



Updated SAR

CAY: 2020-2021

CAYm1: 2019-2020

CAYm2: 2018-2019

DEPARTMENT OF MECHANICAL ENGINEERING

K S INSTITUTE OF TECHNOLOGY

BANGALORE - 560109



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K. S. INSTITUTE OF TECHNOLOGY

MECHANICAL ENGINEERING

PART A - Institutional Information

1. Name and Address of the Institution: **K.S.Institute of Technology**

No 14, Raghuvanahalli, Kanakapura Road,
Bengaluru – 560109

2. Name and address of the Affiliating University: **Visvesvaraya Technological University**

JnanaSangama, Belagavi,
KARNATAKA – 590018

3. Year of Establishment of the Institution: **1999**

4. Type of the Institution: **Affiliated**

5. Ownership Status: **Society**

6. Other Academic Institutions of Trust/Society/Company etc. if any:

Name of the Institution (s)	Year of Establishment	Programs of Study	Location
K.S. Institute of Technology	1999	Electronics & Communication Engg	K.S. Institute of Technology #14, Kanakapura Rd, Raghuvanahalli Kanakapura Road, Bengaluru-560109, Karnataka, INDIA
	1999	Computer Science & Engg.	
	1999	Mechanical Engg.	
	2000	Telecommunication Engg [Under Progressive Closure]	
	2020	Artificial Intelligence And Machine Learning Engineering	
K.S.School of Engineering And Management	2010	Electronics & Communication Engg	K.S.School Of Engineering And Management # 15, Mallasandra, Off.Kanakapura Road, Bengaluru-560109, Karnataka, INDIA
		Computer Science & Engg.	
		Mechanical Engg.	
		Civil Engg.	
		Electrical & Electronics Engg.	
K.S. School of Architecture	2015	Master of Business Administration	
		Architecture	K.S. School of Architecture No. 15, Off Kanakapura Road, Near Vajarahalli, Mallasandra, Karnataka 560109
K.S. Polytechnic	1992	Electronics & Communication	K. S. POLYTECHNIC No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Karnataka, INDIA
		Computer Science	
		Mechanical	
		Automobile	
		Civil	

7. Details of all the programs being offered by the Institution under consideration:

Name of the program	Program Applied Level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current intake	Accreditation status	From	To	Program for consideration	Program for Duration
Mechanical Engg.	UG	1999	1999	60	YES	120	Applying for first time	-	-	YES	4

Sanctioned intake for Last Five Years for the Mechanical Engineering

Academic Year	Sanctioned intake
2021-22	60
2020-21	60
2019-20	120
2018-19	120
2017-18	120
2016-17	120
2015-16	120

Name of the program	Program Applied Level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current intake	Accreditation status	From	To	Program for consideration	Program for Duration
Machine Design	PG	2011	2011	18	YES	18	Not eligible for accreditation	-	-	No	2

Sanctioned intake for Last Five Years for the Mechanical Engineering

Academic Year	Sanctioned intake
2021-22	18
2020-21	18
2019-20	18
2018-19	24
2017-18	24
2016-17	24
2015-16	24

8. Programs to be considered for Accreditation vide this application

Sl.No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Mechanical Engineering
2	Under Graduate	Engineering & Technology	Electronics and Communication Engineering
3	Under Graduate	Engineering & Technology	Computer Science & Engineering

9. Total number of employees in the institution



A. Regular Employees (Faculty and staff)

Items	2020-21		2019-20		2018-19	
	Min	Max	Min	Max	Min	Max
Faculty in Engg[Male]	40	40	50	50	50	54
Faculty in Engg[Female]	23	27	34	38	33	35
Faculty in Maths, Science & Humanities[Male]	04	04	05	06	06	06
Faculty in Maths, Science & Humanities [Female]	06	06	04	06	07	07
Non-Teaching staff[Male]	49	51	52	52	50	54
Non-Teaching staff[Female]	28	29	32	34	31	33

B. Contractual Staff Employees (Faculty & staff) (Not covered in Table A)

Items	2020-21		2019-20		2018-19	
	Min	Max	Min	Max	Min	Max
Faculty in Engineering [Male]	1	1	1	1	Nil	Nil
Faculty in Engineering[Female]	Nil	Nil	Nil	Nil	Nil	Nil
Faculty in Maths, Science & Humanities[Male]	Nil	Nil	Nil	Nil	Nil	Nil
Faculty in Maths, Science & Humanities[Female]	Nil	Nil	Nil	Nil	Nil	Nil
Non-Teaching staff [Male]	Nil	Nil	Nil	Nil	Nil	Nil
Non-Teaching staff[Female]	Nil	Nil	Nil	Nil	Nil	Nil

10. Total number of Engineering Students

Engineering and Technology- UG	 Shift1	Shift2
Engineering and Technology	 Shift1	Shift2
Polytechnic	Shift1	Shift2
MBA	Shift1	Shift2
MCA	Shift1	Shift2

Engineering and Technology- UG Shift-1:

Item	2020-21	2019-20	2018-19
Total number of Boys	778	822	876
Total number of girls	516	527	598
Total number of students	1294	1349	1474

Engineering and Technology- PG Shift-1:

Item	2020-21	2019-20	2018-19
Total number of Boys	03	01	01
Total number of girls	01	02	02
Total number of students	04	03	03

11. Vision of the Institution:

“To impart quality technical education with ethical values, employable skills and research to achieve excellence”.

12. Mission of the Institution:

- To attract and retain highly qualified, experienced and committed faculty.
- To create relevant infrastructure
- Network with industry and premier institutions to encourage emergence of new ideas by providing research and development facilities to strive for academic excellence
- To inculcate the professional and ethical values among young students with employable skills and knowledge acquired to transform the society

13. Contact Information of the Head of the Institution & NBA coordinator, if designated:

Head of the Institution

Name : [Dr. DILIP KUMAR K](#)
Designation : [Principal & Director](#)
Mobile number: : [+919606064187](#)
Email ID : principal.ksit@gmail.com

NBA coordinator

NBA coordinator

Name : [Dr. P N Sudha](#)
Designation : [Prof. & Head, ECE dept.](#)
Mobile number : [+919880266432](#)
Email ID : pnsudha@ksit.edu.in

PART B: Criteria Summary

Name of the program: **MECHANICAL ENGINEERING**

Criteria No.	Criteria	Total Marks	Institute Marks
	Program Level Criteria		
1	Vision, Mission and Program Educational Objectives	60	59
2	Program Curriculum and Teaching – Learning Processes	120	104
3	Course Outcomes and Program Outcomes	120	110
4	Students’ Performance	150	67.15
5	Faculty Information and Contributions	200	130.6
6	Facilities and Technical Support	80	71
7	Continuous Improvement	50	40
	Institute Level Criteria		
8	First Year Academics	50	41.88
9	Student Support Systems	50	48
10	Governance, Institutional Support and Financial Resources	120	117
	Total	1000	788.63

CRITERIA 1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60
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1. VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

1.1. STATE THE VISION AND MISSION OF THE DEPARTMENT AND INSTITUTE(5)

VISION AND MISSION OF THE INSTITUTE

VISION

“To impart quality technical education with ethical values, employable skills and research to achieve excellence”

MISSION

- To attract and retain highly qualified, experienced & committed faculty.
- To create relevant infrastructure.
- Network with industry & premier institutions to encourage emergence of new ideas by providing research & development facilities to strive for academic excellence.
- To inculcate the professional & ethical values among young students with employable skills & knowledge acquired to transform the society.

VISION AND MISSION OF THE DEPARTMENT

VISION:

“To groom incumbents to compete with their professional peers in mechanical engineering that brings recognition”

MISSION

- M1 : To impart sound fundamentals in mechanical engineering.
- M2 : To expose students to new frontiers.
- M3 : To achieve engineering excellence through experiential learning and team work.

1.2 STATE THE PROGRAM EDUCATIONAL OBJECTIVES (PEOS) (5)

Program Educational Objectives (PEOs)

After 2-3 years of graduation, the students will have the ability to:

PEO1: To produce graduates who would have developed a strong background in basic science and mathematics and ability to use these tools in Mechanical Engineering.

PEO2: To prepare graduates who have the ability to demonstrate technical competence in their fields of Mechanical Engineering and develop solutions to the problems.

PEO3: To equip graduates to function effectively in a multi-disciplinary environment individually, within a global, societal, and environmental context.

1.3 INDICATE WHERE THE VISION, MISSION AND PEOS ARE PUBLISHED AND DISSEMINATED AMONG STAKEHOLDERS (10)

A. ADEQUACY IN RESPECT OF PUBLICATION & DISSEMINATION:

The table 1.1 shows the list of locations where Vision and Mission are published and disseminated

Table 1.1: Publication & dissemination table

SL. NO.	LOCATION	INSTITUTION		DEPARTMENT		
		Vision	Mission	Vision	Mission	PEOs
1	Institute Website	√	√	√	√	√
2	Head of Department Room	√	√	√	√	√
3	Departmental Website	√	√	√	√	√
4	College newsletter	√	√	-	-	-
5	Departmental Magazine	-	-	√	√	√
6	Departmental Seminar Room	-	-	√	√	√
7	Class Rooms	-	-	√	√	√
8	Lab Manual	√	√	√	√	√
9	Faculty Room	-	-	√	√	√
10	Laboratories	-	-	√	√	√
11	Course Files	√	√	√	√	√
12	Departmental Library	-	-	√	√	√
13	Department notice board	-	-	√	√	√
14	HOD's Email communications	-	-	√	√	-

B. PROCESS OF DISSEMINATION AMONG STAKEHOLDERS

Vision, Mission and PEOs are disseminated among all stakeholders through college website.

They are disseminated among all internal stakeholders by displaying in Classrooms, Seminar halls, Noticeboards, Mechanical Research and Development lab, all Laboratories and Department library.

They are also communicated among all stakeholders during Email communications

C. EXTENT OF AWARENESS OF VISION, MISSION & PEOs AMONG THE STAKEHOLDERS

Vision, Mission and PEOs are disseminated/discussed among stakeholders during departmental meetings, employer visits/placement activities, Parents-Teachers meeting and alumni meets.

List of stakeholders:

Internal stakeholders:

- Management
- Faculty and Supporting staff
- Students

External stakeholders:

- Parents
- Alumni
- Employers /Industry
- Professional Bodies

1.4. STATE THE PROCESS FOR DEFINING THE VISION AND MISSION OF THE DEPARTMENT, AND PEOs OF THE PROGRAM (25)

A. PROCESS TO ARRIVE AT THE VISION AND MISSION OF THE DEPARTMENT

The process to arrive at the Vision and Mission of the department is as follows:

Step 1:

- Strengths, Weakness, Opportunity and Challenges (SWOC) analysis report were the basis to identify the key indicators for framing the Vision and Mission statements..
- This process also attempted to understand aspirations of the stakeholders and look into some of the benchmark institutions in the system for arriving at the draft Vision and Mission.

Step 2: Department Advisory Committee (DAC) prepares the draft of Department Vision and Mission by considering views and suggestions by various stakeholders and ensures alignment with Institute Vision and Mission.

Step 3: The Proposed Vision and Mission were placed before Program Advisory Committee (PAC) and Management for approval.

Step 4: The approved Vision and Mission of the Department were published.

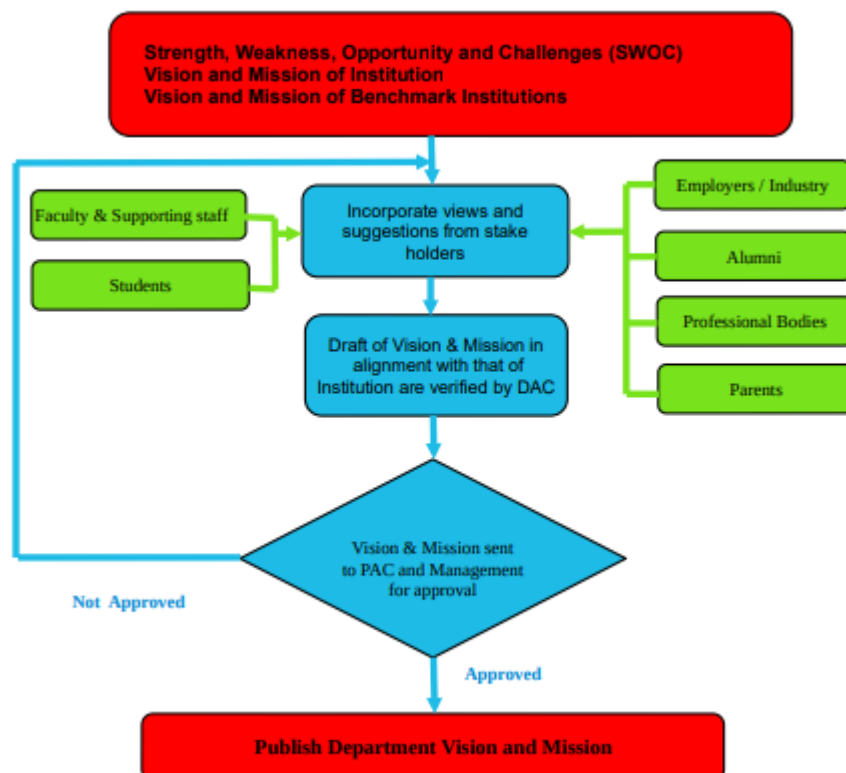


Fig 1: Process Map for defining Vision and Mission of the department.

B. PROCESS FOR DEFINING PEO'S OF THE DEPARTMENT

Step 1:

- Vision and Mission of Department were taken as the basis to formulate and define PEOs.
- The curriculum for all the courses as given by the affiliating university, the outcomes for each course that is listed for the program and the program outcomes (POs) are taken into account to arrive at the draft PEOs.

Step 2: Department Advisory Committee (DAC) prepares the draft PEOs by considering views and suggestions by various stake holders in terms of career, contribution to society, ethical practices and intellectual development.

Step 3: Finalized draft copy of PEOs were reviewed by PAC and were published

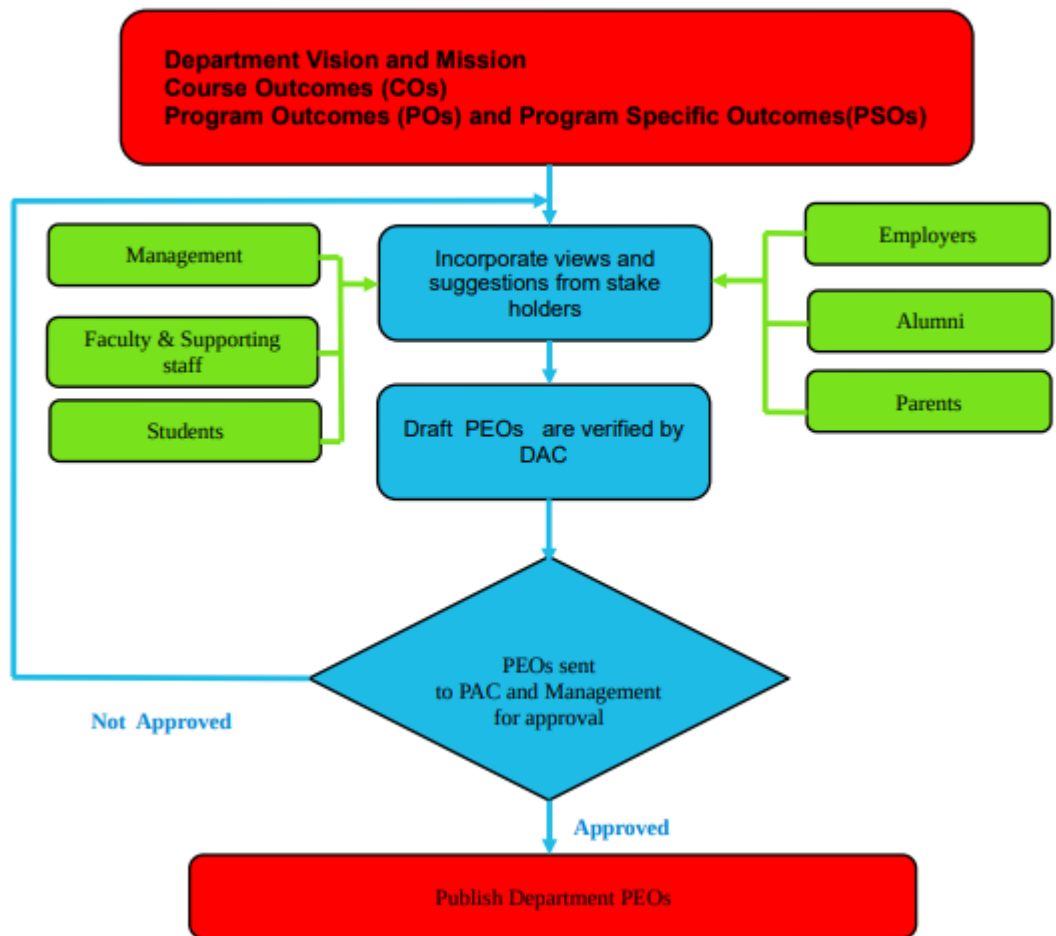


Fig 2: Process map for defining PEOs of the department.

1.5 ESTABLISH CONSISTENCY OF PEOS WITH MISSION OF THE DEPARTMENT

The "Mission of the Department – PEOs matrix" mapping and justification is mentioned in table 1.2 and table 1.3 respectively.

Table 1.2: PEOs and Mission Statement Mapping

MISSION	M1	M2	M3
PEO Statement	To impart sound fundamentals in mechanical engineering	To expose students to new frontiers	To achieve engineering excellence through experiential learning and team work.
PEO1: To produce graduates who would have developed a strong background in basic science and mathematics and ability to use these tools in Mechanical Engineering.	3	3	3
PEO2: To prepare graduates who have the ability to demonstrate technical competence in their fields of Mechanical Engineering and develop solutions to the problems.	3	3	2
PEO3: To equip graduates to function effectively in a multi-disciplinary environment individually, within a global, societal, and environmental context.	3	3	3

1: Slight (Low)

2: Moderate (Medium)

3: Substantial (High)

Table 1.3: PEOs and Mission Statement Mapping with Justification

	PEOs and Mission statement mapping	
	Mapping	Justification
PEO 1 with Mission statements	PEO1 with M1 - 3	Since technical education is been thought as per university curriculum which will get updated every 2 years based on cutting edge technologies, this will be achieved during the course. Additionally workshops and technical talks are conducted based on relevant technologies. Number of graduate aspirants for higher studies is less than graduates who opt for employment level as per available data.
	PEO 1 with M2- 3	To acquire knowledge in technical education and incorporate professional ethics. Most of the graduates work as employees in mechanical industry and few of them will become entrepreneurs and serve the society.
	PEO1 with M3 – 3	Graduates will work in teams for all Cultural, Project Exhibitions, Mini Projects, workshops and conferences. As ME graduates, students will develop applications useful for society through projects and solutions to problems relevant to the mechanical engineering.
PEO 2 with Mission statements	PEO2 with M1 - 3	The change in Constant in Engineering the graduates will get updated through curriculum and technical events. Ratio of graduates selecting Mechanical engineering field profession is higher than pursuing higher studies immediately after graduation.
	PEO2 with M2 - 3	Graduates follow basic professional ethics as employees and while pursuing Masters. Graduates explore experiential Learning during their program study and higher studies.
	PEO2 with M3 - 2	Graduates work as teams in mini and main academic projects and competitions like Society of Automotive Engineers (SAE), Graduates execute the work as competent engineers in multidisciplinary areas to meet the needs of industry through social and environmental concerns.
PEO 3 with Mission statements	PEO3 with M1 - 3	Graduates exhibit their technical knowledge during the projects & technical seminars, presentations and project demos. Graduates improve their self-learning ability to face future challenges and serve society.
	PEO3 with M2 - 3	Graduates follow ethics while publishing Technical papers and while carrying out projects. Graduates develop solutions and design which is helpful for environment and society.
	PEO3 with M3 - 3	Graduates show team spirit and leadership qualities to succeed in their professional career while carrying out the projects, technical and other cultural activities. Graduates will be able to exhibit social concerns during the course through mini-projects, final year projects and project competitions.

CRITERION 2	PROGRAM CURRICULUM AND TEACHING – LEARNING PROCESSES	120
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2.1 PROGRAM CURRICULUM (20):

2.1.1: State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I. Also mention the identified curricular gaps, if any (10)

A. PROCESS USED TO IDENTIFY EXTENT OF COMPLIANCE OF UNIVERSITY CURRICULUM FOR ATTAINING POS AND PSOS:

K.S.Institute of Technology is affiliated to Visvesvaraya Technological University (VTU), Belagavi and hence the syllabus/curriculum of Mechanical Engineering is followed as per the University guidelines. At the beginning of every batch faculty will go through the university syllabus and prepares CO-PO/PSO mapping for that complete batch and keep it in the Department for course owner's reference. Course owners will go through the CO-PO/PSO mapping available in the department and will improvise if felt necessary at the beginning of every semester. The process to identify curriculum gaps is shown in figure 2.1.

CO-PO/PSO mapping of all the courses are tabulated and the number of courses mapping to each PO is taken as 'T', and the summation of mapping strength of each PO/PSO is considered as 'A'. From CO-PO mapping table the target level of each course for gap analysis is fixed at 20%, i.e. if the total number of courses offered for one complete batch are 52, then target level is 20% of 52 courses which is equal to 10 courses. And the criterion for identifying gaps is, each PO has to address at least 10 courses and the summation of mapping strength must be greater than or equal to 30, if either of these conditions are not satisfied then that PO is identified as a gap, and department takes initiatives to bridge the gap by conducting events like Guest Lectures, Workshops, Seminars, Industrial visits etc.

The percentage of curriculum gap is calculated using the formula:

$$\text{\% of Curriculum Gap} = [30-(A)/30]*100$$

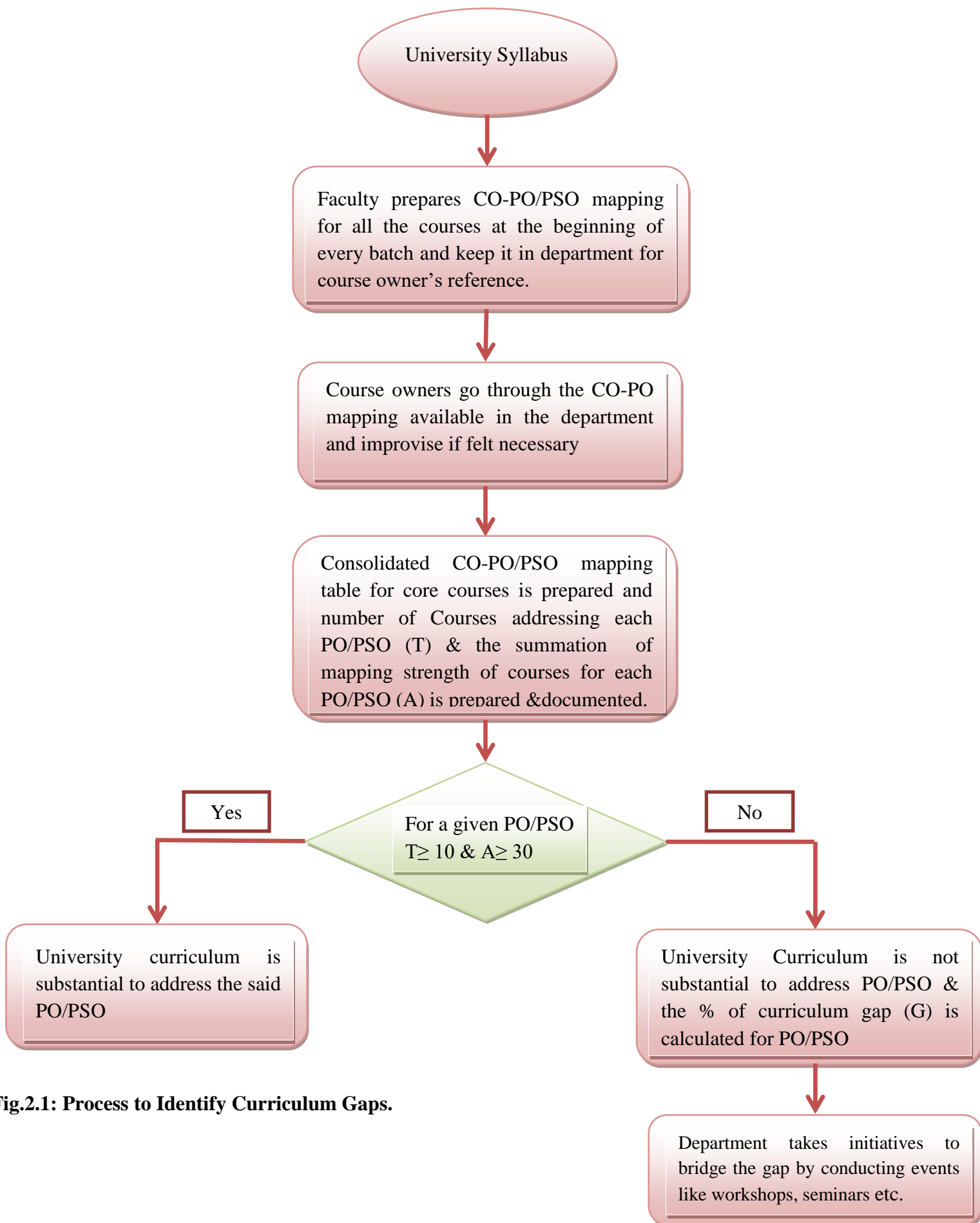


Fig.2.1: Process to Identify Curriculum Gaps.

B.LIST THE CURRICULAR GAPS FOR PO ATTAINMENT

The identified curriculum gaps for 2015-2019 Batch, 2016-2020 Batch, 2017-2021 Batch and consolidate list of curriculum gaps identified are shown in Table 2.1, 2.2 and 2.3 respectively

Table 2.1: Identified Curriculum Gaps for 2015-2019 Batch

SL.NO	SUBJECT CODE	SUBJECT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO1	PSO2
1	15MAT11	ENGINEERING MATHS-I	3	2	1.3	-	-	-	-	-	-	-	-	-	-	-
2	15PHY12	ENGINEERING PHYSICS	2.8	2	2	-	-	-	2	-	-	-	-	1.8	-	-
3	15CIV13	ELEMENTS OF CIVIL ENGG. & MECHANICS	3	3	2	1.8	1	1	-	-	1	-	-	1	-	-
4	15EME14	ELEMENTS OF MECHANICAL ENGG.	2.2	1.2	-	-	-	1	-	-	-	-	1	-	-	-
5	15ELE15	BASIC ELECTRICAL ENGG.	3	2	-	-	-	1	-	-	-	-	-	-	-	-
6	15WSL16	WORKSHOP PRACTICE	3	-	-	-	-	2	-	-	3	-	-	-	-	
7	15PHYL17	ENGG. PHYSICS LAB	2.2	2	1.6						2			1		
8	15MAT21	ENGINEERING MATHS-II	3	2.2	1.8											
9	15CHE22	ENGINEERING CHEMISTRY	3	2	1	1										
10	15PCD23	PROGRAMMING IN C & DATA STRUCTURES	3	2	1	1	2							2.6		
11	15CED24	COMPUTER AIDED ENGINEERING DRAWING	2.2	2.8	2		2.4									
12	15ELN25	BASIC ELECTRONICS	3	2	1						1	2		1		
13	15CPL26	COMPUTER PROGRAMMING LAB	3	2	2	1	3							2		
14	15CHEL27	ENGG. CHEMISTRY LAB	3	2	1											
15	15MAT31	ENGINEERING	3	2	1.2											1

		MATHS-III														
16	15ME32	MATERIAL SCIENCE	2.6	1.6	2		2	1		2	1			1	1.8	1.2
17	15ME33	BASIC THERMODYNAMICS	3	2	1	1.2		1	1	1				2	2	1
18	15ME34	MECHANICS OF MATERIALS	3	1.4	1	1	2	2	-	1	1	2	-	2	3	1
19	15ME35	MACHINE TOOL OPERATIONS	2.4	1.4	1	1	1.6	1	1	1	1	1	-	2	3	2.4
20	15ME36A	COMPUTER AIDED MACHINE DRAWING	3	2.2	2	2	3	1.4	-	-	2.25	-	-	2	3	1.2
21	15ME37	MATERIAL TESTING LAB	2.8	3	-	-	-	1	-	2	3	1	-	-	3	3
22	15ME38	MACHINE SHOP	3	-	2.2	-	2	-	-	-	2	-	-	1	2	2
23	15MAT41	ENGINEERING MATHS-IV	3	3	-	2	-	-	-	-	-	-	-	3	1	1
24	15ME42	KINEMATICS OF MACHINERY	3	2	2	-	-	-	-	-	-	-	-	-	2.6	1.4
25	15ME43	APPLIED THERMODYNAMICS	3	2	2	1.8	-	1	1	-	-	-	-	1	2	1
26	15ME44	FLUID MECHANICS	3	3	2	2	2	1	1	2	2	1	-	2	3	2
27	15ME45A	METAL CASTING AND WELDING	2.6	1.4	1	1	1.6	1	1	1	1	1	-	1.4	2	2.2
28	15ME46B	MECHANICAL MEASUREMENTS AND METROLOGY	2	1.2	1	-	-	1	1	-	1	1.8	-	2	1.6	1.2
29	15MEL47	MECHANICAL MEASUREMENTS AND METROLOGY LAB	2.4	1	-	-	-	-	-	2	3	1	-	-	2.4	2
30	15MEL48B	FOUNDRY AND FORGING LAB	3	1	-	-	-	-	-	-	3	1	-	-	2	2
31	15ME51	MANAGEMENT AND ENGINEERING ECONOMICS	1	1.6	-	2	-	-	-	-	3	3	2.4	1	2	1.8

32	15ME52	DYNAMICS OF MACHINERY	3	2	1.8	-	-	-	-	-	-	-	-	-	3	1.4
33	15ME53	TURBOMACHINES	3	3	2	1	1	1	-	-	-	-	-	1	3	1
34	15ME54	DESIGN OF MACHINE ELEMENTS-I	3	3	2	1.8	-	-	-	2	1	-	-	-	3	1.6
35	15MEL57	FLUID MECHANICS AND MACHINES LABORATORY	3	2.4	1	1.67	1	-	-	-	1	-	-	1	2	1
36	15MEL58	ENERGY LAB	3	2	1	1	-	1	-	-	1	-	-	1	3	1
37	15ME61	FINITE ELEMENT METHOD	3	3	2	1	-	-	-	-	-	-	-	2	3	1
38	15ME62	COMPUTER INTEGRATED MANUFACTURING	1.6	2	1	-	2	1	-	-	1	2	-	2	2	1.2
39	15ME63	HEAT TRANSFER	3	2.2	1.2	1.2	1	-	-	2	1	1	-	2	2.6	1
40	15ME64	DESIGN OF MACHINE ELEMENTS –II	3	2	2	1	-	-	-	2	-	-	-	-	3	1
41	15MEL67	HEAT TRANSFER LAB	3	3	1	1	-	2	-	-	1	-	-	2	2	1
42	15MEL68	MODELING AND ANALYSIS LABORATORY	3	3	3	3	2.8	1	1	-	2	2	1	2	3	2
43	15ME71	ENERGY ENGINEERING	3	2	1	1	-	1	1	-	-	-	-	-	2	1
44	15ME72	FLUID POWER SYSTEM	3	2	1	1	-	-	-	-	-	-	-	-	3	2
45	15ME73	CONTROL ENGINEERING	3	1.8	-	-	-	1	-	-	1	1	-	1	2.8	1
46	15MEL76	DESIGN LABORATORY	3	2	1	1	1	1	-	-	3	-	-	-	2	2
47	15MEL77	CIM and Automation LAB	2.8	1.8	-	-	3	-	-	1	1	3	-	-	3	1.6
48	15ME81	OPERATION RESEARCH	2.6	2.5	1	1	-	1	1	-	1	-	1	1	2.4	1.8
49	15ME82	ADDITIVE MANUFACTURING	3	2	1	1.5	-	-	-	-	-	-	-	-	3	2

