma_s = 89.12$	6

  
Signature of Course Incharge

  
Signature of HOD



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

**SET: B**

USN

Degree : B.E  
Branch : Mechanical Engg

Semester : VIII

Course : 18ME81

Code

Course Title : Energy Engineering

Date : 13/03/23

Duration : 90 Minutes

Max Marks : 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	With neat sketch <b>Explain</b> following coal handling system i) Bucket elevators ii) Screw conveyers	6	CO1	K2
(b)	Draw the line diagram of pneumatic ash handling system and <b>Explain</b> the difficulties encountered in its design and operations	6	CO1	K2
(c)	<b>Explain</b> with a neat sketch, working of Vortex boiler	6	CO1	K2
<b>OR</b>				
2(a)	With neat sketch <b>Explain</b> working principle of Lamont boiler	6	CO1	K2
(b)	<b>Explain</b> the following cooling towers : i) Natural draft ii) Forced draft	6	CO1	K2
(c)	<b>Explain</b> briefly about i) Super heater iii) Air preheater	6	CO1	K2
<b>PART-B</b>				
3(a)	<b>Explain</b> with proper sketch about solar P-V conversion system	6	CO2	K2
(b)	<b>Calculate</b> the local Solar time ( LST) and declination at a location latitude $28^{\circ}15'N$ , longitude $77^{\circ}30'E$ at 12.30 (IST) on July 19 ,The equation of time correction is on July 19 is $(-1'01'')$ (IST) is the local civil time corresponding to $82.5^{\circ}E$ longitude	6	CO2	K3
<b>OR</b>				
4(a)	<b>Explain</b> the following terms : i) Solar constant ii) Direct radiation iii) diffused radiation iv) Extra terrestrial radiation v) Solar azimuth angle vi) Zenith angle	6	CO2	K2
(b)	<b>Calculate</b> sun altitude angle ( $\alpha$ ) and solar azimuth angle ( $\gamma_s$ ) on August 1 <sup>st</sup> for location at $40^{\circ}N$ latitude at 7.30 am solar time	6	CO2	K3

PRASAD K  
Name & Signature of  
Course In charge:

Name & Signature of  
Module Coordinator:  
(Dr. Nagaprasad KS)

HOD ME

Principal  
Selected.



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109  
I SESSIONAL TEST 2022 - 23 EVEN SEMESTER  
SCHEME AND SOLUTION

Degree : B.E  
Branch : MECHANICAL ENGG  
Course Title : Energy Engg

Semester : VIII  
Course Code : 18ME81  
Max Marks : 30

SET-B

Q.NO.	POINTS	MARKS
1 (a)	Each Explanation x 2 = 06 Each Sketch x 1 = 02	6
(b)	Sketch - 03 Explanation - 03	6
(c)	Sketch - 03 Explanation - 03	6
2 (a)	Sketch - 03 Explanation - 03	6
(b)	Each Explanation $2 \times 2 = 4$ Each Sketch $1 \times 2 = 02$	6
(c)	Each Sketch $1 \times 2 = 2$ Each Explanation $2 \times 2 = 4$	6
3 (a)	Sketch - 3, Explanation - 3	6
(b)	$\delta = 17.9^\circ$ $\alpha = 28.46$ $\gamma_s = 89.12$	6
4 (a)	Each Explanation $1 \times 6 = 6$	6
(b)	LAT = 13 hr 2 min 48 sec $\delta = 21^\circ 21' 13''$	6

  
Signature of Course incharge

  
Signature of HOD



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

**SET: A**

USN

Degree : B.E  
Branch : Mechanical Engg

Semester : VIII

Course : 18ME81  
Code

Course Title : Energy Engineering  
Duration : 90 Minutes

Date : 17/04/23  
Max Marks : 30

Note: Answer **ONE** full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	With neat sketch, <b>Explain</b> the working of "flash steam open type system" geothermal plant	6	CO3	K2
(b)	<b>Explain</b> the method of harnessing tidal energy	6	CO3	K2
(c)	Wind at 1 standard atmospheric pressure and 20 <sup>0</sup> C has velocity of 12 m/s. The turbine has diameter of 120 m and operating speed in 40 rpm at maximum efficiency. <b>Calculate</b> i) Total power density ii) Maximum power density iii) Obtainable power density assuming $\eta = 35\%$ iv) Total power v) Total torque	6	CO3	K3
<b>OR</b>				
2(a)	With a neat sketch, <b>Explain</b> the working of hot dry rock geothermal plant	6	CO3	K2
(b)	What are the advantage and limitation of Tidal power generation	6	CO3	K2
(c)	<b>Prove that</b> in case of horizontal axis wind turbine maximum power $P_{max} = 8/27 (\rho AV^3)$	6	CO3	K3
<b>PART -B</b>				
3(a)	How gasifiers are classified? With neat sketch <b>Explain</b> the working of up draught gasifier.	6	CO4	K2
(b)	What are factors affecting biogas generation? <b>Explain</b> briefly	6	CO2	K2
<b>OR</b>				
4(a)	With a neat Sketch, explain the construction and working of KVIC digester	6	CO4	K2
(b)	<b>Write the short notes</b> on i) Anaerobic digestion ii) fermentation iii) Photosynthesis.	6	CO2	K2

Name & Signature of  
Course In charge

Name & Signature of  
Module Coordinator

(Dr. Nagesh Kumar)

HOD ME

Principal



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109  
II SESSIONAL TEST 2022 - 23 ODD SEMESTER

## SCHEME AND SOLUTION

Degree : B.E  
Branch : Mechanical Engineering  
Course Title : Energy Engineering

Semester : V/II  
Course Code : 18ME81  
Max Marks : 30

Q.NO.	POINTS	MARKS
1 (a)	Sketch - 03 Explanation - 03	06
b)	Each sketch - 01 Each Explanation - 02	06
(c)	$\rho_a = P/\rho_T = 1.226 \text{ kg/m}^3$ - 01 power density: $\frac{P}{A} = 615 \text{ W/m}^3$ - 01 $\frac{P_m}{A} = \frac{8}{27} \rho_a V^3$ - 01 Total power: 2273.15 - 01 $T_{max} = \frac{2 \rho_a D V^2}{27 \times N} = 5000 \text{ N}$ - 02 Sketch - 03 Explanation - 03	06
2 (a)	Sketch - 03 Explanation - 03	06
(b)	Each Advantage and Disadvantage - 01 x 6	06
(c)	$P_i = \rho A v + \frac{v_i^2}{2}$ , $P_a = \rho A v + \frac{v_a^2}{2}$ - 01 $m = \rho A v_i$ - 01 $F_x = \rho A v (v_i - v_e)$ - 01 $P = \frac{1}{4} \rho A (v_i + v_e) (v_i^2 - v_e^2)$ - 01 $P_{max} = \frac{8}{27} \rho A v_i^3$ - 02	06

3 (a)	Anaerobic digestion - 02 Fermentation - 02 photosynthesis - 02	06
(b)	classification - 02 sketch - 02 explanation - 02	06
4 (a)	sketch - 03 explanation - 03	06
(b)	photosynthesis - 03 Energy plantations - 03	06

  
 Course In charge

  
 Module Coordinator

  
 HOD/ME



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

**SET: B**

USN

Degree : B.E  
Branch : Mechanical Engg

Semester : VIII

Course : 18ME81  
Code

Course Title : Energy Engineering  
Duration : 90 Minutes

Date : 17/04/23  
Max Marks : 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	With neat sketch, Explain the working of vapour dominated- total flow concept geothermal plant	6	CO3	K2
(b)	With neat sketch Explain the following: i) single basin tidal plant ii) double basin tidal plant	6	CO3	K2
(c)	Prove that in case of horizontal axis wind turbine maximum power $P_{max} = 8/27 (\rho AV^3)$	6	CO3	K3
<b>OR</b>				
2(a)	Explain with neat sketch how geothermal energy is extracted from the earth	6	CO3	K2
(b)	Discuss advantages and disadvantages of tidal power plant	6	CO3	K2
(c)	Wind at 1 standard atmospheric pressure and 15°C has velocity of 16 m/s. The turbine has diameter of 115m and operating speed in 40 rpm at maximum efficiency. Calculate i) Total power density ii) Maximum power density iii) Obtainable power density assuming $\eta = 35\%$ iv) Total power v) Total torque	6	CO3	K3
<b>PART-B</b>				
3(a)	Write the short notes on i) Anaerobic digestion ii) fermentation iii) Photosynthesis	6	CO2	K2
(b)	How gasifiers are classified? With neat sketch Explain the working of down draught gasifier.	6	CO2	K2
<b>OR</b>				
4(a)	With a neat sketch, Explain the working principle of Janta biogas digester	6	CO2	K2
(b)	Write short notes on i) photosynthesis ii) Energy plantation	6	CO2	K2

Name & Signature of  
Course In charge  
(PRASADK)

Name & Signature of  
Module Coordinator  
(Dr. Nagapriya KS)

Name & Signature  
MOD ME

Name & Signature  
Principal  
Selected



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109  
II SESSIONAL TEST 2022 - 23 ODD SEMESTER

## SCHEME AND SOLUTION

Degree : B.E  
Branch : Mechanical Engineering  
Course Title : Energy Engineering

Semester : VIII  
Course Code : 18ME81  
Max Marks : 30

Q.NO.	POINTS	MARKS
1 (a)	Sketch - 03 Explanation - 03	06
b)	Sketch - 03 Explanation - 03	06
(c)	$P_1 v + \frac{v_1^2}{2} = P_2 v + \frac{v_2^2}{2} \quad \dots 1$ $m = \rho A v_1 \quad \dots 1$ $F_T = \rho A v_T (v_1 - v_2) \quad \dots 1$ $P = \frac{1}{4} \rho A (v_1 + v_2) (v_1^2 - v_2^2) \quad \dots 1$ $P_{max} = \frac{8}{27} \rho A v_1^3 \quad \dots 1$	06
2 (a)	Sketch - 03 Explanation - 03	06
(b)	Sketch - 03 Explanation - 03	06
(c)	$\rho_a = \frac{P}{RT} = \frac{1.013}{0.287} \times \frac{100}{288} = 1.226 \text{ kg/m}^3 \quad \dots 1$ $\text{Power density } \frac{P}{A} = \rho_a v^2 = 2068 \text{ W/m}^2 \quad \dots 1$ $\frac{P_{opt}}{A} = \frac{8}{27} \rho_a v^3 = 12226 \text{ W/m}^3 \quad \dots 2$	06



	$T_{max} = \frac{2f_4 DV^2}{272N} = 55170N - 02$	06
3 (a)	Sketch - 03 Explanation - 03	
(b)	Sketch - 03 Explanation - 03	06
4 (a)	Sketch - 03 Explanation - 03	06
(b)	Sketch - 03 Explanation - 03.	06

Course In charge

Module Coordinator

HOD/ME



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

**SET: A**

USN 

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Degree : B.E  
 Branch : Mechanical Engg

Semester : VIII

Course : 18ME81  
 Code

Course Title : Energy Engineering  
 Duration : 90 Minutes

Date : 11/04/23  
 Max Marks : 30

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level																																							
<b>PART-A</b>																																											
1(a)	How are the Hydro-electric power plant Classified With a neat Sketch Explain the pumped storage plant.	6	CO4	K2																																							
(b)	With a neat sketch Explain the closed cycle OTEC plant	6	CO4	K2																																							
(c)	At a particular site the mean discharge (in millions of m <sup>3</sup> ) of a river in 12 months from January to December 30,25,20,0,10,50,80,100,110,65,45 and 30 respectively. Draw the flow duration curve on graph sheet. Also Estimate the power developed in MW if the available head is 90m and the overall efficiency of generation is 87.4%. Assume each month of 30 days.	6	CO4	K3																																							
<b>OR</b>																																											
2(a)	Explain the following terms related to hydro electric power plant i) Pen stock ii) water hammer iii) Surge tank	6	CO4	K2																																							
(b)	With a neat sketch Explain the open cycle OTEC plant	6	CO4	K2																																							
(c)	The run-off data of 2 rivers for 12 months is tabulated below .Run-off is given in million of m <sup>3</sup> /month.	6	CO4	K3																																							
	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Month</th> <th>Jan</th> <th>Feb</th> <th>March</th> <th>April</th> <th>May</th> <th>June</th> <th>July</th> <th>Aug</th> <th>Sep</th> <th>Oct</th> <th>Nov</th> <th>Dec</th> </tr> </thead> <tbody> <tr> <td>River-A</td> <td align="center">40</td> <td align="center">30</td> <td align="center">20</td> <td align="center">15</td> <td align="center">10</td> <td align="center">80</td> <td align="center">140</td> <td align="center">120</td> <td align="center">100</td> <td align="center">60</td> <td align="center">50</td> <td align="center">40</td> </tr> <tr> <td>River-B</td> <td align="center">50</td> <td align="center">50</td> <td align="center">40</td> <td align="center">40</td> <td align="center">40</td> <td align="center">90</td> <td align="center">100</td> <td align="center">100</td> <td align="center">80</td> <td align="center">70</td> <td align="center">60</td> <td align="center">70</td> </tr> </tbody> </table>				Month	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec	River-A	40	30	20	15	10	80	140	120	100	60	50	40	River-B	50	50	40	40	40	90	100	100	80	70	60	70
	Month				Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec																											
River-A	40	30	20	15	10	80	140	120	100	60	50	40																															
River-B	50	50	40	40	40	90	100	100	80	70	60	70																															
Using the above data Find i) Ratio of run- off of two rivers, if runoff is constant for 40% time of the year. ii) If constant run off is 80% time of total year, then which river site is more preferable for run-off plant and why.iii) Which site is more preferable for storage type plant and why.																																											
<b>PART -B</b>																																											
3(a)	with help of a neat diagram, explain the working of pressurized water reactor	6	CO5	K2																																							
(b)	Explain i) Multiplication factor ii) Disposal of radioactive wastes	6	CO5	K2																																							
<b>OR</b>																																											
4(a)	With a neat sketch explain the working of fast Breeder reactor state its advantage and disadvantage	6	CO5	K2																																							
(b)	Explain i) Thermal utilization factor ii) Radiation hazards	6	CO5	K2																																							

Name & Signature of  
 Course In charge

Name & Signature of  
 Module Coordinator  
 (Dr. Nayaprasad Ks)

Name & Signature  
 HOD ME

Name & Signature  
 Principal  
 Selected



**+K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

**SET: B**

USN									
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**Degree : B.E**  
**Branch : Mechanical Engg**

**Semester : VIII**

**Course : 18ME81**

**Code**

**Date : 11/05/23**

**Max Marks : 30**

**Course Title : Energy Engineering**  
**Duration : 90 Minutes**

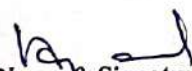
Note: Answer ONE full question from each part.


K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level																																			
<b>PART-A</b>																																							
1(a)	Classify the draft tubes and function of draft tube.	6	CO4	K2																																			
(b)	With a neat sketch Explain the Claude cycle(open)- GTEC plant	6	CO4	K2																																			
(c)	The run-off data of 2 rivers for 12 months is tabulated below .Run-off is given in million of m <sup>3</sup> /month.	6	CO4	K3																																			
	<table border="1"> <thead> <tr> <th>Month</th> <th>Jan</th> <th>Feb</th> <th>Mar</th> <th>Apr</th> <th>May</th> <th>June</th> <th>July</th> <th>Aug</th> <th>Sep</th> <th>Oct</th> <th>Nov</th> <th>Dec</th> </tr> </thead> <tbody> <tr> <td>River-A</td> <td>50</td> <td>30</td> <td>20</td> <td>15</td> <td>10</td> <td>80</td> <td>140</td> <td>120</td> <td>100</td> <td>60</td> <td>50</td> <td>40</td> </tr> <tr> <td>River-B</td> <td>50</td> <td>50</td> <td>40</td> <td>40</td> <td>40</td> <td>90</td> <td>100</td> <td>100</td> <td>80</td> <td>70</td> <td>60</td> <td>70</td> </tr> </tbody> </table>				Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	River-A	50	30	20	15	10	80	140	120	100	60	50	40	River-B	50	50	40	40	40	90	100	100
Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec																											
River-A	50	30	20	15	10	80	140	120	100	60	50	40																											
River-B	50	50	40	40	40	90	100	100	80	70	60	70																											
Using the above data Find i) Ratio of run- off of two rivers, if runoff is constant for 40% time of the year. ii) If constant run off is 80% time of total year, then which river site is more preferable for run-off plant and why.iii) Which site is more preferable for storage type plant and why.																																							
<b>OR</b>																																							
2(a)	Differentiate between: i)pond age and storage ii) Base load plant and peak load plant	6	CO4	K2																																			
(b)	With a neat diagram Explain the working principle of Rankine cycle –OTEC power plant	6	CO4	K2																																			
(c)	The runoff data for a river at a particular site is tabulated as below Draw hydrograph and Calculate power in MW available at mean flow if the head available is 80 m and overall efficiency of generator is 85% .take a each month 30 days ( Refer Table No1)	6	CO4	K3																																			
<b>PART –B</b>																																							
3(a)	Explain the boiling water reactor with a neat sketch	6	CO5	K2																																			
(b)	Explain about disposal of solid, liquid and gaseous wastes produced by Nuclear power plant	6	CO5	K2																																			
<b>OR</b>																																							
4(a)	With help of a neat diagram, Explain the working of Liquid metal cooled reactor(sodium graphite reactor)	6	CO5	K2																																			
(b)	Differentiate between Nuclear fusion and Nuclear fission	6	CO5	K2																																			

Table No1

Month	Discharge in millions of m <sup>3</sup> / month
January	40
February	25
March	20
April	10
May	0
June	50
July	75
August	100
September	110
October	60
November .	50
December	40

  
Name & Signature of  
Course In charge

  
Name & Signature of  
Module Coordinator  
(Dr. Nayyaz Hussain)

  
HOD ME

  
Principal



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

**SET: A**

USN

Degree : B.E  
Branch - Stream : ME-ME  
Course Title : Fluid Mechanics  
Duration : 60 Minutes


Semester : IV  
Course Type / Code : Integrated/21ME43  
Date : 27/06/2023  
Max Marks : 20

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Define the following terms: i) Absolute pressure ii) Gauge pressure iii) Simple manometer iv) differential manometer.	4	CO1	K2
(b)	Explain briefly the working principle of Bourdon pressure gauge with a neat sketch.	4	CO1	K2
(c)	The left limb of a mercury U-tube manometer is open to atmosphere and the right limb is connected to a pipe carrying water under pressure. The centre of the pipe is at the level of the free surface of mercury. Find the difference in level of mercury limbs of U-tube if the absolute pressure of water in the pipe is 14.5 m of water, atmospheric pressure is 760 mm of Hg.	4	CO1	K3
<b>OR</b>				
2(a)	Derive an expression for total pressure and centre of pressure on inclined plane surface completely submerged in static mass of fluid.	8	CO1	K3
(b)	An equilateral triangle of side 2.5 m is immersed completely in water with one of its axis of symmetry parallel to the water surface. Its top edge is at 1 m below free surface of water. Determine the total pressure and position of centre of pressure.	4	CO1	K3
<b>PART -B</b>				
3(a)	Obtain an expression for the force exerted by a jet of water on a fixed vertical plate in the direction of the jet	4	CO2	K3
(b)	A jet of water of diameter 50 mm moving with a velocity of 40 m/s, strikes a curved fixed symmetrical plate at the centre. Find the force exerted by the jet of water in the direction of the jet, if the jet is deflected through an angle of 120° at the outlet of the curved plate.	4	CO2	K3
<b>OR</b>				
4(a)	Derive an expression for the force exerted by a jet of water on a moving curved plate in the direction of the jet.	4	CO2	K3
(b)	A jet of water of diameter 10 cm strikes a flat plate normally with a velocity of 15 m/s. The plate is moving with a velocity of 6 m/s in the direction of the jet and away from the jet. Find: i) the force exerted by the jet on the plane. ii) work done by the jet on the plate per second.	4	CO2	K3

  
Name & Signature  
of Course In charge

  
Name & Signature of  
Module Coordinator  
(Dr. Nagaprasad KS)

  
HOD

  
Principal

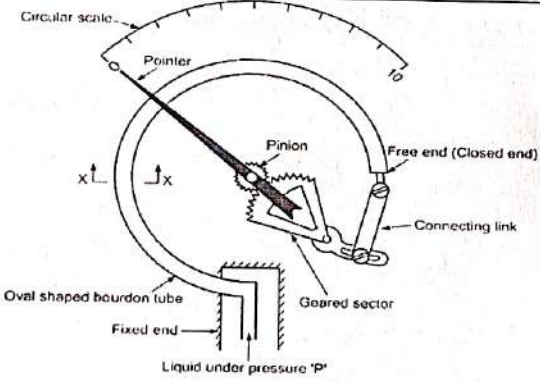
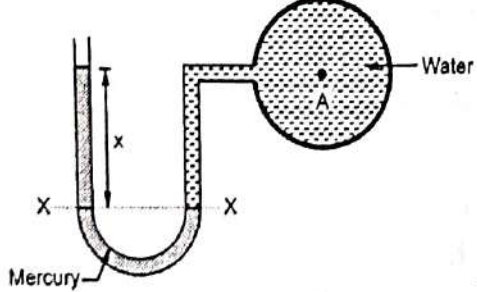


**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**FIRST SESSIONAL TEST 2022 - 23 (EVEN SEMESTER)**

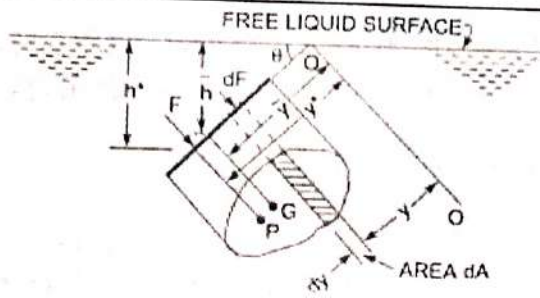
**SCHEME AND SOLUTION (SET A)**

Degree : B.E  
 Branch-Stream : ME -ME  
 Course Title : Fluid Mechanics

Semester : IV  
 Course Type / Code : Integrated/21ME43  
 Max Marks : 20

Q.No	SOLUTION	MARKS
1(a)	<p align="center"><b><u>PART-A</u></b></p> <p><b>Absolute pressure</b> is the pressure of having no matter inside a space, or a perfect vacuum</p> <p><b>Gauge pressure</b> is the pressure relative to atmospheric pressure. For the pressures above atmospheric pressure, gauge pressure is positive. For the pressures below atmospheric pressure, gauge pressure is negative.</p> <p>A <b>simple manometer</b> consists of a tubular arrangement where one end of the tube is connected to the point in the fluid, whose pressure is to be determined and the other end is kept open to the atmosphere.</p> <p><b>Differential Manometers</b> are devices used for measuring the difference of pressure between two points in a pipe or in two different pipes</p>	04X01=04
1(b)	 <p align="right">Sketch-02 Explanation-02</p>	04
1(c)	 $P_{abs} = 9810 \times 14.5 = 142.245 \times 10^3 \text{ N/m}^2 \text{---} 1/2$ $P_{atm} = 13.6 \times 9810 \times 0.76 = 101.3961 \times 10^3 \text{ N/m}^2 \text{---} 1/2$ $P_{abs} = P_{gauge} + P_{atm}$ $P_{gauge} = P_A = 142.245 \times 10^3 - 101.3961 \times 10^3 = 40.8488 \times 10^3 \text{ N/m}^2 \text{---} 01$ $X = 0.3304 \text{ m---} 02$	04

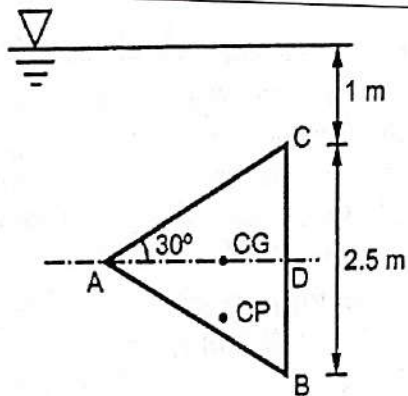
2 (a)



Sketch--- 02  
 $F = \rho g A \bar{h}$  --- 03  
 $h^* = \frac{I_G \sin^2 \theta}{A \bar{h}} + \bar{h}$  ---03

08

2(b)

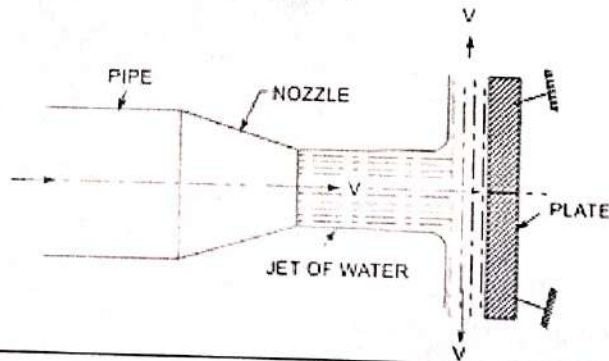


Sketch--- 01  
 $P = 59.7354 \times 10^3 \text{ N}$  --- 01  
 $\bar{x} = 2.3657 \text{ m}$  --- 02

04

3 (a)

**PART-B**



04

$$\begin{aligned}
 F_x &= \text{Rate of change of momentum in the direction of force} \\
 &= \frac{\text{Initial momentum} - \text{Final momentum}}{\text{Time}} \\
 &= \frac{(\text{Mass} \times \text{Initial velocity}) - (\text{Mass} \times \text{Final velocity})}{\text{Time}} \\
 &= \frac{\text{Mass}}{\text{Time}} [\text{Initial velocity} - \text{Final velocity}] \\
 &= (\text{Mass/sec}) \times (\text{velocity of jet before striking} - \text{velocity of jet after striking}) \\
 &= \rho a V [V - 0] \quad (\because \text{mass/sec} = \rho \times a V) \\
 &= \rho a V^2
 \end{aligned}$$

Skech--- 02  
Derivation--- 02

3(b)

Diameter of the jet,  $d = 50 \text{ mm} = 0.05 \text{ m}$

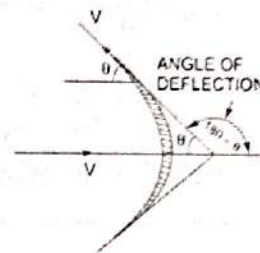
$\therefore$  Area,  $a = \frac{\pi}{4} (.05)^2 = 0.001963 \text{ m}^2$

Velocity of jet,  $V = 40 \text{ m/s}$

Angle of deflection  $= 120^\circ$

the angle of deflection  $= 180^\circ - \theta$

$\therefore 180^\circ - \theta = 120^\circ$  or  $\theta = 180^\circ - 120^\circ = 60^\circ$

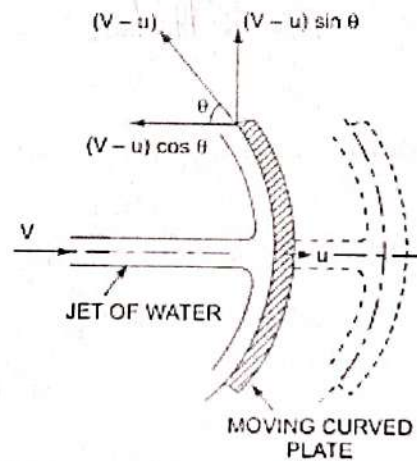


Force exerted by the jet on the curved plate in the direction of the jet is given by

$$\begin{aligned}
 F_x &= \rho a V^2 [1 + \cos \theta] \\
 &= 1000 \times .001963 \times 40^2 \times [1 + \cos 60^\circ] = 4711.15 \text{ N.}
 \end{aligned}$$

04

4(a)



04



	<p>Mass of the water striking the plate = <math>\rho \times a \times \text{Velocity with which jet strikes the plate}</math>  <math>= \rho a(V - u)</math></p> <p><math>\therefore</math> Force exerted by the jet of water on the curved plate in the direction of the jet,  <math>F_x = \text{Mass striking per sec} \times [\text{Initial velocity with which jet strikes the plate in the direction of jet} - \text{Final velocity}]</math>  <math>= \rho a(V - u) [(V - u) - (- (V - u) \cos \theta)]</math>  <math>= \rho a(V - u) [(V - u) + (V - u) \cos \theta]</math>  <math>= \rho a(V - u)^2 [1 + \cos \theta]</math></p> <p>Work done by the jet on the plate per second  <math>= F_x \times \text{Distance travelled per second in the direction of jet}</math>  <math>= F_x \times u = \rho a(V - u)^2 [1 + \cos \theta] \times u</math>  <math>= \rho a(V - u)^2 \times u [1 + \cos \theta]</math></p> <p style="text-align: right;">Skech--- 02  Derivation--- 02</p>	
4(b)	<p><math>d = 10 \text{ cm} = 0.1 \text{ m}</math>  <math>a = 0.007854 \text{ m}^2</math>  <math>V = 15 \text{ m/s}, u = 6 \text{ m/s}</math>  <math>F_x = \rho a(V - u)^2 = 636.17 \text{ N} \text{ ---- } 02</math>  <math>W.D = F_x \times u = 3817.02 \text{ N-m/s} \text{ ---- } 02</math></p>	04

  
Signature of Course In-charge

  
Module In-charge

  
Head of the Department



K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109  
FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

SET: B

Degree : B.E  
Branch - Stream : ME-ME  
Course Title : Fluid Mechanics  
Duration : 60 Minutes

USN

Semester : IV  
Course Type / Code : Integrated/21ME43  
Date : 27/06/2023  
Max Marks : 20

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Define the following terms: i) Buoyancy ii) Centre of buoyancy iii) Meta-centre iv) Meta-centric height.	4	CO1	K2
(b)	Explain the stability of floating bodies.	4	CO1	K2
(c)	The left limb of a mercury U-tube manometer is open to atmosphere and the right limb is connected to a pipe carrying water under pressure. The centre of the pipe is at the level of the free surface of mercury. Find the difference in level of mercury limbs of U-tube if the absolute pressure of water in the pipe is 14.5 m of water, atmospheric pressure is 760 mm of Hg.	4	CO1	K3
<b>OR</b>				
2(a)	Derive an expression for total pressure and centre of pressure for a vertically immersed surface.	8	CO1	K3
(b)	A triangular plate of 1 m base and 1.5 m altitude is immersed in water. The plane of the plate is 30° with free water surface and base is parallel to and at a depth of 2 m from water surface. Find the total pressure on the plate and the position of centre of pressure.	4	CO1	K3
<b>PART -B</b>				
3(a)	Derive an expression for the force exerted by a jet of water on a fixed curved plate in the direction of the jet	4	CO2	K3
(b)	A jet of water of diameter 50 mm moving with a velocity of 40 m/s, strikes a curved fixed symmetrical plate at the centre. Find the force exerted by the jet of water in the direction of the jet, if the jet is deflected through an angle of 120° at the outlet of the curved plate.	4	CO2	K3
<b>OR</b>				
4(a)	Obtain an expression for the force exerted by a jet of water on a moving flat plate in the direction of the jet.	4	CO2	K3
(b)	A jet of water of diameter 10 cm strikes a flat plate normally with a velocity of 15 m/s. The plate is moving with a velocity of 6 m/s in the direction of the jet and away from the jet. Find: i) the force exerted by the jet on the plane. ii) work done by the jet on the plate per second.	4	CO2	K3

Name & Signature  
of Course In charge

Name & Signature of  
Module Coordinator  
C.D. Nagaprasad (KS)

Name & Signature  
HOD

Name & Signature  
Principal

Selected



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**FIRST SESSIONAL TEST 2022 - 23 (EVEN SEMESTER)**

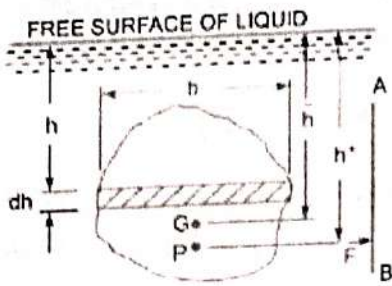
**SCHEME AND SOLUTION (SET B)**

Degree : B.E  
 Branch-Stream : ME -ME  
 Course Title : Fluid Mechanics

Semester : IV  
 Course Type / Code : Integrated/2IME43  
 Max Marks : 20

Q. No	SOLUTION	MARKS
	<b><u>PART-A</u></b>	
1(a)	<p><b>Buoyancy</b> is the tendency of an object to float in a fluid</p> <p>The <b>centre of buoyancy</b> is the centre of gravity of the volume of water displaced by the body when immersed in the water.</p> <p>The <b>metacentre</b> remains directly above the centre of buoyancy regardless of the tilt of a floating body, such as a ship</p> <p>The <b>meta-centric height</b> is a measurement of the initial static stability of a floating body. It is calculated as the distance between the centre of gravity of a ship and its metacentre.</p>	04X01= 04
1(b)	<p>(a) Stable equilibrium <math>M</math> is above <math>G</math></p> <p>(b) Unstable equilibrium <math>M</math> is below <math>G</math>.</p> <p align="right">Sketch-02 Explanation-02</p>	04
1(c)	$P_{abs} = 9810 \times 14.5 = 142.245 \times 10^3 \text{ N/m}^2 \text{---} 1/2$ $P_{atm} = 13.6 \times 9810 \times 0.76 = 101.3961 \times 10^3 \text{ N/m}^2 \text{---} 1/2$ $P_{abs} = P_{gauge} + P_{atm}$ $P_{gauge} = P_A = 142.245 \times 10^3 - 101.3961 \times 10^3 = 40.8488 \times 10^3 \text{ N/m}^2 \text{---} 01$ $X = 0.3304 \text{ m} \text{---} 02$	04

2 (a)



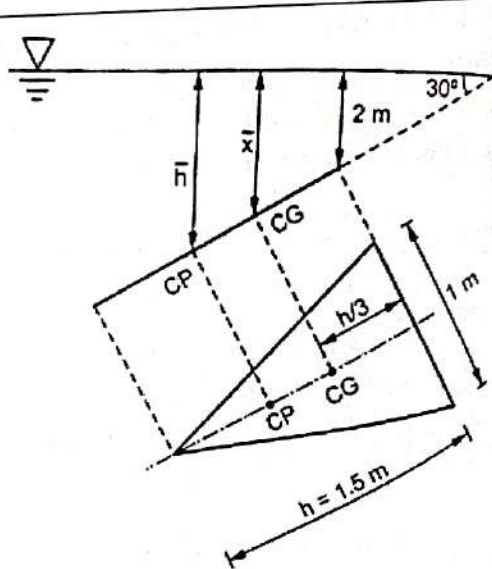
Sketch--- 02

$$F = \rho g A \bar{h} \quad \text{--- 03}$$

$$h^* = \frac{I_G + A\bar{h}^2}{A\bar{h}} = \frac{I_G}{A\bar{h}} + \bar{h} \quad \text{---03}$$

08

2(b)



Sketch--- 01

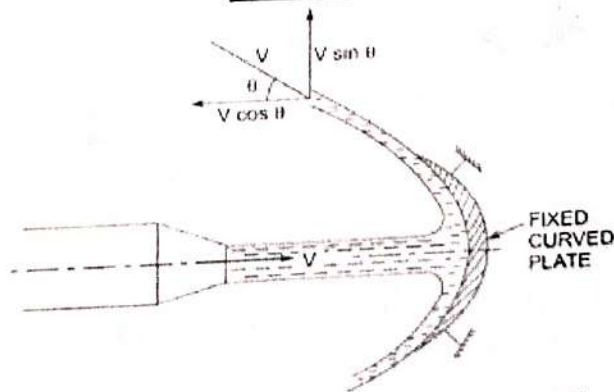
$$P = 16.5543 \times 10^3 \text{ N} \quad \text{--- 01}$$

$$\bar{h} = 2.2638 \text{ m} \quad \text{--- 02}$$

04

3 (a)