50	15MEL85	PROJECT WORK	3	3	3	3	3	3	3	3	3	1.6	3	1	1.6	3	2.8
51	15MEL84	INTERNSHIP/PROFESSIONAL PRACTICE	3	3	3	3	3	3	3	3	3	1.6	3	1	1.6	3	2.8
52	15MES86	SEMINAR	3	1.25	1	2	1.8	1	1	2	1	3	1	2	3	2	
		SUM = A	146.2	105.9	65.1	44.97	42.2	33.4	18	27	48.45	32.8	8.4	50	93.2	59.6	
		(Total no. of courses addressing each PO)= T	52	50	42	30	21	26	13	15	30	18	7	31	37	38	
		GAP G = ((30-A)/(30))*100							40%	10%			72%				

Table 2.2: Identified Curriculum Gaps for 2016-2020 Batch

SL.NO	SUBJECT CODE	SUBJECT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO1	PSO2
1	15MAT11	ENGINEERING MATHS-I	3	2	1.3											
2	15PHY12	ENGINEERING PHYSICS	2.8	2	2				2					1.8		
3	15CIV13	ELEMENTS OF CIVIL ENGG. & MECHANICS	3	3	2	1.8	1	1			1			1		
4	15EME14	ELEMENTS OF MECHANICAL ENGG.	2.2	1.2				1					1			
5	15ELE15	BASIC ELECTRICAL ENGG.	3	2				1								
6	15WSL16	WORKSHOP PRACTICE	3					2			3					
7	15PHYL17	ENGG. PHYSICS LAB	2.2	2	1.6						2			1		
8	15MAT21	ENGINEERING MATHS-II	3	2.2	1.8											
9	15CHE22	ENGINEERING CHEMISTRY	3	2	1	1										
10	15PCD23	PROGRAMMING IN C & DATA STRUCTURES	3	2	1	1	2							2.6		
11	15CED24	COMPUTER AIDED ENGINEERING DRAWING	2.2	2.8	2		2.4									

12	15ELN25	BASIC ELECTRONICS	3	2	1						1	2		1		
13	15CPL26	COMPUTER PROGRAMMING LAB	3	2	2	1	3							2		
14	15CHEL27	ENGG. CHEMISTRY LAB	3	2	1											
15	15MAT31	ENGINEERING MATHS-III	3	2	1.2											1
16	15ME32	MATERIAL SCIENCE	2.6	1.6	2	-	2	1	-	1	1	-	-	1	1.8	1.2
17	15ME33	BASIC THERMODYNAMICS	3	2	1	1	-	1	1	1	-	-	-	1	2	1
18	15ME34	MECHANICS OF MATERIALS	3	1.4	1	1	1	-	-	-	1	1	-	1	3	1
19	15ME35	MACHINE TOOL OPERATIONS	2.4	1.4	1	1	-	1	1	-	1	1	-	1	3	2.4
20	15ME36A	COMPUTER AIDED MACHINE DRAWING	3	2.2	2	1.2	3	1.4	-	-	1	-	-	1.2	3	1.2
21	15ME37	MATERIAL TESTING LAB	2.8	3	-	-	-	1	-	2	3	1	-	-	3	3
22	15ME38	MACHINE SHOP	3	-	-	-	-	-	-	1	2.6	2	-	-	2	2
23	15MAT41	ENGINEERING MATHS-IV	3	3	-	2	-	-	-	-	-	-	-	3	1	1
24	15ME42	KINEMATICS OF MACHINERY	3	1.8	1.8	-	-	-	-	-	-	-	-	-	2.6	1.4
25	15ME43	APPLIED THERMODYNAMICS	3	2	2	1.8	-	1	1	-	-	-	-	1	2	1
26	15ME44	FLUID MECHANICS	3	3	3	2	1	1	-	1	-	-	-	2	3	1.2
27	15ME45A	METAL CASTING AND WELDING	2.4	1.4	1	1	-	1	1	-	1	1	-	1	3	2.4
28	15ME46B	MECHANICAL MEASUREMENTS AND METROLOGY	3	1.2	0.4	-	-	1	1	-	1	1.8	-	2	1.6	1.2
29	15MEL47	MECHANICAL MEASUREMENTS AND METROLOGY LAB	2.4	1	-	-	-	1	-	2	3	1	-	-	2.4	2
30	15MEL48B	FOUNDRY AND	3	2	-	1	-	-	-	-	3	1	-	-	2	2

		FORGING LAB														
31	15ME51	MANAGEMENT AND ENGINEERING ECONOMICS	3	-	-	1	-	1	-	-	3	3	2.25	-	2.3	3
32	15ME52	DYNAMICS OF MACHINERY	3	2	1.4	-	-	-	-	-	-	-	-	-	3	1.4
33	15ME53	TURBOMACHINES	3	3	2	1	1	1	-	-	-	-	-	1	3	1
34	15ME54	DESIGN OF MACHINE ELEMENTS-I	3	3	2	-	-	1	-	2	-	-	-	-	3	1.6
35	15MEL57	FLUID MECHANICS AND MACHINES LABORATORY	3	2.4	-	-	-	-	-	1	2	-	-	1	2	1
36	15MEL58	ENERGY LAB	3	2	1	1	-	1	1.67	-	1	-	-	1	2	3
37	15ME61	FINITE ELEMENT METHOD	3	3	2	1	-	-	-	-	-	-	-	1	3	1
38	15ME62	COMPUTER INTEGRATED MANUFACTURING	1.6	2	1	-	2	1	-	-	1	2	-	2	2	1.2
39	15ME63	Heat Transfer	3	2.2	1.2	1.2	1	-	-	2	1	1	-	2	2.6	1
40	15ME64	DESIGN OF MACHINE ELEMENTS –II	3	3	2	-	2	1	-	2	-	-	-	-	3	1
41	15MEL67	HEAT TRANSFER LAB	3	3	1	1	-	2	-	-	1	-	-	2	2	1
42	15MEL68	MODELING AND ANALYSIS LABORATORY	3	3	3	1	3	1	-	-	1	-	-	1	3	3
43	15ME71	ENERGY ENGINEERING	3	2.4	1.6	1	1	1.4	1	-	1	-	-	1	3	1.8
44	15ME72	FLUID POWER SYSTEM	3	3	2	1	1	-	-	-	-	-	-	1	3	1.6
45	15ME73	CONTROL ENGINEERING	1.8	2	1	-	-	-	-	-	-	-	-	1	1	1
46	15MEL76	DESIGN LABORATORY	3	1	1	-	1	1.2	-	-	3	1	-	1	1	2
47	15MEL77	CIM and Automation LAB	2.8	1.8	-	-	3	-	-	1	1	3	-	-	3	1.6

48	15ME81	OPERATION RESEARCH	3	2.5	2	2	2	1	2	-	1	1	2	1.8	2.4	1.8
49	15ME82	ADDITIVE MANUFACTURING	3	2	1	1.5	-	-	-	-	-	-	-	-	3	2
50	15MEL85	PROJECT WORK	3	3	3	3	3	3	3	3	1.6	3	1	1.6	3	2.8
51	15MEL84	INTERNSHIP/PROFES SIONAL PRACTICE	3	1.2	1	2	1.8	1	1	2	1	3	1	2	3	2.2
52	15MES86	SEMINAR	3	1.25	1	2	1.8	1	1	2	1	3	1	2	3	2
		SUM = A	148.2	104.9 5	63.3	36.5	39	33	16.67	23	44.2	31.8	8.25	46	91.7	63
		(Total no. of courses addressing each PO)= T	52	49	41	27	21	28	12	14	28	18	6	32	37	38
		GAP G = ((30-A)/(30))*100							44%	23%			73%			

Table 2.3: Identified Curriculum Gaps for 2017-2021 Batch

SL.NO	SUBJECT CODE	SUBJECT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO1	PSO2
1	17MAT11	ENGINEERING MATHS-I	3	2	1.3	-	--	-	-	-	-	-	-	-	-	-
2	17PHY12	ENGINEERING PHYSICS	2.8	2.4	2.2	-	-	2	2	-	-	-	-	2	-	-
3	17CIV13	ELEMENTS OF CIVIL ENGINEERING AND MECHANICS	3	3	2	1.8	1	0.6	-	-	0.4	-	-	1	3	1.6
4	17EME14	ELEMENTS OF MECHANICAL ENGINEERING	3	0.6	-	-	-	1	0.4	-	1	1	-	1.6	2	3
5	17ELE15	BASIC ELECTRICAL ENGG.	3	2	-	-	-	1	-	-	-	-	-	-	-	-
6	17WSL16	WORKSHOP PRACTICE	3	-	-	-	-	2	-	-	1.8	-	-	-	-	-
7	17PHYL17	ENGG. PHYSICS LAB	3	2.5	1.3	1	-	-	1.3	-	2	-	-	1	-	-
8	17MAT21	ENGINEERING MATHS-II	3	2.2	1.8	-	-	-	-	-	-	-	-	-	-	-
9	17CHE22	ENGINEERING	3	2	1	1	-	-	-	-	-	-	-	-	-	-

		CHEMISTRY														
10	17PCD23	PROGRAMMING IN C & DATA STRUCTURES	3	2	1	1	2	-	-	-	-	-	-	1.6	-	-
11	17CED24	COMPUTER AIDED ENGINEERING DRAWING	2.2	2.8	2	-	2.4	-	-	-	-	-	-	-	1	1
12	17ELN25	BASIC ELECTRONICS	2.8	2	-	-	-	3	2	-	1	2	1	3	-	-
13	17CPL26	COMPUTER PROGRAMMING LAB	3	2	2	1	3	-	-	-	-	-	-	2	-	-
14	17CHEL27	ENGG. CHEMISTRY LAB	3	1	1	-	-	-	-	-	-	-	-	-	-	-
15	17MAT31	ENGINEERING MATHEMATICS - III	3	2	2	1	1	1	-	-	1	-	-	1	1	1
16	17ME32	MATERIAL SCIENCE	3	1.4	1.3	-	2	1	-	-	1	-	-	1	3	1.2
17	17ME33	BASIC THERMODYNAMICS	3	2	2	1	1	1	-	-	-	-	-	1	3	1
18	17ME34	MECHANICS OF MATERIALS	3	2	1	1	2	-	-	1	-	2	-	1	3	2
19	17ME35A	METAL CASTING AND WELDING	2.6	1.4	1	1	-	1	1	-	1	1	-	1.4	2	2.2
20	17ME36A	COMPUTER AIDED MACHINE DRAWING	3	2	2	2	3	1	-	-	1	-	-	2	2	3
21	17MEL37 A	MATERIALS TESTING LAB	3	3	3	3	2.4	-	-	2	3	3	-	3	2.4	1.8
22	17MEL38 A	FOUNDRY AND FORGING LAB	3	2	-	1	-	-	-	-	3	1	-	-	2	2
23	17MAT41	ENGINEERING MATHEMATICS-IV	3	2	1	1	-	-	-	-	1	1	-	-	1	1
24	17ME42	KINEMATICS OF MACHINERY	3	2	1.8	1	1.2	1	-	-	1	-	-	1	2.6	1.4
25	17ME43	APPLIED THERMODYNAMICS	3	3	3	2	1	1	1	-	-	-	-	1	3	1
26	17ME44	FLUID MECHANICS	3	3	2	2	1	1	-	-	-	-	-	2	3	1
27	17ME45B	MACHINE TOOLS AND OPERATIONS	2.4	1.4	1	1	-	0.4	0.6	-	1	1	-	1	3	2.4

28	17ME46B	MECHANICAL MEASUREMENTS AND METROLOGY	2.4	1.2	0.4	-	-	1	1	-	1	1.8	-	2	1.6	1.2
29	17MEL47B	MECHANICAL MEASUREMENTS AND METROLOGY LAB	2.6	2.6	2	1	2	1	1	1	1.6	1	-	2	2.4	1
30	17MEL48B	MACHINE SHOP	3	-	-	-	-	2	-	-	3	-	-	-	2	1
31	17ME51	MANAGEMENT AND ENGINEERING ECONOMICS	1	1.6	-	1.4	-	1	1	1	1.2	1.8	2.4	1.4	1	1.8
32	17ME52	DYNAMICS OF MACHINERY	3	2.8	1.6	1.4	-	-	-	-	1	-	-	-	2	1
33	17ME53	TURBO MACHINES	3	3	2	1	1	1	-	-	-	-	-	1	3	1
34	17ME54	DESIGN OF MACHINE ELEMENTS - I	3	2.2	2	2	1	1.6	2	2	-	-	-	1	2.2	2
35	17ME554	NON TRADITIONAL MACHINING	3	2	2	-	-	-	1	1	3	2	-	2	2.8	2
36	17ME562	ENERGY AND ENVIRONMENT	3	2	-	-	-	-	3	2	2	-	-	2	2	1
37	17MEL57	FLUID MECHANICS & MACHINERY LAB	3	2.4	1	2	1	-	-	-	1	1	-	1	2	1
38	17MEL58	ENERGY LAB	3	3	1	1	1	1	-	-	1	-	-	1	3	1
39	17ME61	FINITE ELEMENT ANALYSIS	3	3	2	1	1	-	-	-	-	-	-	1	3	1
40	17ME62	COMPUTER INTEGRATED MANUFACTURING	2	2	1	-	-	1	-	-	1	2	-	2	2	1.2
41	17ME63	HEAT TRANSFER	3	2.2	1.2	1.2	1	-	-	2	1	1	-	2	2.6	1
42	17ME64	DESIGN OF MACHINE ELEMENTS -II	3	3	2	2	-	2	-	1	-	-	-	-	3	1
43	17ME655	AUTOMOTIVE ENGINEERING	2.4	1.8	1	1	1	1	-	-	1	2	-	1	1	1.8
44	17ME662	INDUSTRIAL SAFETY	2	1	-	-	-	2	2	1	1	1	2	1	2	1
45	17MEL67	HEAT TRANSFER	3	3	1	1	-	2	-	-	1	-	-	2	2	1

		LAB														
46	17MEL68	MODELING AND ANALYSIS LAB (FEA)	3	3	3	3	2.8	1	1	-	2	2	1	2	3	2
47	17ME71	ENERGY ENGINEERING	3	3	2	2	1	1	1	-	1	-	-	1	3	1
48	17ME72	FLUID POWER SYSTEMS	3	3	3	2	1	-	-	-	-	-	-	1	3	1
49	17ME73	CONTROL ENGINEERING	2.8	1.8	-	-	-	1	-	-	1	1	-	-	2.8	1
50	17ME742	TRIBOLOGY	2.4	2.4	2.5	1.6	-	2	1.4	-	-	-	-	1	3	1.4
51	17ME754	MECHATRONICS	3	2	-	-	-	1	-	-	1	1	-	-	3	2
52	17MEL76	DESIGN LAB	3	2	1	1	1	1	-	-	3	-	-	-	2	2
53	17MEL77	COMPUTER INTEGRATED MANUFACTURING LAB	2.8	1.8	-	-	3	-	-	1	1	3	-	-	3	2
54	17MEP78	PROJECT PHASE – I	3	2	1	1.5	1.5	1	-	-	-	-	-	-	3	2
55	17ME81	OPERATIONS RESEARCH	2.6	2.5	1	1	-	1	1	-	1	-	1	1	2.4	1.4
56	17ME82	ADDITIVE MANUFACTURING	3	2	1	1.5	-	-	-	-	-	-	-	-	3	2
57	17ME835	PRODUCT LIFE CYCLE MANAGEMENT	2	1	-	-	-	-	-	-	1	1	1	1	2	2
58	17ME84	INTERNSHIP / PROFESSIONAL PRACTICE	3	2	1	2	1.8	2	1.6	2	2	3	2	2	3	2.2
59	17ME85	PROJECT PHASE – II	3	3	3	3	3	3	3	3	1	3	3	3	3	2.2
60	17MES86	SEMINAR	3	1.25	1	2	1.8	1	1	2	1	3	1	2	3	2.2
		SUM = A	169.80	125.25	76.40	59.40	48.90	49.60	29.30	22.00	54.00	42.60	14.40	64.00	118.80	75.00
		(Total no. of courses addressing each PO)= T	60	58	47	40	30	38	21	14	39	25	9	41	49	49
		GAP G= ((30-A)/(30))*100							18.6%	38.8%			60%			

Table 2.4: Consolidated List of Curriculum Gaps Identified

2015-2019 Batch

PO	% Curriculum Gap
PO7	40%
PO8	10%
PO11	72%

2016-2020 Batch

PO	% Curriculum Gap
PO7	44%
PO8	23%
PO11	73%

2017-2021 Batch

PO	% Curriculum Gap
PO7	18.6%
PO8	38.8%
PO11	60%

2.1.2. STATE THE DELIVERY DETAILS OF THE CONTENT BEYOND THE SYLLABUS FOR THE ATTAINMENT OF POS AND PSOS (10)

A. INITIATIVES TAKEN TO ADDRESS CURRICULUM GAPS

Department of Mechanical Engineering takes initiatives to bridge the gaps identified in curriculum by conducting events which may include, workshops like, “Three day workshops on Advanced concepts of Automotive technology”, to enlighten students about latest happening in automotive industry, guest lectures are being organized from time to time to deliver lectures on latest trends and thrust areas in Mechanical Engineering and visits to reputed industries like GTTC, BMRCL, Solar power plant, Shivanasamudra and Cauvery Hydro power plant, etc., are planned well in advance and are being organized every year. To make students industry ready and to improve their skill sets, soft skill and aptitude training Programmes were conducted at the beginning of every semester, department also provides platform for students to exhibit their ideas in the form of projects and technical papers during project exhibition and national conferences. Also Various Humanitarian activities are organized and students are motivated to participate in the same. (Every year KSIT NSS cell organizes NSS camps like Parivarthana in rural areas, Students along with faculty are encouraged to participate and get involved in various social activities). The details of content beyond syllabus related events are shown in table B.2.1.2a, B.2.1.2b and B.2.1.2c.

2020-2021

Table B.2.1.2a: Delivery Details of the Content Beyond Syllabus for the Academic Year 2020-2021

Sl.No.	Gap	Action Taken	Date-Month-Year	Resource Person with designation	No of Participants	Semester	Relevance to POs, PSOs
1	PO8, PO11	Webinar on, ‘Design Innovation for Successful carrier in the field of Aviation for Mechanical Students’.	07-07-2021	Dhanish Abdul Khader	70	4 th , 6 th Semester	PO1, PO6, PO8, PO10, PO11, PO12
2	PO8	Technotsav-2K21 Inter-Department Technical Event	17-07-2021	Mr.Sheshnath B CEO & MD Walvoil, Bangalore	40	2 nd , 4 th , 6 th & 8 th Semester	PO1, PO2, PO8, PO9, PO11
3	PO8	Webinar on, ‘Non Destructive Evaluation (NDE) of Castings’.	21-07-2021	Mr. Vijaya Raghavan Chief Manager, HAL, Bangalore	195	2 nd , 4 th , 6 th & 8 th Semester	PO1, PO2, PO6, PO8, PO10

Table B.2.1.2b: Delivery Details of the Content Beyond Syllabus for the Academic Year 2019-2020

SL No.	Gap	Action Taken	Date-Month-Year	Resource Person with designation	No of Participants	Semester	Relevance to POs, PSOs
1	PO8	Technical Training Programme	13-8-2019 to 17-8-2019	Dr.KVA Balaji, (CEO, KSIG) Dr.K.Ramanarasimha (Principal, KSSEM)	190	7 th	PO1, PO2, PO3, PO6, PO8, PO10
2	PO8	Technical Talk- On Current trends in the core field of Foundry Management	19-09-2019	Dr.P Ragothama Rao (Chairman, The Institute of Indian Foundrymen)	75	5 th &7 th	PO1, PO2, PO6, PO8, PO10, PO12
3	PO8, PO11	EMANATION-2019 Inter Department Technical Fest	27-09-2019	Mr. Mahesh N Assistant Manager Toyota Industries Engine India Pvt. Ltd.,	248 Teams	1 st , 3 rd , 5 th & 7 th	PO1, PO8, PO10, PO11
4	PO8	Technical Talk on Innovation Motivation & Entrepreneurship in Foundry Industry	18-10-2019	Dr.K.Shamshundhar Founder & Chairmen M/s SS Groups of Industries	75	5 th & 7 th	PO1, PO2, PO6, PO8, PO10, PO12
5	PO7	Workshop on Electric Motor Cycles Development (Wulkin Motor cycles)	31-10-2019 to 03-11-2019	Mr.Sishir (Founder, Wulkin Motor Cycles)	25	1 st , 3 rd , 5 th & 7 th	PO1, PO2, PO3, PO4, PO6, PO7, PO9, PO10, PO12
6	PO7	Industrial Visit to Solar Power Plant, KPCL & Cauvery Hydro Energy Limited	05-11-2019	Mr.Subhas Plant Supervisor	86	5 th	PO1, PO2, PO3, PO4, PO6, PO7, PO9, PO10, PO12
7	PO7	Technical Talk on Thin & Thick Cylinders	12-11-2019	Mr.Abhishek M R Assistant Professor KSSEM, Bangalore	75	3 rd	PO1, PO2, PO3, PO4, PO10, PO12
8	PO8, PO11	Workshop on Fundamental of GD&T, hands on training on 2D & 3D Drawing using Auto CADD Software	27-01-2020 to 01-02-2020	Mr. Harish U & Mr. Madhu G Assistant Professors Department of MED, KSIT	30	5 th	PO1, PO2, PO3, PO5, PO8, PO11
9	PO8, PO11	Workshop on Dress Elements of Engineering Components Using Finite Element Analysis	20-01-2020 to 25-01-2020	Mr. Nagabhushan Associate Professor Department of MED KSIT	30	5 th	PO1, PO2, PO3, PO5, PO8, PO11
10	PO8, PO11	Technical Talk on Importance of Design	17-02-2020	Mr. Gopalappa Canter CADD India	50	4 th , 6 th	PO1, PO2, PO3, PO5,

		& Analysis Software in Mechanical Engineering		Pvt. Ltd.,			PO8, PO11
11		Technical Talk on Importance of IOT in the field of Mechatronics	24-02-2020	Mr. Nagabhushan Kanektify	50	4 th , 6 th	PO1, PO6,

2018-2019

Table B.2.1.2c: Delivery Details of the Content beyond Syllabus for the Academic Year 2018-2019

SL No.	Gap	Action Taken	Date-Month-Year	Resource Person with designation	No of Participants	Semester	Relevance to POs, PSOs
1	PO10 PO11	Technical Talk-Demo on Microsoft Technology Associate Workshop	22-2-2019	Mr. Yadav.K.Mahendra	80	4 th Sem, 6 th Sem	PO6,PO9, PO10,PO11, PO12, PSO1, PSO2
2	PO11	Workshop on Robotics , Mechatronics and industrial automation.	1-4-2019	Mr. Malav Thacker (PI Robotics)	75	6 th Sem	PO1 to PO12 (except PO5,PO7) PSO1, PSO2
3	PO11	3 Day Workshop on Ansys Training	8-4-2019 to 10-4- 2019	Mr. Nagabhushana .M Associate Professor Department of Mechanical Engineering, KSIT	50	8 th Sem	PO1 to PO12 (except PO5,PO7) PSO1, PSO2
4	PO7	Visit to EVEXPO (An Electric Vehicle Exposition)	21-09-2018 to 23-09-2018	Rajiv Arora, Anuj Sharma (Altius Auto Solutions Pvt. Ltd)	120	6 th Sem	PO1,PO6, PO7,PO9, PO10, PO11, PO12, PSO1, PSO2
5	PO7	Lecture on HVAC (Heating Ventilation & Air Conditioning)	31-10-2018	Mr. Muneer , Mr.Asif (Princeton Smart Engineers)	75	6 th Sem	PO5,PO6, PO7,PO8, PO9, PO10, PO11, PO12, PSO1, PSO2

2. TEACHING - LEARNING PROCESSES (100)

2.2.1 DESCRIBE PROCESSES FOLLOWED TO IMPROVE QUALITY OF TEACHING & LEARNING

A. Adherence to Academic calendar

The institutional academic calendar which is a derivative of the university academic calendar that is sent to every institution will be prepared at the beginning of every semester, highlighting CIE Dates, Cultural & sports events and all other activities that is common to the institution. Institutional calendar of events is sent to all the Departments to draw up the Departmental Academic calendar that reflects the departmental activities like GUEST LECTURES, Workshops, Industrial Visits, Internships, and Project Reviews and so on..The details of adherence to academic calendar and its implementation is shown in figure 2.2 and 2.3 respectively and effective compliance of academic calendar with university calendar for three academic years is shown from table 2.4 to 2.9. The sample of Calendar of Events of university, institute and department is shown in figure 2.4, 2.5 and 2.6 respectively.

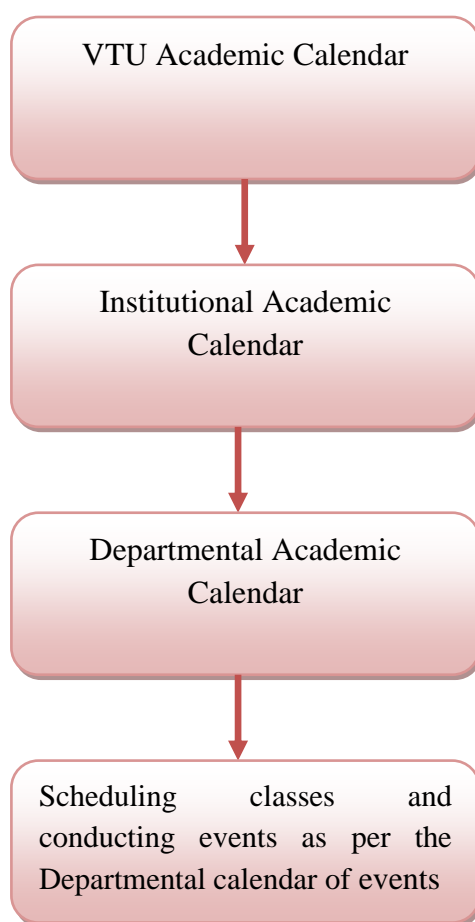


Fig.2.2: Adherence to Academic Calendar

Implementation of 'Calendar of Events':

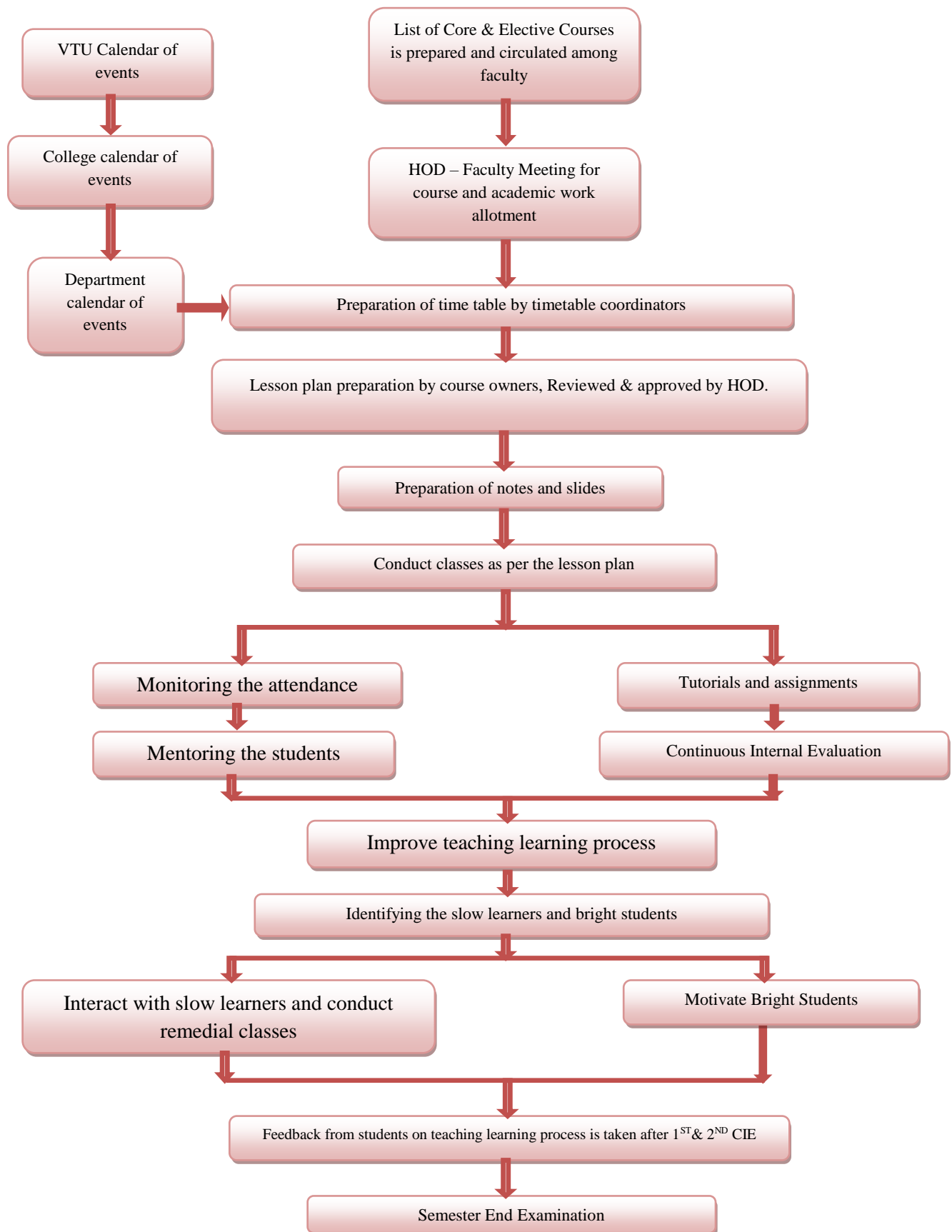


Fig.2.3: Implementation of Academic Calendar

2020-2021

Table 2.5: Effective compliance of academic calendar with university calendar (August-December 2020)

Sl. No.	Activity	Dates	Complied/ Not Complied
1	Commencement of Semester	01-09-2020	Yes
2	Inauguration of I Year BE Classes	16-12-2020	Yes
3	I CIE Schedule	28-09-2020 TO 30-09-2020	Compiled but Conducted on 5/10/2020 to 07-10-2020
4	Blue Book Verification	06-10-2020	Yes (14-10-2020)
5	Project Phase-1 Presentation	05-11-2020	Yes
6	II CIE Schedule	02-11-2020 TO 04-11-2020	Compiled but Conducted on 17/11/2020 to 19-11-2020
7	Blue Book Verification	10-11-2020	Yes (26-11-2020)
8	Lab Test	10-12-2020 TO 12-12-2020	Yes
9	VII Semester Project Presentation	1-12-2020 & 2-12-2020	Yes
10	III CIE Schedule	07-12-2020 to 09-12-2020	Compiled but Conducted on 04/01/2021 to 09-01-2021
11	Blue Book Verification	15-12-2020	Yes (15-01-2021)
12	Last Working Day	17-12-2020	Yes (Postponed to 16-01-2021 by University)

Table 2.6: Effective compliance of academic calendar with university calendar (February-June 2021)

Sl. No.	Activity	Dates	Complied/Not Complied
1	Commencement of Semester	19-04-2021	Yes
2	I CIE Schedule	24-05-2021 to 26-05-2021	Yes
3	Project Phase-2 Presentation		Yes
4	II CIE Schedule	28-06-2021 to 30-06-2021	Yes

5	Lab Test	02-08-2021 to 05-08-2021	Yes
6	VIII Semester Project Presentation	15-07-2021 to 17-07-2021	Yes
7	VIII Semester Technical Seminar Presentation	04-05-2021	Yes
8	III CIE Schedule	29-07-2021 to 31-07-2021	Compiled but Conducted on 05/08/2021 to 07-08-2021
9	Last Working Day	07-08-2021	Yes

2019-2020

Table 2.7: Effective compliance of academic calendar with university calendar (August-December 2019)

Sl. No.	Activity	Dates	Complied/ Not Complied
1	Commencement of Semester	29-07-2019	Yes
2	Inauguration of I Year BE Classes	10-08-2019	Yes
3	I CIE Schedule	11-09-2019 to 13-09-2019	Yes
4	Blue Book Verification	20-09-2019	Yes
5	Project Phase-1 Presentation	13-09-2020 to 14-09-2020	Yes
6	Inter Department Technical fest-Emanation	27-09-2019	Yes
7	II CIE Schedule	14-10-2019 to 16-10-2019	Compiled but Conducted on 21/10/2019 to 24-10-2019
8	Blue Book Verification	23-10-2019	Yes (29-10-2021)
9	Lab Test	21-11-2019 to 23-11-2019	Compiled but Conducted on 25/11/2019 to 27-11-2019
10	VII Semester Project Presentation	11-11-2019 to 13-11-2019	Yes
11	III CIE Schedule	25-11-2019 to 27-11-2019	Compiled but Conducted on 21/11/2019 to 3-11-2019
12	Last Working Day	30-11-2019	Yes

Table 2.8: Effective compliance of academic calendar with university calendar (February-June 2020)

Sl. No.	Activity	Dates	Complied/Not Complied
1	Commencement of Semester	10-02-2020	Yes
2	I CIE Schedule	12-03-2020 to 14-03-2020	Yes
3	Blue Book Verification	18-03-2020	Yes
4	Graduation Day	23-02-2020	Not Compiled due to Pandemic
5	Project Phase-2 Presentation	20-05-2020 to 23-05-2020	Yes
6	II CIE Schedule	11-04-2020 to 15-04-2020	Compiled but Conducted on 01/05/2020 to 03-05-2020
7	Blue Book Verification	24-04-2020	Yes (09-05-2020)
8	Lab Test	21-05-2020 to 23-05-2020	Not Compiled
9	VIII Semester Project Presentation	20-05-2020 to 23-05-2020	Yes
10	VIII Semester Technical Seminar Presentation		Yes
11	III CIE Schedule	18-05-2020 to 20-05-2020	Compiled but Conducted on 27/05/2020 to 29-05-2020
12	Last Working Day	01-06-2020	Yes

2018-2019**Table 2.9: Effective compliance of academic calendar with university calendar (August-December 2018)**

Sl. No.	Activity	Dates	Complied/ Not Complied
1	Commencement of Semester	30/07/2018	Yes
2	Inauguration of I Year BE Classes	11/08/2018	Yes
3	I CIE Schedule	14/09/2018 To 17/09/2018	Yes
4	Blue Book Verification	19/09/2018	Yes
5	Project Phase-1 Presentation	20/9/2018	Yes
6	Inter Department Technical fest-Emanation	5/10/2018	Yes

7	II CIE Schedule	25/10/2018 To 27/10/2018	Yes
8	Blue Book Verification	2/11/2018	Yes
9	Lab Test	27/11/2018 To 1/12/2018	Yes
10	VII Semester Project Presentation	9/11/2018 To 19/11/2018	Yes
11	III CIE Schedule	22/11/2018 To 24/11/2018	Yes
12	Last Working Day	4/12/2018	Yes

Table 2.10: Effective compliance of academic calendar with university calendar (February-June 2019)

Sl. No.	Activity	Dates	Complied/Not Complied
1	Commencement of Semester	6/2/2019	Yes
2	I CIE Schedule	11/3/2019 To 13/3/2019	Yes
3	Blue Book Verification	19/3/2019	Yes
4	Graduation Day	24/3/2019	Yes
5	Project Phase-2 Presentation	25/3/2019 & 26/3/2019	Yes
6	II CIE Schedule	18/4/2019 To 22/4/2019	Yes
7	Blue Book Verification	27/4/2019	Yes
8	Lab Test	13/5/2019 To 17/5/2019	Yes
9	VIII Semester Project Presentation	8/5/2019 To 16/5/2019	Yes
10	VIII Semester Technical Seminar Presentation	18/2/2019 To 20/3/2019	Yes
11	III CIE Schedule	20/5/2019 To 22/5/2019	Yes
12	Last Working Day	17/6/2019	Yes

2017-2018

Table 2.11: Effective compliance of academic calendar with university calendar (Aug-Dec 2017)

Sl. No.	Activity	Dates	Complied/ Not Complied
1	Commencement of Semester	07/08/2017	Yes

2	I CIE Schedule	20/9/2017 To 22/9/2017	Yes
3	Blue Book Verification	27/9/2017	Yes
4	Project Phase-1 Presentation	02/11/2017	Yes
5	II CIE Schedule	23/10/2017 To 25/10/2017	Yes
6	Blue Book Verification	30/10/2017	Yes
7	Lab Test	20/11/2017 To 25/11/2017	Yes
8	III CIE Schedule	13/11/2017 To 15/11/2017	Postponed to (15/11/2017 to 17/11/2017)
9	Last Working Day	25/11/2017	Yes

Table 2.12: Effective compliance of academic calendar with university calendar (Jan-May 2018)

Sl. No.	Activity	Dates	Complied/ Not Complied
1	Commencement of Semester	22/1/2018	Yes
2	I CIE Schedule	05/3/2018 To 07/3/2018	Yes
3	Blue Book Verification	14/3/2018	Yes
4	Graduation Day	19/5/2018	Yes
5	Project Phase-2 Presentation	19/02/2018 To 24/02/2018	Yes
6	II CIE Schedule	09/4/2018 To 11/4/2018	Postponed to (16/4/2018 to 19/4/2018)
7	Blue Book Verification	19/4/2018	Yes
8	Lab Test	21/5/2018 To 24/5/2018	Yes
9	VIII Semester Project Presentation	2/04/2018 To 07/04/2018	Yes
11	III CIE Schedule	14/5/2018 To 16/5/2018	Postponed to (16/05/2018 to 18/05/2018)
12	Last Working Day	26/5/2018	Yes

University calendar of events:

Academic Calendar of VTU, Belagavi for ODD Semester of 2019-2020 (Jul 2019 – Jan 2020)

	I Sem B. E. / B. Tech. / B. Arch. (Tentative)	III, V & VII Sem B. E. /B. Tech. III, V, VII & IX Sem B. Arch.	III & V Sem MCA	III Sem MBA	III Sem M. Tech.	III Sem M. Arch.
Commencement of ODD Semester	01.08.2019	29.07.2019	29.07.2019	08.08.2019	26.08.2019	08.09.2019
Last Working day of ODD Semester	29.11.2019	30.11.2019	30.11.2019	05.12.2019	23.12.2019	06.01.2020
Practical Examinations	03.12.2019 To 13.12.2019	03.12.2019 To 13.12.2019	03.12.2019 To 07.12.2019	-	-	-
Theory Examinations	16.12.2019 To 04.01.2020	16.12.2019 To 07.02.2020	09.12.2019 To 28.12.2019	09.12.2019 To 04.01.2020	27.12.2019 To 10.01.2020	08.01.2020 To 22.01.2020
Internship Viva-Voce	-	-	-	-	12.01.2020 To 19.01.2020	-
Professional training / Organization study	-	-	-	-	-	-
Commencement of EVEN Semester	27.01.2020	10.02.2020	27.01.2020	27.01.2020	27.01.2020	01.02.2020

NOTE:

- VII Semester B. E / B. Tech students shall have to undergo **Internship** for a period of four Weeks.
- I Semester B. E/ B. Tech / B. Arch Students shall compulsorily undergo **Induction Program** for a period of 3 Weeks (two phases) as per the schedule given by VTU. First phase 11 days in first semester and second phase 10 days in second semester.

1. College Time Table shall be arranged for five and a half week days and planned to accommodate EDUSAT transmission slots, the schedule of which will be notified separately.
2. The faculty/staff shall be available to undertake any work assigned by the university.
3. If any of the above date is declared to be a holiday then the corresponding event will come into effect on the next working day.
4. Notification regarding Calendar of Events relating to the conduct of University Examination will be issued by the Registrar (Evaluation) from time to time.


REGISTRAR

Fig. 2.4: University Calendar of Events

College calendar of events



K.S INSTITUTE OF TECHNOLOGY, Bengaluru-109 CALENDAR OF EVENTS: ODD SEMESTER (2019-2020) SESSION: JUL 2019 – DEC 2019

Week No.	Month	Day						Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	July/Aug	29	30	31	1	2	3DH	5	
2	Aug	5	6	7	8	9DH	10	5	9 - Varamaha lakshmi 10 - Monday Time Table
3	Aug	12H	13	14	15H	16	17	4	11 - Inauguration of I semester classes 12 - Bakrid 15 - Independence Day 17 - Tuesday Time Table
4	Aug	19	20	21	22	23	24DH	5	
5	Aug	26	27	28	29	30	31	6	31 - Wednesday Time Table
6	Sep	2H	3	4	5	6	7DH	4	2 - Vinayaka chaturthi
7	Sep	9 TA	10H	11T1	12 T1	13 T1	14	5	10 - Moharam 14 - Friday Time Table
8	Sep	16	17	18	19	20BV	21DH	5	16-20 First feed back
9	Sep	23ASD	24 MA	25	26	27	28H	5	28 - Mahalaya Amavasya
10	Sep/Oct	30	1	2H	3	4	5*	5	2 - Gandhi Jayanthi 5-Ayudha pooja in college 5 - Monday Time Table
11	Oct	7H	8H	9	10	11	12 TA	4	7 - Ayudha pooja 8 - Vijaya dasami 12 - Monday Time Table
12	Oct	14 T2	15 T2	16 T2	17	18	19DH	5	
13	Oct	21	22	23 BV	24 ASD	25 MA	26	6	26 - Tuesday Time Table
14	Oct/Nov	28	29H	30	31	1H	2DH	3	29 - Balipadyami 1 - Kannada Rajyothava
15	Nov	4	5	6	7	8	9	6	9 - Tuesday Time Table 4-8 Second feed back
16	Nov	11	12	13	14	15H	16DH	4	15-Kanakadasa Jayanthi
17	Nov	18	19	20	21 LT	22 LT	23 LT	6	LT-Lab test for higher semester 23 - Monday Time Table
18	Nov	25 T3	26 T3	27T3	28	29 BV ASD	30* MA	6	30 - Thursday Time Table, Last Working Day for Higher sem T3 - Higher semester
19	Dec	2	3	4	5	6	7 DH	5	
20	Dec	9 T3	10 T3	11 T3	12	13	14 LT	6	T3, LT - First semester
21	Dec	16 LT	17 LT	18 BV	19 ASD	20 MA	21*	6	21 - Tuesday Time Table and Last working day for I sem

TOTAL NO. of Working Days: 106

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
MA	Master Attendance

Total Number of working days (Excluding holidays and Tests)

Higher Sem	16	First Sem	
Monday		Monday	16
Tuesday	15	Tuesday	17
Wednesday	15	Wednesday	16
Thursday	16	Thursday	17
Friday	15	Friday	17
Total	77	Total	83

8.8.15
PRINCIPAL
INSTITUTE OF TECHNOLOGY
Bengaluru - 560 109

Fig. 2.5: College Calendar of Events

Department calendar of events



K.S. INSTITUTE OF TECHNOLOGY, Bengaluru-109 CALENDAR OF EVENTS: ODD SEMESTER (2019-2020) SESSION: JUL 2019 – NOV 2019

Week No	Month	Day						Days	Activities	Department Activities
		Mon	Tue	Wed	Thu	Fri	Sat			
1	July/Aug	29	30	31	1	2	3DH	5		
2	Aug	5	6	7	8	9DH	10	5	9 - Varamaha lakshmi 10 - Monday Time Table	
3	Aug	12H	13	14	15H	16	17	4	12 - Bakrid 15 - Independence Day 17 - Tuesday Time Table	13th - 17th - VII Sem Technical Training Programme
4	Aug	19	20	21	22	23	24DH	5		
5	Aug	26	27	28	29	30	31	6	31 - Wednesday Time Table	29 - Technical Talk on HVAC
6	Sep	2H	3	4	5	6	7DH	4	2 - Vinayaka chaturthi	
7	Sep	9TA	10H	11T1	12T1	13T1	14	5	10 - Moharum 14 - Friday Time Table	14th - Technical Talk
8	Sep	16	17	18	19	20BV	21DH	5	16-20 First feed back	
9	Sep	23ASD	24MA	25	26	27	28H	5	28 - Mahalaya Amavasya	25th - Dept. Parent Teachers Meeting 26th - Industrial Visit V Sem 27th - EMANATION
10	Sep/Oct	30	1	2H	3	4	5*	5	2 - Gandhi Jayanthi 5 - Ayudha pooja in college 5 - Monday Time Table	4th - 5th - Industrial Visit III Sem
11	Oct	7H	8H	9	10	11	12TA	4	7 - Ayudha pooja 8 - Vijaya dasara 12 - Monday Time Table	
12	Oct	14T2	15T2	16T2	17	18	19DH	5		18th - Industrial Visit VII Sem
13	Oct	21	22	23BV	24ASD	25MA	26	6	26 - Tuesday Time Table	
14	Oct/Nov	28	29H	30	31	1H	2DH	5	29 - Balipadyaru 1 - Kannada Rajyothava	31st - Dept. Parent Teachers Meeting
15	Nov	4	5	6	7	8	9	6	9 - Tuesday Time Table 4-8 Second feed back	9th - Technical Talk
16	Nov	11	12	13	14	15H	16DH	4	15 - Kanakadasa Jayanthi	
17	Nov	18	19	20	21LT	22LT	23LT	6		
18	Nov	25T3	26T3	27T3	28	29BV ASD	30*MA	6	30 - Thursday Time Table and Last Working Day	
TOTAL NO. of Working Days: 89										

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
MA	Master Attendance Filling

Total Number of working days (Excluding holidays and Tests)

Monday	16
Tuesday	15
Wednesday	15
Thursday	16
Friday	15
Total	77

Signature of Co-ordinator

5/8/19
Head of the Department
Signature of HOD
Dept. of Mechanical Engg.
K.S. Institute of Technology
Bengaluru - 560 109.

Fig. 2.6: Department Calendar of Events

B. USE OF VARIOUS INSTRUCTIONAL METHODS AND PEDAGOGICAL INITIATIVES:

The teaching learning process involves the following:

- Lectures
- Presentations
- Projects
- Handouts/Notes
- Case Study discussion
- Lab/Workshop visits

Pedagogical Initiatives

- In every class, the theme or the topic is presented with real world examples related to the theme.
- For example, application of microcontroller in controlling the speed of a DC motor by varying the pulse width of the clock.
- Theoretical concepts are explained by using practical models, through audio and video presentations.

The list of Pedagogical Initiatives & Usage of ICT tools by faculty is shown in table 2.13 & Fig. 2.7 respectively.

Table 2.13: List of Pedagogical Initiatives by Faculty

Sl.No.	Semester	Course	Name of The Faculty	Innovative Method
1	I	Elements OF Mechanical Engineering	Mr. Ranganath N	PPT on Properties, Composition and Industrial applications of engineering materials
2	II	Elements OF Mechanical Engineering	Mr. Kaushik M M	Demonstration of Machine Tools (Lab Visit)
3	III	Basic Thermodynamics	Mr. Nagaprasad K S	Discussions on Basic Concepts of Thermodynamics.
4	V	Metal Forming	Mr.Manjunath B R	Case Studies on Different types of Forming Process
5	V	Dynamics of Machinery	Mr.Anilkumar A	Case Studies on Static and Dynamic Balancing of Masses
6	VII	Fluid Power System	Mr.K V Manjunath	PPT on Basic Layout of Hydraulic System
7	VII	Automotive Engineering	Mr.Parashuram A K	PPT on Engine Components and its principal parts

Sl.No	Semester	Course	Name of The Faculty	Innovative Method
1	II	Engineering Graphics	Mr. Manjunath B R	PPT on Introduction to Graphics
2	II	Elements OF Mechanical Engineering	Mr. Kaushik M M	Demonstration of Machine Tools (Lab Visit)
3	IV	Applied Thermodynamics	Mr. Nagaprasad K S	A seminar on Applied Thermodynamics
4	IV	Kinematics of Machinery	Mr. Anilkumar A	Case Studies on mechanisms
5	IV	Mechanical Measurements and Metrology	Mr. Bharath Kumar K R	Case Study on Measurement of Strain and Temperature
6	VIII	Product Life Cycle Management	Mr. Gautham G	PPT on Introduction to PLM



Fig.2.7: Usage of ICT tools by faculty for effective lecture Delivery

C. METHODOLOGIES TO SUPPORT "WEAK STUDENTS" AND ENCOURAGE "BRIGHT STUDENTS"

The slow learners are identified based on their performance in first CIE and participation in class room discussion. Students who have scored less than 50% of the marks in the first CIE are identified as a slow learners and Department schedules remedial classes to interact with the students and to motivate them to do well in 2nd and 3rd CIE. Faculty highlights students about important concepts in their respective courses and assist students to improve their learning levels by issuing various instructional materials like hand notes, Question bank Covering repeatedly asked questions in University question papers and etc. Attempts are made by the faculty to give personal attention to these students, where in each faculty is assigned with 20-25 students for mentoring and parents teachers meeting is scheduled as and when necessary. The process to identify weak students, schedule of remedial classes and Sample Attendance copy of Remedial Classes is represented is figure 2.8, 2.9 and 2.10 respectively. The assistance given to Weak Students is mentioned in table 2.14.

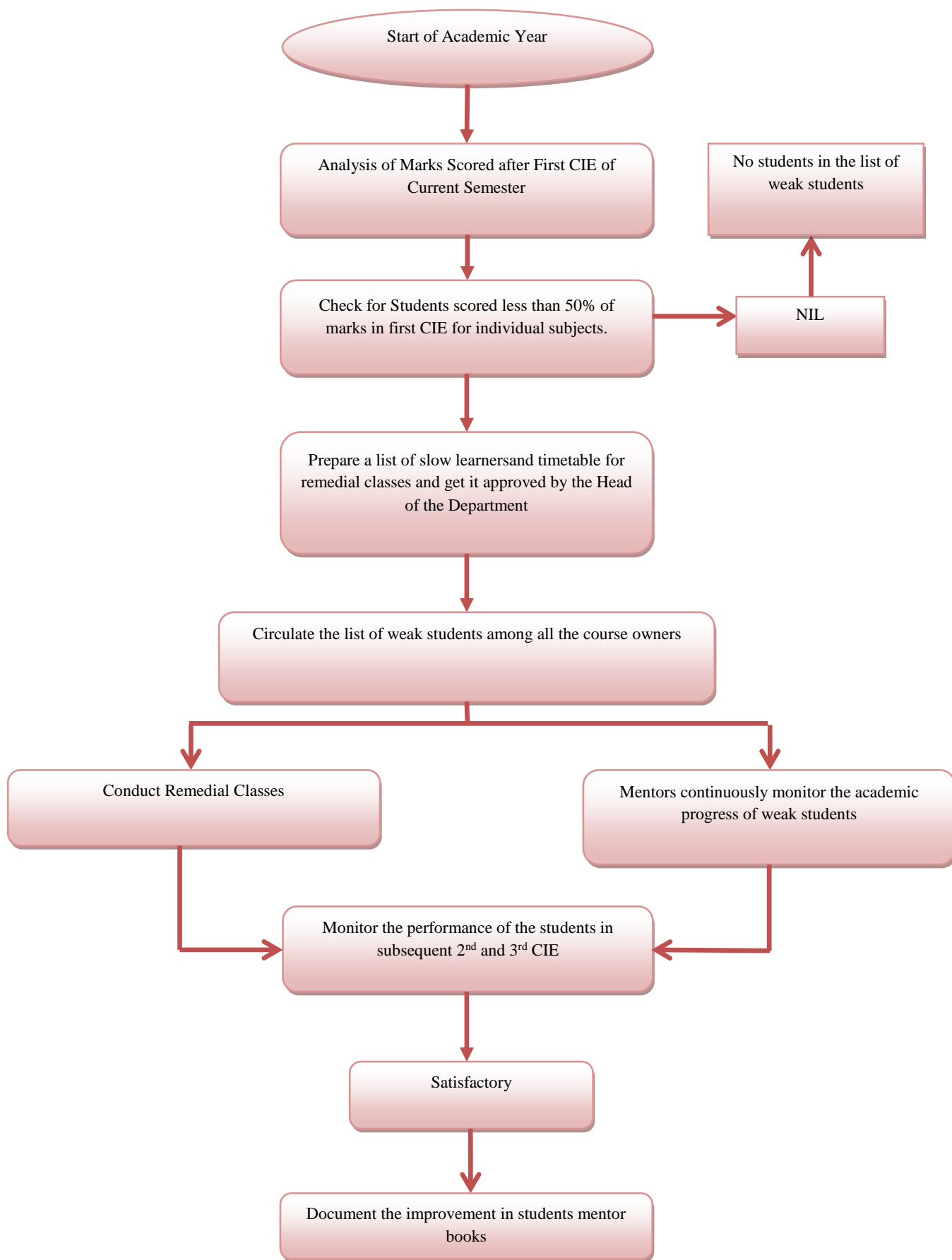


Fig.2.8: Process to Identify Weak Students

Table 2.14: Assistance given to weak Students

Sl. No.	Academic Year	Target Students	Assistance given	Effectiveness
1	2017-2018 2018-2019 2019-2020	III/IV SEMESTER	<ul style="list-style-type: none">• Remedial classes were scheduled and taken after working hours.• Continuous monitoring of students performance through regular counselling.	Student's performance in the second and third CIE was improved and the same was documented.
		V/VI SEMESTER		
		VII/VIII SEMESTER		



K. S. INSTITUTE OF TECHNOLOGY
#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109
DEPARTMENT OF MECHANICAL ENGINEERING

Date: 20/09/2019

CIRCULAR

The students who have scored less than 50% of marks in First CIE are requested to attend the remedial classes for improving their performance as per the schedule mentioned below.

III Semester

Venue: Room No. 202

Time: 4:00PM – 5:00PM

Sl. No.	Subject Code	Subject	Dates of Extra Classes	
1	18MAT31	Transform calculus, Fourier series & numerical techniques	23-09-2019	24-09-2019
2	18ME32	Mechanics of Materials	25-09-2019	26-09-2019
3	18ME33	Basic Thermodynamics	27-09-2019	30-09-2019
4	18ME34	Materials Science	1-10-2019	03-10-2019
5	18ME35A	Metal cutting and forming	04-10-2019	09-10-2019

V Semester

Venue: Room No. 203

Time: 4:00PM – 5:00PM

Sl. No.	Subject Code	Subject	Dates of Extra Classes	
1	17ME51	Management & engineering economics	23-09-2019	24-09-2019
2	17ME52	Dynamics of machinery	25-09-2019	26-09-2019
3	17ME53	Turbo machines	27-09-2019	30-09-2019
4	17ME54	Design of machine elements-1	1-10-2019	03-10-2019
5	17ME554	Non traditional machining	04-10-2019	09-10-2019
6	17ME562	Energy & environment	10-10-2019	11-10-2019

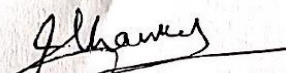
VII Semester

Venue: Room No. 205

Time: 4:00PM – 5:00PM

Sl. No.	Subject Code	Subject	Dates of Extra Classes	
1	15ME71	Energy engineering	23-09-2019	24-09-2019
2	15ME72	Fluid power system	25-09-2019	26-09-2019
3	15ME73	Control engineering	27-09-2019	30-09-2019
4	15ME742	Tribology	1-10-2019	03-10-2019
5	15ME753	Mechatronics	04-10-2019	09-10-2019


Signature of the Test coordinator


Signature of the HOD



K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 20/09/2019

Time Table for Extra classes of slow learners Academic year 2019-2020 (Odd Semester)

The students who have scored less than 50% of marks in the First CIE are identified as slow learners. For improving their performance, extra classes will be taken as notified below;

III Semester

Venue: Room No. 202

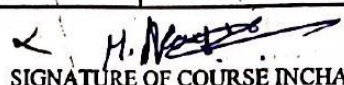
Time: 4:00PM – 5:00PM

Sl. No.	Subject Code	Subject	Dates of Extra Classes		Signature of the Faculty
1	18MAT31	Transform calculus, Fourier series & numerical	23-09-2019	24-09-2019	Jalagin.
2	18ME32	Mechanics of Materials	25-09-2019	26-09-2019	Pantaleone
3	18ME33	Basic Thermodynamics	27-09-2019	30-09-2019	Pantaleone
4	18ME34	Materials Science	1-10-2019	03-10-2019	my (P) (P)
5	18ME35A	Metal cutting and forming	04-10-2019	09-10-2019	my 2 my

Pantaleone
Signature of the Class Teacher

J. Shankar
Signature of the HOD

Fig.2.9: Schedule for Remedial Classes

K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109					
LIST OF STUDENTS OF III SEMESTER -A SEC					
LIST OF SLOWLEARNERS, MECHANICS OF MATERIALS, 2019-2020					
MECHANICAL ENGINEERING BRANCH					
SL. NO.	USN	NAME OF THE STUDENT	I IA	II IA	III IA
1	1KS18ME005	ANIRUDH R SRIVATSA	8	26	24
2	1KS18ME014	DARSHAN G	6	30	30
3	1KS17ME005	AKASH H S	6	20	20
				 SIGNATURE OF COURSE INCHARGE	

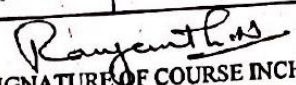
K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109					
LIST OF STUDENTS OF III SEMESTER -B SEC					
LIST OF SLOWLEARNERS, MECHANICS OF MATERIALS, 2019-2020					
MECHANICAL ENGINEERING BRANCH					
SL. NO.	USN	NAME OF THE STUDENT	I IA	II IA	III IA
1	1KS18ME062	SANTHOSH K	13	12	17
2	1KS19ME403	D. MANISH	14	7	9
3	1KS16ME034	KARTHIK M P	10	13	5
4	1KS16ME039	MADAN K V	10	11	11
				 SIGNATURE OF COURSE INCHARGE	

Fig.2.10: Improvement in Weak students' performance

PROCESS TO IDENTIFY THE “BRIGHT STUDENTS”

Department identifies those students who does not fall under category of slow learners as bright students and are encouraged to participate in various national and state level competition, work on mini projects, enroll for Online course like NPTEL, symposia, seminars and workshops to gain knowledge on the latest developments. Bright students are also encouraged to present paper in national and international conferences. Department takes initiative and award top two students from each class with certificates, cash prize and so on during the Inter Department technical fest-EMANATION which will be held during ODD semester of every year. In addition to these top two students from each class are presented with a certificate and cash prize every year at institute level. Project proposals are being submitted to various project funding agencies. The process to identify bright students is shown in figure 2.11. The sample copies of certificates provided to students which serves as encouragements for bright students is shown in figure 2.12 to 2.18. The encouragement given to bright students is mentioned in table 2.15

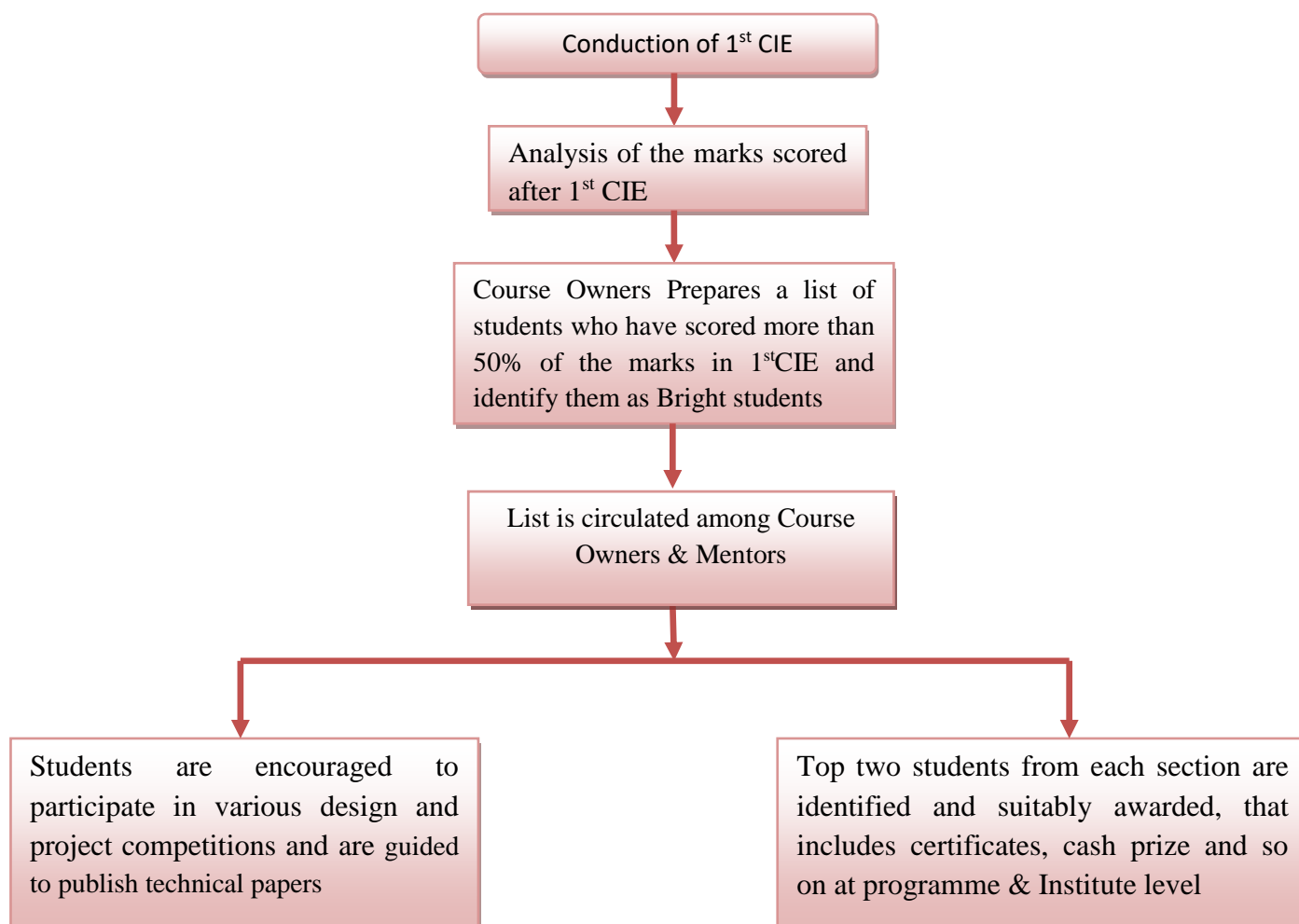


Fig.2.11: Process to Identify Bright Students

Table 2.15: Encouragement given to Bright Students

Sl. No.	Academic Year	Target Students	Rewards given
1	2018-2019 2019-2020 2020-2021	III SEMESTER	<ul style="list-style-type: none"> Cash rewards and certificates were awarded to meritorious students at college level every year during inauguration of first year B.E classes. Bright students are also encouraged at department level by awarding cash prize and certificates in interdepartmental technical fest – Emanation which will be held in odd semester of every year. They were also encouraged to submit proposals for various project funding agencies such as KSCST and to participate in national level technical events.
		IV SEMESTER	
		V SEMESTER	
		VI SEMESTER	
		VII SEMESTER	
		VIII SEMESTER	