PART-B

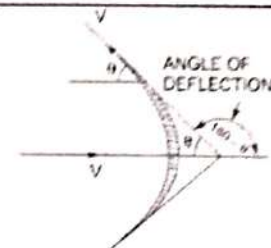
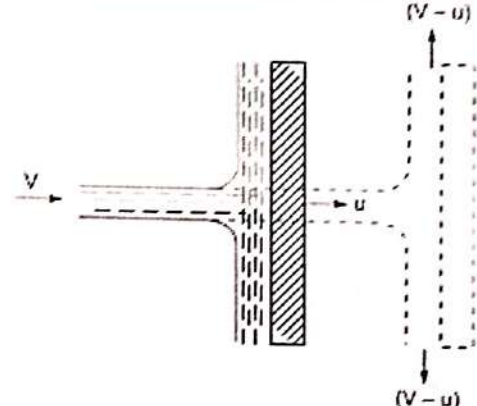


$$F_x = \rho a V [V - (-V \cos \theta)] = \rho a V [V + V \cos \theta]$$

$$= \rho a V^2 [1 + \cos \theta]$$

Skech--- 02  
Derivation--- 02

04

3(b)	<p>Diameter of the jet, <math>d = 50 \text{ mm} = 0.05 \text{ m}</math></p> <p><math>\therefore</math> Area, <math>a = \frac{\pi}{4} (.05)^2 = 0.001963 \text{ m}^2</math></p> <p>Velocity of jet, <math>V = 40 \text{ m/s}</math></p> <p>Angle of deflection <math>= 120^\circ</math></p> <p>the angle of deflection <math>= 180^\circ - \theta</math></p> <p><math>\therefore 180^\circ - \theta = 120^\circ</math> or <math>\theta = 180^\circ - 120^\circ = 60^\circ</math></p> <p>Force exerted by the jet on the curved plate in the direction of the jet is given by</p> $F_x = \rho a V^2 [1 + \cos \theta]$ $= 1000 \times .001963 \times 40^2 \times [1 + \cos 60^\circ] = 4711.15 \text{ N.}$	 <p style="text-align: right;">04</p>
4(a)	 <p>Mass of water striking the plate per sec</p> $= \rho \times \text{Area of jet} \times \text{Velocity with which jet strikes the plate}$ $= \rho a \times [V - u]$ <p><math>\therefore</math> Force exerted by the jet on the moving plate in the direction of the jet,</p> $F_x = \text{Mass of water striking per sec} \times [\text{Initial velocity with which water strikes} - \text{Final velocity}]$ $= \rho a (V - u) [(V - u) - 0] \quad (\because \text{Final velocity in the direction of jet is zero})$ $= \rho a (V - u)^2$ <p style="text-align: right;">Skech--- 02 Derivation--- 02</p>	<p style="text-align: right;">04</p>
4(b)	<p><math>d = 10 \text{ cm} = 0.1 \text{ m}</math></p> <p><math>a = 0.007854 \text{ m}^2</math></p> <p><math>V = 15 \text{ m/s}, u = 6 \text{ m/s}</math></p> <p><math>F_x = \rho a (V - u)^2 = 636.17 \text{ N} \text{ ---- } 02</math></p> <p><math>W.D = F_x \times u = 3817.02 \text{ N-m/s} \text{ ---- } 02</math></p>	<p style="text-align: right;">04</p>

Signature of Course In-charge

Module In-charge

Head of the Department



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

V SEM

I SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 03-11-2022

DATE	TIME	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	MECHANICAL ENGG (2018 Scheme)	MECHANICAL ENGG (2017 Scheme)
14-11-2022 MONDAY	9.30 AM TO 11.00 AM	MANAGEMENT, ENTREPRENEURSHIP FOR IT IDUSTRY (18CS51)	TECNOLOGICAL INNOVATION MANAGEMENT & ENTREPRENEURSHIP (18ES51)	MANAGEMENT & ENTREPRENEURSHIPFOR IT INDUSTRY (18CS51)	MANAGEMENT & ECONOMICS (18ME51)	MANAGEMENT & ECONOMICS (17ME51)
	2.00 PM TO 3.30 PM	COMPUTER NETWORKS & SECURITY (18CS52)	DIGITAL SIGNAL PROCESSING (18EC52)	PYTHON PROGRAMMING (18AI52)	DESIGN OF MACHINE ELEMENTS-1 (18ME52)	DESIGN OF MACHINE ELEMENTS-1 (17ME52)
15-11-2022 TUESDAY	9.30 AM TO 11.00 AM	DATABASE MANAGEMENT SYSTEM (18CS53)	PRINCIPLES OF COMMUNICATION SYSTEMS (18EC53)	DATABASE MANAGEMENT SYSTEM (18CS53)	DYNAMICS OF MACHINERY (18ME53)	DYNAMICS OF MACHINERY (17ME53)
	2.00 PM TO 3.30 PM	AUTOMATA THEORY & COMPUTABILITY (18CS54)	INFORMATION THEORY & CODING (18EC54)	AUTOMATA THEORY & COMPUTABILITY (18CS54)	FLUID POWER ENGINEERING (18ME55)	NON TRADITIONAL MACHINING (17ME554)
16-11-2022 WEDNESDAY	9.30 AM TO 11.00 AM	APPLICATION DEVELOPMENT USING PYTHON (18CS55)	ELECTROMAGNETIC WAVES (18EC55)	PRINCIPLES OF ARTIFICIAL INTELLIGENCE (18AI55)	TURBO MACHINES (18ME54)	TURBO MACHINES (17ME54)
	1.30 PM TO 3.00 PM	UNIX PROGRAMMING (18CS56)	VERILOG HDL (18EC56)	MATHEMATICS FOR MACHINE LEARNING (18AI56)	OPERATION MANAGEMENT (18ME56)	ENERGY & ENVIRONMENT (17ME562)
	3.00 PM TO 4.00 PM	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	-
NOTE: All the students are strictly informed to wear LAB uniforms, College ID Card is compulsory during the test.						

4/11/22  
**ACADEMIC COORDINATOR**  
 Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

**PRINCIPAL**  
**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109**



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

V SEM

II SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 09-12-2022

DATE	TIME	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	MECHANICAL ENGG (2018 Scheme)	MECHANICAL ENGG (2017 Scheme)
22-12-2022 THURSDAY	9.30 AM TO 11.00 AM	MANAGEMENT, ENTREPRENEURSHIP FOR IT INDUSTRY (18CS51)	TECNOLOGICAL INNOVATION MANAGEMENT & ENTREPRENEURSHIP (18ES51)	MANAGEMENT & ENTREPRENEURSHIP FOR IT INDUSTRY (18CS51)	MANAGEMENT & ECONOMICS (18ME51)	MANAGEMENT & ECONOMICS (17ME51)
	2.00 PM TO 3.30 PM	COMPUTER NETWORKS & SECURITY (18CS52)	DIGITAL SIGNAL PROCESSING (18EC52)	PYTHON PROGRAMMING (18AI52)	DESIGN OF MACHINE ELEMENTS-I (18ME52)	DESIGN OF MACHINE ELEMENTS-I (17ME54)
23-12-2022 FRIDAY	9.30 AM TO 11.00 AM	DATABASE MANAGEMENT SYSTEM (18CS53)	PRINCIPLES OF COMMUNICATION SYSTEMS (18EC53)	DATABASE MANAGEMENT SYSTEM (18CS53)	DYNAMICS OF MACHINERY (18ME53)	DYNAMICS OF MACHINERY (17ME52)
	2.00 PM TO 3.30 PM	AUTOMATA THEORY & COMPUTABILITY (18CS54)	INFORMATION THEORY & CODING (18EC54)	AUTOMATA THEORY & COMPUTABILITY (18CS54)	FLUID POWER ENGINEERING (18ME55)	NON TRADITIONAL MACHINING (17ME554)
24-12-2022 SATURDAY	9.30 AM TO 11.00 AM	APPLICATION DEVELOPMENT USING PYTHON (18CS55)	ELECTROMAGNETIC WAVES (18EC55)	PRINCIPLES OF ARTIFICIAL INTELLIGENCE (18AI55)	TURBO MACHINES (18ME54)	TURBO MACHINES (17ME53)
	1.30 PM TO 3.00 PM	UNIX PROGRAMMING (18CS56)	VERILOG HDL (18EC56)	MATHEMATICS FOR MACHINE LEARNING (18AI56)	OPERATION MANAGEMENT (18ME56)	ENERGY & ENVIRONMENT (17ME562)
	3.00 PM TO 4.00 PM	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	

NOTE: All the students are strictly informed to wear LAB uniforms, College ID Card is compulsory during the test.

*Jhanu*  
9/12/22  
ACADEMIC COORDINATOR

*S. Kumar C*  
12/12/22  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

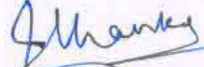
## V SEM

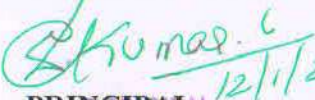
III SESSIONAL TEST TIME TABLE (2022-2023)

DATE: 12-01-2023

DATE	TIME	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	MECHANICAL ENGG (2018 Scheme)	MECHANICAL ENGG (2017 Scheme)
18-01-2023 WEDNESDAY	9.30 AM TO 11.00 AM	MANAGEMENT, ENTREPRENEURSHIP FOR IT IDUSTRY (18CS51)	TECNOLOGICAL INNOVATION MANAGEMENT & ENTREPRENEURSHIP (18ES51)	MANAGEMENT & ENTREPRENEURSHIPFOR IT.INDUSTRY (18CS51)	MANAGEMENT & ECONOMICS (18ME51)	MANAGEMENT & ECONOMICS (17ME51)
	2.00 PM TO 3.30 PM	COMPUTER NETWORKS & SECURITY (18CS52)	DIGITAL SIGNAL PROCESSING (18EC52)	PYTHON PROGRAMMING (18AI52)	DESIGN OF MACHINE ELEMENTS-1 (18ME52)	DESIGN OF MACHINE ELEMENTS-1 (17ME52)
19-01-2023 THURSDAY	9.30 AM TO 11.00 AM	DATABASE MANAGEMENT SYSTEM (18CS53)	PRINCIPLES OF COMMUNICATION SYSTEMS (18EC53)	DATABASE MANAGEMENT SYSTEM (18CS53)	DYNAMICS OF MACHINERY (18ME53)	DYNAMICS OF MACHINERY (17ME53)
	2.00 PM TO 3.30 PM	AUTOMATA THEORY & COMPUTABILITY (18CS54)	INFORMATION THEORY & CODING (18EC54)	AUTOMATA THEORY & COMPUTABILITY (18CS54)	FLUID POWER ENGINEERING (18ME55)	NON TRADITIONAL MACHINING (17ME554)
20-01-2023 FRIDAY	9.30 AM TO 11.00 AM	APPLICATION DEVELOPMENT USING PYTHON (18CS55)	ELECTROMAGNETIC WAVES (18EC55)	PRINCIPLES OF ARTIFICIAL INTELLIGENCE (18AI55)	TURBO MACHINES (18ME54)	TURBO MACHINES (17ME54)
	1.30 PM TO 3.00 PM	UNIX PROGRAMMING (18CS56)	VERILOG HDL (18EC56)	MATHEMATICS FOR MACHINE LEARNING (18AI56)	OPERATION MANAGEMENT (18ME56)	ENERGY & ENVIRONMENT (17ME562)
	3.00 PM TO 4.00 PM	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	ENVIRONMENTAL STUDIES (18CIV59)	

NOTE: All the students are strictly informed to wear LAB uniforms, College ID Card is compulsory during the test.

  
12/1/23  
ACADEMIC COORDINATOR

  
12/1/23  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**V SEM 2018 SCHEME**  
**SECOND INTERNAL TEST SEATING ARRANGEMENT ON 24/12/22 AN SESSION**

Room No: OB 306

BLACK BOARD

V 'B' CS		V 'B' EC V AIML	V 'B' CS		V 'AIML'	V 'B' CS		V 'AIML'
1KS20CS102		1KS20EC116	1KS20CS108		1KS20AI003	1KS20CS114		1KS20AI009
1KS20CS103		1KS20EC117	1KS20CS109		1KS20AI004	1KS20CS115		1KS20AI010
1KS20CS104		1KS20EC118	1KS20CS110		1KS20AI005	1KS20CS116		1KS20AI011
1KS20CS105		1KS21EC401 B	1KS20CS111		1KS20AI006	1KS20CS117		1KS20AI012
1KS20CS106		1KS20AI001	1KS20CS112		1KS20AI007	1KS20CS118		1KS20AI014
1KS20CS107		1KS20AI002	1KS20CS113		1KS20AI008	1KS20CS119		1KS20AI015

V CS 'B' SEC Total = 18

V EC 'B' SEC Total = 04

V 'AIML' Total = 14

*[Signature]*  
**ACADEMIC COORDINATOR**  
 Head of the Department  
 Dept. of Mechanical Engg.  
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*[Signature]*  
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**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**V SEM 2018 SCHEME**  
**SECOND INTERNAL TEST SEATING ARRANGEMENT ON 24/12/22 AN SESSION**

Room No: OB 307 (3rd Floor EC Seminar Hall)

**BLACK BOARD**

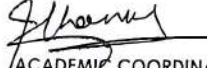
V 'AIML'	V 'B' CS V ME	V 'AIML'	V ME	V 'AIML'
1KS20AI016	1KS20CS120	1KS20AI027	1KS20ME007	1KS20AI038
1KS20AI017	1KS20CS121	1KS20AI028	1KS20ME008	1KS20AI039
1KS20AI018	1KS20CS122	1KS20AI030	1KS21ME400	1KS20AI041
1KS20AI019	1KS20CS123 B	1KS20AI031	1KS21ME401	1KS20AI042
1KS20AI020	1KS20ME001	1KS20AI032	1KS21ME402	1KS20AI043
1KS20AI021	1KS20ME002	1KS20AI033	1KS19ME012	1KS20AI044
1KS20AI022	1KS20ME003	1KS20AI034	1KS19ME031	1KS20AI046
1KS20AI023	1KS20ME004	1KS20AI035	1KS19ME038	1KS20AI047
1KS20AI025	1KS20ME005	1KS20AI036	1KS18ME421 (17 Scheme)	
1KS20AI026	1KS20ME006	1KS20AI037		


V CS 'B' SEC Total = 04

V 'ME' Total = 14 (18 SCHEME)

V 'ME' Total = 01 (17 SCHEME)

V 'AIML' Total = 28

  
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 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**SET: A**

USN

**Degree** : B. E  
**Branch** : Artificial Intelligence & Machine Learning  
**Course Title** : Data Structures and Applications  
**Duration** : 90 Minutes

**Semester** : III  
**Course** : 21CS32  
**Code**  
**Date** : 28/11/2022  
**Max Marks** : 20

Note: Answer **ONE** full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Explain data structures and their classification.	4	CO1	K2
(b)	Develop a C program with an appropriate structure definition and variable declaration to read and display information about 5 employees using nested structures. Consider the following fields like Ename, EmpId, DOJ (Date, Month, Year) and salary (Basic, DA, HRA).	4	CO1	K3
(c)	Identify multidimensional arrays. Represent 2D arrays in memory using column major order and row major order.	4	CO1	K3
<b>OR</b>				
2(a)	Summarize and explain with syntax the dynamic memory allocation functions in C.	4	CO1	K2
(b)	Outline on dynamically allocated arrays? Emphasize on 1D and 2D array creation using dynamic allocation	4	CO1	K2
(c)	Apply a function in C for adding two polynomials A(x) and B(x) to obtain the resultant polynomial D(x)	4	CO1	K3
<b>PART -B</b>				
3(a)	Infer the operations on a stack	4	CO2	K2
(b)	Develop the ADT of stacks using examples.	4	CO2	K3
<b>OR</b>				
4(a)	Explain array representation of stacks.	4	CO2	K2
(b)	Illustrate the push(), pop() and display() functions in stack of integers for insertion and deletion.	4	CO2	K2

Name & Signature of Course  
In charge

Name & Signature of  
Module Coordinator

HOD AIML

Principal

Head of the Department  
Artificial Intelligence & Machine Learning  
K.S. Institute of Technology  
Bengaluru - 560 109


K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109



4(a)	Outline on stacks. Represent stacks pictorially.	4	CO2	K2
(b)	Illustrate the push(), pop() and display() functions in stack of integers for insertion and deletion.	4	CO2	K2

  
 Name & Signature of Course  
 In charge

  
 Name & Signature of  
 Module Coordinator

  
 HOD AIML

  
 Principal

Head of the Department  
 Artificial Intelligence & Machine Learning  
 K.S. Institute of Technology  
 Bengaluru - 560 109

PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**KSIT**

**SET: A**

USN

**Degree** : B. E  
**Branch** : Artificial Intelligence & Machine Learning  
**Course Title** : Data Structures and Applications  
**Duration** : 60 Minutes

**Semester** : III  
**Course** : 21CS32  
**Code**  
**Date** : 09/01/2023  
**Max Marks** : 20

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Build the representation of linked list in memory by taking an example.	4	CO3	K3
(b)	Apply the C-function to create a node in SLL by considering an example.	4	CO3	K3
(c)	Make use of C-functions with respect to Singly Linked List (SLL) to highlight on (a) Searching a key element (b) Deleting a specific element	4	CO3	K3
<b>OR</b>				
2(a)	Make use of the node structure create a list of integers and write C functions to perform the following: (a) Create three node list with data 10, 20 and 30 (b) Insert a node with data value 15 in between the nodes having data values 10, 20. (c) Delete the node whose value is 20 (d) Display the resulting SLL	4	CO3	K3
(b)	Organize types of linked list with examples	4	CO3	K3
(c)	Identify cases of insertion in SLL using C-functions (a) At the end of SLL (b) At a specified location in SLL	4	CO3	K3
<b>PART -B</b>				
3(a)	Make use of a circular queue of size 5. Let the circular queue be empty initially. Inset in the queue 20, 40, 60, 80, 100, and 120. Delete two elements, and then insert 200, 300, and 400 into the circular queue. Reflect the contents of circular queue after all the operations.	4	CO2	K3
(b)	Identify the following terminologies in trees by considering an example: (a) Degree of a node (c) Ancestors (b) Level of a tree (d) Non terminal nodes	4	CO4	K3
<b>OR</b>				
4(a)	Construct the operations in linear queue using C functions	4	CO2	K3
(b)	Identify what trees are. Give an example illustrating the difference between other data structures and trees.	4	CO4	K3

Dr. Amulyashree S

Name & Signature of Course In charge

Dr. Vaiveeta M

Name & Signature of Module Coordinator

Maww  
HOD AIML

Principal  
PRINCIPAL

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 Artificial Intelligence & Machine Learning  
 K.S. Institute of Technology  
 Bengaluru - 560 109

K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**KSIT**

**SET: B**

USN

**Degree** : B. E  
**Branch** : Artificial Intelligence & Machine Learning  
**Course Title** : Data Structures and Applications  
**Duration** : 60 Minutes

**Semester** : III  
**Course** : 21CS32  
**Code**  
**Date** : 09/01/2023  
**Max Marks** : 20

Note: Answer **ONE** full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Make use of C-functions to identify different operations in circular queues	4	CO3	K3
(b)	Identify the steps to create a node SLL by considering an example.	4	CO3	K3
(c)	Make use of C-functions to perform deletion in SLL (a) Deletion of the first element in SLL (b) Deletion of the last element from SLL	4	CO3	K3
<b>OR</b>				
2(a)	Identify different operations to be performed in SLL. Emphasize on C-function to insert a node at beginning of list.	4	CO3	K3
(b)	Make use of C-functions to perform insertion in SLL (a) At the end of SLL (b) At a specified location in SLL	4	CO3	K3
(c)	Construct different types of linked list with examples.	4	CO3	K3
<b>PART -B</b>				
3(a)	Make use of a circular queue of size 5. Let the circular queue be empty initially. Inset in the queue 20, 40, 60, 80, 100, and 120. Delete two elements, and then insert 200, 300, and 400 into the circular queue. Reflect the contents of circular queue after all the operations.	4	CO2	K3
(b)	Identify what trees are. Give an example illustrating differences between other data structures and trees.	4	CO4	K3
<b>OR</b>				
4(a)	Construct the values of rear (r) and front (f) when the linear queue is of size 5. (a) Insertion: When $r=2, f=3$ (b) Insertion: When $r=-1, f=-1$ (c) Deletion: When $r=4, f=1$ (d) Deletion: When $r=3, f=1$	4	CO2	K3
(b)	Identify the following terminologies in trees by considering a tree as an example: (a) Root node (c) Leaf nodes (b) Level of a node (d) Height or depth of tree	4	CO4	K3