List of Bright Students completed online certification course for the Academic Year 2018-2019, 2019-2020,2020-2021

Table 2.16: Achievements by Bright Students

Sl. No.	Name	USN	Details of Certification	Duration/Date	Platform
1	Satwik Shivaram Bhat	1KS17ME067	Materials Science: 10 Things Every Engineer Should Know	17/09/2020	COURSERA
			Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360	1/8/2020	
2	Yashas G V	1KS17ME097	eCARS2x:Electric CarsTechnology	–	COURSERA
			Autodesk CAD/CAM/CAE for Mechanical Engineerin	4/2/2021	
			Google IT Automation with Python	31/08/ 2020	
3	Mr. Rahul BN	1KS18ME052	Master In Pressure Vessels Heads	5/9/2020	LETSFABB
4	Mr . Syed Ali FaiZan KhadrI	1KS18ME075	Master In Pressure Vessels Heads	5/9/2020	LETSFABB
5	Nithin.L	1KS17ME046	CATIA V5	28/12/2020	Karnataka german training institute
6	Ashish Vilas Jadhav	1KS18ME009	AI For Everyone	1/08/ 2020	COURSERA
			Introduction to Virtual Reality	1/8/2020	
			Introduction to Self-Driving Cars	31/07/2020	
			Programming for Everybody (Getting Started with Python	24/07/2020	
7	Vasunidhi s	1KS17ME092	Intro to Digital Manufacturing with Autodesk Fusion 360	7/10/2020	COURSERA
8	Ravi.K.V	1KS17ME062	Materials Science: 10 Things Every Engineer Should Know	22/03/ 2021	COURSERA
9	Vasunidhi S	1KS17ME092	Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360	21/06/2021	COURSERA

			Code Yourself! An Introduction to Programming	8/8/2020	
10	Shashankh M G	1KS17ME074	Python Data Structures	13/08/2020	COURSERA
11	Manoj.H.S	1KS17ME039	Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360	13/08/2020	COURSERA
12	Sujay Aditya	1KS19ME033	Design thinking and UX/UI design	24/06/2021	QUICKSTAR T
13	Vinay.Y	1KS18ME438	Programming for Everybody (Getting Started with Python)	12 /05/ 2021	COURSERA
14	Shashankh M G	1KS17ME074	Programming for Everybody (Getting Started with Python)	8/9/2020	COURSERA
15	Ashish Vilas Jadhav	1KS18ME009	Finite Element method	1/7/2020	VCET
16	Rahul.B.N	1KS18ME052	Pressure Vessel Fabrication	10/9/2020	UDEMY
		1KS18ME052	MSOFFICE	10/10/2020	
17	Anupama Venkatesh,	1KS18ME007	AutoCad	26/05/2021	INTERSHAL A TRAININGS
18	Kushal Rao R	1KS17ME038	Introduction to Programming with MATLAB	8/10/2020	COURSERA
19	Kushal Rao R	1KS17ME038	Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360	7/12/2020	COURSERA
20	Kushal Rao R	1KS17ME038	Electric motor design and development	27 /08/ 2020	Internship
21	Varun M	1KS18ME079	Digital Thread: Components	10/8/2020	COURSERA
		1KS18ME079	Digital Manufacturing & Design	28/07/2020	COURSERA
		1KS18ME079	Digital Thread: Implementation	24/08/2020	
		1KS18ME079	Advanced Manufacturing Process Analysis	30/08/2020	
		1KS18ME079	Materials Science: 10 Things Every Engineer Should Know	20/09/2020	
22	Prithvi B	1KS17ME052	Advanced Styling with Responsive Design	9/10/2020	COURSERA
		1KS17ME052	Cameras, Exposure, and Photography	21/07/2020	
		1KS17ME052	Introduction to HTML5	3/8/2020	
		1KS17ME052	Introduction to CSS3	8/8/2020	
		1KS17ME052	Interactivity with JavaScript	8/12/2020	
		1KS17ME052	UX Design Fundamentals	9/7/2020	
		1KS17ME052	Visual Elements of User Interface Design	8/14/2020	
23	R.Manoj Reddy	1KS19ME025	CORE JAVA AND ADVANCED JAVA	24/08/2021	JUST TRAIN ME

Sample Certificates:



Fig.2.12: Sample Certificate of Students online certification

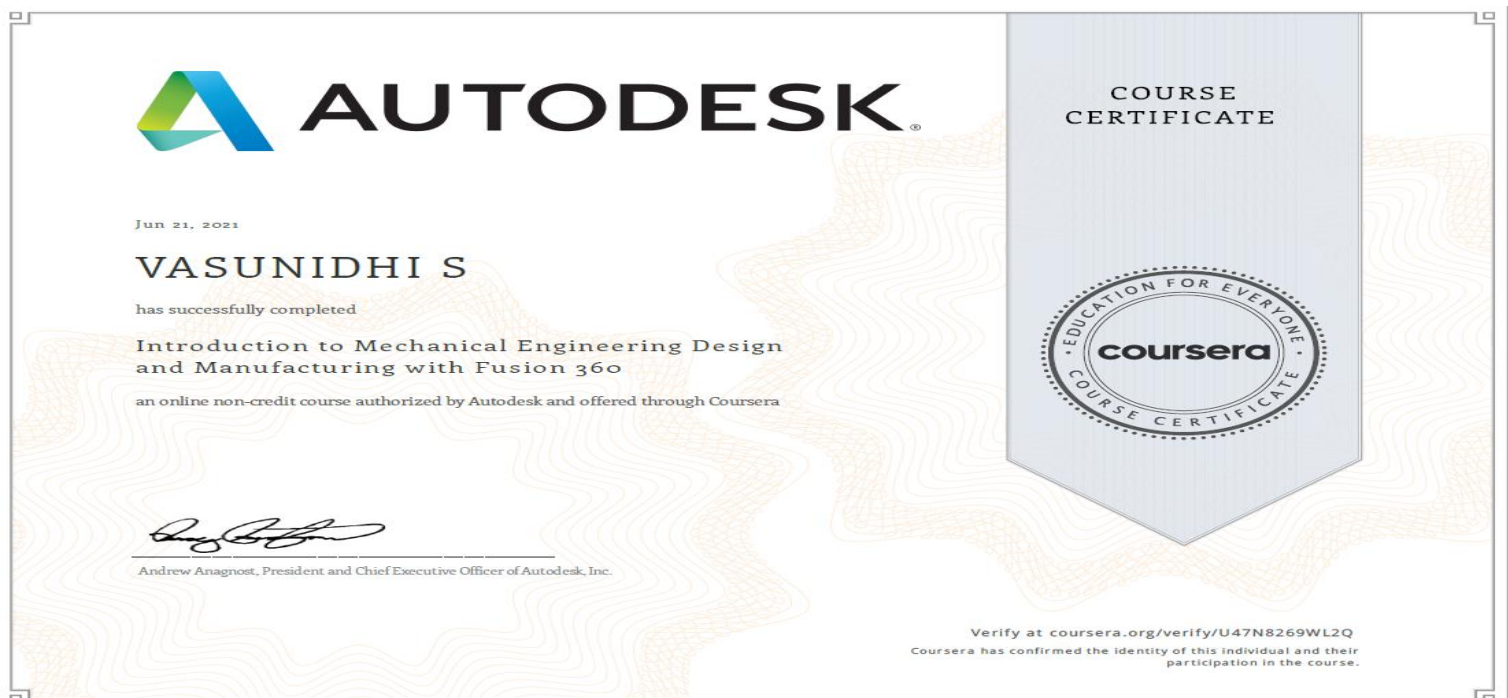


Fig.2.13: Sample Certificate of Students online certification



08/08/2020

Prithvi B

has successfully completed

Introduction to CSS3

an online non-credit course authorized by University of Michigan and offered through Coursera

Colleen van Lent

Colleen van Lent, Ph.D.
Lecturer
School of Information, University of Michigan

Charles

Charles Severance
Clinical Professor, School of Information
University of Michigan

COURSE
CERTIFICATE



Verify at coursera.org/verify/NRXLFGTQJ53C
Coursera has confirmed the identity of this individual and
their participation in the course.

Fig.2.14: Sample Certificate of Students online certification



Fig.2.17: Sample Certificate given to student for his participation in SAE BAJA Event



Fig.2.16: Sample Certificate given to student for excellent Academic Performance



Fig.2.17: Sample Certificate given to student during Interdepartmental Technical fest Emanation for excellent Academic Performance



Fig.2.18: Sample Certificate given to student for his participation in National Level Project Exhibition Organized by DST & Texas Instruments

D. QUALITY OF CLASSROOM TEACHING:

The class room teaching process is continuously monitored by the HOD in assistance with the senior faculty. In order to ensure quality in class room teaching, Institutional and Departmental calendar of events along with Time table is displayed in all the classes. Faculty uses necessary teaching aids, well-structured lesson plans for all theory and practical courses. Faculty makes use of online courses like NPTEL to enhance & share knowledge with students. Question banks covering frequently appearing questions in university question papers and challenging questions are prepared & issued to the students. Also timely assignments and CIE are conducted to check the learning levels of students. The process to maintain quality in class room teaching is shown in figure 2.19.

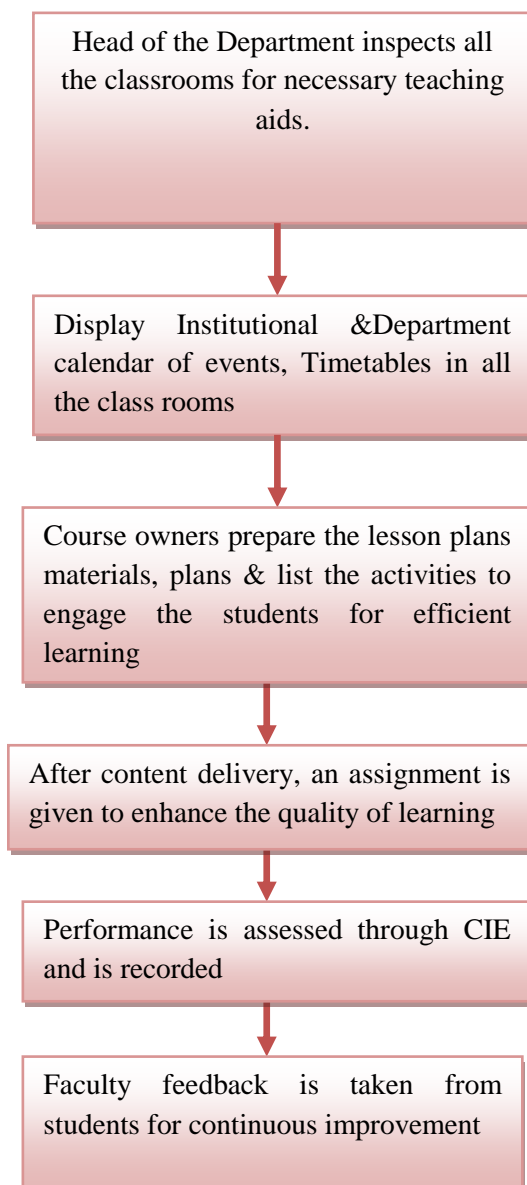


Fig.2.19: Process to Maintain Quality in Class Room Teaching

Lecture delivery:

Breakup of class duration

Faculty are encouraged to follow a particular sequence while preparing and delivering their lectures which may include revision of topics covered in the previous classes, introduction to the topic of lecture through examples of practical relevance. Real life examples are utilized to convey the importance of the topic to be discussed. Detailed discussion on the topic as per lesson plan {Theoretical concepts, Numerical, Case study, applications etc.}. Lecture delivery may utilize visual aids like power point presentations and relevant video clips to improve student comprehension. Summary of topics discussed followed by interactive session and attendance.

E. CONDUCT OF EXPERIMENTS

Conduction of lab class

Breakup of lab duration-The laboratory duration is for 3hr in the morning session (8:30am to 11:30 am) & 2hr 45 min in the afternoon session (1:15pm to 4:00pm) is utilized as per the following details.

- Introduction to the experiment, fundamental concepts and practical applications.
- Aim, Tools required procedure of conduction, tabulation of observations and detailed theoretical background of the experiment.
- Demonstration of conduction procedure and handling of equipment.
- Experiment conduction by student groups and recording of data.
- Demonstration of calculation procedure & discussion on results obtained.
- Evaluation of observation, record book and viva-voce on each experiment conducted as per the framed rubrics.

Quality in laboratory practice is ensured through following processes;

- Syllabus, Scheme of evaluation are displayed in all laboratories in the beginning of the semester.
- Experiments are conducted by the course in-charge with the assistance of instructor (In absence of students) at the beginning of each semester to check the correctness of the equipment and check for the problems if any so that corrective actions can be taken.
- A laboratory manual with viva-voce questions is prepared and issued to students at the beginning of each semester and students are made to bring manual for every lab session for reference.
- Observation book and lab records are evaluated.
- CIE is conducted at the end of semester.

F. CONTINUOUS ASSESSMENT IN THE LABORATORY

RUBRICS FOR EVALUATION OF EXPERIMENTS IN LAB

Continuous assessment system is also implemented for assessment of laboratory work. The evaluation is done on the basis of submission of laboratory observations, records, conduction and punctuality of the student. Internal test is conducted at the end of the semester and evaluated as per Laboratory Rubrics. The sample copy of lab certificate and rubrics implemented is shown in figure 2.20 and 2.21 respectively. The rubrics for evaluation of experiments in material testing lab is mentioned in table 2.18.

Table 2.18: Rubrics for Evaluation of Experiments in Material Testing Lab.

<p align="center">K. S. INSTITUTE OF TECHNOLOGY, BENGALURU – 560109</p> <p align="center">DEPARTMENT OF MECHANICAL ENGINEERING</p> <p align="center"><u>EVALUATION OF EXPERIMENTS IN LAB</u></p> <p align="center">COURSE: Material Testing lab COURSE CODE: 18MEL37</p> <p align="center">Table 2.17: Rubrics for Evaluation of Experiments in Material Testing Lab.</p>			
Sl. No.	Particulars	Max Marks	Reduced to
1	OBSERVATION BOOK	10 marks	10 marks
2	RECORD BOOK	10 marks	10 marks
3	VIVA-VOCE	10 marks	10 marks
	LAB TEST	100 marks	10 marks
Total - CIE			40 marks

Kammavari Sangham (R)-1952
K.S.GROUP OF INSTITUTIONS
K.S. INSTITUTE OF TECHNOLOGY
ACCREDITED BY NAAC
(Approved by AICTE & Affiliated to VTU)
KANAKPURA ROAD, BENGALURU - 560 109

Laboratory Certificate

This is to certify that Mr./Ms. Santhosh K
has satisfactorily completed the course of experiments in
Material testing laboratory, Code 18.M.E.T.37.D
prescribed by Visvesvaraya Technological University, Belgaum for
the III Semester B.E. Mechanical Branch
in this College during the academic year 20.19. - 20.20..

Name of the Candidate : Santhosh K
USN : 18S18MED37 Subject (with code) 18.M.E.T.37.D

Internal assessment marks awarded :

25

 +

9

 =

34

Signature of Staff Incharge
Date: 25/11/19

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

CS Scanned with CamScanner

Fig.2.20: Sample copy of Lab Certificate

DATE EXPT. TITLE : PAGE NO. 3
EXP. NO. 1

The average of the three readings is calculated.
12. Test is conducted for specimens made of different materials
by following the above procedure.

Result: The RHN's of the given specimen are found.

Record	Marks Allotted
Observation	10
Viva	10
Total	20
Signature of Faculty with date	<u>2</u>

CS Scanned with CamScanner KSIT

Fig2.21: Rubrics for Lab Experiment Evaluation

G. STUDENTS FEEDBACK OF TEACHING LEARNING PROCESS AND ACTIONS TAKEN

To ensure quality in class room teaching students feedback is recorded after the 1st & 2nd CIE, all the students are required to fill an online feedback-form apprising the faculty using a scale of 10 (high) through 1 (low). Comments are analyzed by the HOD and are discussed with the concerned faculty individually. Suggestions for improvement in teaching performance are given if required and faculty gives their explanation for getting less feedback.

Frequency

- Feedback is taken from students in each semester for all the theory class about respective faculty handling course.
- The feedback is taken after the 1st & 2nd CIE.

Analysis

- Feedbacks are tabulated by the Principal in consent with Head of the Department.

Action taken

- The analyzed forms will be made available to respective faculty.
- If feedback is < 80%, faculty give their explanation to Head of the Department and Principal.

The Process for Teaching Evaluation, Sample feedback questionnaire and Sample copy of Explanation Given by Faculty for getting feedback less than 80% is shown in figure 2.22, 2.23 and 2.24 respectively.

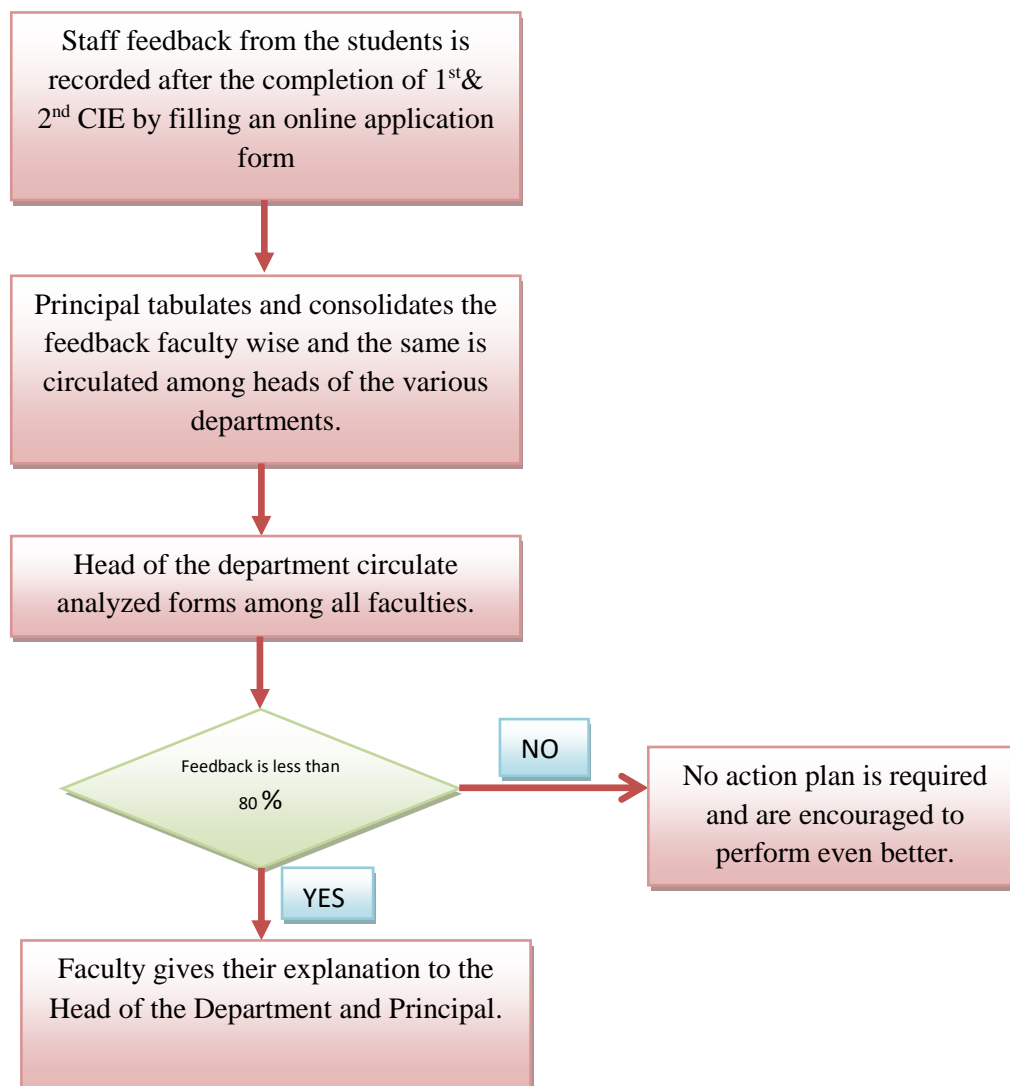


Fig.2.22: Process for Teaching Evaluation

II Staff Feedback (19-20) ODD Sem
Review Save Finish

Previous 1 2 Next

Question : 1 Effective planning and organization of lecture

☐ 1
☐ 2
☐ 3
☐ 4
☐ 5
☐ 6
☐ 7
☐ 8
☐ 9
☐ 10

Question : 2 Punctuality/Class Time Utilization

☐ 1
☐ 2
☐ 3
☐ 4
☐ 5
☐ 6
☐ 7
☐ 8
☐ 9
☐ 10

Question : 3 Ability to teach/explain/effective use of board

☐ 1
☐ 2
☐ 3
☐ 4
☐ 5
☐ 6
☐ 7
☐ 8
☐ 9
☐ 10

Question : 4 Interaction/Motivating Students

☐ 1
☐ 2
☐ 3
☐ 4
☐ 5
☐ 6
☐ 7
☐ 8
☐ 9
☐ 10

Question : 5 Subject Knowledge

☐ 1
☐ 2
☐ 3
☐ 4
☐ 5
☐ 6
☐ 7
☐ 8
☐ 9
☐ 10

II Staff Feedback (19-20) ODD Sem
Review Save Finish

Previous 1 2 Next

Question : 6 Presentation of the subject/communication

☐ 1
☐ 2
☐ 3
☐ 4
☐ 5
☐ 6
☐ 7
☐ 8
☐ 9
☐ 10

Question : 7 Linking subject with practical applications

☐ 1
☐ 2
☐ 3
☐ 4
☐ 5
☐ 6
☐ 7
☐ 8
☐ 9
☐ 10

Question : 8 Syallabus Coverage/Exam point of view

☐ 1
☐ 2
☐ 3
☐ 4
☐ 5
☐ 6
☐ 7
☐ 8
☐ 9
☐ 10

Question : 9 Evaluation of test/Counseling

☐ 1
☐ 2
☐ 3
☐ 4
☐ 5
☐ 6
☐ 7
☐ 8
☐ 9
☐ 10

Question : 10 Attitude towards students

☐ 1
☐ 2
☐ 3
☐ 4
☐ 5
☐ 6
☐ 7
☐ 8
☐ 9
☐ 10

Remark

Fig.2.23: Sample feedback questionnaire



K S Institute of Technology
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru, Karnataka 560109 .
Consolidated Feedback Report

Print Date:05-12-2018 14:59:42

Stream : Mechanical Engineering
Semester : III Sem Section: B

Section Streangth:45
Attended:38

	Engineering Mathematics-III (17MAT31)		Materials Science (17ME32)	Basic Thermodynamics (17ME33)	Mechanics of Materials (17ME34)	Metal Casting & Welding (17ME35A)	Computer Aided Machine Drawing (17ME36A)	Constitution of India, Professional Ethics and Human Rights (17CPH39)
Sl No	Naveen V	P JAYASHREE	N Sree Sudha	MURULIDHAR K S	HARISH U	Dr. B S AJAY KUMAR	MR. MADHU G	ANURADHA M V
1	100	100	100	100		100	64	100
2	90	70	90	90		90	70	90
3	100	100	100			100		
4	99	96	100	98		100	99	99
5	100	100	100	100		100	100	100
6	89			100		100	50	
7	80	82	91	74		52	76	71
8	100		100			100	100	
9								
10								
11	70	50	70	50		90	99	100
12								
13								
14	91	31	87	91		78	72	72
15	71	69	70	81		69	81	71
16	100	100	100	100		100	100	100
17	100		98	100		100	100	97
18	100	70	100	100		79	62	100
19	94	24	40	77		45	50	21
20	100	94	100	100		100	100	100
21	100	64	100	100		93	100	100
22	57	50	90	81		91	70	90
23	99	99	95	99		91	100	97
24	100	58	95	97		96	10	93
25	90	56	80	100		93	10	90
26	100	100	100	100		98	15	100
27	100	91	90	100		87	83	90
28	96	84	95	100		94	95	

29	88	81	91	100		90	85	82
30	100	100	100	100		100	100	100
31	100	75	87	100		92	82	92
32	97	84	87	99		81	94	90
33	100	64	94	100		96	31	100
34	96	95	91	100		73	72	92
35	100	100	100	100		100	100	100
36	100	100	100	100		90	100	100
37	100	100	100	100		100	100	100
38	100	100	100	100		100	100	100
TOTAL	3207	2487	3041	3037		3068	2570	2737
AVERAGE	94.32	80.23	92.15	94.91		90.24	77.88	91.23

Principal Signature

Fig.2.24: Sample Copy of a Staff feedback

2.2.2. QUALITY OF INTERNAL SEMESTER QUESTION PAPERS, ASSIGNMENTS AND EVALUATION (20)

A. PROCESS FOR INTERNAL SEMESTER QUESTION PAPER SETTING AND EVALUATION

CIE are conducted very strictly in the department as shown in the process flow chart. The staff members and the students are well aware of the all the CIE dates as per the calendar of events. Three CIE will be conducted for each course. Question papers are prepared based on Bloom's taxonomy, highlighting the course outcomes. Course owners will have a commitment to complete all the course outcomes before third CIE. Two sets of question papers and one assignment along with the scheme of evaluation are set for each subject and submitted to the Test coordinator after getting it scrutinized by the HOD/Module coordinator. Head of the institute selects any one question paper out of two. The Process to Examine Quality of CIE question paper is shown in figure 2.25

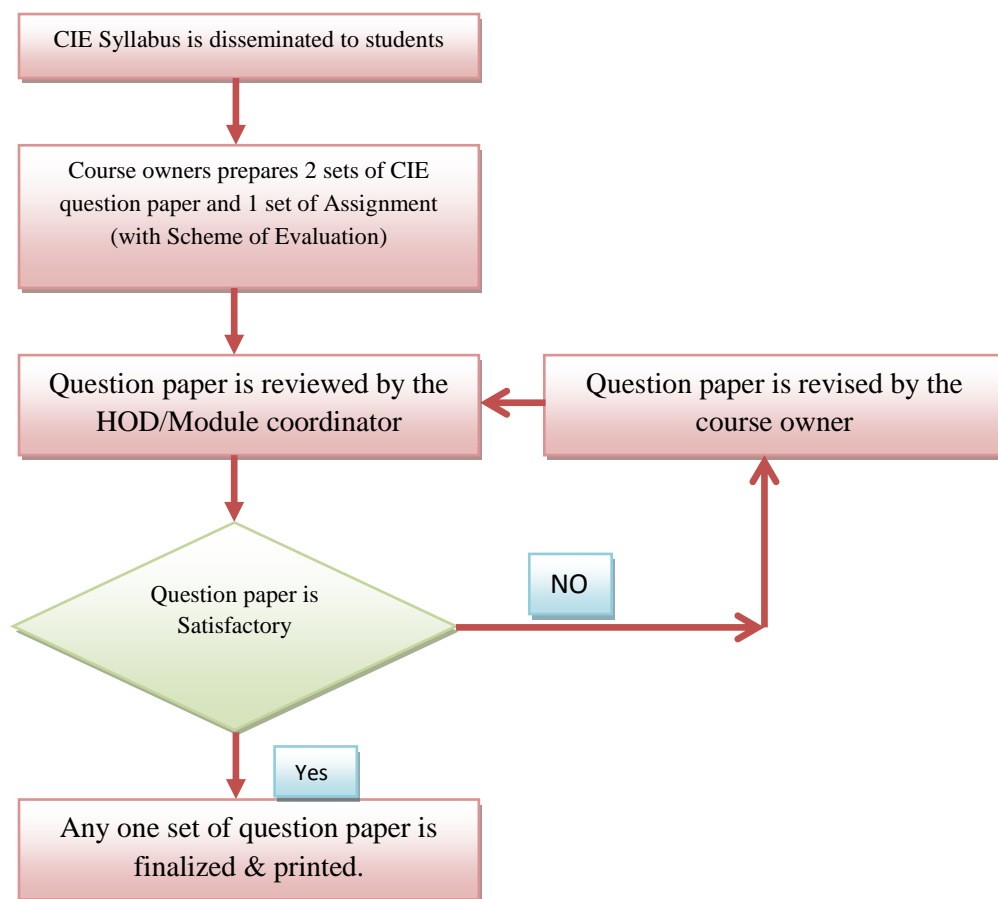


Fig.2.25: Process to Examine Quality of CIE question paper

B. EVALUATION OF TEST BLUE BOOKS:

The test books are evaluated and entered in the register kept in the HOD's Chamber within a week from the date of completion of the test. The staff members immediately enter these marks so that academic progress is communicated to the ward's parents from time to time and same is used for attainment calculations.