Dr. Amulyashree . S

Name & Signature of Course  
In charge

Dr. Vaiveeta . M

Name & Signature of  
Module Coordinator

HOD AIML

Principal

K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.  
 Head of the Department  
 Artificial Intelligence & Machine Learning  
 K.S. Institute of Technology  
 Bengaluru - 560 109



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**SET: A**

USN										
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<b>Degree</b>	: B. E	<b>Semester</b>	: III
<b>Branch</b>	: Artificial Intelligence & Machine Learning	<b>Course</b>	: 21CS32
<b>Course Title</b>	: Data Structures and Applications	<b>Date</b>	: 27/03/2023
<b>Duration</b>	: 60 Minutes	<b>Max Marks</b>	: 20

Note: Answer **ONE full** question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level								
<b>PART-A</b>												
1(a)	<b>Construct an AVL tree by:</b> (i) Inserting elements 14, 17, 11, 7, 53, 4. (ii) Deleting elements 7, 14 from tree	4	CO5	K3								
(b)	<b>Apply the keys 2510, 999 and 333 into a hash table of size 100 using linear probing. The hash table is partially filled as follows:</b> <table border="1" style="margin: 10px auto;"> <tr> <th colspan="2">HASH TABLE</th> </tr> <tr> <th>Location</th> <th>Value</th> </tr> <tr> <td>10</td> <td>4510</td> </tr> <tr> <td>11</td> <td>2611</td> </tr> </table>	HASH TABLE		Location	Value	10	4510	11	2611	4	CO5	K3
HASH TABLE												
Location	Value											
10	4510											
11	2611											
(c)	<b>Build BFS traversal for the given graph by choosing the source vertex as node 'A':</b> 	4	CO5	K3								
<b>OR</b>												
2(a)	<b>Build Splay Tree with suitable examples by explaining the six types of rotations.</b>	4	CO5	K3								
(b)	<b>Make use of a hash table of size 10, using quadratic probing insert the keys 72, 27, 36, 24, 63, 81 and 101 into the table. Consider the constants c1 as 1 and c2 as 3. Draw the resulting hash table after inserting the keys.</b>	4	CO5	K3								
(c)	<b>Construct the adjacency matrix and adjacency list representation for the graph given in Q 1(c).</b>	4	CO5	K3								
<b>PART -B</b>												
3(a)	<b>Construct a binary tree given the following sequence:</b> Inorder: 6, 8, 5, 9, 7, 4 Postorder: 6, 5, 8, 4, 7, 9	4	CO4	K3								



(b)	Build the Abstract Data Type (ADT) of graphs.	4	CO4	K3
OR				
4(a)	Identify an expression tree. Construct the expression tree for the following expression $A/B*C*D+E$ . Also find the preorder, inorder and postorder traversals for the given expression.	4	CO4	K3
(b)	Construct a threaded binary tree for the following integers: 10, 20, 30, 40 and 50.	4	CO4	K3

Dr. Amulyashree.S

  
Name & Signature of Course  
In charge

Dr. Vaiveeta.M

  
Name & Signature of  
Module Coordinator



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Principal

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PRINCIPAL



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**SET: B**

USN									
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**Degree** : B. E  
**Branch** : Artificial Intelligence & Machine Learning  
**Course Title** : Data Structures and Applications  
**Duration** : 60 Minutes

**Semester** : III  
**Course** : 21CS32  
**Code**  
**Date** : 27/03/2023  
**Max Marks** : 20

Note: Answer **ONE full** question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Appling, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Build Splay Tree with suitable examples by explaining the six types of rotations.	4	CO5	K3
(b)	Make use of a hash table of size 10, by means of quadratic probing, insert the keys 72, 27, 36, 24, 63, 81 and 101 into the table. Consider the constants $c_1=1$ and $c_2=3$ . Draw the resulting hash table after inserting the keys.	4	CO5	K3
(c)	Build DFS traversal for the given graph by choosing the source vertex as node 'A': <div align="center"> </div>	4	CO5	K3
<b>OR</b>				
2(a)	Construct an AVL tree by: (i) Inserting elements 14, 17, 11, 7, 53, 4. (ii) Deleting elements 7, 14 from tree	4	CO5	K3
(b)	Make use of the keys 51, 62, 43, 71, 81 and 72 to be inserted into a hash table of size 10. Resolve collisions, if any, using double hashing and chaining approaches. Draw the resultant hash table after every approach.	4	CO5	K3
(c)	Construct the Abstract Data Type (ADT) of graphs	4	CO5	K3
<b>PART -B</b>				
3(a)	Construct a binary tree given the following sequences: Inorder: 6, 8, 5, 9, 7, 4 Postorder: 6, 5, 8, 4, 7, 9	4	CO4	K3
(b)	Build C-functions for the following operations: (a) To find if two binary trees are equal or not	4	CO4	K3

	(b) To perform level order traversal			
<b>OR</b>				
4(a)	<b>Construct</b> a binary search tree (BST) by: (i) Inserting elements 14, 15, 4, 9, 7, 18, 3, 5, 16, 4, 20, 17, 9 (ii) Deleting elements 16, 18, 4, 14 from tree	4	CO4	K3
(b)	<b>Build</b> C-functions for the following operations in threaded binary trees: (i) Inorder successor (ii) Inorder predecessor	4	CO4	K3

Dr. Amulyashree.S  
*[Signature]*  
 Name & Signature of Course  
 In charge

Dr. Vaiveeta.M  
*[Signature]*  
 Name & Signature of  
 Module Coordinator

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 HOD AIML

*[Signature]*  
 Principal

Head of the Department:  
 Artificial Intelligence & Machine Learning  
 K.S. Institute of Technology  
 Bengaluru - 560 109

*Selected*  
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 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.



# K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

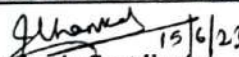
IV SEM

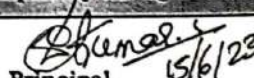
FIRST SESSIONAL TEST TIME TABLE (2022-2023)  
(EVEN SEMESTER 2023)

Date : 15/06/2023

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
26/06/2023 Monday	9:30 AM To 10:30 AM	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21EC41</b> Maths for Communication Engineers	<b>21ME41</b> Complex Analysis, Probability and Linear Programming.
	2:00 PM To 3:00 PM	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21EC42-</b> Digital Signal Processing	<b>21ME42</b> Machining Science and Jigs & Fixtures
27/06/2023 Tuesday	9:30 AM To 10:30 AM	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21EC43</b> Circuits & Controls	<b>21ME43</b> Fluid Mechanics
	1:30 PM To 2:30 PM	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers
28/06/2023 Wednesday	9:30 AM To 10:30 AM	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21EC44</b> Communication Theory	<b>21ME44</b> Mechanics of Materials
	1:30 PM To 2:30 PM	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK37/47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada	<b>21KSK47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK47</b> Samskrutika Kannada / <b>21KSK47</b> Balake Kannada
	3:00 PM To 4:00 PM	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.

  
15/6/23  
Academic Coordinator  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bangalore - 560 109.

  
15/6/23  
Principal  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE**  
IV SEM  
SECOND SESSIONAL TEST TIME TABLE (2022-2023)  
(EVEN SEMESTER 2023)

Date : 22/07/2023

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
31/07/2023 Monday	9:30 AM To 10:30 AM	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21EC41</b> Maths for Communication Engineers	<b>21ME41</b> Complex Analysis, Probability and Linear Programming.
	2:00 PM To 3:00 PM	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21EC42</b> Digital Signal Processing	<b>21ME42</b> Machining Science and Jigs & Fixtures
1/08/2023 Tuesday	9:30 AM To 10:30 AM	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21EC43</b> Circuits & Controls	<b>21ME43</b> Fluid Mechanics
	1:30 PM To 2:30 PM	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers
2/08/2023 Wednesday	9:30 AM To 10:30 AM	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21EC44</b> Communication Theory	<b>21ME44</b> Mechanics of Materials
	1:30 PM To 2:30 PM	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK37/47</b> Samskrutika Kannada / <b>21KBK47</b> Balake Kannada	<b>21KSK47</b> Samskrutika Kannada / <b>21KBK47</b> Balake Kannada	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK47</b> Samskrutika Kannada / <b>21KBK47</b> Balake Kannada
	3:00 PM To 4:00 PM	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.

*[Signature]*  
Academic Coordinator  
Head of the Department  
Dept. of Mechanical Engg  
K.S. Institute of Technology  
Bengaluru - 560 109.

*[Signature]*  
Principal  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109



## K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

IV SEM

### THIRD SESSIONAL TEST TIME TABLE (2022-2023) (EVEN SEMESTER 2023)

Date : 28/08/2023

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
6/09/2023 Wednesday	9:30 AM To 10:30 AM	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21EC41</b> Maths for Communication Engineers	<b>21ME41</b> Complex Analysis, Probability and Linear Programming.
	2:00 PM To 3:00 PM	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21EC42-</b> Digital Signal Processing	<b>21ME42</b> Machining Science and Jigs & Fixtures
7/09/2023 Thursday	9:30 AM To 10:30 AM	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21EC43</b> Circuits & Controls	<b>21ME43</b> Fluid Mechanics
	1:30 PM To 2:30 PM	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers
8/09/2023 Friday	9:30 AM To 10:30 AM	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21EC44</b> Communication Theory	<b>21ME44</b> Mechanics of Materials
	1:30 PM To 2:30 PM	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK37/47</b> Samskrutika Kannada / <b>21KKBK47</b> Balake Kannada	<b>21KSK47</b> Samskrutika Kannada / <b>21KKBK47</b> Balake Kannada	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK47</b> Samskrutika Kannada / <b>21KKBK47</b> Balake Kannada
	3.00 PM To 4:00 PM	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.

*[Signature]* 28/8/23  
Academic Coordinator  
Head of the Department  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bangalore - 560 109.

*[Signature]*  
Principal  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BANGALURU - 560 109

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**II & IV SEMESTER**  
**SECOND SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)**

BLACK BOARD

ROOM No: NB LH 205 (2ND FLOOR)

AIML II 'E' SEC	ECE IV 'B' SEC	ECE II 'F' SEC
1KS22AI058	1KS21EC121	1KS22EC001
1KS22AI059	1KS22EC400	1KS22EC002
1KS22AI060	1KS22EC401	1KS22EC003
1KS22AI061	1KS22EC402	1KS22EC004
1KS22AI062	1KS22EC403	1KS22EC005
1KS22AI063	1KS22EC404	1KS22EC006

ECE IV 'B' SEC	ECE II 'F' SEC	ECE IV 'B' SEC AIML IV
1KS22EC405	1KS22EC007	1KS22EC411
1KS22EC406	1KS22EC008	1KS22EC412
1KS22EC407	1KS22EC009	1KS21AI001
1KS22EC408	1KS22EC010	1KS21AI002
1KS22EC409	1KS22EC011	1KS21AI003
1KS22EC410	1KS22EC012	1KS21AI004

ECE II 'F' SEC	AIML IV SEM	ECE II 'F' SEC
1KS22EC013	1KS21AI005	1KS22EC019
1KS22EC014	1KS21AI006	1KS22EC020
1KS22EC015	1KS21AI007	1KS22EC021
1KS22EC016	1KS21AI008	1KS22EC022
1KS22EC017	1KS21AI009	1KS22EC023
1KS22EC018	1KS21AI010	1KS22EC024

ECE IV 'B' SEC=14 AIML IV =10 Total = 24

AIML II 'E' Sec=6 ECE II 'F' Sec=24 Total = 30

*[Signature]*  
 22/7/23  
**ACADEMIC COORDINATOR**

Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

*[Signature]*  
**PRINCIPAL**

PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**II & IV SEMESTER**  
**SECOND SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)**  
**BLACK BOARD**

**ROOM NO: NB LH 301 (3RD FLOOR)**

ECE II 'F' SEC	AIML IV SEM	ECE II 'F' SEC
1KS22EC025	1KS21AI011	1KS22EC031
1KS22EC026	1KS21AI012	1KS22EC032
1KS22EC027	1KS21AI013	1KS22EC033
1KS22EC028	1KS21AI014	1KS22EC034
1KS22EC029	1KS21AI015	1KS22EC035
1KS22EC030	1KS21AI016	1KS22EC036

AIML IV SEM	ECE II 'F' SEC	AIML IV SEM
1KS21AI017	1KS22EC037	1KS21AI023
1KS21AI018	1KS22EC038	1KS21AI024
1KS21AI019	1KS22EC039	1KS21AI025
1KS21AI020	1KS22EC040	1KS21AI026
1KS21AI021	1KS22EC041	1KS21AI027
1KS21AI022	1KS22EC042	1KS21AI028

ECE II 'F' SEC	AIML IV SEM	ECE II 'F' SEC
1KS22EC043	1KS21AI029	1KS22EC049
1KS22EC044	1KS21AI030	1KS22EC050
1KS22EC045	1KS21AI031	1KS22EC051
1KS22EC046	1KS21AI032	1KS22EC052
1KS22EC047	1KS21AI033	1KS22EC053
1KS22EC048	1KS21AI034	1KS22EC054

**AIML IV Total = 24**

**ECE II 'F' Sec Total = 30**

*Johanna*  
**ACADEMIC COORDINATOR**

Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

*Principals*  
**PRINCIPAL**

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**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109**



**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**II & IV SEMESTER**  
**SECOND SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)**

BLACK BOARD

ROOM No: NB LH 302 (3RD FLOOR)

ECE II 'F' SEC	AIML IV SEM	ECE II 'F & G' SEC
1KS22EC055	1KS21AI035	1KS22EC061
1KS22EC056	1KS21AI036	1KS22EC062
1KS22EC057	1KS21AI037	1KS22EC063
1KS22EC058	1KS21AI038	<b>1KS22EC064</b>
1KS22EC059	1KS21AI039	1KS22EC065
1KS22EC060	1KS21AI040	1KS22EC066

AIML IV SEM	ECE II 'G' SEC	AIML IV SEM
1KS21AI041	1KS22EC067	1KS21AI048
1KS21AI042	1KS22EC068	1KS21AI049
1KS21AI043	1KS22EC069	1KS21AI050
1KS21AI044	1KS22EC070	1KS21AI051
1KS21AI045	1KS22EC071	1KS21AI052
1KS21AI046	1KS22EC072	1KS21AI053

ECE II 'G' SEC	AIML IV SEM	ECE II 'G' SEC
1KS22EC073	1KS21AI054	1KS22EC079
1KS22EC074	1KS21AI055	1KS22EC080
1KS22EC075	1KS21AI056	1KS22EC081
1KS22EC076	1KS21AI057	1KS22EC082
1KS22EC077	1KS21AI058	1KS22EC083
1KS22EC078	1KS20AI024	1KS22EC084

AIML IV Total = 24

ECE II 'F & G' Sec Total = 30

*[Signature]*  
 22/7/23  
**ACADEMIC COORDINATOR**

Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

*[Signature]*  
**PRINCIPAL**

PRINCIPAL  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**II & IV SEMESTER**  
**SECOND SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)**

**ROOM NO: NB SH 303 (3RD FLOOR)**

**BLACK BOARD**

ECE II 'G' SEC	AIML IV SEM	ECE II 'G' SEC
1KS22EC085	1KS20AI029	1KS22EC095
1KS22EC086	1KS20AI040	1KS22EC096
1KS22EC087	1KS22AI400	1KS22EC097
1KS22EC088	1KS22AI401	1KS22EC098
1KS22EC089	1KS22AI402	1KS22EC099
1KS22EC090	1KS22AI403	1KS22EC100
1KS22EC091	1KS22AI404	1KS22EC101
1KS22EC092	1KS22AI405	1KS22EC102
1KS22EC093	1KS22AI406	1KS22EC103
1KS22EC094		1KS22EC104
		1KS22EC105

ME IV SEM	ECE II 'G' SEC
1KS21ME001	1KS22EC106
1KS21ME002	1KS22EC107
1KS21ME003	1KS22EC108
1KS21ME004	1KS22EC109
1KS21ME005	1KS22EC110
1KS21ME006	1KS22EC111
1KS21ME007	1KS22EC112
1KS21ME008	1KS22EC113
1KS21ME009	1KS22EC114
1KS21ME010	1KS22EC115
	1KS22EC116

ECE II 'G' SEC	ME IV SEM	IOT II 'H' SEC
1KS22EC117	1KS21ME011	1KS22IC001
1KS22EC118	1KS22ME400	1KS22IC002
1KS22EC119	1KS22ME401	1KS22IC003
1KS22EC120	1KS22ME402	1KS22IC004
1KS22EC121	1KS22ME403	1KS22IC005
1KS22EC122	1KS22ME404	1KS22IC006
1KS22EC123	1KS22ME405	1KS22IC007
1KS22EC124		1KS22IC008
1KS22EC125		1KS22IC009
1KS22EC126		1KS22IC010
		1KS22IC011

**AIML IV = 9 ME IV = 17 Total = 26**

**ECE II 'G' Sec=42 IOT II 'H'=11 Total = 53**

*Jhanna*  
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*Prasad G*  
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**BENGALURU - 560 109**



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

USN									
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**SET-A**

**Degree : B.E**  
**Branch : Artificial Intelligence & Machine Learning**  
**Course Title : Machine Learning**  
**Duration :90 Minutes**

**Semester: VI**  
**Course Code:18AI61**  
**Date: 17/04/2023**  
**MaxMarks:30**

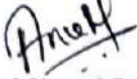
Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level																																				
<b>PART-A</b>																																								
1(a)	What is Machine Learning? Explain the applications of Machine Learning.	6	CO1	K2																																				
(b)	Apply the <i>Find-S</i> algorithm to search the hypotheses space and derive the most specific hypothesis for the target function "Smile" for the following training data.	6	CO1	K3																																				
	<table border="1"> <thead> <tr> <th>Eyes</th> <th>Nose</th> <th>Head</th> <th>Ears</th> <th>Hair</th> <th>Smile?</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td>Sharp</td> <td>Big</td> <td>Long</td> <td>Black</td> <td>Yes</td> </tr> <tr> <td>Hazel</td> <td>Round</td> <td>Small</td> <td>Short</td> <td>Black</td> <td>No</td> </tr> <tr> <td>Hazel</td> <td>Sharp</td> <td>Big</td> <td>Medium</td> <td>Black</td> <td>Yes</td> </tr> <tr> <td>Black</td> <td>Sharp</td> <td>Big</td> <td>Short</td> <td>Gray</td> <td>No</td> </tr> <tr> <td>Hazel</td> <td>Round</td> <td>Big</td> <td>Medium</td> <td>Black</td> <td>Yes</td> </tr> </tbody> </table>	Eyes	Nose	Head	Ears	Hair	Smile?	Black	Sharp	Big	Long	Black	Yes	Hazel	Round	Small	Short	Black	No	Hazel	Sharp	Big	Medium	Black	Yes	Black	Sharp	Big	Short	Gray	No	Hazel	Round	Big	Medium	Black	Yes			
Eyes	Nose	Head	Ears	Hair	Smile?																																			
Black	Sharp	Big	Long	Black	Yes																																			
Hazel	Round	Small	Short	Black	No																																			
Hazel	Sharp	Big	Medium	Black	Yes																																			
Black	Sharp	Big	Short	Gray	No																																			
Hazel	Round	Big	Medium	Black	Yes																																			
(c)	Using the training example in Q1(b), compute the size of hypothesis space from syntactical and semantic perspective.	6	CO1	K3																																				
<b>OR</b>																																								
2(a)	Using the training example data given above in Q1(b), compute the Version Space using Candidate Elimination algorithm	6	CO1	K3																																				
(b)	Discuss any four main challenges of machine learning	6	CO1	K2																																				
(c)	Identify the Tasks, Performance, and Experience with respect to the following problems: i) A Checkers learning problem ii) A Robot driving learning problem.	6	CO1	K3																																				
<b>PART-B</b>																																								
3(a)	Apply the following techniques in context to prepare the data for Machine Learning algorithms, with a suitable example: (i) Data Cleaning (ii) Handling text and categorical attributes	6	CO2	K3																																				
(b)	What is Cross Validation? Identify why would you prefer cross-validation to a validation set?	6	CO2	K3																																				

<b>OR</b>				
<b>4(a)</b>	<b>Identify</b> the purpose of Feature Scaling in Machine Learning and explain the same.	<b>6</b>	<b>CO2</b>	<b>K3</b>
<b>(b)</b>	<b>Distinguish</b> between Root Mean Square Error and Mean Absolute Error.	<b>6</b>	<b>CO2</b>	<b>K2</b>

Anu Matthews



Name and Sign of Course In charge

Dr. Vaneeza M



Name and Sign of Module Coordinator

May

HOD AIML



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**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

USN									
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**SET-B**

**Degree : B.E**  
**Branch : Artificial Intelligence & Machine Learning**  
**Course Title : Machine Learning**  
**Duration :90 Minutes**

**Semester: VI**  
**Course Code:18AI61**  
**Date: 17/04/2023**  
**MaxMarks:30**

Note: Answer **ONE** full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level																								
<b>PART-A</b>																												
1(a)	Define Machine Learning? <b>Explain</b> the applications of Machine Learning.	6	CO1	K2																								
1(b)	<b>Apply</b> the <i>Find-S</i> algorithm to search the hypotheses space and derive the most specific hypothesis for the target function " <i>Label</i> " for the following training data. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Size</th> <th>Colour</th> <th>Shape</th> <th>Label</th> </tr> </thead> <tbody> <tr> <td>Small</td> <td>Red</td> <td>Circle</td> <td>Yes</td> </tr> <tr> <td>Big</td> <td>Red</td> <td>Circle</td> <td>No</td> </tr> <tr> <td>Small</td> <td>Red</td> <td>Triangle</td> <td>No</td> </tr> <tr> <td>Big</td> <td>Blue</td> <td>Circle</td> <td>No</td> </tr> <tr> <td>Small</td> <td>Blue</td> <td>Circle</td> <td>Yes</td> </tr> </tbody> </table>	Size	Colour	Shape	Label	Small	Red	Circle	Yes	Big	Red	Circle	No	Small	Red	Triangle	No	Big	Blue	Circle	No	Small	Blue	Circle	Yes	6	CO1	K3
		Size	Colour	Shape	Label																							
		Small	Red	Circle	Yes																							
		Big	Red	Circle	No																							
		Small	Red	Triangle	No																							
		Big	Blue	Circle	No																							
		Small	Blue	Circle	Yes																							
1(c)	<b>Differentiate</b> between supervised, unsupervised and reinforcement learning	6	CO1	K2																								
<b>OR</b>																												
2(a)	Using the training example data given above in Q1(b), <b>compute</b> the Version Space using Candidate Elimination algorithm,	6	CO1	K3																								
1(b)	<b>Identify</b> the role of a function approximation algorithm? How does learner system estimate training values and adjusts weights while learning?	6	CO1	K3																								
1(c)	<b>Identify</b> the Tasks, Performance, and Experience with respect to the following problems: i) A handwriting recognition learning problem ii) A Checkers learning problem	6	CO1	K3																								
<b>PART-B</b>																												
3(a)	<b>Apply</b> the following techniques in context to prepare the data for Machine Learning algorithms, with a suitable example: (i) Data Cleaning (ii) Handling text and categorical attributes	6	CO2	K3																								
1(b)	<b>Distinguish</b> between Root Mean Square Error and Mean Absolute Error.	6	CO2	K2																								

OR				
4(a)	Make use of an example and demonstrate the relevance of the different range of values of the standard correlation coefficient.	6	CO2	K3
(b)	Distinguish between Train Set, Test Set and Validation set. What is the purpose of a validation set?	6	CO2	K2

Anu Matthews

*Anu M.*

Name and Sign of Course In charge

Dr. Vaneela M

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Name and Sign of Module Coordinator

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*Shumaa V.*

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**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

USN

**SET-A**

**Degree : B.E**  
**Branch : Artificial Intelligence & Machine Learning**  
**Course Title : Machine Learning**  
**Duration :90 Minutes**

**Semester: VI**  
**Course Code:18AI61**  
**Date: 05/06/2023**  
**MaxMarks:30**

Note: Answer **ONE full** question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	<b>Explain</b> the Linear Regression model for prediction and also define the MSE cost function for a Linear Regression model.	6	CO3	K2
(b)	<b>Demonstrate</b> the use of the Normal Equation to compute the model parameters that best fit a Linear Regression model to the training set.	6	CO3	K3
(c)	What is Gradient Descent algorithm? <b>Demonstrate</b> how the learning rate affects the performance of a Gradient Descent algorithm?	6	CO3	K3
<b>OR</b>				
2(a)	<b>Compare and contrast</b> Batch Gradient descent and Stochastic Gradient Descent.	6	CO3	K3
(b)	<b>Utilize</b> code snippets and explain the regression model for data that is more complex than a simple straight line.	6	CO3	K3
(c)	Explain the intuition behind Regularization and <b>illustrate</b> how Ridge Regression and Lasso Regression can be used to achieve regularization.	6	CO3	K3
<b>PART-B</b>				
3(a)	<b>Make use of</b> code snippets to show how Grid Search and Randomized Search helps in Fine-Tuning a model.	6	CO2	K3
(b)	<b>Distinguish</b> between Entropy and Gini Impurity.	6	CO4	K2
<b>OR</b>				
4(a)	<b>Utilize</b> code snippets to explain how Multilabel classification is different from Multiclass and Multioutput classification?	6	CO2	K3
(b)	Determine the root node for the Decision Tree for the following training data. The target concept in this example is Result. Note: $\ln_2(3/4)=-0.415$ , $\ln_2(4/5)=-0.321$ , $\ln_2(1/5)=-2.322$ $\ln_2(3/5)=-0.737$ , $\ln_2(2/5)=-1$	6	CO4	K3

S. No	Gender	Slot	Subject	Result
1	Male	Morning	New	Pass
2	Female	Morning	New	Pass
3	Female	Evening	Old	Pass
4	Male	Noon	Old	Pass
5	Male	Morning	Old	Fail
6	Female	Evening	Old	Pass
7	Female	Noon	New	Pass
8	Female	Morning	Old	Fail

Anu Mathews  
Anu

Name and Sign of Course In charge

Dr. Vanesta M  
May

Name and Sign of Module Coordinator

mlau

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Principal  
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BENGALURU - 560 109.





**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

USN									
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**SET-B**

<b>Degree</b>	<b>: B.E</b>	<b>Semester: VI</b>
<b>Branch</b>	<b>: Artificial Intelligence &amp; Machine Learning</b>	<b>Course Code:18AI61</b>
<b>Course Title</b>	<b>: Machine Learning</b>	<b>Date: 05/06/2023</b>
<b>Duration</b>	<b>:90 Minutes</b>	<b>MaxMarks:30</b>

Note: Answer **ONE full** question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	<b>Distinguish</b> between Regression and Classification. Explain the vectorized form of Linear Regression model for prediction and also define the MSE cost function for a Linear Regression model.	6	CO3	K2
(b)	What is Gradient Descent algorithm? <b>Demonstrate</b> how the learning rate affects the performance of a Gradient Descent algorithm?	6	CO3	K3
(c)	<b>Compare and contrast</b> Mini-Batch Gradient descent and Stochastic Gradient Descent.	6	CO3	K3
<b>OR</b>				
2(a)	<b>Utilize</b> code snippets and explain the concept of Polynomial Regression model.	6	CO3	K3
(b)	<b>Distinguish</b> between Bias and Variance and also explain underfitting and overfitting.	6	CO3	K2
(c)	<b>Explain</b> the intuition behind Regularization and illustrate how Elastic Net and Lasso Regression can be used to achieve regularization.	6	CO3	K3
<b>PART-B</b>				
3(a)	<b>Make use of</b> code snippets and outline the concepts involved in: i) Confusion Matrix. ii) Precision and Recall.	6	CO2	K3
(b)	<b>Distinguish</b> between Entropy and Gini Impurity.	6	CO4	K2
<b>OR</b>				
4(a)	<b>Demonstrate</b> the relationship between ROC and AUC and explain when you would prefer these measures over the Precision-Recall Curve.	6	CO2	K3
(b)	Determine the root node for the Decision Tree for the following training data. The target concept in this example is Result. Note: $\ln_2(3/4)=-0.415$ , $\ln_2(4/5)=-0.321$ , $\ln_2(1/5)=-2.322$ $\ln_2(3/5)=-0.737$ , $\ln_2(2/5)=-1$	6	CO4	K3

S. No	Gender	Slot	Subject	Result
1	Male	Morning	New	Pass
2	Female	Morning	New	Pass
3	Female	Evening	Old	Pass
4	Male	Noon.	Old	Pass
5	Male	Morning	Old	Fail
6	Female	Evening	Old	Pass
7	Female	Noon	New	Pass
8	Female	Morning	Old	Fail

Ana Mathews

*Ana*

Name and Sign of Course In charge

Dr. Vaneeza M.

*Vaneeza*

Name and Sign of Module Coordinator

*Manu*  
HOD AIML

*Shemas*  
Principal

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BENGALURU - 560 109

Head of the Department  
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K.S. Institute of Technology  
Bengaluru - 560 109



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

USN

**SET-A**

**Degree** : B.E  
**Branch** : Artificial Intelligence & Machine Learning  
**Course Title** : Machine Learning  
**Duration** :90 Minutes

**Semester:** VI  
**Course Code:**18AI61  
**Date:** 06/07/2023  
**MaxMarks:**30

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	<b>Construct</b> Naïve Bayes Classifier with an Example.	6	CO5	K3
(b)	The examination for a given subject will pass a student with 95% probability when a student likes that subject. Similarly, the exam will fail a student with a probability of 90% if student doesn't like that subject. It is assumed that 80% students like that subject. <b>Build</b> a Bayesian Learning model to determine if a student likes the subject based on exam result.	6	CO5	K3
(c)	<b>Apply</b> the EM algorithm to estimating the problem of 2 means and explain the two steps that are used iteratively to reach convergence.	6	CO5	K3
<b>OR</b>				
2(a)	<b>Show</b> that Maximum Likelihood Hypothesis is helpful for predicting probabilities	6	CO5	K3
(b)	Write Bayes theorem. <b>Identify</b> the relationship between Bayes theorem and the problem of concept learning?	6	CO5	K3
(c)	<b>Show</b> that every consistent learner will output a MAP hypothesis.	6	CO5	K3
<b>PART-B</b>				
3(a)	In context to Ensemble methods <b>differentiate</b> between the concepts of: i) Bagging and Pasting. ii) Hard voting and Soft voting Classifiers.	6	CO4	K2
(b)	<b>Demonstrate</b> the concept of Gradient Boost with code snippets.	6	CO4	K3
<b>OR</b>				
4(a)	<b>Demonstrate</b> the concept of AdaBoost with code snippets.	6	CO4	K3
(b)	<b>Demonstrate</b> the concept of Out-of-Bag Evaluation with code snippets.	6	CO4	K3

*Anu H*

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Name and Sign of Course In charge

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*may*  
Name and Sign of Module Coordinator

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**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

USN									
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**SET-B**

**Degree** : B.E  
**Branch** : Artificial Intelligence & Machine Learning  
**Course Title** : Machine Learning  
**Duration** :90 Minutes

**Semester:** VI  
**Course Code:**18AI61  
**Date:** 06/07/2023  
**MaxMarks:**30

Note: Answer ONE full question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	Construct Bayesian Belief Network with an Example.	6	CO5	K3
(b)	The examination for a given subject will pass a student with 95% probability when a student likes that subject. Similarly, the exam will fail a student with a probability of 90% if student doesn't like that subject. It is assumed that 80% students like that subject. <b>Build</b> a Bayesian Learning model to determine if a student likes the subject based on exam result.	6	CO5	K3
(c)	Write Bayes theorem. <b>Identify</b> the relationship between Bayes theorem and the problem of concept learning?	6	CO5	K3
<b>OR</b>				
2(a)	<b>Shows that</b> the maximum likelihood hypothesis is the one that minimizes the sum of the squared errors between the observed training values and the hypothesis predictions.	6	CO5	K3
(b)	<b>Make use of</b> an example and show that the Bayes Optimal Classifier method maximizes the probability that the new instance is classified correctly, given the available data, hypothesis space, and prior probabilities over the hypotheses.	6	CO5	K3
(c)	<b>Show that</b> every consistent learner will output a MAP hypothesis.	6	CO5	K3
<b>PART-B</b>				
3(a)	In context to Ensemble methods <b>differentiate</b> between the concepts of: i) Bagging and Pasting. ii) Hard voting and Soft voting Classifiers.	6	CO4	K2
(b)	<b>Demonstrate</b> the working of Random Forest with code snippets.	6	CO4	K3
<b>OR</b>				
4(a)	<b>Differentiate</b> between Bagging and Boosting. <b>Identify</b> the benefit of Out-of-Bag Evaluation with code snippets.	6	CO4	K3
(b)	<b>Illustrate</b> the concept of Stacking with example.	6	CO4	K3

*Ana Mathews*  
 Ana Mathews

Name and Sign of Course In charge

*Dr. Vaiveeta. M*  
 May

Name and Sign of Module Coordinator

*Manj* *Shriner*  
 HOD AIML Principal

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 Bengaluru - 560 109



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಸಂಸ್ಥಾಪನೆ ೧೯೯೪ ರಲ್ಲಿಯೇ ಆರಂಭವಾಗಿತ್ತು. ೧೯೯೪ ರಲ್ಲಿಯೇ ಆರಂಭವಾಗಿತ್ತು. ೧೯೯೪ ರಲ್ಲಿಯೇ ಆರಂಭವಾಗಿತ್ತು.

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

State University of Government of Karnataka Established as per the VTU Act, 1994 "JnanaSangama" Belagavi-590018, Karnataka, India

Prof. B. E. Rangaswamy, Ph.D

REGISTRAR

Phone: (0831) 2498100

Fax: (0831) 2405467

DATE: 8 MAY 2023

REF: VTU/BGM/GC/2023/ 680

### NOTIFICATION

**Subject:** Tentative Academic Calendar of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of University regarding...

**Reference:** Hon'ble Vice-Chancellor's approval dated: 08.05.2023  
Tentative Academic Calendar of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

#### (Tentative) Academic Calendar for semesters of II semester B.E./B.Tech/B.Arch./B.Plan and IV semester B.E./B.Tech., Programs (May 2023)

	II semester B.E./B.Tech.	II semester B.Arch, B.Plan	IV semester B.E./ B.Tech
Commencement of even semester	17.05.2023	17.05.2023	17.05.2023
Internship	-----	-----	17.05.2023 To 03.06.2023
Commencement of the Classes	17.05.2023	17.05.2023	05.06.2023
Last Working day of the Semester	31.08.2023	31.08.2023	16.09.2023
Practical Examination/Viva Examination	01.09.2023 To 10.09.2023	01.09.2023 To 08.09.2023	19.09.2023 To 30.09.2023
Theory Examinations	11.09.2023 To 07.10.2023	11.09.2023 To 27.09.2023	03.10.2023 To 20.10.2023
Commencement of next Semester	09.10.2023	09.10.2023	25.10.2023

#### Please Note:

- The academic sessions for EVEN semesters should commence on the date mentioned above.