C. EVIDENCE OF CO COVERAGE IN CLASS TEST

All faculty have been strictly informed to cover all the CO's during the course of the semester. In spite of this to promote self-learning and to gain thorough knowledge in the subject assignments/quiz/Surprise test are given so that the learning levels of students can be evaluated. The assignments/quiz/surprise test is subsequently evaluated and are considered not only for internal marks but also for attainment purposes. Sample copy of CIE question paper, circular issued for CIE question paper, CIE Schedule, faculty invigilation chart for CIE and evaluated blue book is shown in figure 2.26, 2.27, 2.28, 2.29 and 2.30 respectively



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109
I SESSIONAL TEST QUESTION PAPER 2018 - 19 ODD SEMESTER

SET-B



USN

Degree : B.E
 Branch : Mechanical Engineering
 Subject Title : Applied Thermodynamics
 Duration : 90 Minutes

Semester : IV
 Subject Code : 17ME43
 Date : 12-03-2019
 Max Marks : 30

Note: 1. Answer ONE full question from each part.
2. Use of Thermodynamic Data Hand Book is permitted

Q No.	Question	Marks	CO	K Level
PART-A				
1(a)	Obtain an expression for air standard efficiency of constant pressure cycle	5	CO1	Applying (k3)
(b)	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. Estimate the compression ratio, the maximum pressures, efficiencies & rate of work output per kg of air.	5	CO1	Applying (k3)
(c)	Discuss, with the help of T-S diagram, the effect of Boiler pressure, condenser pressure and Superheat on the performance of a Rankine cycle	5	CO2	Understanding (K2)
OR				
2(a)	Derive an expression for the Mean Effective Pressure of an air standard Otto cycle	5	CO1	Applying (k3)
(b)	An air standard limited pressure cycle has a compression ratio of 15 and compression begins at 0.1 MPa, 40°C. The maximum pressure is limited to 6MPa and the heat added is 1.675 MJ/kg. Calculate temperature at salient points of the cycle, heat supplied at constant volume per kg of air, work done per kg of air, cycle efficiency and m.e.p of the cycle	5	CO1	Applying (k3)
(c)	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.	5	CO2	Applying (k3)

PART-B				
3(a)	Compare Otto and Diesel cycles, with the help of PV and T-S diagrams, based on condition (i) When maximum pressure and temperature are same (ii) When compression ratio and heat addition are same.	5	CO1	Understanding (K2)
(b)	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, cycle efficiency & mean effective pressure.	5	CO1	Applying (k3)
 (c)	Steam at 20 bar is expanded in a steam turbine to a pressure of 0.8 bar. The saturated vapour enters the condenser, Calculate efficiency of Rankine cycle. If the turbine and pump efficiency are 80% and 70%, calculate efficiency.	5	CO2	Applying (k3)
OR				
4(a)	Show the compression ratio (r_c) for maximum work should be per kg of air in an Otto cycle between upper and lower limits of absolute temperature T_3 and T_1 is given $r_c = (T_3/T_1)^{1/(\gamma-1)}$ and also Show that $T_4 = T_2 = (T_1 T_3)^{1/2}$	5	CO1	Applying (k3)
(b)	A Diesel engine has a compression ratio of 14 and cut-off takes place at 6% of the stroke. Find the air standard efficiency	5	CO1	Applying (k3)
 (c)	Why is Carnot cycle not a realistic model for steam power plants? Explain with TS diagram	5	CO2	Understanding (K2)


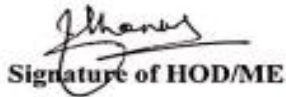





Fig.2.26: Sample Copy of CIE Question Paper

K. S. INSTITUTE OF TECHNOLOGY

Bengaluru – 560109

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 01/04/2019

CIRCULAR

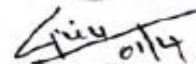
All the faculty who are handling classes for Mechanical Engineering students are hereby informed to furnish the Internal Test Question Papers for Second Internal assessment test along with scheme of valuation of your respective subjects of IV, VI & VIII semesters on or before Monday 8th April 2019. Question papers along with the scheme of evaluation have to be signed by the Head of the Department before submitting the same to the test co-ordinators. The question papers are to be prepared as per the NBA format which was sent to all the faculty. (Refer previous semester test paper format)

The following details are for your kind information for further process

1. For IV, VI & VIII semesters the test has to be conducted for - 30 Marks (1 ½ Hr)

Note: Faculty members are requested

1. Not to use mobile phones and carry study materials during Invigilation.
2. Faculties are kindly requested to submit the question paper along with the scheme of evaluation within the specified date (08.04.2019).
3. Faculties are advised to inform the students to wear lab uniforms and college ID Cards compulsorily during the test.
4. Faculties are kindly requested to arrange the blue books in the order and submit.


Test Co-ordinator


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

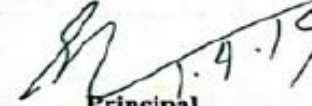

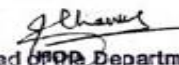

Principal
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109

Fig.2.27: Sample Copy of Circular Issued for CIE question Paper

K.S. INSTITUTE OF TECHNOLOGY, BENGALURU - 560109				
DEPARTMENT OF MECHANICAL ENGINEERING				
SECOND TEST - TIME TABLE - EVEN SEMESTER - 2019 (Feb to July)				
Date: 01/04/2019				
Date	Time	IV SEM	VI SEM	VIII SEM
15/04/2019 Monday	09.30 am to 11.00 am	Engineering Mathematics - IV	Finte Element Analysis	Operation Research
	02.00 pm to 03.30 pm	Kinematics of Machines	Computer Integrated Manufacturing	Additive Manufacturing
16/04/2019 Tuesday	09.30 am to 11.00 am	Applied Thermodynamics	Heat Transfer	Product life Cycle Management
	02.00 pm to 03.30 pm	Machine Tools and Operations	Metal Forming/ Automobile Engineering	-
20/04/2019 Saturday	09.30 am to 11.00 am	Fluid Mechanics	Design of Machine Elements-II	-
	02.00 pm to 03.30 pm	Mech Measurements and Metrology	Industrial Safety/ Total Quality Management	-


CO-ORDINATOR


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


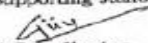

PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109

Fig.2.28: Sample Copy of CIE Schedule

K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109											
DEPARTMENT OF MECHANICAL ENGINEERING											
REGIONAL INVIGILATION CHART - SECOND TEST											
(IV, VI, VIII SEMESTER) - APRIL 2019.											
Date/Day	Time	NEW BUILDING									
		SQUAD	SH-1	101	102	103	202	203	205	SH-2 TCSE	305
15/04/19 Monday	09.30 am to 11.00 am	BSA /NS	MKS/MBR	RN	BKR	Choudhary	MMR	BSP	LN	KF	NKS
	02.00 pm to 03.30 pm		LN/BKR	AMR	BSP	MBR	NS	NKS	BRS	MMR	Venkataraman
16/04/19 Tuesday	09.30 am to 11.00 am		PAK/GM	Venkataraman	AK	NK	BKR	KMM	GS	KVM	Jayashree
	02.00 pm to 03.30 pm		KMM/AK	PAK	BRS	Jayashree	RN	NS	KF	MKS	A.Radhika
20/04/19 Saturday	09.30 am to 11.00 am		KVM/AMR	MBR	NKS	NK	PAK	BSP	HU	GM	Choudhary
	02.00 pm to 03.30 pm		BRS/NS	NB	KMM	NKS	NK	MMR	KVM	GS	A.Radhika

Note : All Supporting staffs are requested to co-operate


Test Coordinator



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

Fig.2.29: Sample Copy of faculty Invigilation Chart for CIE



BLUE BOOK

Name of the student SHASHANK. PAWAR. E
Class / Sem : V - B Branch : Mechanical
USN :

1	K	S	I	T	M	E	O	7	2
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SUBJECT : Turbo machines Subject Code : 17ME53

MAXIMUM MARKS

Test	I	II	III	Average Marks Obtained
Date	12/9/19	22/10/19	22/11/19	Test
Marks Obtained	29/30	26/30	27/30	28
Signature of the Student	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	Assignment
Initials of Faculty	TL	TL	TL	10
				Total
				38

K.S. INSTITUTE OF TECHNOLOGY

First Internal Test

Q.No	Marks	CO	Q.No	Marks	CO	CO	Total
1(a)			3(a)	5	CO1	CO1	14
1(b)			3(b)	4	CO1		
1(c)			3(c)	6	CO3	CO3	15
OR			OR				
2(a)	2	CO1	4(a)				
2(b)	3	CO1	4(b)				
2(c)	9	CO3	4(c)			Grand Total	29

Second Internal Test

Q.No	Marks	CO	Q.No	Marks	CO	CO	Total
1(a)	6	CO2	3(a)			CO2	10
1(b)	6	CO4	3(b)				
1(c)			3(c)				
OR			OR			CO3	20
2(a)			4(a)	4	CO2	CO4	12
2(b)			4(b)	4	CO3		
2(c)			4(c)	6	CO4		
						Grand Total	26

Third Internal Test


Q.No	Marks	CO	Q.No	Marks	CO	CO	Total
1(a)	1	CO1	3(a)	1	CO1	CO1	2
1(b)	8	CO5	3(b)	7	CO5	CO2	5
1(c)	5	CO2	3(c)	5	CO4	CO4	5
OR			OR			CO5	15
2(a)			4(a)				
2(b)			4(b)				
2(c)			4(c)			Grand Total	27

[Signature]
Signature of the Faculty

Fig.2.30: Sample Copy of Evaluated Blue Book

A. QUALITY OF ASSIGNMENT & RELEVANCE TO Cos

The sample of assignment questions along with relevant COs is shown in figure 2.31



KSIT Bangalore
DEPARTMENT OF MECHANICAL ENGINEERING
ASSIGNMENT QUESTIONS

Academic Year	2018-2019		
Batch	2017-2021		
Year/Semester/section	II/IV/B		
Subject Code-Title	17ME42-KINEMATICS OF MACHINERY		
Name of the Instructor	Mr. ANILKUMAR A	Dept	ME

Assignment No: 1 Date of Issue: 01-03-2019		Total marks:15 Date of Submission: 9-3-2019	
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Sl.No	Assignment Questions	K Level	CO	Marks
1.	Explain i) kinematic pair ii) mechanism iii) structure iv) inversion v) degree of freedom vi) binary joints and binary link vii) self-closed pair & force closed pair viii) lower pair & turning pair.	UNDERSTANDING (K2)	CO1	2
2.	Classify and explain kinematic pairs based on type of relative motion.	UNDERSTANDING (K2)	CO1	2
3.	The link lengths of quadric cycle chain, taken in order are 10cm, 40cm, 30cm and 25cm. Infer all the inversions of the given chain and classify them.	UNDERSTANDING (K2)	CO1	2
4.	Name an exact straight line motion mechanism having only turning pairs. Draw neat proportionate sketch of the same. State geometric relationships among its links. Indicate the point tracing straight line and prove that the point can trace straight line.	UNDERSTANDING (K2)	CO1	2
5.	Draw a neat proportionate sketch of Whitworth quick return mechanism and crank slotted lever mechanisms. Indicate clearly the positions of drive crank corresponding to the extreme positions of shaper tool	UNDERSTANDING (K2)	CO1	2
6.	Construct the cam profile for -follower type = Knife edged, in-line; lift = 40mm; base circle radius = 50mm; out stroke with SHM, for 100° cam rotation; dwell for 80° cam rotation; return stroke with SHM, for 90° cam rotation; dwell for the remaining period. Solve max. velocity and acceleration during out stroke and return stroke if the cam rotates at 900 rpm in clockwise direction.	APPLYING (K3)	CO2	1
7.	Construct the cam profile for the same operating conditions of problem (1), with the follower offset by 10 mm to the left of cam centre.	APPLYING (K3)	CO2	1

8.	<p>Construct the cam profile for following conditions: A cam, with a minimum radius of 25 mm, rotating clockwise at a uniform speed is to be designed to give a roller follower, at the end of a valve rod, motion described below :</p> <p>To raise the valve through 50 mm during 120° rotation of the cam; To keep the valve fully raised through next 30°; To lower the valve during next 60°; To keep the valve closed during rest of the revolution i.e. 150° ; The diameter of the roller is 20 mm and the diameter of the cam shaft is 25 mm. Construct the profile of the cam when the line of stroke of the valve rod passes through the axis of the cam shaft. The displacement of the valve, while being raised and lowered, is to take place with simple harmonic motion. Determine the maximum acceleration of the valve rod when the cam shaft rotates at 100 r.p.m</p>	APPLYING (K3)	CO2	1
9.	<p>Construct the cam profile for following conditions: A cam rotating clockwise at a uniform speed of 1000 r.p.m. is required to give a roller follower the motion defined below :</p> <p>Follower to move outwards through 50 mm during 120° of cam rotation, Follower to dwell for next 60° of cam rotation, Follower to return to its starting position during next 90° of cam rotation, Follower to dwell for the rest of the cam rotation. The minimum radius of the cam is 50 mm and the diameter of roller is 10 mm. The line of stroke of the follower is off-set by 20 mm from the axis of the cam shaft. If the displacement of the follower takes place with uniform and equal acceleration and retardation on both the outward and return strokes, construct profile of the cam and find the maximum velocity and acceleration during out stroke and return stroke.</p>	APPLYING (K3)	CO2	1
10.	<p>It is required to set out the profile of a cam to give the following motion to the reciprocating follower with a flat mushroom contact face Follower to have a stroke of 20 mm during 120° of cam rotation; Follower to dwell for 30° of cam rotation; Follower to return to its initial position during 120° of cam rotation; and Follower to dwell for remaining 90° of cam rotation. The minimum radius of the cam is 25 mm. The out stroke of the follower is performed with simple harmonic motion and the return stroke with equal uniform acceleration and retardation. Construct the displacement and cam profile diagram.</p>	APPLYING (K3)	CO2	1


Course In charge


HOD/ME

Fig.2.31: Sample copy of Assignment

2.2.3. QUALITY OF STUDENT PROJECTS (25)

A. IDENTIFICATION OF PROJECT AND ALLOCATION METHODOLOGY TO FACULTY MEMBERS

To encourage students to take innovative and to give solutions to real problems the process of project planning starts right from sixth semester

- To ensure no repetition and to develop the previous projects list of previous year projects are displayed in the notice board
- In the mid of sixth semester students are asked to form the batches as per their choice.
- Faculty will propose possible project titles in which research can be done & presentation on the same will be given.
- Students are advised to select a project in consultation with the faculty to carry out literature survey and submit synopsis to the project coordinators.
- In seventh Semester students will be presenting their Project Ideas.
- In the presentation, the students will be intimated about the shortcomings or additional features to be added.
- Based on the suggestion given in the presentation, the students will be re-presenting their ideas.
- Considering the current technology and societal needs, industry relevant projects will be selected.
- Based on the area of the project such as Design, Thermal, Production etc, specialized faculty member will be allotted to guide the project.
- For monitoring progress made by the students Project evaluation is carried out in three phases.
- And finally students will be presenting their project ideas in front of external evaluators during project exhibition, where two best projects will be selected and rewarded with certificates.

The Process for project group allocation and Evaluation is shown in figure 2.32

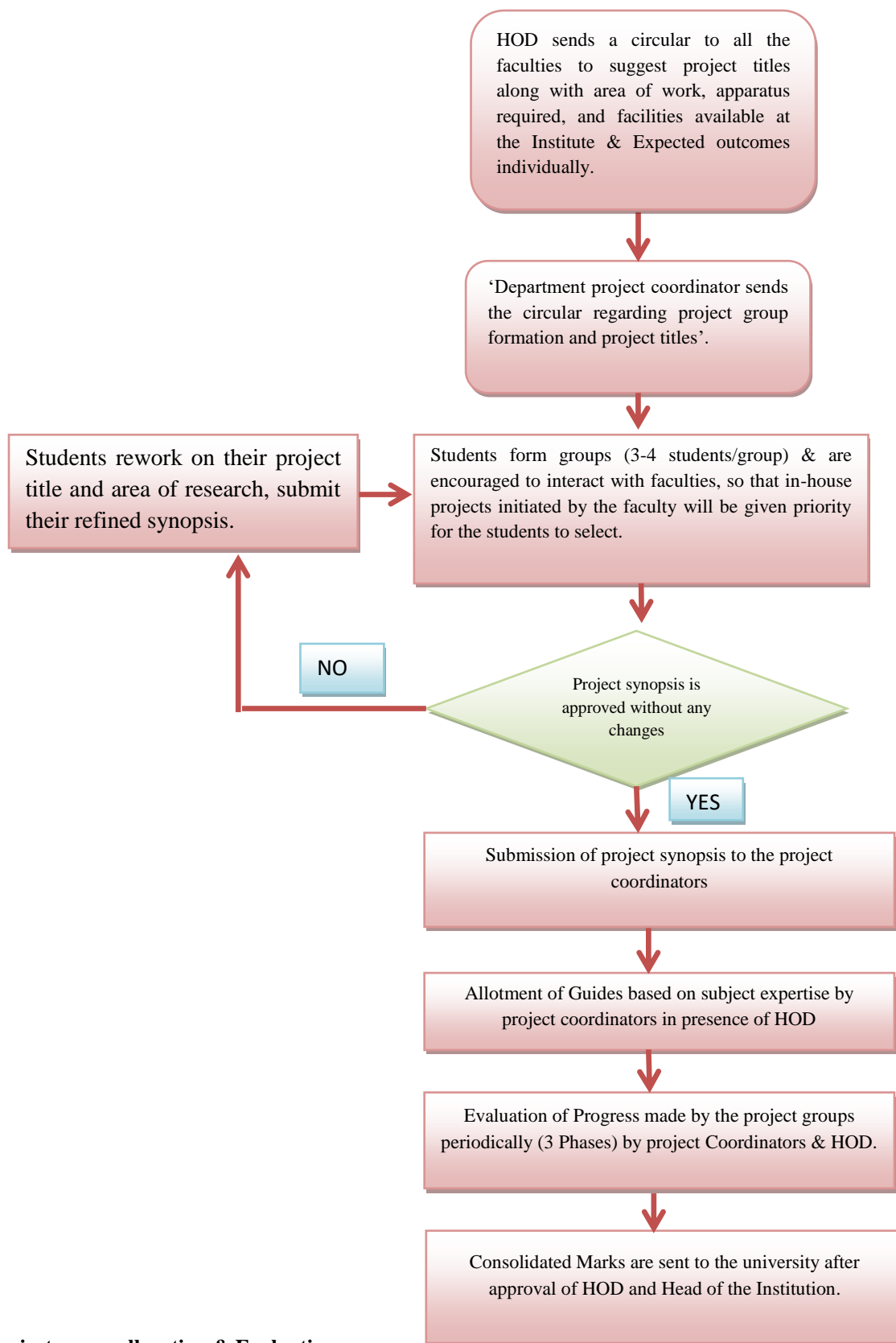


Fig.2.32: Process for Project group allocation & Evaluation

B. TYPES AND RELEVANCE OF PROJECTS AND THEIR CONTRIBUTION TOWARDS ATTAINMENT OF POs AND PSOs

The Project work details for the academic year 2020-2021, 2019-2020, 2018-2019 is tabulated in table 2.15, 2.16 and 2.17 respectively

CAY 2020-2021

Table 2.15: Project Work details for the Academic year 2020-2021

Project Group No.	Team Members		Project Title	Guide Name	Stream	Project Category	Type	Execution of Project	Contributions applicable to the project						
	Name	USN							Innovation	Environment	Cost	Society	Safety	Ethics	Relevant PO/PSO Mapping
1	ANIRUDH M V	1KS17ME009	characterization of aluminium metal matrix composites	Dr.Girish TR	Materials	Institute project	Research Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	PARIKSHITA MS	1KS17ME047													
	JEEVAN KUMAR	1KS17ME030													
	IMPAL D RAJ	1KS17ME028													
2	DARSHAN BS	1KS17ME018	Design and fabrication of turbo charger with zero turbo lag	Prof.Anil kumar A	Design	Institute project	Application Oriented	Y	Y	Y	Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	ABHILASH KS	1KS17ME003													
	ASIF K	1KS17ME013													
	PRAKASH Y	1KS17ME050													
3	JITHU K MENON	1KS17ME031	Design and fabrication of solid waste collector	Prof. Umashankar M	Design	Institute project	Application Oriented	Y	Y	Y	Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	NAGESH BU	1KS17ME044													
	DHEERAJ PASUPULETI	1KS17ME021													
	ASHISH K BHARADWAJ	1KS17ME032													
4	HARSHITH MP	1KS18ME415	corrosion behaviour of Al MMC'S	Dr.Nirmala L/ Prof. Rajesh	Materials	Institute project	Research Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	DILEEP KUMAR HS	1KS18ME411													
	DHANUSH S	1KS18ME410													
	LOHITH BM	1KS18ME419													
5	ADARSH N	1KS18ME401	Manifold Injection Analysis Using CFD Simulation	Prof. K.Prasad	Thermal	Institute project	Research Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11,
	AJAYKUMAR H	1KS18ME402													
	ANANDRAJ J	1KS18ME405													

	GOWTHAM S	1KS18ME414													PO12, PSO1, PSO2
6	ASHUTHOSH VILAS JAIN	1KS17ME012	Analysis and validation of the parameters which will affect the life of gas turbine blade coating by thermal barrier coatings	Prof.Saleem Khan	Materials	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3,PO4, PO8, PO9, P010, PO11, PO12, PSO1, PSO2
	DARSHAN GOWDA S	1KS17ME019													
	MANOJ HS	1KS17ME039													
	PARIKSHITH K KASHYAP	1KS17ME048													
7	MOLKALU PUNITH	1KS17ME043	study of usage of combination of after treatment device into existing diesel engine	Dr.Nagaprasad KS	Thermal	Institute project	Application oriented	Y	Y	Y		Y	Y	Y	PO1, PO2, PO3,PO4,P O7, PO8, PO9, P010, PO11, PO12, PSO1, PSO2
	KIRAN R	1KS17ME035													
	KARAN C	1KS18ME417													
	ESHAWARAN P	1KS18ME412													
8	ANIRUDH BHARADHWAJ	1KS17ME008	Kitchen and garden waste shredding and composting	Prof. K.Prasad	Design	Institute project	Application Application oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3,PO4, PO8, PO9, P010, PO11, PO12, PSO1, PSO2
	BHARATH KUMAR G	1KS17ME014													
	GANAPATHI MANJUNATH H	1KS17ME024													
	GANESH KUMAR NARAYAN H	1KS17ME025													
9	HARIPRASAD R	1KS16ME018	Design and fabrication of solar groundnut harvesting machine	Prof.Ranganathan	Design/Production	Institute project	Application Oriented	Y	Y	Y	Y	Y	Y	Y	PO1, PO2, PO3,PO4,P O7, PO8, PO9, P010, PO11, PO12, PSO1, PSO2
	ABHILASH S SHETTY	1KS16ME005													
	ABHILASH S	1KS16ME003													
	MANOJ KUMAR N	1KS16ME043													
10	PRAVEEN KUMAR	1KS17ME051	Experimental analysis of heat transfer characteristics of internally helical grooved copper tubes	Prof. Gautham S	Thermal	Institute project	Research Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3,PO4, PO8, PO9, P010, PO11, PO12, PSO1, PSO2
	AKASH K L	1KS17ME006													
	CHETHAN N	1KS17ME016													
	KONDA ANIL KUMAR REDDY	1KS17ME036													
11	APEKSHA H D	1KS18ME400	DESIGN AND FABRICATION OF SUGARCANE HARVESTING MACHINE	Prof.Ranganathan	Design/Production			Y	Y		Y	Y	Y	Y	PO1, PO2, PO3,PO4, PO8, PO9, P010, PO11, PO12, PSO1, PSO2
	BALAKRISHNA	1KS18ME408													
	HEMA PRASAD Y	1KS18ME416													
	KIRAN KUMAR GN	1KS18ME418													

12	ADARSH D	1KS18ME400	Computational fluid analysis of hydraulic valve for flow parameters	Prof. Parashuram AK	Thermal	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	CHETHAN M	1KS18ME409													
	GAGAN GOWDA R	1KS18ME413													
	VINAY C	1KS18ME437													
13	RAGHUNANDAN M	1KS17ME056	A study on mechanical characterization of aluminium metal matrix composites reinforced with aloe vera powder	Prof. Anil kumar A	Materials	Institute project	Research Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	TULASIPRSAD	1KS17ME087													
	TEJAS P	1KS17ME086													
	RUDRAPADA BHARAT KUMAR	1KS17ME063													
14	SHREYAS S	1KS17ME078	Design and fabrication of Multi purpose agricultural machine	Dr. Nirmala L	Design/Production	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	SHRI HARSHA P	1KS17ME079													
	SANTHOSH G	1KS17ME066													
	R JAI KRISHNA	1KS17ME055													
15	ATHISH PRAKASH	1KS18ME407	Design and fabrication of disinfection tunnel for school and college	Prof. Manjunath BR	Design/Production	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	SHARATH GOWDA PS	1KS18ME431													
	SRIHARI R	1KS18ME434													
	SRNIVAS MURTHY YR	1KS18ME435													
16	SHASHANK PAWAR E	1KS17ME072	Numerical investigation on the acoustic properties of cylindrical shell with micro voids	Prof. Anil kumar A	Design	Institute project	Research Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	SHASHANKH MG	1KS17ME074													
	PRITHVI B	1KS17ME052													
	KUSHAL RAO	1KS17ME038													
17	SUMANTH B SAGAL	1KS17ME438	Design and fabrication of paper cutting machine using Geneva mechanism	Dr. Girish TR	Design/Production	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	TILAK R	1KS17ME443													
	SANTHOSH M	1KS14ME116													
	PUNEETHA S	1KS17ME429													
18	LOHITH L	1KS18ME420	Design And Fabrication Of multi purpose sanitization	Prof. Saleem Khan	Design/Production	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11,
	NAVEEN SB	1KS18ME423													
	NAGASHREE SS	1KS18ME422													

	SHIVARAJU R	1KS18ME432	robot		roduction										PO12, PSO1, PSO2
19	SHARATH R CHAWAN	1KS17ME070	Detection of surface irregularities in manufactured component using delta robot	Prof.Bharath Kumar KR	Robotics	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3,PO4,P O5, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	YASHAS GV	1KS17ME097													
	V VINAY	1KS17ME090													
	MANOJ M	1KS17ME040													
20	V JAYANTH	1KS17ME089	COOLING OF solar PV CELL using phase change materials	Prof.Bharath Kumar KR	Materials	Institute project	Application Oriented	Y	Y	Y	Y	Y	Y	Y	PO1, PO2, PO3,PO4,P O7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	SHASHI KUMAR G	1KS17ME075													
	VARUN S KADAM	1KS17ME091													
	DILEEP S K	1KS17ME022													
21	SAMARHTA S	1KS18ME429	Design and fabrication of power weedre and cutting grass	Prof.Harish U	Design/Pr oduction	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3,PO4, PO8, PO9, P010, PO11, PO12, PSO1, PSO2
	SHIVU S	1KS18ME433													
	VINAY Y	1KS18ME438													
	RAKESH SJ	1KS18ME428													
22	P ROHIT	1KS18ME425	Design and fabrication of manual mulching machine	Prof.Saleem Khan	Design/Pr oduction	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3,PO4, PO8, PO9, P010, PO11, PO12, PSO1, PSO2
	PAVAN R	1KS18ME426													
	SHARAN BASAPPA S HUNAGUND	1KS18ME430													
	SUMANTH K	1KS18ME436													
23	PUNEETH GOWDA.N	1KS17ME053	CFD analysis of Auto disinfection system	Prof. Gautham S	Thermal	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3,PO4,P O5, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	SHASHI KIRAN	1KS17ME076													
	SKANDA.S	1KS17ME081													
	SOWRAV.A	1KS17ME083													
24	Tanushree C	1KS17ME085	CFD and FEA of Manifold & Skid Assembly	Prof.Nagabhus han M	Design	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3,PO4,P O5, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	Shoiab Mahaboob Shaik	1KS17ME077													
	Abbas Razin	1KS17ME001													
	Ravi KV	1KS17ME062													
25	Anandu K Sanil	1KS17ME007	ergonomics, smart chair	Prof. Umashankar M		Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3,PO4, PO8, PO9,
	Mohsin Shaikh	1KS17ME042													

	Arjun M Sindhya	1KS15ME011			Design/ Production											P010, PO11, PO12, PSO1, PSO2
	Kiran Nagesh	1KS15ME034														
26	R.Gokul	1KS17ME054	EXPERIMENTAL STUDIES ON PORTABLE ARCHIMEDES SCREW MICRO-HYDRO GENERATOR	Prof. K.Prasad	Energy	Institute project	Application Oriented	Y	Y	Y	Y	Y	Y	Y	Y	PO1, PO2, PO3,PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	Rajath N.R	1KS17ME059														
	Satwik shivaram bhat	1KS17ME067														
	Shashank L	1KS17ME071														
27	NITIN L	1KS17ME046	STUDY OF combination of after TREATMENT DEVICE INTO EXISTING DIESEL ENGINE FUELLED BY NANOPARTICLES	Dr.Nagaprasad KS	Thermal	Institute project	Application Oriented	Y	Y	Y	Y	Y	Y	Y	Y	PO1, PO2, PO3,PO4,P O7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	MOHAMMAD FAUZAN	1KS17ME041														
	KUNDAN BALARAM	1KS17ME037														
	KIRAN C	1KS17ME034														
28	Raghunandan M C	1KS17ME057	Design and fabrication of heat sink for atmospheric water generato	Prof.Bharath Kumar KR	Design	Institute project	Application Oriented	Y	Y	Y	Y	Y	Y	Y	Y	PO1, PO2, PO3,PO4,P O7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	Rethina seelan S R	1KS17ME064														
	Ranjeet kulkarn	1KS17ME061														
	Siddesh	1KS17ME080														
29	Sandeep SP	1KS17ME065	Experimental analysis on heat transfer characteristics of internally helical grooved copper tubes	Prof.Anil kumar A	Design	Institute project	Research Oriented	Y	Y		Y	Y	Y	Y	Y	PO1, PO2, PO3,PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	Vasunidhi S	1KS17ME092														
	Vishnu Tejas T M	1KS17ME096														
	PRAJWAL B	1KS18ME427														
30	RAGHAVENDRA R	1KS16ME103	Heat flow characteristics of oscillating heat pipes by using binary mixture of fluids	Prof. Parashuram AK	Thermal	Institute project	Research Oriented	Y	Y		Y	Y	Y	Y	Y	PO1, PO2, PO3,PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	RAGHAVENDRA M R	1KS16ME420														
	BHARGAV G	1KS17ME403														
	KAUSHIK HM	1KS17ME414														
31	Aditi RS Singh	1KS17ME004	Fabrication of chainless bicycle	Prof. Gautham S	Design/Production	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	Y	PO1, PO2, PO3,PO4, PO8, PO9, PO10, PO11, PO12, PSO1,
	Nischal V Chadaga	1KS17ME045														
	Darshan V	1KS17ME020														
	Adithya R Bhat	1KS17ME099														