- If necessary, the college may hold extra classes on Saturdays and Sundays to complete academic activities within the specified timeframe.
- The faculty/staff shall be available to undertake any work assigned by the university.
- University Examination Calendars will be published by the Registrar (Evaluation) from time to time.
- The Academic Calendar may be modified as MHRD/UGC/AICTE/state governments issue guidelines/directives in the future.
- Academic calendars are also applicable to autonomous colleges. If any changes are to be made by Autonomous colleges in the academic terms and examination schedule, they could do so with the approval of the university
- If any clarification/correction/suggestions, please email [sbhalbhavi@vtu.ac.in](mailto:sbhalbhavi@vtu.ac.in)
- \*\* Induction Program shall be conducted for 10 days for 2nd semester students. Activities related to Induction program's shall be conducted on every Saturday (if required on Sunday) totaling to 10 days. Upon completion of the Induction program, colleges must email a brief report to [sbhalbhavi@vtu.ac.in](mailto:sbhalbhavi@vtu.ac.in)

1. The principals of engineering colleges under the ambit of the University, are hereby informed to bring the academic calendar to the notice of all concerned.
2. The Chairpersons of the PG department of the University where UG programs are offered are hereby informed to bring the academic calendar to the notice of the all concerned
3. The Directors of Schools of Architecture and Planning under the ambit of the university are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

To,

1. The principals of all engineering colleges, Directors, Schools of Architecture and Planning, under the ambit of VTU Belagavi. The Chairperson of the PG Department of the university.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. The Director of Central Placement Officer VTU Belagavi for information
7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

Ras ————— BE

REGISTRAR





# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

(State University of Government of Karnataka Established as per the VTU Act, 1994)

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

(State University of Government of Karnataka Established as per the VTU Act, 1994)  
"JyanaSargama" Belagavi-590018, Karnataka, India

Phone: (0831) 2498100 REGISTRAR

Prof. Dr. B. E. Rangaswamy, P.H.D.  
Fax : (0831) 2405467

REF: VTU/BGM/ACA/2022-23/ 6241

DATE: 21 JAN 2023

## Revised-NOTIFICATION

**Subject:** - Revised-Academic Calendar of 3<sup>rd</sup> semester of B.E./B.Tech., programs of University regarding...

**Reference:** Dean Faculty of Engineering, VTU Belagavi approval dated 20.01.2023

Hon'ble Vice-Chancellor's approval dated: 20.01.2023

The revised-academic calendar concerned to 3<sup>rd</sup> semester of B.E./B.Tech., programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

Revised Academic Calendar for 3rd-semester B.E./B.Tech. Programs		
Details	Existing Dates	Revised Dates
Commencement of III semester	31.10.2022	31.10.2022
Commencement of Classes for Lateral Entry students	-----	06.02.2023
Last working date	11.02.2023	01.04.2023
Practical Examinations Regular Students	13.02.2023 To 21.02.2023	04.04.2023 To 13.04.2023
Theory Examinations	22.02.2023 To 22.03.2023	17.04.2023 To 05.05.2023
Practical Examination for Lateral Entry students	-----	08.05.2023 To 13.05.2023
Intra/Inter Institute Internship	26.03.2023 To 16.04.2023	----
Commencement of IV semester	17.04.2023	15.05.2023

**Please Note:**

- The Institute needs to function for **six days** a week with **Saturday** being a full working day. Timing for the classes is either 08.00 am to 04.15 pm or 09.00 am to 05.00 pm in total 08 hours a day. #if required, the college can also plan to have extra classes on Sundays to complete academic activities within the duration mentioned.
- **Separate classes** should be conducted for lateral entry students as per the revised academic calendar; however, the regular students may attend the classes along with lateral entry students for review.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. If any changes are to be affected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- The college has to conduct offline classes to cover **80%** of the syllabus of the courses; however, **20%** of the syllabus can be covered in virtual model (Online) mode. **Attendance** of the students for offline and online classes is mandatory and records should be maintained and submitted to the university whenever informed.
- AICTE Activity point details circular will be issued by the Registrar's office separately.
- If any clarification/correction, please email-[registrar@vtu.ac.in](mailto:registrar@vtu.ac.in) or [sbhvtuso@yahoo.com](mailto:sbhvtuso@yahoo.com)
- **Intra/Inter Institute Internship for lateral entry students shall be conducted parallelly with academic activities of even the semester.**

The Principals of Affiliated, Constituent and Autonomous Engineering Colleges, Chairpersons of the University departments are hereby informed to bring the revised-academic calendar to the notice of all concerned.

Sd/-

REGISTRAR

**To,**

1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.
2. The chairperson, of the Department of Mechanical Engineering /Civil Engineering /Computer Science and Engineering& Communication Electronics Engineering of the University.

**Copy to.**

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director I/c. ITI SMU, VTU Belagavi for information and to make arrangements to upload Academic Calendar on the VTU web portal.
5. The Director of Physical Education, VTU Belagavi for information
6. OS for information and make arrangements to send the circular regarding AICTE Activity Points
7. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

REGISTRAR





# K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

TENTATIVE CALENDAR OF EVENTS: III ODD SEMESTER (2022-2023)

SESSION: OCT 2022 - APR 2023

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	OCT/NOV	31*	1H	2	3	4 TA	5 DH	4	31* - Commencement of III Sem 1- Kannada Rajyotsava
2	NOV	7	8	9	10	11H	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table
3	NOV	14	15	16	17	18	19 DH	5	
4	NOV	21	22	23	24	25	26 TA	6	26 - Wednesday Time Table
5	NOV/DEC	28 T1	29 T1	30 T1	1	2	3 DH	5	
6	DEC	5	6	7	8 LT1	9 LT1	10 LT1	6	
7	DEC	12* FFB1	13 BV	14 ASD	15	16	17 DH	5	12* - First Faculty Feed Back
8	DEC	19	20	21	22	23	24	6	24 - Wednesday Time Table
9	DEC	26	27	28	29	30	31 TA	6	31 - Monday Time Table
10	JAN	2 T2	3 T2	4 T2	5	6	7 DH	5	
11	JAN	9	10	11	12 BV	13 ASD	14	6	14- Friday Time Table
12	JAN	16* FFB2	17	18	19	20	21 DH	5	16* - First Faculty Feed Back
13	JAN	23	24	25	26	27	28	5	26- Republic Day 28- Wednesday Time Table
14	JAN/FEB	30	31	1	2	3	4 DH	5	
15	FEB	6	7	8	9	10	11	6	11- Thursday Time Table
16	FEB	13	14	15	16	17	18 DH	5	18- Maha Shivaratri
17	FEB	23	23	23	23	24	25	6	25- Wednesday Time Table
18	FEB/MAR	27	28	1	2	3	4 DH	5	
19	MAR	6* FFB2	7	8	9	10	11	6	6* - Second Faculty Feed Back 11 - Tuesday Time Table
20	MAR	13	14	15	16	17	18 DH	5	
21	MAR	20 LT2	21 LT2	22 H	23 LT2	24 TA	25	5	22- Ugadi 25-Tuesday Time Table
22	MAR/APR	27 T3	28 T3	29 T3	30	31	1*	6	1* - Last Working day 1- Monday Time Table

**Total No of Working Days : 118**

Total Number of working days ( Excluding holidays and Tests)=103

<b>H</b>	Holiday
<b>BV</b>	Blue Book Verification
<b>T1,T2,T3</b>	Tests 1,2,3
<b>ASD</b>	Attendance & Sessional Display
<b>DH</b>	Declared Holiday
<b>LT</b>	Lab Test
<b>TA</b>	Test attendance

Monday	20
Tuesday	20
Wednesday	22
Thursday	20
Friday	21
<b>Total</b>	<b>103</b>

31/1/23  
**PRINCIPAL**  
 K.S. INSTITUTE OF TECHNOLOGY  
 BENGALURU - 560 109.



**K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109**  
**TENTATIVE CALENDAR OF EVENTS: III ODD SEMESTER (2022-2023)**  
**DEPARTMENT OF COMPUTER SCIENCE & DESIGN CALENDAR OF EVENTS**  
**SESSION: OCT 2022 – FEB 2023**

Week No.	Month	Day						Days	Activities	Dept. Activities
		Mon	Tue	Wed	Thu	Fri	Sat			
1	OCT/NOV	31*	1H	2	3	4 TA	5 DH	4	31* - Commencement of III Sem 1- Kannada Rajyotsava	4- Technical Talk on Innovation
2	NOV	7	8	9	10	11H	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table	
3	NOV	14	15	16	17	18	19 DH	5		17- Industrial Visit
4	NOV	21	22	23	24	25	26 TA	6	26 - Wednesday Time Table	
5	NOV/DEC	28 T1	29 T1	30 T1	1	2	3 DH	5		
6	DEC	5	6	7	8 LT1	9 LT1	10 LT1	6	10- Tuesday Time Table	
7	DEC	12* FFB1	13 BV	14 ASD	15	16	17 DH	5	12* - First Faculty Feed Back	12-CCM-1 13- Performance Report - 1 to parents
8	DEC	19	20	21	22	23	24	6	24 - Wednesday Time Table	24-PTM-1
9	DEC	26	27	28	29	30	31 TA	6	31 - Monday TT	
10	JAN	2 T2	3 T2	4 T2	5	6	7 DH	5		Adroit Club Inaugural
11	JAN	9	10	11	12 BV	13 ASD	14 H	5	14- Makara Sankranthi	13- BITES Technical Talk
12	JAN	16* FFB2	17	18	19	20	21 DH	5	16* - First Faculty Feed Back	20- Performance Report-2 to parents & CCM-2
13	JAN	23	24	25	26H	27	28	5	26- Republic Day 28- Wednesday Time Table	
14	JAN/FEB	30	31	1 TA	2 T3	3 T3	4 DH	5		
15	FEB	6 T3	7	8 LT2	9 LT2	10 LT2	11*	6	11- Thursday Time Table, 11* - Last Working day	10-Performance Report-3 to parents
<b>Total No of Working Days : 79</b>										

Total Number of working days ( Excluding holidays and Tests)=64

H	Holiday
BV	Blue Book Verification
T1,T2,T3	Tests 1,2, 3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	13
Thursday	13
Friday	12
<b>Total</b>	<b>64</b>

*deepa*  
HOD

*[Signature]*

**PRINCIPAL**  
**PRINCIPAL**  
**K.S INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109**

**K.S.I.T**

# K.S. INSTITUTE OF TECHNOLOGY BANGALORE

## III SEM

### I SESSIONAL TEST TIME TABLE (2022-2023)

#### (ODD SEMESTER 2022)

Date : 21/11/2022

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
28/11/2022 Monday	9:30 AM To 11:00 AM	21MAT31 - Transform calculus, fourier series and numerical techniques	21MAT31 - Transform Calculus, Fourier Series and Numerical Techniques (TCFSNT)	21MAT31 - Transform Calculus, Fourier Series And Numerical Techniques	21MAT31 - Transform Calculus, Fourier Series And Numerical Techniques (TCFSNT)	21MAT31 - Transform Calculus, Fourier Series And Numerical Techniques (TCFSNT)
	2:00 PM To 3:30 PM	21CS32 - Data structures and its applications (DSA)	21CS32 - Data Structures and its Applications (DSA)	21CS32 - Data Structures And Applications	21EC32 - Digital System Design using Verilog	21ME32 - Metal casting, Forming and Joining Processes (MCF)
29/11/2022 Tuesday	9:30 AM To 11:00 AM	21CS33 - Analog and Digital Electronics (ADE)	21CS33 - Analog and Digital Electronics (ADE)	21CS33 - Analog And Digital Electronics	21EC33 - Basic Signal Processing	21ME33 - Material Science and Engineering (MS&E)
	2:00 PM To 3:30 PM	21KSK37/47 Samskrutka Kannada / 21KKB37/47 Balake Kannada	21CIP37 - Constitution of India and Professional Ethics (CIP)	21CIP37 - Constitution Of India And Professional Ethics	21KSK37/47 Samskrutka Kannada / 21KKB37/47 Balake Kannada	21CIP37 - Constitution of India and Professional Ethics (CIP)
30/11/2022 Wednesday	9:30 AM To 11:00 AM	21CS34 - Computer Organization and Architecture (COA)	21CS34 - Computer Organization and Architecture (COA)	21CS34 - Computer Organization And Architecture	21EC34 - Analog Electronic Circuits	21ME34 - Thermodynamics (TD)
	11:30 am REGULAR CLASSES / LABS					

Note: All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.

*[Signature]*  
Academic Coordinator  
Head of the Dept.  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bengaluru - 560 109.

*[Signature]*  
Principal  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.

**K.S.I.T****K. S. INSTITUTE OF TECHNOLOGY, BANGALORE**

III SEM

SECOND SESSIONAL TEST TIME TABLE (2022-2023)

(ODD SEMESTER 2022)

Date : 28/12/2022

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
9/1/2023 Monday	9:30 AM To 10:30 AM	21MAT31 - Transform calculus, fourier series and numerical techniques	21MAT31 - Transform Calculus, Fourier Series and Numerical Techniques (TCFSNT)	21MAT31 - Transform Calculus, Fourier Series And Numerical Techniques	21MAT31 - Transform Calculus, Fourier Series And Numerical Techniques (TCFSNT)	21MAT31 - Transform Calculus, Fourier Series And Numerical Techniques (TCFSNT)
		21CS32 - Data structures and its applications (DSA)	21CS32 - Data Structures and its Applications (DSA)	21CS32 - Data Structures And Applications	21EC32 - Digital System Design using Verilog	21ME32 - Metal casting, Forming and Joining Processes (MCF)
		21CS33 - Analog and Digital Electronics (ADE)	21CS33 - Analog and Digital Electronics (ADE)	21CS33 - Analog And Digital Electronics	21EC33 - Basic Signal Processing	21ME33 - Material Science and Engineering (MS&E)
10/1/2023 Tuesday	9:30 AM To 10:30 AM	21CS33 - Analog and Digital Electronics (ADE)	21CS33 - Analog and Digital Electronics (ADE)	21CS33 - Analog And Digital Electronics	21EC33 - Basic Signal Processing	21ME33 - Material Science and Engineering (MS&E)
	2:00 PM To 3:00 PM	21RSK37/47 Samskrutika Kannada / 21KKB37/47 Balake Kannada	21CIP37 - Constitution of India and Professional Ethics (CIP)	21CIP37 - Constitution Of India And Professional Ethics	21RSK37/47 Samskrutika Kannada / 21KKB37/47 Balake Kannada	21CIP37 - Constitution of India and Professional Ethics (CIP)
11/1/2023 Wednesday	9:30 AM To 10:30 AM	21CS34 - Computer Organization and Architecture (COA)	21CS34 - Computer Organization and Architecture (COA)	21CS34 - Computer Organization And Architecture	21EC34 - Analog Electronic Circuits	21ME34 - Thermodynamics (TD)
		21CS34 - Computer Organization and Architecture (COA)	21CS34 - Computer Organization and Architecture (COA)	21CS34 - Computer Organization And Architecture	21EC34 - Analog Electronic Circuits	21ME34 - Thermodynamics (TD)

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.

10.30 am REGULAR CLASSES / LABS

*Shravan*  
Academic Coordinator

*Shravan*  
Principal



**K S I T**

**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**III SEMESTER : 2022-23 (ODD)**  
**THIRD SESSIONAL TEST TIME TABLE**

Date : 16/3/2023

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
27/3/2023 Monday	9:30 AM To 10:30 AM	21MAT31- Transform calculus, fourier series and numerical techniques	21MAT31 - Transform Calculus, Fourier Series and Numerical Techniques (TCFSNT)	21MAT31- Transform Calculus, Fourier Series And Numerical Techniques	21MAT31 - Transform Calculus, Fourier Series And Numerical Techniques (TCFSNT)	21MAT31 - Transform Calculus, Fourier Series And Numerical Techniques (TCFSNT)
	2:00 PM To 3:00 PM	21CSS32 - Data structures and its applications (DSA)	21CSS32 - Data Structures and its Applications (DSA)	21CSS32 - Data Structures And Applications	21EC32 - Digital System Design using Verilog	21ME32 - Metal casting, Forming and Joining Processes (MCF)
28/3/2023 Tuesday	9:30 AM To 10:30 AM	21CSS33 - Analog and Digital Electronics (ADE)	21CSS33 - Analog and Digital Electronics (ADE)	21CSS33 - Analog And Digital Electronics	21EC33 - Basic Signal Processing	21ME33 - Material Science and Engineering (MS&E)
	1:30 PM To 2:30 PM	21KSK37/47 Samskrutika Kannada / 21KBK37/47 Balake Kannada	21CIP37 - Constitution of India and Professional Ethics (CIP)	21CIP37 - Constitution Of India And Professional Ethics	21KSK37/47 Samskrutika Kannada / 21KBK37/47 Balake Kannada	21CIP37 - Constitution of India and Professional Ethics (CIP)
29/3/2023 Wednesday	9:30 AM To 10:30 AM	21ICS34 - Computer Organization and Architecture (COA)	21ICS34 - Computer Organization and Architecture (COA)	21ICS34 - Computer Organization And Architecture	21EC34 - Analog Electronic Circuits	21ME34 - Thermodynamics (TTD)

Note: All the students are strictly informed to wear lab uniforms, and college ID card is compulsory during the test.

*Shree*  
Academic Coordinator  
16/3/23  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bangalore - 560 109.

*Shree*  
Principal  
K. S. INSTITUTE OF TECHNOLOGY  
BANGALURU - 560 109

**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**I & III SEMESTER (3RD CIE)**  
**TEST SEATING ARRANGEMENT (27TH TO 29TH MARCH 2023)**

Room No: NB SH 403 (Fourth Floor Placement Seminar Hall)

**BLACK BOARD**

I 'H' IOT	III 'CSD'	I 'H' IOT	III 'CSD'	I 'H' IOT	III 'CSD'	I 'H' IOT	III 'CSD'	I 'H' IOT
DARSHAN M	1KS21CG001	L MANEESH	1KS21CG012	PALETTI THIMMARAJU	1KS21CG022	SAI SANDAYA M	1KS21CG032	SWAROOP S
DEEKSHITHA S A	1KS21CG002	LEENA J	1KS21CG013	PATTHAKAMURI SUDEEPTHI	1KS21CG023	SANJANA S	1KS21CG033	SYED MUTEEB BAKSHI
GAGANDEEP NAIDU L	1KS21CG003	MAHIMA A	1KS21CG014	PRANAMYA K L	1KS21CG024	SANSKRITI RAGHAV	1KS21CG034	TANISH KAVERLAPPA P
H P DARSHAN URS	1KS21CG004	MOHITH K	1KS21CG015	PRANAV MUDGAL	1KS21CG025	SHESHAGIRI	1KS21CG035	TARUN G K
HOYSALA Y DEVANGA	1KS21CG005	MOUSHAMI D	1KS21CG016	PUNEETH S	1KS21CG026	SHIVAKUMAR M	1KS21CG036	TEJAS GOWDA N
J YAGNESH ANUGA	1KS21CG006	NISHANTH R	1KS21CG017	RACHNA V	1KS21CG027	SHREYA R	1KS21CG037	THANUSHREE S K
JAHNAVI C	1KS21CG007	NISHMITHA SHETTY B S	1KS21CG018	RAHUL C	1KS21CG028	SHREYAS M V	1KS21CG038	TUSHAR BHAT
JETTI GOUTHAM	1KS21CG008	NITHYASHREE K S	1KS21CG019	RISHIKA SRI LOKESH	1KS21CG029	SHREYAS S KULKARNI	1KS21CG039	VAISHNAVI A
K M ANIL KUMAR	1KS21CG009	R JAGADISHWAR REDDY	1KS21CG020	SAAKSHI S URS	1KS21CG030	SIVA HARSHITHA	1KS21CG040	VARSHA P
KOUSHAL K NAVAK	1KS21CG011	P SHROUJITH SIMHA	1KS21CG021	SADIYA NOOR	1KS21CG031	SNEHA	1KS21CG041	VARUN N PRAKASH
								VEDA K

III 'CSD' Total = 40  
 I 'H' IOT Total = 51

*[Signature]*  
**ACADEMIC COORDINATOR**  
 Head of the Department  
 Dept. of Mechanical Engg.  
 K.S. Institute of Technology  
 Bengaluru - 560 109.

*[Signature]*  
**K.S. INSTITUTE OF TECHNOLOGY**  
**PRINCIPAL**  
 BENGALURU - 560 109.



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

USN

**SET: B**

Degree : B. E.,  
 Branch : Computer Science & Design  
 Course Title : Computer Organization & Architecture  
 Duration : 90 Minutes

Semester : III  
 Course Code : 21CS34  
 Date : 30/11/2022  
 Max Marks : 20

Note: Answer **ONE** full question from each part.  
 K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Identify the basic operational components of a computer with a neat diagram	4	CO1	K3
(b)	Identify performance measurement and the overall SPEC RATING for the computer in program suite..	4	CO1	K3
(c)	Identify the following i. Byte Addressing ii. Big-Endian assignment iii. Little Endian assignment with examples	4	CO1	K3
<b>OR</b>				
2(a)	What is the effective address of the source operand in each of the following instructions when the register R1 and R2 of computer contain the decimal value 1200 and 4600? i. Load 20(R1), R5 ii. Move #3000, R5 iii. Store R5, 30(R1, R2) iv. Add -(R2), R5 v. Subtract (R1)+, R5 vi. Store R5, 20(R2)	4	CO1	K3
(b)	Construct a diagram to show the connection between the processor and the computer memory.	4	CO1	K3
(c)	Make use of the expression $X=(A + B) * (C + D)$ and show the instruction execution in one address, two address, and three address processors in an accumulator organization	4	CO1	K3
<b>PART -B</b>				
3(a)	Identify an interrupt and interrupt service routines, and explain with the diagram the sequence of steps when an interrupt occurs.	4	CO2	K3
(b)	Utilize I/O interface to connect I/O device through the bus to the processor and explain accessing IO device	4	CO2	K3
<b>OR</b>				
4(a)	Identify how simultaneous interrupts requests from several I/O devices can be handled by a processor through a single INTR line	4	CO2	K3
(b)	Identify the different hardware components involved in Program controlled IO with a diagram	4	CO2	K3

*Deepa.S.R*  
*Deepa*  
 Name & Signature of  
 Course In charge

*Deepa.S.R*  
*Deepa*  
 Name & Signature of  
 Module Coordinator

*Deepa*  
 HOD CS&D

*Shuras.h*  
 Principal  
*Selected*



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

**KSIIT**

**SET: A**

Degree : B. E.,  
 Branch : Computer Science & Design  
 Course Title : Computer Organization & Architecture  
 Duration : 90 Minutes

USN

Semester : III  
 Course Code : 21CS34  
 Date : 30/11/2022  
 Max Marks : 20

Note: Answer **ONE** full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Identify the following addressing Modes –Immediate addressing, Indirect addressing, Index addressing, and Register addressing along with syntax and examples	4	CO1	K3
(b)	Identify performance measurement along with SPEC rating for Computer by comparing running time for benchmark computer & computer to be tested.	4	CO1	K3
(c)	Identify the difference between Big Endian and Little Endian methods of byte addressing with proper example	4	CO1	K3
<b>OR</b>				
2(a)	Identify different condition code flags, explain with a diagram	4	CO1	K3
(b)	Construct the basic fundamental units of the computer with a neat diagram and explain	4	CO1	K3
(c)	Make use of the expression $X=A * B + C * D$ and show the instruction execution in one address, two address and three address processors in an accumulator organization	4	CO1	K3
<b>PART -B</b>				
3(a)	Identify the difference between memory-mapped I/O & I/O-mapped I/O	4	CO2	K3
(b)	Utilize I/O interface to connect I/O device through the bus to the processor and explain accessing IO device	4	CO2	K3
<b>OR</b>				
4(a)	Construct the interrupt hardware circuit and explain	4	CO2	K3
(b)	Identify the different hardware components involved in Program controlled IO with diagram	4	CO2	K3





**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

USN

SET-A  
Degree : B.E  
Branch : Computer Science & Design  
Course Title : Computer Organization & Architecture  
Duration : 60 Minutes

Semester: III  
Course Code: 21CS34  
Date: 11-01-2023  
Max Marks:20

Note: Answer **ONE full** question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	<b>Identify</b> the Set Associative mapping technique (between memory to cache memory) with two blocks per set with the relevant diagram.	4	CO3	K3
(b)	<b>Construct</b> and explain the internal organization of a 2M x 8 Dynamic memory chip	4	CO3	K3
(c)	<b>Make use of</b> Static RAM and explain the read and write operations	4	CO3	K3
<b>OR</b>				
2(a)	<b>Construct</b> and explain the organization of 2M x 32 memory using 512M x 8 memory chips	4	CO3	K3
(b)	<b>Identify</b> and explain the working of ROM and various types of ROMS	4	CO3	K3
(c)	<b>Construct</b> and explain the direct mapped cache with the relevant diagram	4	CO3	K3
<b>PART-B</b>				
3(a)	<b>Demonstrate</b> the DMA and its implementation and show how the data is transferred between the memory and I/O devices using the DMA controller.	4	CO2	K3
(b)	<b>Make use of</b> 2's complement representation and perform the addition and subtraction of signed numbers i. +4 and -6 ii. -5 and -2 iii. +7 and -3 iv +2 and +3	4	CO4	K3
<b>OR</b>				
4(a)	<b>Construct</b> a general 8-bit parallel interface circuit	4	CO2	K3
(b)	<b>Identify</b> and explain the working of a 4-bit carry-lookahead adder with a neat diagram.	4	CO4	K3

Deepa. S. R

Deepa. S. R

Deepa

Deepa

Name and Sign of Course In charge

Name and Sign of Module Coordinator

HOD CSD

Principal

Deepa

Deepa



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109  
SECOND INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER

USN

SET - B

Degree : B.E  
Branch : Computer Science & Design  
Course Title : Computer Organization & Architecture  
Duration : 60 Minutes

Semester: III  
Course Code: 21CS34  
Date: 11-01-2023  
Max Marks:20

Note: Answer **ONE** full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	Construct and explain 1K X 1 memory chip	4	CO3	K3
(b)	Identify and explain the memory hierarchy considering speed, cost and size.	4	CO3	K3
(c)	Construct and explain the direct mapped cache with the relevant diagram	4	CO3	K3
<b>OR</b>				
2(a)	Identify the Associative mapping technique with the relevant diagram.	4	CO3	K3
(b)	Construct and explain the internal organization of a 2M x 8 Dynamic memory chip	4	CO3	K3
(c)	Make use of Static RAM and explain the read and write operations	4	CO3	K3
<b>PART-B</b>				
3(a)	Construct a general 8-bit serial interface circuit	4	CO2	K3
(b)	Identify and explain the working of a 4-bit carry-lookahead adder with a neat diagram.	4	CO4	K3
<b>OR</b>				
4(a)	Demonstrate the DMA and its implementation and show how the data is transferred between the memory and I/O devices using the DMA controller.	4	CO2	K3
(b)	Make use of 2's complement representation and perform the addition and subtraction of signed numbers i. +4 and -6 ii. -5 and -2 iii. +7 and -3 iv +2 and +3	4	CO4	K3

Deepa.S.R  
Deepa

Name and Sign of Course In charge

Deepa.S.R  
Deepa

Name and Sign of Module Coordinator

Deepa  
HOD CSD

Kumar  
Principal

Selvak



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

SET: A

Degree : B.E.  
 Branch : Computer Science & Design  
 Course Title : Computer Organization & Architecture  
 Duration : 60 Minutes

USN

Semester : III  
 Course Code : 21CS34  
 Date : 29-03-2023  
 Max Marks : 20

Note: Answer **ONE** full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	Determine the speedup ratio of the pipeline for 500 tasks. A no-pipeline system takes 50 ns to process a task. The same task can be processed in a six-segment pipeline with a clock cycle of 10 ns. What is the maximum speedup that can be achieved?	4	CO5	K3
(b)	Identify four possible hardware schemes that can be used in an instruction pipeline in order to minimize the performance degradation caused by instruction branching	4	CO5	K3
(c)	Construct an Instruction pipeline with 4 stages and explain its working	4	CO5	K3
<b>OR</b>				
2(a)	Identify Flynn's classification that divides computers into four major groups and explain	4	CO5	K3
(b)	Construct a space-time diagram for a six-segment pipeline showing the time it takes to process eight tasks	4	CO5	K3
(c)	Identify the difference between the attached array processor & SIMD array processor. Also, illustrate how the attached array processor is connected to the host computer	4	CO5	K3
<b>PART -B</b>				
3(a)	Obtain the processor's internal single-bus architecture and explain	4	CO4	K3
(b)	Make use of hardwired structure and explain the control unit organization	4	CO4	K3
<b>OR</b>				
4(a)	Identify the organization of a microprogrammed control unit	4	CO4	K3
(b)	Obtain the processor's internal Three-bus architecture and explain	4	CO4	K3

Deepa.S.R  
 Deepa

Name & Signature of  
 Course In charge

Deepa.S.R  
 Deepa

Name & Signature of  
 Module Coordinator

Deepa.S.R  
 Deepa

HOD -CSD

Shomas.6

Principal

Selected



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 ODD SEMESTER**

SET: B

Degree : B.E.  
Branch : Computer Science & Design  
Course Title : Computer Organization & Architecture  
Duration : 60 Minutes

USN

Semester : III  
Course Code : 21CS34  
Date : 29-03-2023  
Max Marks : 20

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	Make use of vector processing to improve the performance of matrix multiplication	4	CO5	K3
(b)	Construct a space-time diagram for a six-segment pipeline showing the time it takes to process eight tasks	4	CO5	K3
(c)	Identify the difference between the attached array processor & SIMD array processor. Also, illustrate how the attached array processor is connected to the host computer	4	CO5	K3
<b>OR</b>				
2(a)	Identify memory interleaving in vector processing	4	CO5	K3
(b)	Identify four possible hardware schemes that can be used in an instruction pipeline in order to minimize the performance degradation caused by instruction branching	4	CO5	K3
(c)	Determine the speedup ratio of the pipeline for 500 tasks. A no-pipeline system takes 50 ns to process a task. The same task can be processed in a six-segment pipeline with a clock cycle of 10 ns. What is the maximum speedup that can be achieved?	4	CO5	K3
<b>PART-B</b>				
3(a)	Identify the organization of a microprogrammed control unit	4	CO4	K3
(b)	Obtain the processor's internal Three-bus architecture and explain	4	CO4	K3
<b>OR</b>				
4(a)	Identify the working of the complete processor with the block diagram	4	CO4	K3
(b)	Make use of hardwired structure and explain the control unit organization	4	CO4	K3

Deepa.S.R  
Deepa

Name & Signature of  
Course In charge

Deepa.S.R  
Deepa

Name & Signature of  
Module Coordinator

Deepa.S.R  
Deepa

HOD -CSD

Principal

Principal



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

ವಿಶ್ವವಿದ್ಯಾನಿಲಯ ಸಂಖ್ಯೆ ೧೯೯೪ ರ ಅಧಿನಿಯಮದ ಅಡಿಯಲ್ಲಿ ಸ್ಥಾಪಿಸಿದ ವಿಶ್ವವಿದ್ಯಾಲಯ

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

State University of Government of Karnataka Established as per the VTU Act, 1994 "JnanaSangama" Belagavi-596018, Karnataka, India

Prof. B. E. Rangaswamy, Ph.D  
REGISTRAR

Phone: (0831) 2498100  
Fax: (0831) 2405467

REF: VTU/BGM/GC/2023/ 620

DATE: 8 MAY 2023

### NOTIFICATION

**Subject:** Tentative Academic Calendar of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of University regarding...

**Reference:** Hon'ble Vice-Chancellor's approval dated: 08.05.2023  
Tentative Academic Calendar of II Semester B.E./B.Tech., B.Arch and B.Plan and IV semester B.E./B.Tech., programs of the University for the academic year 2022-23 are hereby notified as mentioned below;

(Tentative) Academic Calendar for semesters of II semester B.E./B.Tech./B.Arch./B.Plan and IV semester B.E./B.Tech., Programs (May 2023)			
	II semester B.E./B.Tech.	II semester B.Arch, B.Plan	IV semester B.E./ B.Tech
Commencement of even semester	17.05.2023	17.05.2023	17.05.2023
Internship	-----	-----	17.05.2023 To 03.06.2023
Commencement of the Classes	17.05.2023	17.05.2023	05.06.2023
Last Working day of the Semester	31.08.2023	31.08.2023	16.09.2023
Practical Examination/Viva Examination	01.09.2023 To 10.09.2023	01.09.2023 To 08.09.2023	19.09.2023 To 30.09.2023
Theory Examinations	11.09.2023 To 07.10.2023	11.09.2023 To 27.09.2023	03.10.2023 To 20.10.2023
Commencement of next Semester	09.10.2023	09.10.2023	25.10.2023

#### Please Note:

- The academic sessions for EVEN semesters should commence on the **date mentioned** above.



**K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109**  
**TENTATIVE CALENDAR OF EVENTS: IV EVEN SEMESTER (2022-2023)**  
**SESSION: MAY TO SEP 2023**

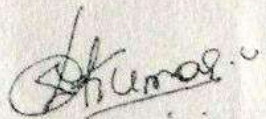
Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	MAY			17*	18	19	20DH	3	17* - Commencement of IV Sem
2	MAY	22	23	24	25	26	27	6	27-Tuesday Time Table
3	MAY/JUN	29	30	31	1	2	3DH	5	
4	JUN	5	6	7	8	9	10	6	10-Wednesday Time Table
5	JUN	12	13	14	15	16 TA	17DH	5	
6	JUN	19 T1	20 T1	21 T1	22	23	24	6	24-Tuesday Time Table
7	JUN/JULY	26	27	28 BV	29H	30 * FFB1	1DH	4	29 - Bakrid 30 - First Faculty Feed Back
8	JULY	3 LT1	4 LT1	5 LT1	6 ASD	7	8	6	8-Wednesday Time Table
9	JULY	10	11	12	13	14	15DH	5	
10	JULY	17	18	19	20	21	22	6	22- Tuesday Time Table
11	JULY	24	25	26	27	28 TA	29H	5	29- Moharam
12	JULY/AUG	31 T2	1 T2	2 T2	3	4	5	6	5- Monday Time Table
13	AUG	7	8	9 BV	10	11 ASD	12 DH	5	
14	AUG	14	15 H	16	17 * FFB2	18	19	5	15 - Independence Day 17 - Second Faculty Feed Back 19- Monday Time Table
15	AUG	21	22	23	24	25	26 DH	5	
16	AUG/SEP	28	29	30	31	1	2	6	2- Wednesday
17	SEP	4	5	6 T3	7 T3	8 T3	9 DH	5	
18	SEP	11LT2	12LT2	13LT2	14	15	16*	6	16- Thursday Time Table 16* - Last Working day

**Total No of Working Days : 95**

**Total Number of working days ( Excluding holidays and Tests)=80**

<b>H</b>	Holiday
<b>BV</b>	Blue Book Verification
<b>T1,T2,T3</b>	Tests 1,2,3
<b>ASD</b>	Attendance & Sessional Display
<b>DH</b>	Declared Holiday
<b>LT1, 2</b>	Lab Test 1,2
<b>TA</b>	Test attendance

Monday	15
Tuesday	15
Wednesday	16
Thursday	17
Friday	17
<b>Total</b>	<b>80</b>

  
**PRINCIPAL**  
**K.S. INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109.**



**K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109**  
**TENTATIVE CALENDAR OF EVENTS: III ODD SEMESTER (2022-2023)**  
**DEPARTMENT OF COMPUTER SCIENCE & DESIGN CALENDAR OF EVENTS**  
**SESSION: OCT 2022 - FEB 2023**

Week No.	Month	Day						Days	Activities	Dept. Activities
		Mon	Tue	Wed	Thu	Fri	Sat			
1	OCT/NOV	31*	1H	2	3	4 TA	5 DH	4	31* - Commencement of III Sem I- Kannada Rajyotsava	4- Technical Talk on Innovation
2	NOV	7	8	9	10	11H	12	5	11- Kanakadasa Jayanti 12- Tuesday Time Table	
3	NOV	14	15	16	17	18	19 DH	5		17- Industrial Visit
4	NOV	21	22	23	24	25	26 TA	6	26 - Wednesday Time Table	
5	NOV/DEC	28 T1	29 T1	30 T1	1	2	3 DH	5		
6	DEC	5	6	7	8 LT1	9 LT1	10 LT1	6	10- Tuesday Time Table	
7	DEC	12* FFB1	13 BV	14 ASD	15	16	17 DH	5	12* - First Faculty Feed Back	12-CCM-1 Performance Report - 1 to parents
8	DEC	19	20	21	22	23	24	6	24 - Wednesday Time Table	24-PTM-1
9	DEC	26	27	28	29	30	31 TA	6	31 - Monday TT	
10	JAN	2 T2	3 T2	4 T2	5	6	7 DH	5		Adroit Club Inaugural
11	JAN	9	10	11	12 BV	13 ASD		5	14- Makara Sankranti	13- BITES Technical Talk
12	JAN	16* FFB2	17	18	19	20	21 DH	5	16* - Second Faculty Feed Back	20- Performance Report-2 to parents & CCM-2
13	JAN	23	24	25	26	27	28	5	26- Republic Day 28- Wednesday Time Table	
14	JAN/FEB	30	31	1 TA	2 T3	3 T3	4 DH	5		
15	FEB	6 T3	7	8 LT2	9 LT2	10 LT2	11*	6	11- Thursday Time Table, 11* - Last Working day	10-Performance Report-3 to parents

**Total No of Working Days : 79**

Total Number of working days ( Excluding holidays and Tests)-64

H	Holiday
BV	Blue Book
T1,T2,T3	Tests 1,2,3
ASD	Attendance & Sessional Display
DH	Declared Holiday
LT	Lab Test
TA	Test attendance

Monday	13
Tuesday	13
Wednesday	13
Thursday	13
Friday	12
<b>Total</b>	<b>64</b>

*K. Kumar. C*

PRINCIPAL  
**K.S INSTITUTE OF TECHNOLOGY**  
**BENGALURU - 560 109**

*Deepa*  
 Head of the Department



## K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

IV SEM

FIRST SESSIONAL TEST TIME TABLE (2022-2023)  
(EVEN SEMESTER 2023)

Date : 15/06/2023

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
26/06/2023 Monday	9:30 AM To 10:30 AM	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21EC41</b> Maths for Communication Engineers	<b>21ME41</b> Complex Analysis, Probability and Linear Programming.
	2:00 PM To 3:00 PM	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21EC42</b> Digital Signal Processing	<b>21ME42</b> Machining Science and Jigs & Fixtures
27/06/2023 Tuesday	9:30 AM To 10:30 AM	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21EC43</b> Circuits & Controls	<b>21ME43</b> Fluid Mechanics
	1:30 PM To 2:30 PM	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers
28/06/2023 Wednesday	9:30 AM To 10:30 AM	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21EC44</b> Communication Theory	<b>21ME44</b> Mechanics of Materials
	1:30 PM To 2:30 PM	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK37/47</b> Samskrutika Kannada / <b>21KBK47</b> Balake Kannada	<b>21KSK47</b> Samskrutika Kannada / <b>21KBK47</b> Balake Kannada	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK47</b> Samskrutika Kannada / <b>21KBK47</b> Balake Kannada
	3:00 PM To 4:00 PM	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.