															PSO2
32	Y SUHAS	1KS15ME107	study on effect of parameters on surface roughness in wire electrical discharge machining	Prof.Manjunath BR	Materials	Institute project	Research Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	VENKATESH S	1KS15ME101													
	SHASHIKANTH ASHOK	1KS16ME078													
	ABHISHEK RAJ	1KS16ME007													
33	EASHWAR A N	1KS17ME023	Design and fabrication of Atmospheric water condenser	Prof. K.Prasad	Design	Institute project	Application Oriented	Y	Y	Y	Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	KARTHIK DALBHANJAN	1KS17ME033													
	Arjun prasad-	11KS17ME011													
	SHANKAR RAM S	1KS17ME068													
34	SHARATH N	1KS17ME069	CFD analysis of airfoil	Prof.Harish U	Thermal	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	VENKATESH K	1KS17ME093													
	VENKATESH PRASAD G	1KS17ME094													
	VIKAS KC	1KS17ME095													
35	AMITHESH	1KS17ME400	experimental analysis of epoxy polyester coating and aluminium 6061 alloy for wear and hardness testing	Dr.Girish TR	Materials	Institute project	Research Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	VISHNU PRAKASH M P	1KS18ME439													
	RAMU Y P	1KS17ME060													
	UDAY R	1KS17ME088													
36	NANDESH M	1KS16ME050	Energy audit on renewable energy resources	Dr.Nagaprasad KS/Dr.Nirmala L	Energy	Institute project	Research Oriented	Y	Y	Y	Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	PRAVEEN L N	1KS16ME065													
	PRUTHVIRAJU MS	1KS16ME066													
	SAIADITHYA C H	1KS16ME074													
37			fabrication of composite material using coconut, walnut shell and rice husk with epoxy resin by hand layup technique	Prof.Manjunath BR	Materials	Institute project	Research Oriented	Y	Y		Y	Y	Y	Y	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	MOHAN	1KS16ME412													
	DEVIPRASAD	1KS17ME407													
	RAGHU S	1KS16ME104													

Table 2.16: Project Work details for the Academic year 2020-2021

Project Group No.	Team Members		Project Title	Guide Name	Stream	Project Category	Type	Execution of Project	Contributions applicable to the project							
	Name	USN							Innovation	Environment	Cost	Society	Safety	Ethics	Most Relevant PO/PS O Mapping	
1	VISHWANTH B NAIK	1KS16ME438	Design and fabrication of automatic automobile break failure indicator	Mr. Nagaprasad K S	Design/Production	Institute project	Application Oriented	Y								PO1,P02,P03,P04,P06,P08,P09,P10,P11,P12,PSO1,PSO2
	MOHAN S	1KS16ME412														
	CHETAN KUMAR M	1KS15ME018														
	HANAMANTHAPPA	1KS16ME408							Y		Y	Y	Y	Y		
2	ASHWIN MAIYA.M	1KS16ME010	Design and Fabrication of Lake Filtration Vehicle	Mr. Umashankar M	Design/Production	Institute project	Application Oriented	Y								PO1,P02,P03,P04,P06,P08,P09,P10,P11,P12,PSO1,PSO2
	HARSHITH.S	1KS16ME023														
	M.VENKATESH KASHYAP	1KS16ME038														
	MANOJ.R	1KS16ME044							Y	Y	Y		Y	Y	Y	
3	VARUN.C	1KS16ME093	Design and Fabrication of Bio-Stove Using Bio Mass Briquettes as Fuel.	Mr. Anil Kumar A	Design/Production	Institute project	Application Oriented	Y								PO1,P02,P03,P04,P06,P07,P08,P09,P10,P11,P12,PSO1,PSO2
	DEEPAK.E	1KS17ME406														
	SHASHIKUMAR.C.R	1KS17ME435														
	RAKESH.B.R	1KS16ME105							Y	Y	Y	Y	Y	Y	Y	
4	ABHILASH.S	1KS16ME004	Effect of machining parameters on surface finish steel material	Mr. Nagabhushan M	Production	Institute project	Research Oriented	Y								PO1,P02,P03,P04,P06,P08,P09,P10,P11,P12,PSO1
	ABHISHEK PAREEK	1KS16ME006														
	JAYDEEP.B	1KS16ME031														
	HITESH.C.S	1KS16ME026							Y	Y		Y	Y	Y	Y	

																	,PSO2
5	MOHAN KUMAR.C	1KS17ME420	Enhancing the life of gas turbine blades by altering the composition of coating material and validate with hardness test.	Mr. Harish U	Materials	Institute project	Research oriented										PO1,P O2,PO3 ,PO4,P O6,PO8 ,PO9,P O10,PO 11,PO1 2,PSO1 ,PSO2
	MITHUN.S	1KS17ME419															
	GURUSWAMY.H	1KS17ME410															
6	RAMA KRISHNA .N	1KS15ME048	Wave power conversion using a bi-directional flow turbine	Dr.Ajay Kumar	Thermal	Institute project	Application Oriented										PO1,P O2,PO3 ,PO4,P O6,PO8 ,PO9,P O10,PO 11,PO1 2,PSO1 ,PSO2
	R. THEJAS	1KS15ME058															
	THEJAS CHANDRA K N	1KS15ME098															
	JAGADISH.P.SHETTI	1KS16ME029															
7	SHASHANK.Y.K	1KS17ME434	Design and Development of Solar Electric Bike	Dr.Girish T R	Design/Prod uction	Institute project	Application Oriented										PO1,P O2,PO3 ,PO4,P O7,PO6 ,PO8,P O9,PO1 0,PO11, PO12,P SO1,PS O2
	MAHESH.D	1KS17ME417															
	MANISH.N.D	1KS17ME418															
	VINAY.S	1KS17ME444															
8	SUMESH.R	1KS16ME089	Propulsion of Turbojet Engine Using Hydrogen Extracted from HHO Generator.	Mr. Anilkumar A	Design	Institute project	Research Oriented										PO1,P O2,PO3 ,PO4,P O6,PO7 ,PO8,P O9,PO1 0,PO11, PO12,P SO1,PS O2
	SUPREETH.K.R	1KS16ME090															
	SHIVASHANKAR.B.M	1KS16ME082															
	SREEKARA.K.B	1KS16ME085															
9	ASHOK KUMAR KARMALI	1KS16ME009	Design and fabrication of Automatic Climbing Wheel Chair	Mr.Manjunath K V	Design/Prod uction	Institute project	Application Oriented										PO1,P O2,PO3 ,PO4,P O6,PO8 ,PO9,P O10,PO 11,PO1 2,PSO1 ,PSO2
	KIRAN PRAKASH AKOLKAR	1KS16ME036															
	HARSHA.S	1KS16ME021															
	ABHISHEK RaJ	1KS16ME007															

10	CHANDAN KUMAR.N.P	1KS16ME014	Design and fabrication pneumatic scissor lift for loading and unloading.	Mr. Bharath Kumar KR	Design/Production	Institute project	Application Oriented										PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	HEMANTH.R	1KS16ME024															
	MADAN.S	1KS16ME040															
	PRAJWAL URS.P	1KS15ME110						Y	Y			Y	Y	Y	Y		
11	BALAJI .C	1KS16ME406	Numerical and Experimental Modal Parameter of Verticle Tail fin of Unmanned Aerial Vehical	Mr.Manjunath K V	Design	Institute project	Research Oriented										PO1,P02,P03,PO4,P05,PO6,PO8,P09,PO10,PO11,PO12,PSO1,PSO2
	PRAVEEN KUMAR M	1KS16ME419															
	ROHIT V RAO	1KS16ME424															
	JEEVAN ABHISHEK	1KS17ME411						Y	Y			Y	Y	Y	Y		
12	MITHUL KIRTHIC J	1KS15ME044	Fabrication and Analysis of Multipurpose Agriculture Machine.	Mr. Nagabhushan	Design/Production	Institute project	Application Oriented										PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	PAVAN KUMAR REDDY V	1KS15ME053															
	GONUGUNTLA PRASHANTH	1KS14ME030															
	ANAND L H	1KS16ME403						Y	Y			Y	Y	Y	Y		
13	NAGESH.T.S	1KS16ME049	Autonomous path finding by wheeled robot using A*algorithm	Mr. Barathkumar KR	Production	Institute project	Research Oriented										PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	BHARGAV JOSHI	1KS16ME012															
	NAGARJUN.S	1KS16ME047															
	NITHIN.N	1KS16ME053						Y	Y			Y	Y	Y	Y		
14	KANISHKA.P.SHANKAR	1KS16ME033	Mechanical behaviour of metal matrix composites	Mr.Manjunath B R	Materials	Institute project	Research Oriented										PO1,P02,P03,PO4,P06,P08,PO9,P010,PO
	CHIRAG.B.P	1KS16ME015															
	BHUVAN	1KS16ME013						Y	Y			Y	Y	Y	Y		

	BHARADWAJ.V.K																11,PO1 2,PSO1 ,PSO2
	HARSHAVARDHAN .N	IKS16ME022															
15	MOHAN KUMAR.K	IKS17ME421	Mechanical behaviour of PLA based composite reinforced with metal alloys	Mr.Ranganath N	Materials	Institute project	Research Oriented										PO1,P O2,PO3 ,PO4,P O6,PO8 ,PO9,P O10,PO 11,PO1 2,PSO1 ,PSO2
	ARUN KUMAR.R	IKS17ME402															
	LOHITH.R	IKS17ME415															
	SURABHI.N	IKS17ME439						Y	Y			Y	Y	Y	Y		
16	MOHAN KUMAR.N	IKS16ME046	Desalination of water using Graphene.	Mrs.Nirmala L	Energy	Institute project	Application Oriented										PO1,P O2,PO3 ,PO4,P O6,PO7 ,PO8,P O9,PO1 0,PO11, PO12,P SO1,PS O2
	PAVAN KUMAR.L	IKS16ME056															
	CHANNAPPAGOUD A	IKS14ME115															
	NAVEEN DESHPANDE	IKS16ME052						Y	Y		Y	Y	Y	Y	Y		
17	P.VIGNESH	IKS16ME054	Design and Fabrication of Semi-Automatic Sprinkler.	Mr. K Prasad	Design/Prod uction	Institute project	Application Oriented										PO1,P O2,PO3 ,PO4,P O6,PO8 ,PO9,P O10,PO 11,PO1 2,PSO1 ,PSO2
	ABHIJEETH.B.BHA T	IKS16ME002															
	SOWJANYA.D	IKS16ME084															
	VINAY.B.V	IKS16ME097						Y	Y			Y	Y	Y	Y		
18	AMOGHA.M.KEKU DA	IKS16ME008	Design and Analysis of Heat Sink with Fins of Different Configuration.	Mr. Naresha K	Design	Institute project	Research Oriented										PO1,P O2,PO3 ,PO4,P O6,PO7 ,PO8,P O9,PO1 0,PO11, PO12,P SO1,PS O2
	MOHAMMED YASIR RIAZ	IKS16ME045															
	KAUSHIK.K.H	IKS16ME035															
								Y	Y			Y	Y	Y	Y		

19	DEEPAK.R.GOWDA	1KS16ME016	Effect of Peroxidation on Nitro carburizing of Low or Medium Carbon Steel	Mrs.Nirmala L	Materials	Institute project	Research Oriented									PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	HEMANTH KUMAR.D.L	1KS16ME025														
	VIJAYKUMARNAIK .T.C	1KS16ME096														
	VINITH.P	1KS16ME099						Y	Y	Y	Y	Y	Y	Y		
20	VIJAYA KUMAR.M.S	1KS16ME095	Fabrication of Soil Scraper for Coconut Trees	Mrs.SreeSudha	Production	Institute project	Application Oriented									PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	VASANTH KUMAR.S	1KS16ME094														
	SUDHARSHAN.M.D	1KS16ME087														
	IRANNA CHANABASAPPA TELI	1KS16ME028						Y	Y		Y	Y	Y	Y		
21	HARISH HADIMANI	1KS16ME019	Design and fabrication and Performance Analysis of Nut Separator from the Cashew Fruit.	Mr. Madhu G	Design/Production	Institute project	Application Oriented									PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	NAGARJUN.S	1KS16ME048														
	SHIVARAJ.N.S	1KS16ME081														
	VITHAN.T.R	1KS16ME100						Y	Y		Y	Y	Y	Y		
22	PECHU MUTHU.S	1KS16ME058	Design and Automation of Nutrient Feed System to Enhance Growth Rate In Hydroponics.	Mr. Gautham S	Energy	Institute project	Research Oriented									PO1,P02,P03,PO4,P06,P07,PO8,P09,PO10,PO11,PO12,PSO1,PSO2
	PRAMOD RAJ.K	1KS16ME063														
	SAGAR.N	1KS16ME073														
	SHARATH.S.YADAV	1KS16ME076						Y	Y	Y	Y	Y	Y	Y	Y	
23	RISHI.R.NAIK	1KS16ME070	Phase Heat Transfer Inside Internally Helical Grooved Small Diameter Tubes.	Mr. Ganesh A B	Thermal	Institute project	Research Oriented									PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	SHAIK MOINUDDIN	1KS16ME075														
	MANISH.N	1KS14ME046														
	PAVITHRA.B	1KS16ME057						Y	Y		Y	Y	Y	Y	Y	

24	NIKHIL GOWDA.N.S	1KS17ME423	Manufacturing and experimental evaluation of the mechanical properties of flat hybrid sandwich panels.	Dr.Ajay Kumar B S	Materials	Institute project	Research Oriented									PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	KIRAN.S	1KS17ME413														
	MD.JUFFIKIR	1YD16ME104														
								Y	Y			Y	Y	Y	Y	
25	VINAY.V.P	1KS16ME098	Thermal Management of Electronic Equipment's Using Oscillating Heat Pipes with Binary Mixture of Working Fluids.	Mr. Parashuram A K	Thermal	Institute project	Research Oriented									PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	SIRISH GOVARDHAN	1KS16ME083														
	ABHIJITH.C	1KS16ME101														
	MADHU.G.K	1KS16ME102						Y	Y			Y	Y	Y	Y	
26	PRATAP.L	1KS17ME425	Recycling of Waste Plastics.	Mr. K Prasad	Energy	Institute project	Application Oriented									PO1,P02,P03,PO4,P06,P07,PO8,P09,PO10,PO11,PO12,PSO1,PSO2
	RAKESH.B.R	1KS17ME430														
	GUHAN BHASKAR	1KS17ME408														
	THRIVENI.M	1KS17ME442						Y	Y		Y	Y	Y	Y	Y	
27	RAKSHITH.L	1KS17ME431	Implementation of Friction Less Breaking System.	Mr. Nagaprasad K S	Automotive	Institute project	Research Oriented									PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	SRINIVASA.B.V	1KS17ME437														
	SUSHMA.Y.S	1KS17ME440														
	TEJAS.P.N	1KS17ME441						Y	Y			Y	Y	Y	Y	
28	BHARATHKUMAR.P	1KS16ME011	Design and Fabrication of Wet Waste Disposer	Dr.Girish T R	Design/Production	Institute project	Application Oriented									PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	IMRAN KHAN	1KS16ME027														
	PAPPU KUMAR SINGH	1KS16ME055														
	JUNAID KHAN	1KS16ME032						Y	Y		Y	Y	Y	Y	Y	

29	PRANAV.J.ATHREY	IKS16ME064	Design and fabrication of Pre heating Chamber For 4 Stroke Diesel Engine for Boi Diesel usage.	Mr. Murulidhar K S	Thermal	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	PRAJWAL KRISHNA	IKS16ME060													
	PRAKASH RAJU.S	IKS16ME061													
	PRAMOD.R	IKS16ME062													
30	JAYANTH.P	IKS16ME030	Design and fabrication of fire extinguisher using sound waves.	Mr. Murulidhar K S	Design/Production	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	RAJKUMAR.S.K	IKS16ME067													
	RAMESH PAL.P	IKS16ME069													
	BHARATH .R	IKS15ME015													
31	HARITHUS.V	IKS15ME028	FABRICATION OF FIREEXTINGUISHER USING SOUND WAVES	Mr.Manjunath B R	Design/Production	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	MAHANTESH	IKS15ME042													
	MUTTURAJ V KESANUR	IKS15ME046													
	sagar c	IYD16ME010													
32	SUDARSHAN.T	IKS16ME086	Extraction of fuel from waste plastics.	Mr.Ranganath N	Energy	Institute project	Application Oriented	Y	Y	Y	Y	Y	Y	Y	PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	ARUNKUMAR.E	IKS17ME401													
	CHETHAN.C.R	IKS17ME404													
	DARSHAN.H.R	IKS17ME405													
33	GURUPRASAD.T.M	IKS17ME409	Design and fabrication of mini ground nut shelling machine.	Mr.Kaushik M M	Design/Production	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1,P02,P03,PO4,P06,P08,PO9,P010,PO11,PO12,PSO1,PSO2
	KANTHARAJU.K.N	IKS17ME412													
	NAGESH.S	IKS17ME422													
	PRATHEEK.P	IKS17ME426													

34	AKSHAY ARAKERIMATH	1KS16ME401	Design and Fabrication of Mono Wheel using Recycled Automobile Engine.	Mr.Naresha K	Design/Prod uction	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1,P O2,PO3 ,PO4,P O6,PO8 ,PO9,P O10,PO 11,PO1 2,PSO1 ,PSO2
	SOWMYA B	1KS16ME429													
	GOWTHAM PRASAD	1KS16ME 441													
	RAVI.K.R	1KS17ME432													
35	AKSHAY S MASHAL	1KS16ME402	Design and fabrication of windup car.	Mr.Harish U	Design/Prod uction	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y	PO1,P O2,PO3 ,PO4,P O6,PO8 ,PO9,P O10,PO 11,PO1 2,PSO1 ,PSO2
	RAKSHITH	1KS15ME052													
	SUNIL GOWDA	1KS16ME430													
	MAHANIDHI	1KS15ME109													

Table 2.17: Project Work details for the Academic year 2018-2019

Sl. No.	Team Members		Project Title	Guide Name	Stream	Project Category	Type	Execut ion of Projec t	Contributions applicable to the project						
	Name	USN							Innovation	Environment	Cost	Society	Safety	Ethics	Relevant PO/PSO Mapping
1	ADITYA NARAYAN P	1KS15ME004	Optimizations of Urban cultivation using Mobile Photoreceptive platforms	Mr. M Umashankar	Energy				Y	Y	Y	Y		Y	PO4, PO6, PO7 PSO1,PS O2
	ATHUL BHARADWAJ V P	1KS15ME014													
	HRUSHIKESH VINAY SHASTRY MS	1KS15ME029													
	SHARAN KUMAR M P	1KS15ME041													
2	AKASH GADADA S	1KS15ME007	Enhancing the life of Gas Turbine blade model by altering the composition of coating materials.	Mr. Harish U	Materials	Institute project	Research Oriented	Y			Y		Y	Y	PO2, PO4, PO6 PSO1,PS O2
	ANIKETH P DEOKAR	1KS15ME009													
	ARPIT S DYAPUR	1KS15ME013													
	KARTHIK YADAV C	1KS15ME033													
3	DARSHAN S	1KS15ME021	Design of Rectangle Parabolic reflector concentrator to generate steam for solar panel cleaning - PRSPC	Mr. K Prasad	Thermal	Institute project	Application Oriented	Y	Y	Y	Y	Y	Y	Y	PO3, PO4, PO7 PSO1,PS O2
	DEEPAK V	1KS15ME022													
	GAUTHAM M K	1KS15ME025													
	JAYANTH G S	1KS15ME030													
4	ADARSH J	1KS15ME003	Analysis of Fins in Compact Heat Exchangers	Mr. Bharath Kumar KR	Design	Institute project	Research Oriented	Y		Y	Y		Y	Y	PO2, PO4, PO5 PSO1,PS O2
	JAYATHERTHA S RAO	1KS15ME031													
	MOHAMED HASEEB	1KS15ME045													
	SYED MAAZ	1KS15ME093													
5	ARCHANA N	1KS15ME010	Evaluation of tensile and Hardness Properties of Al7075 alloy based	Mrs. Sreesudha	Materials	Institute project	Research oriented	Y				Y	Y	Y	PO2, PO4, PO6 PSO1,PS
	GURU PRASAD C	1KS15ME026													
	VISHAL NS	1KS16ME437													

	KARTHIK HS	1KS14ME031	MMC's														O2
6	PRAMOD MG	1KS15ME055	Design and construction of an integrated domestic organic waste composting device.	Mr. M Umashankar	Energy	Institute project	Application Oriented	Y	Y	Y	Y	Y	Y	Y	Y		PO3, PO4, PO7 PSO1,PS O2
	RAGHU BHARADWAJ	1KS15ME060															
	RAM NARAYAN GS	1KS15ME063															
	SAGAR S	1KS15ME074															
7	RAYANA GOUDA PATIL	1KS15ME066	Fabrication of semi-Automatic Ayurveda Grinding Machine	Mrs. Nirmala L	Design/Production	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y			PO2, PO3, PO4, PO5 PSO1,PS O2
	ROHITH KC	1KS15ME067															
	SADAAT TAMEEM	1KS15ME073															
	SUNDARESH KAUSHIK	1KS15ME089															
8	SANATH S	1KS15ME078	Vibro acoustic analysis of a Thin Cylindrical Shell with and without Passive damping patches.	Mr. Anil Kumar A	Design	Institute project	Research Oriented	Y	Y		Y	Y	Y	Y			PO2, PO4, PO5, PSO1,PS O2
	SHRI S	1KS15ME084															
	SUMAN C	1KS15ME088															
	SAI SHASHAUNK TR	1KS15ME095															
9	BHARGAV HS	1KS14ME021	Design and Analysis of Spring in series for mono shock suspension.	Mr. M Umashankar	Design/Production	Industry project	Application Oriented	Y	Y		Y	Y	Y	Y			PO2, PO4, PO5, PSO1,PS O2
	SHREYAS RA	1KS14ME086															
	SUPRIT S KUMAR	1KS14ME092															
	SUHAS C S	1KS14ME112															
10	PRANAV RAJ S	1KS15ME070	Solar Tracker using worm gear mechanism	Mr. Anil Kumar A	Design	Institute project	Application oriented	Y	Y		Y	Y	Y	Y			PO2, PO4, PO7 PSO1,PS O2
	SAI KIRAN R	1KS15ME076															
	VISHNU TEJA P	1KS15ME105															
	VISHWAS D	1KS15ME106															
11	SURAJ.S	1KS15ME090	Power generation with foot step using slider crank mechanism in walking areas.	Mrs. Nirmala L	Design/Production	Institute project	ApplicationOriented	Y	Y		Y	Y	Y	Y			PO2, PO3, PO7 PSO1,PS O2
	TEJAS.V	1KS15ME097															
	VINEETH.N.K	1KS15ME103															
	SHIVKUMAR H L	1KS15ME081															
12	KRISHNA.R.MOJAM DAR	1KS15ME038	Design and Fabrication of a	Mr. Manjunath B	Design	Institute project	tion Oriented	Y	Y		Y	Y	Y	Y			PO2, PO4,

	NITIN.M	1KS15ME050	device to increase R															PO5, PSO1,PS O2
	PRARTHANA AMAR.K	1KS15ME056	Traction during Acute Turning															
	U.V.PARIKHANSH	1KS15ME099																
13	DARSHAN.K	1KS15ME020	Design and															PO3, PO6 PSO1,PS O2
	DEVARAJU.H.K	1KS15ME023	Fabrication of	Mr. K Prasad	Design/Pro duction	Institute project	Applicatio n Oriented	Y	Y		Y	Y	Y	Y				
	SHREYAS.G.T	1KS15ME083	customized automated dry															
	RAHUL .H .S	1KS15ME422	coconut slicer.															
14	RAHUL R	1KS14ME071																PO3, PO6 PSO1,PS O2
	SHASHI KUMAR	1KS13ME100	Design and															
	SHASHI BHARADWAJ K.V.	1KS12ME092	Fabrication of	Mr. Harish U	Design	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y				
			Manually operated															
	PARINITH S MADHAV	1KS11ME068	Multi-Operational Mechanical system															
15	ARAVIND J	1KS14ME015																PO2, PO4, PO5, PSO1,PS O2
	GOVARDHAN V B	1KS14ME113	Stress based	Mr.	Design	Institute project	Research Oriented	Y	Y		Y	Y	Y	Y				
	BASAVANA GOWDA	1KS14ME114	Topology optimization of 30 Ton C-Clamp using FEA	Nagabhushana M														
	JEEVAN REDDY N S	1KS13ME041																
16	BHARATH G	1KS14ME020																PO2, PO4, PO5, PSO1,PS O2
	DARSHAN GOWDA H D	1KS14ME026	Stress based	Mr.	Design	Institute project	Research Oriented	Y	Y		Y	Y	Y	Y				
			Topology optimization of 150 Ton Grab-M Tong using FEA	Nagabhushana														
	PALANI PAVAN B	1KS13ME072																
17	ABHISHEK.G.HEGD E	1KS15ME002																PO2, PO4, PO5, PSO1,PS O2
	C.B.KARTHIK	1KS15ME017	Design, Analysis and fabrication of	Mr. Naresha K	Design	Institute project	Application Oriented	Y	Y		Y	Y	Y	Y				
	K.SANTRUPTH	1KS15ME032	Trammel balls for safe transit of															
	AKASH DOMAKUNTI	1KS15ME006	water tankers.															
18	HARIKRISHNA.Y.R	1KS15ME027																PO3, PO6 PSO1,PS O2
	B.V. BRIJESH	1KS16ME407	Design															
	PRAJWAL .M	1KS16ME417	&Fabrication of	Mr. Murlidhar K	Design/Pro duction	Institute project	Application Oriented	Y	Y			Y	Y	Y				
	SYED KHWAJA KHASIMSHA .G	1KS16ME431	Automatic Pothole detection and filling machine.	S														
19	SAGAR .M .N	1KS16ME425																PO3,
			Solar Energy based	Mr. Murlidhar K		ute proje ct n Orien		Y	Y	Y		Y	Y	Y				

	SHIVA KUMAR .R .M	1KS16ME427	Automatic Drainage Cleaning Machine	S													PO6, PO7 PSO1,PS O2
	TIPPESH .M	1KS16ME432			Energy												
	VINAY KUMAR	1KS16ME436															
20	ROHITH SOMAYAJI	1KS15ME069															PO3, PO4, PO5 PSO1,PS O2
	SAI ABHIRAM.G.P	1KS15ME075	Design and Fabrication of material handling	Mr. Kaushik M	Design/Production	Industry project	Application Oriented	Y				Y	Y	Y	Y		
	AJAY.N	1KS16ME400	Pallet														
	AVINASH	1KS16ME405															
21	RAVINDRA	1KS15ME065															PO2, PO4, PSO1,PS O2
	ROHITH.N	1KS15ME068	Design of Hydraulic Ram for unloading in	Mr. Manjunath K V	Design/Production	Institute project	Application Oriented	Y	Y				Y	Y	Y		
	SACHIN KUMAR.H	1KS15ME072	Tipppers.														
	SAMRAT NAG	1KS15ME077															
22	AKSHAYKUMAR POTADAR	1KS15ME008															PO3, PO4, PO7 PSO1,PS O2
	BHARATH.U	1KS15ME016															
	G.MADHUSUDHAN REDDY	1KS15ME024	Optimization of energy by Hybrid water purification through reverse	Mr. K Prasad A.K	Energy Energy	Institute project	Application Oriented	Y	Y	Y			Y	Y	Y		
	NELAPATLA PARASARAN	1KS15ME049	Osmosis.														
23	AJITH.G.BHAT	1KS15ME005															PO2, PO4, PSO1,PS O2
	KIRTHI KUMAR.H.JAIN	1KS15ME036	Experimental studies on Pulsating Heat	Mr. Parashuram A.K	Thermal	Institute project	Research Oriented	Y	Y	Y			Y	Y	Y		
	PAVAN .B	1KS16ME415	pipes with Binary mixture of fluids as working medium.														
	VENKATARAMANA NAYAK K	1KS16ME435															
24	PRAVEEN HIREMATH	1KS16ME418	Fabrication of Bio-gas unit for residential purpose.	Mr. Gautham S	Energy	Institute project	Application Oriented	Y					Y	Y	Y	Y	PO3, PO7 PSO1,PS O2
	VEERESH M	1KS16ME434															
	DHANUSHREE .K	1KS16ME440															
25	LIKHITH.M.R	1KS15ME039	Experimental and Numerical study on Frequency response of cylindrical shells subjected to different boundary conditions	Mr. Anil Kumar A	Design	Institute project	Research Oriented	Y	Y				Y	Y		Y	PO2, PO4, PO5 PSO1,PS O2
	LOHITH.T.P	1KS15ME040															
	RAHUL SRIVATHSA.N	1KS15ME047															
	PRADEEP RAJ.R	1KS15ME054															

26	ABHISHEK.B.RAJ	1KS15ME001	Automatic and manual mode based Hand Brake release Mechanism	Mr. Parashuram A.K	Automotive	Institute project	Application Oriented	Y	Y			Y	Y	Y	PO3, PO4 PSO1,PSO2
	KISHAN.M	1KS15ME037													
	MAYUR.L	1KS15ME043													
27	RAVITEJA.T.S	1KS15ME064	Portable Mechanical power kit	Mr. Madhu G	Production	Institute project	Application Oriented	Y	Y				Y	Y	PO3, PO4 PSO1,PSO2
	MANJU .B. K	1KS16ME411											Y	Y	
	NIKHIL .P	1KS16ME414													
	VARUN .R	1KS16ME433													
28	NIRANJAN.B.S	1KS14ME060	Study on Hot Corrosion and Oxidation behaviour of HVOF Coatings	Dr. Ajaykumar B.S	Materials	Institute project	Research Oriented	Y					Y	Y	PO2, PO4, PSO1,PSO2
	YASHWANTH.P.S	1KS15ME108													
	SAMPATH KUMAR	1KS16ME426													
	SHIVASWAMY .S	1KS16ME428													
29	RAJAT KUMAR SAHU	1KS15ME061	Effect on Mechanical and structural properties of rolled Aluminium alloy (AA6082) by using friction stir processing with silicon carbide as particulate matter.	Mr. Nagaprasad K.S	Materials	Institute project	Research Oriented	Y					Y	Y	PO2, PO4 PSO1,PSO2
	RAKESHA SHARMA.C.R	1KS15ME062													
	SRINIVAS.M.V	1KS15ME086													
	SANJEEV.S.BIDARA HALLI	1KS15ME080													
30	SHIVAKUMARA.D.S	1KS15ME082	Design and Analysis of support structure configurations for heavy payloads.	Mr. Ranganath N	Design	Industry project	Application Oriented	Y	Y			Y	Y	Y	PO2, PO4, PO5 PSO1,PSO2
	SUBIN SURESH NAIR	1KS15ME087													
	NAVEEN KUMAR .U	1KS16ME413													
31	SUSHANTH	1KS15ME092	Fabricating of remote controlled Aquatic weed remover machine.	Mr. Mallikarjuna M.R	Design/Production	Institute project	Application Oriented	Y	Y	Y			Y	Y	PO3, PO6, PO7 PSO1,PSO2
	TEJARAJ.M	1KS15ME096													
	VINOD KUMAR.B	1KS15ME104													
	SABARI VIGNESH.S	1KS15ME071													
32	R. ARUN BALLAL	1KS16ME404	Design and Fabrication of a remote controlled system for a Hydraulic Jack used for Tractors.	Dr. Girish T.R	Design/Production	Institute project	Application Oriented	Y	Y			Y	Y	Y	PO3, PO4 PSO1,PSO2
	HARISH .T .V	1KS16ME409													
	INDRESH .K .M	1KS16ME410													
33	PAVAN KUMAR .R	1KS16ME416	Fabrication and Analysis of a Solar thermo electric generator (STEG).	Mr. Abhishek M.R	Energy	Institute project	Application Oriented	Y	Y			Y	Y	Y	PO3, PO7 PSO1,PSO2
	RAHUL .H .R	1KS16ME421													
	RAKSHITH GOWDA	1KS16ME423													
	YASHWANTH .K	1KS16ME439													

C. PROCESS FOR MONITORING AND EVALUATION

Project coordinator is responsible for planning, scheduling and execution of all the activities related to the student project work. A draft project work schedule for final year students is shown in table 2.18

Table 2.18: Project work Schedule for final year students

Timeline	Task	Particulars
SEMESTER SIX & SEVEN		
4th week	Call for project batch	<ul style="list-style-type: none"> Students are invited to from their batch and get registered with project coordinator of the department. Project synopsis submitted by students is pre-evaluated by project committee.
6th week	Guide allotment	<ul style="list-style-type: none"> Submitted project synopsis is reviewed by the committee constituted by HOD and guides will be allotted based on their specialization and titles submitted by the students
8th week	Synopsis Submission	<ul style="list-style-type: none"> Final synopsis is submitted to project coordinator
12th week	First Review	Students are instructed to submit requirement, specifications and do power point presentation for the project including literature survey (Evaluation of phase I by a team of faculty)
SEMESTER EIGHT		
4th week	Second Review	Students are instructed to submit design document /interim results of the project and do a power point presentation for the project. (Evaluation phase II by a team of faculty)
8th week	Final Demonstration	Students are instructed to submit complete project report with university compliance and do a power point presentation for the project including Demo of the model developed (Evaluation phase III by a team of faculty)
12th week	Project internal marks announcement	Final marks for the project work is displayed and processed according to university regulations.
14th week	Project Exhibition	Students exhibit their project and experts from industry and academics will evaluate the projects and select the best projects for the year.


D. PROCESS TO ASSESS INDIVIUAL AND TEAM PERFORMANCE

The Internal project Evaluation is carried out in 3 Phases i.e. Phase-1, 2 & 3. Project evaluation scheme and sample copy of project evaluation sheet is shown in table 2.19 and figure 2.30 respectively.

Table 2.19: Project Evaluation

Sl. No.	Evaluation scheme	Marks
1.	Depth of Knowledge	05
2.	Presentation skills	05
3.	Individual Contribution	05
4.	Presentation and Planning	05
Total		20

Sample evaluation sheet



K.S. INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING.
PROJECT EVALUATION - IIT

Date: 6/5/2019									
Title of the Project: Optimisation of Urban cultivation using Mobile Photoreceptive platforms									
Group No Batch-01									
Guide: M. UMASHANKAR									
Sl No	USN	Student Name	Reviewer	Depth of Project Knowledge (5)	Presentation Skills (5)	Individual Contribution (5)	Progress Made (5)	Overall marks (20)	Evaluator's Signature
1	IKS15ME004	ADITYA NARAYAN P	G				5 5	20 20	<i>a. nandh</i>
			E1	5	5	5			
			E2	5	5	5			
			E3						
2	IKS15ME014	ATHUL BHARADWAJ V P	G				5 5	20 20	<i>a. nandh</i>
			E1	5	5	5			
			E2	5	5	5			
			E3						
3	IKS15ME029	HRUSHIKESH VINAY SHASTRY MS	G				5 5	20 20	<i>a. nandh</i>
			E1	5	5	5			
			E2	5	5	5			
			E3						
4	IKS15ME041	SHARAN KUMAR M P	G				5 5	20 20	<i>a. nandh</i>
			E1	5	5	5			
			E2	5	5	5			
			E3						

Name of Evaluator 1 (E1)

Name of Evaluator 2 (E2)

Name of Evaluator 3 (E3)

Fig. 2.33: Sample Copy of Project Evaluation sheet

E. QUALITY OF COMPLETED PROJECTS

SPONSORED PROJECTS:

Students are encouraged to submit proposals for various external project funding agencies like KSCST, VGST & VTU project sponsorship every year and the following table gives the list of projects sponsored. List of sponsored projects and Sample Copy of Certificate issued from KSCST is shown in table 2.20 and figure 2.34 respectively

Table 2.20: List of Sponsored Projects

Year	Project Title	Funding agency/Scheme	Amount	Duration	Name of the coordinator
2020-2021	Fabrication of Portable Shredding & Composting Device for Kitchen & Garden Waste	KSCST project fund	6,000/-	6 months	Prof.K.Prasad
	Design & Development of Zero lag Turbocharger to increase Engine Efficiency & to Reduce Air Pollution	KSCST project fund	6,500/-	6 months	Prof.Anilkumar A
	Automatic Disinfectant System	KSCST project fund	6,000/-	6 months	Prof.Gautham S
	Fabrication & Performance testing of portable Archimedes Screw Micro Hydro Generator	KSCST project fund	6,000/-	6 months	Prof.K Prasad
2019-2020	Propulsion of Turbojet Engine Using HHO Gas Generated from Water by HHO Generator	KSCST project fund	5,500/-	6 months	Prof. Anilkumar A
	Design & Automation of Nutrient Feed System to Enhance Growth Rate in Hydroponics	KSCST project fund	5,000/-	6 months	Prof.Gautham S
	Design & Fabrication of Solid Waste Collector & Water De-Frothing Device	KSCST project fund	5,500/-	6 months	Prof.Umashankar M
	Emission Reduction of Diesel Engine by using DPF, DOC & Injecting Diesel Exhaust fluid in Exhaust pipe	KSCST project fund	6,500/-	6 months	Prof. Nagaprasad K S
2018-2019	Design and construction of An Integrated Domestic organic waste composting device.	KSCST project fund	8,000/-	6 months	Prof. M.Umashankar
	Thermal management of Electronic equipments using oscillating heat pipes with binary mixture of working fluids.	KSCST project fund	8,000/-	6 months	Dr.K.RamaNarasimha& Parashuram.A.K
	Dual powered water purification system	KSCST project fund	6,000/-	6 months	Prof. K.Prasad

Sample KSCST Certificate



Fig.2.34: Sample copy of Certificate issued from KSCST

BEST PROJECTS:

The Department employs a case by case basis to review all the projects carried by students group. Review of projects is carried out by a panel of examiners comprising of professors, senior faculty & chaired by Head of the Department. List of Best Projects & Paper Presentation 2020-2021, 2019-2020 and 2018-2019 is shown in table 2.21, 2.22 and 2.23 respectively.

CAY 2020-2021

Table 2.21: List of Best Projects for the Academic year 2020-2021

Best Projects [2020-2021]						
SL. NO	USN	Name of the students	Title of the project	Area of work carried out	Name of the guide	POs/PSOs relevance
1	1KS17ME018	DARSHAN BS	Design and fabrication of turbo charger with zero turbo lag	Design	Prof. Anil kumar A	PO1, PO2, PO3, PO4, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	1KS17ME003	ABHILASH KS				
	1KS17ME013	ASIF K				
	1KS17ME050	PRAKASH Y				
2	1KS17ME054	R. Gokul	Fabrication of portable Archimedes screw micro-hydro generator	Energy	Prof. K. Prasad	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	1KS17ME059	Rajath N.R				
	1KS17ME067	Satwik shivaram bhat				
	1KS17ME071	Shashank L				
3	1KS17ME053	PUNEETH GOWDA.N	Auto disinfection system	Design	Prof. Gautham S	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	1KS17ME076	SHASHI KIRAN				
	1KS17ME081	SKANDA.S				
	1KS17ME083	SOWRAV.A				
4	1KS17ME008	ANIRUDH BHARADHWAJ	Fabrication of Portable Shredding & Composting Device for Kitchen & Garden Waste	Design	Prof. K. Prasad	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	1KS17ME014	BHARATH KUMAR G				
	1KS17ME024	GANAPATHI MANJUNATH H				
	1KS17ME025	GANESH KUMAR NARAYAN H				

CAY 2019-2020

Table 2.22: List of Best Projects for the Academic year 2019-2020

Best Projects [2019-2020]						
SL. NO	USN	Name of the students	Title of the project	Area of work carried out	Name of the guide	POs/PSOs relevance
1	1KS16ME089	SUMESH.R	Propulsion of Turbojet Engine Using HHO Gas Generated from Water by HHO Generator	Design	Prof. Anilkumar A	PO1, PO2, PO3, PO4, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	1KS16ME090	SUPREETH.K.R				
	1KS16ME082	SHIVASHANKAR .B.M				
	1KS16ME085	SREEKARA.K.B				
2	1KS16ME058	PECHU MUTHU.S	Design & Automation of Nutrient Feed System to Enhance Growth Rate in Hydroponics	Energy	Prof. Gautham S	PO1, PO2, PO3, PO4, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	1KS16ME063	PRAMOD RAJ.K				
	1KS16ME073	SAGAR.N				
	1KS16ME076	SHARATH.S.YAD AV				
3	1KS16ME010	ASHWIN MAIYA.M	Design & Fabrication of Solid Waste Collector &	Design/Production	Prof. Umashankar M	PO1, PO2, PO3, PO4, PO6, PO8, PO

	1KS16ME023	HARSHITH.S	Water De-Frothing Device			9,PO10,PO11,PO12,PSO1,PSO2
	1KS16ME038	M.VENKATESH KASHYAP				
	1KS16ME044	MANOJ.R				

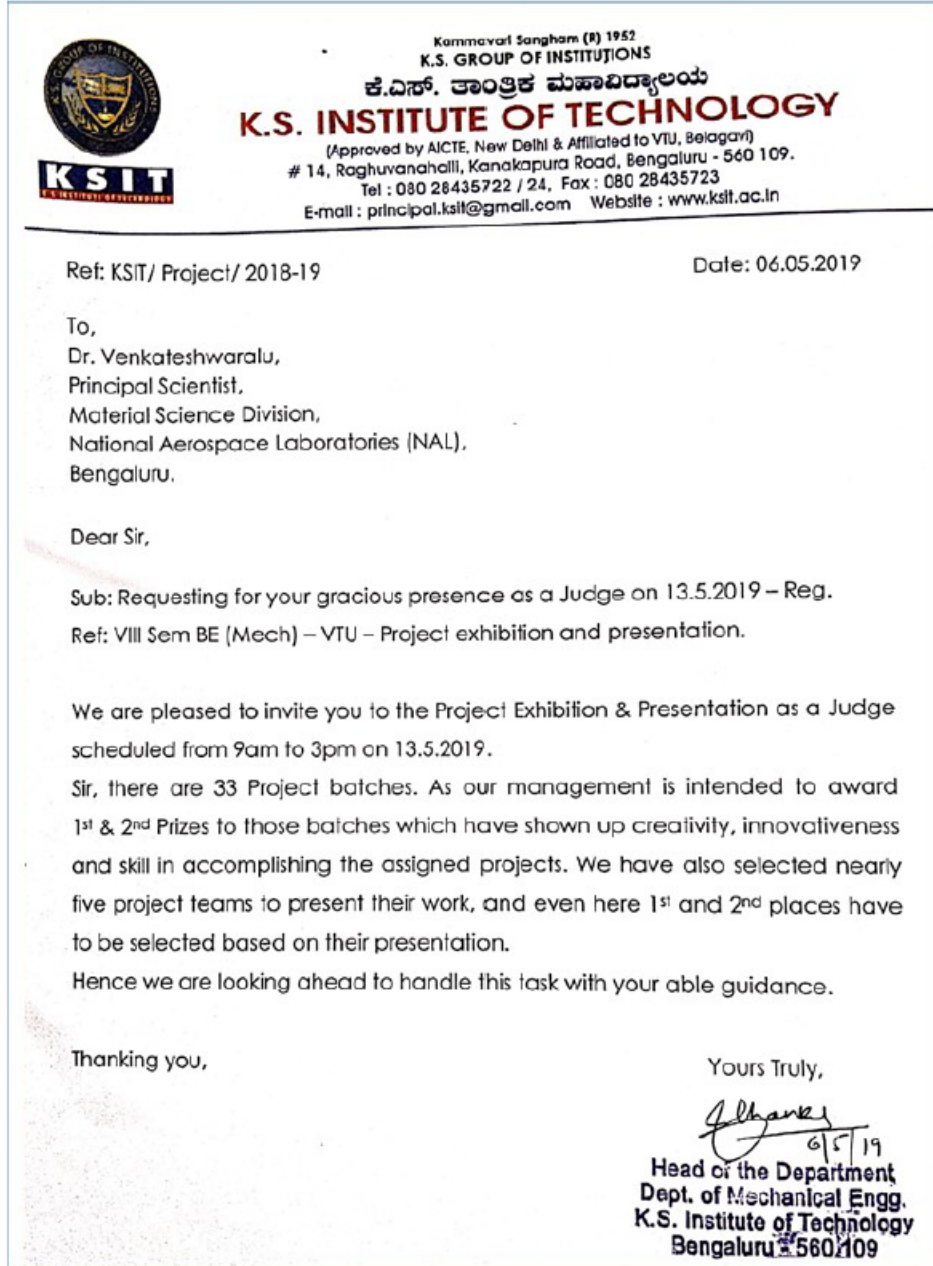
CAY 2018-2019

Table 2.23: List of Best Projects for the Academic year 2018-2019

Best Projects [2018-2019]						
SL.NO	USN	Name of the students	Title of the project	Area of work carried out	Name of the guide	POs/PSOs relevance
1	1KS15ME002	ABHISHEK G HEGDE	Design and Fabrication of Trammel Balls to eliminate slosh and surge effects in liquid transport systems to develop a safe transit.	Design & Analysis	Mr. Naresha K	PO1 to PO12, (except PO3, PO7 & PO8) PSO1, PSO2
	1KS15ME006	AKASHDOMAK UNTI				
	1KS15ME017	C B KARTHIK				
	1KS15ME032	K SANTRUPH				
2	1KS16ME413	NAVEEN KUMAR U	Design and optimization of stiffener geometry and magnitude of interference in steam turbine disc using FEA	Design & Analysis	Mr. Ranganath N	PO1 to PO12, (except PO7 & PO8) PSO1, PSO2
	1KS15ME082	SHIVAKUMAR D S				
	1KS15ME087	SUBIN SURESH NAIR				

Best Paper Presentation [2018-2019]						
SL. NO	USN	Name of the students	Title of the project	Area of work carried out	Name of the guide	POs/PSOs relevance
1	1KS15ME007	AKASHGADADA S	Enhancing Life of Gas Turbine blade model by altering the composition of coating material	Thermal Spray Coating	Mr.Harish U	PO1 to PO12, (except PO3 & PO7) PSO1, PSO2
	1KS15ME009	ANIKETH P DEOKAR				
	1KS15ME013	ARPIT S DYAPUR				
	1KS15ME033	KARTHIKYADAV C				
2	1KS15ME004	ADITYA NARAYAN P	Optimisation of Urban Cultivation Using mobile Photoreceptive platforms	Analysis	Mr.Umashankar M	PO1 to PO12, (except PO3 PO4 & PO8) PSO1, PSO2
	1KS15ME014	ATHULBHARADW AJ V P				
	1KS15ME029	HRUSHIKESH VINAY SHASTRY M S				
	1KS15ME041	SHARAN KUMAR M P				

The sample copy of letter sent to external examiner for project evaluation and certificate issued for best project is shown in figure 2.35 and 2.36 respectively





Kammavai Sangham (R) 1952
K.S. GROUP OF INSTITUTIONS
ಕೆ.ಎಸ್. ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ
K.S. INSTITUTE OF TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to VTU, Belagavi)
14, Roghuvannahalli, Kanakapura Road, Bengaluru - 560 109.
Tel : 080 28435722 / 24, Fax : 080 28435723
E-mail : principal.ksit@gmail.com Website : www.ksit.ac.in

Ref: KSIT/ Project/ 2018-19

Date: 06.05.2019

To,
Dr. B. Anand,
Professor,
Department of Mechanical Engineering,
RV College of Engineering,
Bengaluru.

Dear Sir,

Sub: Requesting for your gracious presence as a Judge on 13.5.2019 – Reg.

Ref: VIII Sem BE (Mech) – VTU – Project exhibition and presentation.

We are pleased to invite you to the Project Exhibition & Presentation as a Judge scheduled from 9am to 3pm on 13.5.2019.

Sir, there are 33 Project batches. As our management is intended to award 1st & 2nd Prizes to those batches which have shown up creativity, innovativeness and skill in accomplishing the assigned projects. We have also selected nearly five project teams to present their work, and even here 1st and 2nd places have to be selected based on their presentation.

Hence we are looking ahead to handle this task with your able guidance.

Thanking you,

Yours Truly,

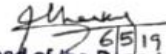

6/5/19
Head of the Department
Dept. of Mechanical Engg.
K.S. Institute of Technology
Bengaluru - 560 109

Fig.2.35: Sample copy of Letter sent to External Examiners for Project Evaluation



Fig.2.36: Sample copy of Certificate issued for best project

F. EVIDENCE OF PAPERS PUBLISHED

The following table 2.24 shows papers published by students and sample papers are shown in fig 2.37

Sl.NO.	Name of the students	Title of the paper	Journal Details
1	AdithyaPai	Proportional Integral Derivative Controller on Boilers Temperature and Flow Control Parameters	International Journal of Pure and Applied Mathematics Volume 119 No. 14 2018, 173-177 ISSN: 1314-3395
2	G. S. Santhosh	Design of Conical Strainer and Analysis Using FEA	International Journal of Engineering Science Invention (IJESI) ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726
3	Shishir Ganesh S	Vertical Takeoff and Landing (VTOL) aircraft using Tiltrotor Mechanism	International Journal on Recent Technologies in Mechanical and Electrical Engineering (IJRMEE) ISSN: 2349-7947 Volume: 5 Issue: 2
4	V. Anirudh2	Investigation of Tesla Turbine	International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS) Volume VI, Issue XII, December 2017 ISSN 2278-2540

Design of Conical Strainer and Analysis Using FEA

M. Umashankar¹, G. S. Santhosh²

¹Associate Professor, Department of Mechanical Engineering, KSIT, Bengaluru, India.

²PG Student, Department of Mechanical Engineering, KSIT, Bengaluru, India.

Corresponding Author: M. Umashankar

ABSTRACT: Strainer is a Mechanical element, which is used to separate the debris particles from the flowing fluid to downstream equipment. The fluid flow without filtration in to the downstream equipment causes damage, due to the initial and maintenance cost of downstream equipment is high, it is necessary to avoid the equipment from the failure. Generally the design, maintenance and service are done by keeping the cost as its main factor. Hence the possible methods should be adopted to avoid this type of failure. The Temporary Strainer is used when the debris rate is more in fluid flow. The pressure exerted into the normal temporary strainer could not withstand the fluid flow exerted to the downstream process and collect the debris properly. Hence Conical strainer is the type of Temporary strainer proposed for large debris collection capacity. So design is carried out to make more stiffer to collect large rate of debris and withstand more pressure with less deformation. Finally validated the results of FEA solution with the Theoretical solution. From the derived formulae, the deformation is more than the expected level, obtained better result for conical Strainer with Stiffener.

KEYWORDS: Conical Strainer, Stiffener, Deformation, Von Mises, Burst Pressure.

Date of Submission: 14-02-2018

Date of acceptance: 03-03-2018

I. INTRODUCTION

During and after the installation of pipeline and tank systems in industries, it is necessary to clean thoroughly. The cleaning procedure may often detach of weld. The scaling and other impurities are to be separate from the flowing fluid. If the impurities from the flowing fluid are not separate before entering into the system it may cause damage to the whole system of plants like Sewage Treatment industries, Chemical plant, Food processing facilities, Mining operation, Cement manufacturing, Petrochemical etc.

In order to control the damage for the system in the plant, it is necessary to install the separator in the inlet of pump. The separator must monitor the degree of contamination. The industries have experienced the need of filtering device for the protection of pump, compressor, turbine, meters, automatic valves, Steam traps etc.. Filtering device is the mechanical element used to remove or separate the debris or solid particles and other impurities from the fluid which is flowing into the system, it is also called as Strainer [1].

The application of strainer in mechanical equipment's like centrifugal pump, Centrifugal compressor, Turbine etc., operates on small clearance between rotating and static part. Also spray, nozzle and trap have small opening to the flow [2].



(a) Filter element.



(b) Dome shaped Ellipsoidal part.

Proportional Integral Derivative Controller on Boilers Temperature and Flow Control Parameters

Adithya Pai U^[1], Akshay^[2], Ankush A Telkar^[3], Ashray Shetty^[4], Mr. Umashankar M^[5]

^[1,2,3,4]Department of ME, ^[5]Associate Professor, K.S.Institute of Technology, Bangalore

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Abstract

A proportional-integral-derivative controller (PID controller or three term controller) is a control loop feedback mechanism used in industrial control systems and a variety of other applications requiring continuously modulated control. In practical terms it automatically applies accurate and responsive correction to a control function. Boiler control is the critical process, where a small wrong action may lead to a big explosion. So, implementation of PID Controls makes it efficient. Here in this paper the results of controlling "Temperature and Flow" Parameter will be controlled using software PID in PLC have been discussed and the results have been drawn. The paper aims at controlling temperature of boiler using PID Controller and building a prototype. The proposed idea looks to integrate both of them and implement the same into Boiler Industries.

Keywords—PLC, PID, Temperature, Flow, Sensors, Heating Coil

1. Introduction

Boiler systems have numerous parameters that vary with respect to time and this may act as one of the main causes of reduction in boiler efficiency. The temperatures and the pressures that arise in a boiler system are very high which may affect the safety of the work environment if the system is not maintained properly. Boiler systems are prone to errors which has a major effect in the working of the boiler. Maintenance of the boiler systems is expensive and requires human intervention which increases the Human risk that is involved. The number of parameters and processes in a Boiler system in order for it to function properly is high, which increases the human effort. Plants require continuous monitoring and inspection at regular intervals. There are several ways to measure the errors and various stages involved with human workers, and also the lack of few features of microcontrollers^[1].

A steam turbine is a device that extracts thermal energy from pressurized steam and uses it to do mechanical work on a shaft which is rotating. The rotary motion generated by the turbine is particularly suited to be used to drive an electrical generator. The governor control of a turbine is essential as turbines need to be run up slowly to prevent damage and some applications require precise speed control. The SCADA is used to monitor the system, PLC (Programmable Logic Controller) is also used for the internal storage of instruction for the implementing function such as arithmetic, counting, timing, sequencing and logic to control through digital or analogue input/output modules various types of machines processes.

The boiler parameters such as temperature, pressure and level can be automatically controlled using PLC. This reduces manual workload and human errors. The automation technique involving the automatic control of all the processes which includes the

monitoring and inspection needs provides for a very efficient system.

2. Literature Review

In one of their papers, Subramanu Padhee and Yaduvir Singh give an overview of data acquisition, data logging and supervisory control system of a plant consisting of multiple boilers. Data acquisition, data logging and supervisory control are the basic building blocks of plant automation. This paper takes a case study of plant consisting of multiple boilers where multiple process variables of the boilers need to be acquired from the field and monitored. The data of the process variables needs to be logged in a database for further analysis and supervisory control.^[1]

Mihai Iacob, Gheorghe-Daniel Andreescu, and Nicolae Muntean presented us with an open loop dispatcher training simulator for boiler-turbine implemented in LabView for COLTERM heating power plant of Timisoara, Romania. The system employs real-time capability, graphical user interface (GUI), uninterrupted operator interaction, having as background a low order boiler-turbine model for dynamic simulation. The operator manually controls the fuel charges on each of the three boilers, the turbine valve position and the steam to consumers, to anticipate parameter evolution on each boiler and the electric power generated by turbine.^[2] PID tuning methods: - Ziegler Nichols method, Tyreus Luyben method, Internal Model Control (IMC) and Fuzzy logic controller.

3. Experimental Setup

The temperatures and the pressures that arise in a boiler system are very high which may affect the safety of the work environment if the system is not maintained properly. Boiler systems are prone to errors which has a major effect in the working of the boiler. Maintenance of the boiler systems is expensive and requires

Investigation of Tesla Turbine

M. Umashankar¹, V. Anirudh², Khushal Pishey³

¹Associate Professor, ^{2,3}Engineering Students

K. S. Institute of Technology, Bangalore – 560109, Karnataka, India

Abstract—This project outlines one of the key investigations on tesla turbine on basis of a cogeneration ideology. Cogeneration or combined heat and power (CHP) is the use of a heat engine or power station to generate electricity and useful heat at the same time. The type of fluid flow into the tesla turbine determines the performance and thus a study on a kind of fluid introduced into the turbine and its effect on efficiency becomes necessary. This investigation allows us to narrow down the possibilities of using fluids and overall tabulation of co-generative energy resources which can help us develop alternate energy for existing energy crisis and carbon footprints in the environment.

Keywords- Tesla Turbine, Co-generation, energy crisis, carbon footprints

I. INTRODUCTION

The beginning of 1913 experienced a revolution in industrialization of machinery when Nikola Tesla patented his bladeless turbine that used series of rotating discs to convert energy of flowing fluid into a mechanical rotation which can be used to perform useful work. It's a simple device that has very few moving parts in which work is produced when the working fluid is introduced tangentially at the outer edge of the plates or the rotating discs around the center shaft. In 1922 Tesla made some basic modifications in design where he introduced two heavier end plates which were tapered towards the periphery for the purpose of reducing the maximum centrifugal stresses developed in his initial design.

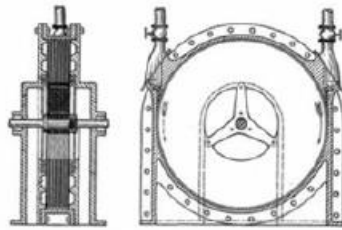


Figure 1 Original Schematic of tesla turbine

This turbine is an efficient self-starting prime mover which may be operated as a steam or mixed fluid turbine at will, without changes in construction and is on this account very convenient. Minor departures from the turbine, as may be dictated by the circumstances in each case, will obviously suggest themselves but if it is carried out on these general lines it will be found highly profitable to the owners of the steam plant while permitting the use of their old installation. However, the best economic results in the development of power from steam by the Tesla turbine will be obtained in plants especially adapted for the purpose.

II. PRINCIPLE

Multiple-disk Tesla-type drag turbines rely on a mechanism of energy transfer that is fundamentally different from most typical airfoil-bladed turbines or positive-displacement expanders. The turbine rotor consists of several flat, parallel disks mounted on a shaft with a small gap between each disk; these gaps form the cylindrical micro-channels through which momentum is transferred from the fluid to the rotor. Exhaust holes on each disk are placed as close to the center shaft as possible. A turbine casing surrounds the disks with a low pressure port near the exhaust holes in each disk, and with a high pressure nozzle positioned at the outer edges of the disks and pointed at the gaps between each disk. The flow enters the channels at a high speed and a direction nearly tangential to the outer circumference of the disks, and exits through an exhaust port at a much smaller inner radius. Energy is transferred from the fluid to the rotor via the shear force at the microchannel walls.

As the spiraling fluid loses energy, the angular momentum drops causing the fluid to drop in radius until it reaches the exhaust port. In a pump, centrifugal force assists in expulsion of fluid. On the contrary, in a turbine centrifugal force opposes fluid flow that moves toward center.

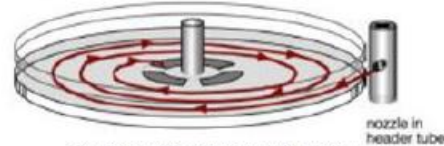


Figure 2.Schematic of fluid flow in tesla turbine

Vertical Takeoff and Landing (VTOL) aircraft using Tiltrotor Mechanism

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Abstract— A multi rotor is aircraft which generates lift and propulsion by way of one or more powered rotors mounted on rotating engine pods usually at the ends of a fixed wing which drive the shafts transferring power to rotor assemblies mounted on the wingtips. It combines the vertical lift capability of a helicopter with the speed and range of a conventional fixed wing aircraft. For vertical flight, the rotors are angled so the plane of rotation is horizontal, lifting the way a helicopter rotor does. As the aircraft gains speed, the rotors are progressively tilted forward, with the plane of rotation eventually becoming vertical. In this mode the wing provides the lift, and the rotor provides thrust as a propeller.

Keywords- Multi rotor, Aircraft, Helicopter, vertical, thrust.

I. INTRODUCTION

A vertical take-off and landing (VTOL) aircraft is one that can hover, take off, and land vertically. This classification includes fixed-wing aircraft as well as helicopters and other aircraft with powered rotors, such as cyclopyros/cyclopters and tiltrotors. Some VTOL aircraft can operate in other modes as well, such as CTOL (conventional take-off and landing), STOL (short take-off and landing), and/or STOVL (short take-off and vertical landing). Others, such as some helicopters, can only operate by VTOL, due to the aircraft lacking landing gear that can handle horizontal motion. VTOL is a subset of V/STOL (vertical and/or short take-off and landing). Besides the ubiquitous helicopter, there are currently two types of VTOL aircraft in military service, craft using a tiltrotor, such as the Bell Boeing V-22 Osprey, and another using directed jet thrust, such as the Harrier family and new F-35B Lightning II Joint strike Fighter (JSF). Generally speaking, VTOL aircraft capable of STOVL use it wherever possible, since it typically significantly increases take-off weight, range or payload compared to pure VTOL. A tiltrotor is an aircraft which generates lift and propulsion by way of one or more powered rotors (sometimes called proprotors) mounted on rotating engine pods or nacelles usually at the ends of a fixed wing or an engine mounted in the fuselage with drive shafts transferring power to rotor assemblies mounted on the wingtips. It combines the vertical lift capability of a helicopter with the speed and range of a conventional fixed-wing aircraft. For vertical flight, the rotors are angled so the plane of rotation is horizontal, lifting the way a helicopter rotor does. As the aircraft gains speed, the rotors are progressively tilted forward, with the plane of rotation eventually becoming vertical. A tiltrotor aircraft differs from a tilting in that only the rotor pivots rather than the entire wing. This method trades off efficiency in vertical flight for efficiency in STOL/STOVL operations.

II. DESIGN

There are several thumb rules in aero modelling to design a multirotor and a plane. For a multirotor the distance between the motors should be 1 and half propeller length (depends on propeller used). To build a canard plane the aspect ratio of the wings should be approximately 3:4. But these are for ideal

condition, suitable changes are made to adopt both concepts in the same model. To meet these design requirements the following materials are used.

MATERIAL SELECTION

The following materials are used in building the multirotor:

A. Pine Wood



Figure 1: Pine Wood

Pine is softwood which grows in most areas of the Northern Hemisphere. There are more than 100 species worldwide. Properties: Pine is a soft, white or pale yellow wood which is light weight and straight grained.