*[Signature]* 15/6/23  
Academic Coordinator  
Dept. of Mechanical Engg.  
K.S. Institute of Technology  
Bangalore - 560 108

*[Signature]* 15/6/23  
Principal  
K.S. INSTITUTE OF TECHNOLOGY  
BANGALORE - 560 108



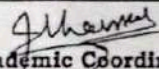


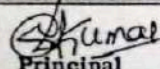
**K. S. INSTITUTE OF TECHNOLOGY, BANGALORE**  
IV SEM  
**SECOND SESSIONAL TEST TIME TABLE (2022-2023)**  
(EVEN SEMESTER 2023)

Date : 22/07/2023

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
31/07/2023 Monday	9:30 AM To 10:30 AM	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21CS41</b> Mathematical Foundations for Computing	<b>21EC41</b> Maths for Communication Engineers	<b>21ME41</b> Complex Analysis, Probability and Linear Programming.
	2:00 PM To 3:00 PM	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21CS42</b> Design and Analysis of Algorithms	<b>21EC42-</b> Digital Signal Processing	<b>21ME42</b> Machining Science and Jigs & Fixtures
1/08/2023 Tuesday	9:30 AM To 10:30 AM	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21CS43</b> Microcontroller and Embedded Systems	<b>21EC43</b> Circuits & Controls	<b>21ME43</b> Fluid Mechanics
	1:30 PM To 2:30 PM	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers	<b>21BE45</b> Biology For Engineers
2/08/2023 Wednesday	9:30 AM To 10:30 AM	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21CS44</b> Operating Systems	<b>21EC44</b> Communication Theory	<b>21ME44</b> Mechanics of Materials
	1:30 PM To 2:30 PM	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK37/47</b> Samskrutika Kannada / <b>21KBK47</b> Balake Kannada	<b>21KSK47</b> Samskrutika Kannada / <b>21KBK47</b> Balake Kannada	<b>21CIP47</b> Constitution of India and Professional Ethics (CIP)	<b>21KSK47</b> Samskrutika Kannada / <b>21KBK47</b> Balake Kannada
	3:00 PM To 4:00 PM	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values	<b>21UH49</b> Universal Human Values

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.

  
Academic Coordinator  
Head of the Department  
Dept. of Mechanical EnGG  
K.S. Institute of Technology  
Bengaluru - 560 109.

  
Principal  
PRINCIPAL  
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BENGALURU - 560 109



## K. S. INSTITUTE OF TECHNOLOGY, BANGALORE

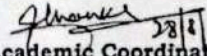
IV SEM

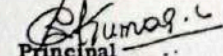
THIRD SESSIONAL TEST TIME TABLE (2022-2023)  
(EVEN SEMESTER 2023)

Date : 28/08/2023

DATE	TIME	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	COMPUTER SCIENCE & DESIGN	COMPUTER SCIENCE & ENGG	ELECTRONICS & COMMUNICATION ENGG	MECHANICAL ENGG
6/09/2023 Wednesday	9:30 AM To 10:30 AM	21CS41 Mathematical Foundations for Computing	21CS41 Mathematical Foundations for Computing	21CS41 Mathematical Foundations for Computing	21EC41 Maths for Communication Engineers	21ME41 Complex Analysis, Probability and Linear Programming.
	2:00 PM To 3:00 PM	21CS42 Design and Analysis of Algorithms	21CS42 Design and Analysis of Algorithms	21CS42 Design and Analysis of Algorithms	21EC42- Digital Signal Processing	21ME42 Machining Science and Jigs & Fixtures
7/09/2023 Thursday	9:30 AM To 10:30 AM	21CS43 Microcontroller and Embedded Systems	21CS43 Microcontroller and Embedded Systems	21CS43 Microcontroller and Embedded Systems	21EC43 Circuits & Controls	21ME43 Fluid Mechanics
	1:30 PM To 2:30 PM	21BE45 Biology For Engineers	21BE45 Biology For Engineers	21BE45 Biology For Engineers	21BE45 Biology For Engineers	21BE45 Biology For Engineers
8/09/2023 Friday	9:30 AM To 10:30 AM	21CS44 Operating Systems	21CS44 Operating Systems	21CS44 Operating Systems	21EC44 Communication Theory	21ME44 Mechanics of Materials
	1:30 PM To 2:30 PM	21CIP47 Constitution of India and Professional Ethics (CIP)	21KSK37/47 Samskrutika Kannada / 21KKBK47 Balake Kannada	21KSK47 Samskrutika Kannada / 21KKBK47 Balake Kannada	21CIP47 Constitution of India and Professional Ethics (CIP)	21KSK47 Samskrutika Kannada / 21KKBK47 Balake Kannada
	3:00 PM To 4:00 PM	21UH49 Universal Human Values	21UH49 Universal Human Values	21UH49 Universal Human Values	21UH49 Universal Human Values	21UH49 Universal Human Values

Note : All the students are strictly informed to wear Lab uniforms, and college ID card is compulsory during the test.

  
28/8/23  
**Academic Coordinator**  
Head of the Department  
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**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**II & IV SEMESTER**  
**FIRST SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)**

**BLACK BOARD**

**ROOM No: NB LH 304 (3RD FLOOR)**

IOT II 'H' SEC	CSD IV SEM	IOT II 'H' SEC
1KS22IC012	1KS21CG046	1KS22IC018
1KS22IC013	1KS21CG047	1KS22IC019
1KS22IC014	1KS21CG048	1KS22IC020
1KS22IC015	1KS21CG049	1KS22IC021
1KS22IC016	1KS21CG050	1KS22IC022
1KS22IC017	1KS21CG051	1KS22IC023

CSD IV SEM	IOT II 'H' SEC	CSD IV SEM
1KS21CG052	1KS22IC024	1KS21CG058
1KS21CG053	1KS22IC025	1KS21CG059
1KS21CG054	1KS22IC026	1KS22CG400
1KS21CG055	1KS22IC027	1KS22CG401
1KS21CG056	1KS22IC028	1KS22CG402
1KS21CG057	1KS22IC029	1KS22CG403

IOT II 'H' SEC	CSD IV SEM	IOT II 'H' SEC
1KS22IC030	1KS22CG404	1KS22IC036
1KS22IC031	1KS22CG405	1KS22IC037
1KS22IC032	1KS22CG406	1KS22IC038
1KS22IC033	1KS22CG407	1KS22IC039
1KS22IC034	1KS22CG408	1KS22IC040
1KS22IC035		1KS22IC041

**CSD IV Total = 23**

**IOT II 'H' Total = 30**

*[Signature]*  
**ACADEMIC COORDINATOR**  
 Head of the Department  
 Dept. of Mechanical Engg.  
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 Bengaluru - 560 109.

*[Signature]*  
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 PRINCIPAL  
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 BENGALURU - 560 109

**K.S.INSTITUTE OF TECHNOLOGY, BANGALORE - 109**  
**II & IV SEMESTER**  
**FIRST SESSIONAL TEST SEATING ARRANGEMENT - 2022-23 (EVEN SEMESTER - 2023)**

BLACK BOARD

ROOM NO: OB SH 307 (3RD FLOOR)

CCE II 'I' SEC	CSD IV SEM	CCE II 'I' SEC	CSD IV SEM	CCE II 'I' SEC	CSD IV SEM	ME II 'J' SEC	CSD IV SEM
1KS22CM033	1KS21CG001	1KS22CM043	1KS21CG013	1KS22CM053	1KS21CG024	1KS22ME001	1KS21CG034
1KS22CM034	1KS21CG002	1KS22CM044	1KS21CG014	1KS22CM054	1KS21CG025	1KS22ME002	1KS21CG035
1KS22CM035	1KS21CG003	1KS22CM045	1KS21CG015	1KS22CM055	1KS21CG026	1KS22ME003	1KS21CG036
1KS22CM036	1KS21CG004	1KS22CM046	1KS21CG016	1KS22CM056	1KS21CG027	1KS22ME004	1KS21CG037
1KS22CM037	1KS21CG005	1KS22CM047	1KS21CG017	1KS22CM057	1KS21CG028	1KS22ME005	1KS21CG038
1KS22CM038	1KS21CG006	1KS22CM048	1KS21CG018	1KS22CM058	1KS21CG029	1KS22ME006	1KS21CG039
1KS22CM039	1KS21CG007	1KS22CM049	1KS21CG019	1KS22CM059	1KS21CG030	1KS22ME007	1KS21CG040
1KS22CM040	1KS21CG008	1KS22CM050	1KS21CG020	1KS22CM060	1KS21CG031	1KS22ME008	1KS21CG041
1KS22CM041	1KS21CG009	1KS22CM051	1KS21CG021		1KS21CG032	1KS22ME009	1KS21CG042
1KS22CM042	1KS21CG011	1KS22CM052	1KS21CG022		1KS21CG033		1KS21CG043
	1KS21CG012		1KS21CG023		1KS21CG034		1KS21CG044

CSD IV Total = 44

CCE II 'I' = 28 ME II 'J' = 9 Total = 37

*[Signature]*  
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*[Signature]*  
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**BENGALURU - 560 109**



**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

SET: B

Degree : B.E  
Branch - Stream : CSD  
Course Title : Microcontroller and Embedded system  
Duration : 60 Minutes

USN

Semester : IV  
Course Type / Code : 21CS43  
Date : 27/6/23  
Max Marks : 20

Note: Answer ONE full question from each part.  
K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	Make use of relevant diagrams .explain the ARM core data flow model.	4	CO1	K3
(b)	Identify the difference between a microprocessor and a microcontroller with an example.	4	CO1	K3
(c)	Choose the ARM single-register and multiple-register load-store addressing modes and explain with an example.	4	CO1	K3
<b>OR</b>				
2(a)	Develop barrel shifter operation in an ARM processor, with a neat diagram.	4	CO1	K3
(b)	Identify four main hardware components and explain an ARM-based embedded device microcontroller with a neat diagram.	4	CO1	K3
(c)	Make use of relevant diagrams and explain the ARM design philosophy.	4	CO1	K3
<b>PART -B</b>				
3(a)	Choose the current programme status register of the ARM7 processor, explain the individual bits.	4	CO2	K3
(b)	Choose the ARM swap instruction and explain with an example code.	4	CO2	K3
<b>OR</b>				
4(a)	Make use of relevant diagrams, explain pipeling in detail.	4	CO2	K3
(b)	Choose and explain the co-processor instructions of the ARM processor.	4	CO2	K3

Surekha B  
Name & Signature of  
Course In charge:

(S. Subbashi Kumar)  
Name & Signature of  
Module Coordinator:

Deefa  
HOD CSD

Principal



**KSIIT**

**K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109**  
**FIRST INTERNAL TEST QUESTION PAPER 2022-23EVENSEMESTER**

SET: A

USN

Degree : B.E  
Branch - Stream : CSD  
Course Title : Microcontroller and Embedded system  
Duration : 60 Minutes

Semester : IV  
Course Type / Code : 21CS43  
Date : 27/6/23  
Max Marks : 20

Note: Answer **ONE full** question from each part.

K-Levels: K1-Remebering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Questions	Marks	CO	K-Level
<b>PART-A</b>				
1(a)	<b>Make use of</b> relevant diagrams explain barrel shifter operation in ARM processor.	4	CO1	K3
(b)	<b>Determine</b> the categories of Load-Store instructions used with ARM.	4	CO1	K3
(c)	<b>Choose</b> the ARM single-register and multiple-register load-store addressing modes and explain with an example.	4	CO1	K3
<b>OR</b>				
2(a)	<b>Make use of</b> relevant diagrams, explain the ARM core data flow model.	4	CO1	K3
(b)	<b>Identify</b> the difference between RISC and CISC, explain the four major rules of RISC design.	4	CO1	K3
(c)	<b>Make use of</b> relevant diagrams and explain the ARM design philosophy.	4	CO1	K3
<b>PART -B</b>				
3(a)	<b>Choose</b> the current programme status register of the ARM7 processor, briefing the individual bits.	4	CO2	K3
(b)	<b>Choose</b> and explain branch instruction with an example code.	4	CO2	K3
<b>OR</b>				
4(a)	<b>Make use of</b> relevant diagrams, explain pipelining in detail.	4	CO2	K3
(b)	<b>Choose</b> and explain the co-processor instructions of the ARM processor.	4	CO2	K3

Sweeta B

S. Subhash Kumar

Name & Signature of  
Course In charge:

Name & Signature of  
Module Coordinator:

HOD CSD

Principal

Selected



**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**SECOND INTERNAL TEST QUESTION PAPER 2022-23EVENSEMESTER**

USN

**SET-A**  
 Degree: B.E  
 Branch: Computer Science & Design  
 Course Title : Microcontroller And Embedded Systems  
 Duration :60Minutes

**IV SEMESTER**  
 Course Code: 21CS43  
 Date: 1/8/2023  
 MaxMarks:20

Note: Answer **ONE** full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO map ping	K-Level
<b>PART-A</b>				
1(a)	Make use of relevant diagram explain the interfacing of stepper motor through the driver circuit to microcontroller.	4	CO3	K3
(b)	Determine and explain in brief on board communication interfaces.	4	CO3	K3
(c)	Evaluate the concept of deadlock with a neat diagram.	4	CO3	K3
<b>OR</b>				
2(a)	Make use of relevant diagram write a program on interfacing and control a DC motor.	4	CO3	K3
(b)	Make use of neat diagram explain operating system architecture.	4	CO3	K3
(c)	Find and explain sensor and Actuator roles in embedded systems with an example.	4	CO3	K3
<b>PART-B</b>				
3(a)	Determine between hard real time and soft real time operating system with a example for each.	4	CO2	K3
(b)	Determine and explain the elements of embedded system.	4	CO4	K3
<b>OR</b>				
4(a)	Choose and Compare between Multiprocessing and Multitasking.	4	CO2	K3
(b)	Identify the different 'Embedded firmware design' approach in detail.	4	CO4	K3

[S. Subhash kumar]

[SURAKHA BYAKOD]

Name and Sign of Course In charge

Name and Sign of Module Coordinator

HOD CSD

Principal

*Selected*



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109  
SECOND INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

USN

SET-B  
Degree: B.E  
Branch: Computer Science & Design  
Course Title : Microcontroller And Embedded Systems  
Duration : 60 Minutes

Semester: IV  
Course Code:21CS43  
Date: 1/8/2023  
MaxMarks:20

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	Determine and describe the classification of embedded systems.	4	CO3	K3
(b)	Identify and explain the following: i. I2C ii. 1-Wire Interface iii. SPI Interface iv. Reset Circuit	4	CO3	K3
(c)	Make use of relevant diagram write a program on the interfacing of stepper motor through the driver circuit to microcontroller.	4	CO3	K3
<b>OR</b>				
2(a)	Evaluate and write a program to display "Hello world" message using internal UART.	4	CO3	K3
(b)	Determine and explain in brief on board communication interfaces.	4	CO3	K3
(c)	Choose and Compare between Multiprocessing and Multitasking.	4	CO3	K3
<b>PART-B</b>				
3(a)	Find and explain in detail the structure, memory organization and state transmission of the process.	4	CO2	K3
(b)	Identify the different 'Embedded firmware design' approach in detail.	4	CO4	K3
<b>OR</b>				
4(a)	Make use of neat diagram explain operating system architecture.	4	CO2	K3
(b)	Determine and explain the elements of embedded system.	4	CO4	K3





**K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109**  
**THIRD INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER**

USN

SET-A

Degree: B.E  
Branch: Computer Science and Design  
Course Title : Microcontroller And Embedded Systems  
Duration : 60 Mins

Semester: IV  
Course Code: 21CS43  
Date: 7-09-2023  
MaxMarks: 20

Note: Answer **ONE full** question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO Mapping	K-Level
<b>PART-A</b>				
1(a)	<b>Evaluate</b> and write an ALP that prints the square of a integers between 0 to 9 using function and explain how to convert this C function to an assembly function.	4	CO5	K3
(b)	<b>Determine</b> and write a short notes on profiling ad cycle counting.	4	CO5	K3
(c)	<b>Determine</b> and explain Unaligned Data and Endianness.	4	CO5	K3
<b>OR</b>				
2(a)	<b>Determine</b> and explain the functional and non-functional requirements for RTOS for an embedded systems.	4	CO5	K3
(b)	<b>Determine</b> and explain on Disassembler/decompiler.	4	CO5	K3
(c)	<b>Choose</b> and compare emulator and simulators.	4	CO5	K3
<b>PART-B</b>				
3(a)	<b>Determine</b> and explain on debugging techniques and target hardware debugging.	4	CO4	K3
(b)	<b>Determine</b> and Explain in Task synchronization issues in racing.	4	CO4	K3
<b>OR</b>				
4(a)	<b>Determine</b> and Explain how to choose an RTOS, Integration and testing of Embedded hardware and firmware.	4	CO4	K3
(b)	<b>Evaluate</b> and write a program on Display the Hex digits 0 to F on a 7-segment LED interface, with an appropriate delay in between.	4	CO4	K3



K.S. INSTITUTE OF TECHNOLOGY  
THIRD INTERNAL TEST QUESTION PAPER 2022-23 EVEN SEMESTER

USN

SET-B

Degree: B.E  
Branch: Computer Science and Design Engineering  
Course Title : Microcontroller And Embedded Systems  
Duration : 60 Mins

Semester: IV  
Course Code: 21CS43  
Date: 7-09-2023  
Max Marks: 20

Note: Answer ONE full question from each part.

K-Levels: K1-Remembering, K2-Understanding, K3-Applying, K4-Analyzing, K5-Evaluating, K6-Creating

Q No.	Question	Marks	CO mapping	K-Level
<b>PART-A</b>				
1(a)	<b>Determine</b> and write a short notes on Register Allocation and allocation variables to register numbers.	4	CO5	K3
(b)	<b>Evaluate</b> and write an ALP using Arm instruction to find factorial of a given number.	4	CO5	K3
(c)	<b>Determine</b> and explain Instruction scheduling with respect to ARM processor.	4	CO5	K3
<b>OR</b>				
2(a)	<b>Choose</b> and compare Differentiate Little Endian and Big Endian Architecture.	4	CO5	K3
(b)	<b>Determine</b> and with reference to the C compilers and Optimization Explain Structure arrangement and Bit fields.	4	CO5	K3
(c)	<b>Determine</b> and explain with an example on c compilers and optimization code with respect to division and floating point.	4	CO5	K3
<b>PART-B</b>				
3(a)	<b>Evaluate</b> and write a program on Demonstrate the use of an external interrupt to toggle an LED On/Off.	4	CO4	K3
(b)	<b>Determine</b> and write a short note on Boundary scan and Simulators.	4	CO4	K3
<b>OR</b>				
4(a)	<b>Evaluate</b> and write a program on Display the Hex digits 0 to F on a 7-segment LED interface, with an appropriate delay in between.	4	CO4	K3
(b)	<b>Choose</b> and compare semaphore and Mutex.	4	CO4	K3