B. Aluminium



Figure 2: Aluminium L Clamp

Aluminium is remarkable for the metal's low density and its ability to resist corrosion through the phenomenon of passivation. Aluminium and its alloys are vital to the aerospace industry and important in transportation and structures, such as building facades and window frames. The oxides and sulphates are the most useful compounds of aluminium.

Despite its prevalence in the environment, no known form of life uses aluminium salts metabolically, but aluminium is well tolerated by plants and animals. Because of their abundance, the potential for a biological role is of continuing interest and studies continues.

Fig.2.36: Sample Copy of Papers Published by Students

2.2.4. INITIATIVES RELATED TO INDUSTRY INTERACTION (15)

The Initiatives related to industry interaction are:

- MOUs are signed between industries and institute for establishing Industry institute link.
- Students will be encouraged to take up on going industry projects.
- Internships for the students are arranged.
- Industrial visits along with the faculty members are arranged to bridge the gap between theoretical concepts and practical implications of the same.
- Technical lecturers are organized with the help of industrial experts.
- Arranging seminars, symposiums, workshops and conferences in collaborations with industries.

A. INDUSTRY SUPPORTED PROJECTS/ LABORATORIES

Premier Industries and Institutes such as Bosch, BFW, HAL, BEML, ADE, IISc DRDO, GKVK etc. continuously support our students to carry out their project work. Following table list the various groups of students who carried out projects in these industries/ institutes. The details of the industry supported projects for the year 2018-2019 is shown in table 2.25.

CAY-2018-2019

Table 2.25: Details of the Industry Supported projects for the year 2018-2019

Academic Year [2018-2019]						
SL.No	USN	Name of the students	Title of the project	Name Of Guide	Work Carried Out	POs/PSOs
1	1KS14ME021	BHARGAV H S	Design, Analysis & Manufacturing of single to double springs of Mono-Shock Suspension	Dr.Balaji B	Somappa Springs	PO1 to PO12, (except PO5) PSO1, PSO2
	1KS14ME086	SHREYAS R S				
	1KS14ME092	SUPRIT S KUMAR				
	1KS14ME112	SUHAS C S				
2	1KS15ME069	ROHITHSOMAYAJI	Design and Fabrication of Material Handling Pallet	Mr.Kaushik M M	L&T	PO1 to PO12, (except PO8) PSO1, PSO2
	1KS15ME075	SAIABHIRAM G P				
	1KS16ME400	AJAY N				
	1KS16ME405	AVINASH				
3	1KS15ME082	SHIVAKUMAR D S	Design and optimization of stiffener geometry and magnitude of Interference in steam turbine disc using FEA	Mr.Ranganath N	ISRO	PO1 to PO12, (except PO8) PSO1, PSO2
	1KS15ME087	SUBIN SURESH NAIR				
	1KS16ME413	NAVEEN KUMAR U				

B. INDUSTRY INVOLVEMENT IN PROGRAM DESIGN AND PARTIAL DELIEVRY OF ANY REGULAR COURSES FOR STUDENTS

MOU'S WITH INDUSTRIES:

MOU's with different industries are as shown in the following table 2.26

Table 2.26: Details of the MOU Signed with the Industries:

Sl.No.	Name of the company with address	Date of signing MOUs	Activity conducted
1	Nandi Vishwavidyalaya LP TOWERS, 2ND FLOOR, NANDI TOYOTA #46, 7th Mile, 3A, Hosur Rd, Kudlu Gate, Bengaluru, Karnataka 560068	08-09-2021	i. 4 weeks Internship & training program
2.	Govt.Tool room & training center-Kanakapura	10-03-2021	i. 4 weeks Internship & training program.
3.	Elite Techno Groups, 418, Jaipur Electronic Market Ridhisidhi circle, Gopalpura Bypass Jaipur - 302018	16-05-2018	i. 4 weeks Internship & training program. ii. Industrial design project completion by participants iii. Provide complete technical support iv. Fabrication of complete vehicle by participants.
4.	eXergy Heating Solutions Pvt. Ltd 34, Govardhan garden OPP. To DPS Yelachnahalli Kanakapura Main Road Bangalore - 560109	16-12-2016	i. Will provide an opportunity for Students for campus selections. ii. Upgrading Technical Skills iii. Assistance in final year projects

C. IMPACT ANALYSIS OF INDUSTRY INSTITUTE INTERACTION AND ACTION TAKEN THEREOF:

The department continuously putting efforts to bridge the gap between industry and academia by organizing events viz;

- Industrial visits
- Guest lecturers from industrial experts
- MOU's, internships
- Inviting Alumni working in various reputed industries
- Permitting the students to interact with Alumni in every Alumni meet.

The **impact analysis** is done based on indirect assessment of the mentioned events. The **enhancement in PO and PSO attainment** is recorded so as to realize the importance of industry institute interaction. In additional, following observations were documented;

- Students are exposed to real time practical experience of the concepts studied in the classrooms and realized the practical importance of the courses.
- Industrial visit creates more interest in the courses.
- Students are inspired to do hard work and get placed in such industries.
- Students were exposed to the industry standards and workplace culture

2.2.5. INITIATIVES RELATED TO INDUSTRY INTERNSHIP/SUMMER TRAINING (15)

A. DETAILS OF INDUSTRIAL TRAINING/ TOURS FOR STUDENTS

The following table 2.27 shows different industries visited by staff and students between 2016 and 2021. Few photographs taken during industrial visit and the sample copy of permission letter for Industrial visit is shown in figure 2.37 and 2.38 respectively.

Table 2.27: Details of the Industrial Visits

Academic Year	Date	Sem	Name of Industry Visited	No. of Students
2018-2019 2019-2020 2020-2021	01-02-2017	VI	IMTEX Exhibition at BIEC	112
	04-03-2017	IV	Open Day at IISc	120
	25-03-2017	VI	Rotary Wing Research & Design Centre, HAL	120
	08-05-2019	III	Govt. Tool room training Centre(GTTC),Bengaluru	135
	10-05-2019	V	Solar power plant,Shivanasamudra and Cauvery Hydro power plant	86
	08-09-2021	V	Walvoil Fluid Power India Pvt.Ltd.	56



Fig.2.37: Few Snap shots taken during students visit to solar power plant, Shivanasamudra & Cauvery Hydro Power plant



Date: 02.05.2019

To,
The Managing Director,
Govt. Tool Room and Training Centre (GTTC)
Rajajinagar industrial Estate
Bangalore-560044

Dear Sir,

Sub: Permission for Industrial Visit – Reg.

K.S Institute of Technology started in the year 1999 has carved a niche for itself by imparting quality education in the realms of engineering. The institution is affiliated to Visveswaraya Technological University & Recognized by Govt. of Karnataka and approved by AICTE, New Delhi.

The IV Semester B.E. Mechanical Engineering students of our Institution are interested to visit your centre during 8th & 9th May 2019. This would greatly help our students to know more about the GTTC practical aspects of Engineering. The strength of the student's is 135. I request you to kindly grant permission for our students to visit your establishment and let us know the convenient time for visit and member of students you can permit in a batch.

The batches are scheduled as follows.

Sl. No.	No. of Students	Section	Date & Session
1	45	B	08/05/2019 Afternoon
2	49	A	09/05/2019 Morning
3*	41	C	09/05/2019 Afternoon

Note: List of students enclosed

Thanking you,

Your's faithfully,



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

Fig.2.38: Sample Copy of permission letter for Industrial visit to GTTC

B. INDUSTRIAL/ INTERNSHIPS/SUMMER TRAINING

The internship coordinator along with HOD and Senior faculty of the department will interact with industries for providing internship and training opportunities for the students.

The students are encouraged to take up internship programs. Internship coordinators gives the guidelines, suggestions and scope for internship and also help the students by interacting with the industrial experts; provide the students with recommendation letters and other necessary supports. The students are encouraged to take up internship programs during their semester vacation. The industry internship details for the academic year 2020-2021, 2019-2020 and 2018-2019 is shown in table 2.28, 2029 and 2030 respectively

Table 2.28: Industry Internship Details (Academic Year 2020-2021)

Sl. No.	USN	Name of the Student	Organization
1	1KS18ME002	AKHIL JITH K S	Tenneco Automotive India Pvt. Ltd, Hosur Plant, TN
2	1KS18ME003	AKSHAY S A	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
3	1KS18ME004	ANIRUDH R	Glastronix, Peenya Industrial Area, Bangalore
4	1KS18ME005	ANIRUDH R SRIVATSA	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
5	1KS18ME009	ASHISH VILAS JADHAV	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
6	1KS18ME011	BHARATH R	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
7	1KS18ME013	CHEETHAN KUMAR R	KSRTC, Regional Workshop, Kengeri, Bangalore
8	1KS18ME014	DARSHAN G	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
9	1KS18ME015	DHANARAJ H D	KSRTC, Regional Workshop, Kengeri, Bangalore
10	1KS18ME016	DHANUSH B M	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
11	1KS18ME017	G DEVENDRA	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
12	1KS18ME018	HARISH.B	S S Technologies
13	1KS18ME020	HARSHA.P	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
14	1KS18ME021	HEMANTHKUMAR M P	The Government Tool Room & Training Centre, Sangama Road, Kanakapura
15	1KS18ME023	K JEEVAN KUMAR	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
16	1KS18ME025	KAUSHAL S	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
17	1KS18ME028	KUPPALA AKHILESWAR	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
18	1KS18ME030	LOKESH G	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
19	1KS18ME032	MALLIKARJUN	
20	1KS18ME033	MANOJ A	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
21	1KS18ME036	MOHAN RAJU G	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
22	1KS18ME037	MOHITH J	Prinston smart engineers
23	1KS18ME038	NAGANITHESH S N	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
24	1KS18ME039	NAVANEETH KRISHNA S	
25	1KS18ME040	NIKHIL BHARADWAJ V	Hindustan Aeronautical Limited,Bangalore
26	1KS19ME400	AKSHAY R	
27	1KS19ME401	AMITH KUMAR M	Prinstone Smart Engineers
28	1KS19ME402	ANAND S	BEML Soudha, Sampangiram Nagar, Bangalore
29	1KS19ME404	DHANUSH K	HVAC
30	1KS19ME405	JAGADEESH PRASAD S K	PRINSTON SMART ENGINEERS
31	1KS19ME410	SANJAY P	HVAC
32	1KS19ME411	SHASHI KIRAN A	HVAC
33	1KS19ME416	YOGESH H M	The Government Tool Room & Training Centre, Sangama Road, Kanakapura
34	1KS17ME005	AKASH H S	HVAC DESIGN
35	1KS17ME026	GIRIDHAR.M.P - 17 Scheme	BEML LIMITED, Thippasandra, Bangalore
36	1KS17ME029	JAGRUTH S	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
37	1KS16ME001	ADITYA AK - 17 Scheme	HVAC, Design
38	1KS16ME037	M G SUHAS - 15 Scheme	BEML Soudha, Sampangiram Nagar, Bangalore
39	1KS18ME043	NITHINKUMAR K S	Hindustan Aeronautical Limited,Bangalore
40	1KS18ME044	OMKAR M V	S S Group of Industries, Sira, Tumkur
41	1KS18ME046	PAVANKUMAR.H.M	Middlby engineering India Pvt ltd(manufacturer of food processing mechnary)

42	1KS18ME047	PRADYUMNA G	IFB Automotive Private Limited, Kasaba, Hosakote, Bangalore
43	1KS18ME051	PRERANA A M	Hindustan Aeronautical Limited,Bangalore
44	1KS18ME052	RAHUL B N	Federal Mogul, Doddaballapur Road, East Colony, Yelahanka
45	1KS18ME053	RAHUL P	Federal Mogul, Doddaballapur Road, East Colony, Yelahanka
46	1KS18ME054	RAKSHITH A	Federal Mogul, Doddaballapur Road, East Colony, Yelahanka
47	1KS18ME058	SACHIN GHARABUDE	GTTC
48	1KS18ME060	SANJAY RAO G	Federal Mogul, Doddaballapur Road, East Colony, Yelahanka
49	1KS18ME061	SANKARSHAN DESHPANDE	BOSCH Limited, Hosur Road, Adugodi, Bangalore
50	1KS18ME062	SANTHOSH K	PARSONS NUTRITIONALS PRIVATE LIMITED
51	1KS18ME064	SHARAN V KUMAR	SHETRON LIMITED
52	1KS18ME066	SHRINIDHI D	Federal Mogul, Doddaballapur Road, East Colony, Yelahanka
53	1KS18ME067	SHRIVARSHINI G M	IFB Automotive Private Limited, Kasaba, Hosakote, Bangalore
54	1KS18ME068	SOHITH S	Hindustan Aeronautical Limited,Bangalore
55	1KS18ME069	SRINIVASA R	Hindustan Aeronautical Limited,Bangalore
56	1KS18ME070	SUHAS H J	Hindustan Aeronautical Limited,Bangalore
57	1KS18ME071	SUHAS J	Nandi Toyota, Kudlu Gate, Hosur Road, Bangalore
58	1KS18ME072	SUMUKHA T V	IFB Automotive Private Limited, Kasaba, Hosakote, Bangalore
59	1KS18ME074	SWASTHIK D K	Stumpp Schuele & Somappa Springs Pvt., Ltd., Bommasandra, Bangalore
60	1KS18ME075	SYED ALI FAIZAN KHADRI	Hindustan Aeronautical Limited,Bangalore
61	1KS18ME076	TEJAS A B	Maini Precision Products Limited, Peenya, Bangalore
62	1KS18ME077	UDAY KIRAN P	Stumpp Schuele & Somappa Springs Pvt., Ltd., Bommasandra, Bangalore
63	1KS18ME078	UJWAL N	Stumpp Schuele & Somappa Springs Pvt., Ltd., Bommasandra, Bangalore
64	1KS18ME079	VARUN M	IFB Automotive Private Limited, Kasaba, Hosakote, Bangalore
65	1KS18ME026	KEERTHANA M	IFB Automotive Private Limited, Kasaba, Hosakote, Bangalore
66	1KS19ME403	D. MANISH	Federal Mogul, Doddaballapur Road, East Colony, Yelahanka
67	1KS19ME407	KUNAL SAGAR S	Sree manjunatha engineering
68	1KS19ME408	NIKHIL SINGH K	Sree manjunatha engineering
69	1KS19ME409	PRAJWAL S	PRINSTON SMART ENGINEERS
70	1KS19ME413	SUMANTH KUMAR R	PRINSTON SMART ENGINEERS
71	1KS19ME415	YOGANANDA A N	GTTC KANAKAPURA
72	1KS18ME403	AKHL A PUROHIT	BEML Soudha, Sampangiram Nagar, Bangalore
73	1KS17ME015	BHASKAR R	Maini Precision Products Limited, Peenya, Bangalore
74	1KS16ME039	MADAN K V	PRINSTON SMART ENGINEERS

Table 2.29: Industry Internship Details (Academic Year 2019-2020)

Sl. No.	USN	Name of the Student	Organization
1	1KS15ME046	MUTTURAJ.V.KESANUR	ACE DESIGNER LTD
2	1KS16ME412	MOHAN	
3	1KS16ME002	ABHIJEETH.B.BHAT	AJAX FIORI PVT LTD
4	1KS16ME045	MOHAMMED YASIR RIAZ	BELLATRIX AEROSPACE
5	1KS16ME011	BHARATHKUMAR.P	BHEL
6	1KS16ME057	PAVITHRA.B	CARTISAN
7	1KS16ME084	SOWJANYA.D	
8	1KS16ME029	JAGADISH.P.SHETTI	COE IN A&D
9	1KS16ME401	AKSHAY ARAKERIMATH	
10	1KS17ME407	DEVIPRASAD.M	CRR PRESS TECH
11	1KS17ME410	GURUSWAMY.H	
12	1KS17ME419	MITHUN.S	
13	1KS17ME420	MOHAN KUMAR.C	
14	1KS16ME083	SIRISH GOVARDHAN	Gas Turbine
15	1KS15ME102	VENKATESHA N	
16	1KS16ME004	ABHILASH.S	
17	1KS16ME006	ABHISHEK PAREEK	
18	1KS16ME026	HITESH.C.S	GTTC
19	1KS16ME031	JAYDEEP.B	
20	1KS16ME035	KAUSHIK.K.H	
21	1KS16ME058	PECHU MUTHU.S	
22	1KS16ME070	RISHI.R.NAIK	
23	1KS16ME086	SUDARSHAN.T	
24	1KS16ME093	VARUN.C	
25	1KS16ME105	RAKESH.B.R	
26	1KS16ME406	BALAJI.C	
27	1KS16ME408	HANUMANTHAPPA	
28	1KS16ME419	PRAVEEN KUMAR.M	
29	1KS16ME429	SOWMYA B	
30	1KS17ME406	DEEPAK.E	GTTC
31	1KS17ME431	RAKSHITH.L	
32	1KS17ME435	SHASHIKUMAR.C.R	
33	1KS17ME437	SRINIVASA.B.V	
34	1KS17ME444	VINAY.S	
35	1KS16ME016	DEEPAK.R.GOWDA	
36	1KS16ME028	IRANNA CHANABASAPPA TELI	
37	1KS16ME104	RAGHU.S	
38	1KS17ME439	SURABHI.N	
39	1KS16ME025	HEMANTH KUMAR.D.L	
40	1KS16ME102	MADHU.G.K	
41	1KS17ME415	LOHITH.R	
42	1KS17ME432	RAVI.K.R	
43	1KS17ME440	SUSHMA.Y.S	GTTC KKP
44	1KS17ME442	THRIVENI.M	
45	1KS15ME110	PRAJWAL URS.P	
46	1KS16ME096	VIJAYKUMARNAIK.T.C	
47	1KS16ME099	VINITH.P	
48	1KS16ME101	ABHIJITH.C	
49	1KS16ME060	PRAJWAL KRISHNA	
50	1KS16ME061	PRAKASH RAJU.S	
51	1KS16ME062	PRAMOD.R	
52	1KS16ME064	PRANAV.J.ATHREY	IISc
53	1KS16ME073	SAGAR.N	
54	1KS16ME082	SHIVASHANKAR.B.M	
55	1KS16ME089	SUMESH.R	
56	1KS16ME098	VINAY.V.P	
57	1KS14ME046	MANISH N	NANDI TOYOTA

58	1KS15ME018	CHETAN.M.KUMAR	
59	1KS15ME028	HARITHUS.V	
60	1KS15ME042	MAHANTESH	
61	1KS15ME048	N.RAMA KRISHNA	
62	1KS15ME058	R.THEJAS	
63	1KS15ME098	THEJAS CHANDRA.K.N	
64	1KS16ME007	ABHISHEK RAJ	
65	1KS16ME009	ASHOK KUMAR KARMALI	
66	1KS16ME010	ASHWIN MAIYA.M	
67	1KS16ME012	BHARGAV JOSHI	
68	1KS16ME015	CHIRAG.B.P	
69	1KS16ME019	HARISH HADIMANI	
70	1KS16ME021	HARSHA.S	
71	1KS16ME022	HARSHAVARDHAN.N	
72	1KS16ME027	IMRAN KHAN	
73	1KS16ME030	JAYANTH.P	
74	1KS16ME032	JUNAID KHAN	
75	1KS16ME033	KANISHKA.P.SHANKAR	
76	1KS16ME036	KIRAN PRAKASH AKOLKAR	
77	1KS16ME038	M.VENKATESH KASHYAP	
78	1KS16ME044	MANOJ.R	
79	1KS16ME046	MOHAN KUMAR.N	
80	1KS16ME047	NAGARJUN.S	
81	1KS16ME048	NAGARJUN.S	
82	1KS16ME049	NAGESH.T.S	
83	1KS16ME052	NAVEEN DESHPANDE	
84	1KS16ME053	NITHIN.N	
85	1KS16ME055	PAPPU KUMAR SINGH	
86	1KS16ME056	PAVAN KUMAR.L	
87	1KS16ME063	PRAMOD RAJ.K	
88	1KS16ME067	RAJKUMAR.S.K	
89	1KS16ME069	RAMESH PAL.P	
90	1KS16ME076	SHARATH.S.YADAV	
91	1KS16ME081	SHIVARAJ.N.S	
92	1KS16ME085	SREEKARA.K.B	
93	1KS16ME087	SUDHARSHAN.M.D	
94	1KS16ME090	SUPREETH.K.R	
95	1KS16ME094	VASANTH KUMAR.S	
96	1KS16ME095	VIJAYA KUMAR.M.S	
97	1KS16ME100	VITHAN.T.R	
98	1KS16ME403	ANAND.L.H	
99	1KS16ME424	ROHIT.V.RAO	
100	1KS16ME438	VISHWANATHA.B.NAIK	
101	1KS17ME402	ARUN KUMAR.R	
102	1KS17ME408	GUHAN BHASKAR	
103	1KS17ME409	GURUPRASAD.T.M	
104	1KS17ME411	JEEVAN ABHISHEK	
105	1KS17ME413	KIRAN.S	
106	1KS17ME416	MAHADEVA RAJU.H.E	
107	1KS17ME417	MAHESH.D	
108	1KS17ME418	MANISH.N.D	
109	1KS17ME421	MOHAN KUMAR.K	
110	1KS17ME423	NIKHIL GOWDA.N.S	
111	1KS17ME434	SHASHANK.Y.K	
112	1KS16ME013	BHUVAN BHARADWAJ.V.K	
113	1KS16ME024	HEMANTH.R	
114	1KS17ME425	PRATAP.L	OMAX
115	1KS17ME430	RAKESH.B.R	
116	1KS17ME441	TEJAS.P.N	
117	1KS16ME075	SHAIK MOINUDDIN	Peach Engineering Pvt. Ltd.
118	1KS16ME008	AMOGHA.M.KEKUDA	RAPSOL
119	1KS16ME014	CHANDAN KUMAR.N.P	

120	1KS16ME040	MADAN.S	
121	1KS16ME023	HARSHITH.S	SCANIAIND PVT LTD
122	1KS16ME054	P.VIGNESH	Volvo Group India Private Limited,
123	1KS16ME097	VINAY.B.V	
124	1KS14ME030	GONUGUNTLA PRASHANTH	
125	1KS14ME115	CHANNAPPAGOUDA	
126	1KS15ME015	BHARATH.R	
127	1KS15ME035	KIRANA.C	
128	1KS15ME044	MITHUL KIRTHIC J	
129	1KS15ME053	PAVAN KUMAR REDDY.V	
130	1KS17ME401	ARUNKUMAR.E	BMTC
131	1KS17ME404	CHETHAN.C.R	
132	1KS17ME405	DARSHAN.H.R	
133	1KS17ME412	KANTHARAJU.K.N	
134	1KS17ME422	NAGESH.S	
135	1KS17ME426	PRATHEEK.P	
136	1KS16ME430	SUNIL GOWDA S O (Got Eligibility)	
137	1KS16ME441	S GAWTHAM PRASAD (Got Eligibility)	

Table 2.30: Industry Internship Details (Academic Year 2018-2019)

Sl. No.	USN	Name of the Student	Organization
1	1KS15ME082	SHIVAKUMARA.D.S	ACE Design, Peenya
2	1KS15ME061	RAJAT KUMAR SAHU	AVASARALA TECHNOLOGIES
3	1KS15ME080	SANJEEV.S.BIDARAHALLI	AVASARALA TECHNOLOGIES
4	1KS15ME086	SRINIVAS.M.V	BEML
5	1KS15ME062	RAKESHA SHARMA.C.R	BEML, BENGALURU
6	1KS15ME064	RAVITEJA.T.S	BEML, KGF
7	1KS14ME021	BHARGAV.H.S	BMTC, SHANTHINAGAR
8	1KS16ME411	MANJU.B.K	
9	1KS16ME413	NAVEEN KUMAR.U	
10	1KS16ME414	NIKHIL.P	
11	1KS15ME003	ADARSH.J	BOSCH
12	1KS16ME402	AKSHAY.S.MASHAL	BOSCH
13	1KS16ME417	PRAJWAL.M	CAUVERY HYDRO POWER PLANT
14	1KS14ME060	NIRANJAN.B.S	DRDO
15	1KS15ME060	RAGHU BHARADWAJ.R	FEDERAL MOGHAL
16	1KS14ME031	H.S.KARTHIK	FIT WELL TOOLS & FORGING
17	1KS15ME004	ADITYA NARAYAN.P	HAL
18	1KS15ME009	ANIKETH.P.DEOKAR	
19	1KS15ME010	ARCHANA.N	
20	1KS15ME013	ARPIT.S.DYAPUR	
21	1KS15ME014	ATHUL BHARADWAJ.V.P	
22	1KS15ME026	GURU PRASAD.C	
23	1KS15ME036	KIRTHI KUMAR.H.JAIN	
24	1KS15ME041	M.P.SHARAN KUMAR	
25	1KS15ME066	RAYANAGOUDA PATIL	
26	1KS15ME071	SABARI VIGNESH.S	
27	1KS15ME072	SACHIN KUMAR.H	
28	1KS15ME073	SADAAT TAMEEM	HAL
29	1KS15ME075	SAI ABHIRAM.G.P	
30	1KS15ME093	SYED MAAZ	
31	1KS15ME096	TEJARAJ.M	
32	1KS16ME400	AJAY.N	
33	1KS16ME405	AVINASH	
34	1KS16ME418	PRAVEEN HIEMATH	
35	1KS16ME433	VARUN.R	
36	1KS16ME434	VEERESH	
37	1KS16ME437	VISHAL.N.S	
38	1KS16ME441	GOWTHAM PRASAD.S	
39	1KS15ME089	SUNDARESH KAUSHIK.B.V	HM&C INDUSTRIES
40	1KS15ME087	SUBIN SURESH NAIR	IISc
41	1KS15ME068	ROHITH.N	INDIAN RAILWAYS
42	1KS15ME090	SURAJ.S	KANTI PREPISION, BOMMASANDRA

43	1KS15ME097	TEJAS.V	
44	1KS15ME103	VINEETH.N.K	
45	1KS15ME055	PRAMOD.M.G	
46	1KS15ME063	RAM NARAYAN.G.S	KENNAMETAL
47	1KS15ME074	SAGAR.S	
48	1KS15ME001	ABHISHEK.B.RAJ	
49	1KS15ME020	DARSHAN.K	KSRTC, KENGERI
50	1KS15ME021	DARSHAN.S	
51	1KS15ME023	DEVARAJU.H.K	
52	1KS15ME027	HARIKRISHNA.Y.R	
53	1KS15ME083	SHREYAS.G.T	
54	1KS15ME092	SUSHANTH	
55	1KS15ME109	S.MAHANIDHI	
56	1KS16ME404	R.ARUN BALLAL	
57	1KS16ME407	BRIJESH.B.V	
58	1KS16ME409	HARISH.T.V	
59	1KS16ME410	INDRESH.K.M	
60	1KS16ME415	PAVAN.B	
61	1KS16ME421	RAHUL.H.R	
62	1KS16ME422	RAHUL.H.S	
63	1KS16ME425	SAGAR.M.N	
64	1KS16ME426	SAMPATHKUMAR	KSRTC, KENGERI
65	1KS16ME427	SHIVAKUMAR.R.M	
66	1KS16ME428	SHIVASWAMY.S	
67	1KS16ME430	SUNIL GOWDA.S.O	
68	1KS16ME431	SYED KHWAJA KHASIM SHA.G	
69	1KS16ME432	TIPPESH.M	
70	1KS16ME435	VENKATARAMANA NAYAK.K	
71	1KS16ME436	VINAY KUMAR	
72	1KS16ME439	YASHWANTH.K	
73	1KS15ME069	ROHITH SOMAYAJI	L&T, DODDABALLAPURA
74	1KS14ME112	SUHAS.C.S	MAGNIFIED SOLUTIONS
75	1KS15ME008	AKSHAYKUMAR POTADAR	MAHINDRA & MAHINDRA
76	1KS15ME024	G.MADHUSUDHAN REDDY	
77	1KS15ME065	RAVINDRA	
78	1KS15ME077	SAMRAT NAG	
79	1KS15ME081	SHIVAKUMAR.H.L	
80	1KS15ME104	VINOD KUMAR.B	
81	1KS15ME108	YASHWANTH.P.S	
82	1KS15ME006	AKASH DOMAKUNTI	MOOG, ELECTRONIC CITY
83	1KS15ME067	ROHITH.K.C	
84	1KS15ME005	AJITH.G.BHAT	
85	1KS15ME007	AKASH GADADA.S	MSRAU, BENGALURU
86	1KS15ME016	BHARATH.U	

87	1KS15ME022	DEEPAK.V	
88	1KS15ME025	GAUTHAM.M.K	
89	1KS15ME030	JAYANTH.G.S	
90	1KS15ME033	KARTHIK YADAV.C	
91	1KS15ME037	KISHAN.M	
92	1KS15ME039	LIKHITH.M.R	
93	1KS15ME040	LOHITH.T.P	
94	1KS15ME043	MAYUR.L	
95	1KS15ME045	MOHAMMED HASEEBULLA	
96	1KS15ME047	RAHUL SRIVATHSA.N	
97	1KS15ME050	NITIN.M	
98	1KS15ME052	PARIKSHITH.A	
99	1KS15ME054	PRADEEP RAJ.R	
100	1KS15ME070	S.PRANAV RAJ	
101	1KS15ME099	U.V.PARIKHANSH	
102	1KS15ME038	KRISHNA.R.MOJAMDAR	NAL
103	1KS15ME002	ABHISHEK.G.HEGDE	NANDI TOYOTA
104	1KS15ME017	C.B.KARTHIK	
105	1KS15ME031	JAYATHEERTHA.S.RAO	
106	1KS15ME032	K.SANTRUPTH	NIDEC INDUSTRIES
107	1KS15ME076	SAI KIRAN MANKALA.R	
108	1KS15ME078	SANATH.S	
109	1KS15ME084	SHRI.S	
110	1KS15ME088	SUMAN.C	
111	1KS15ME095	T.R.SAI SHASHAUNK	
112	1KS15ME105	VISHNU TEJA.P	
113	1KS15ME106	VISHWAS.D	ROSSELL TECH SYSTEM
114	1KS15ME029	HRUSHIKESH VINAY SHASTRY.M.S	
115	1KS15ME056	PRARTHANA AMAR.K	SPECTRUM INDUSTRIES
116	1KS16ME440	DHANUSHREE.K	
117	1KS15ME049	NELAPATLA PARASARAN	SUPRAM INDUSTRIES
118	1KS14ME086	SHREYAS.R.A	TOYOTA KIRLOSKAR TEXTILE MACHINING
119	1KS14ME092	SUPRIT.S.KUMAR	
120	1KS16ME423	RAKSHITH GOWDA	VEERABHADRA ACCURATERS
121	1KS16ME416	PAVAN KUMAR.R	WINSTER, PEENYA

Few snap shots of students carrying out their internship and sample certificate copies issued to students on successful completion of internship is shown in figure 2.39 and 2.37 respectively



Fig.2.39: Students carrying out their Internships at Nandi Toyota



Rapsol Technologies Pvt. Ltd



Date: August 05, 2019

Certificate of Internship

This is to certify that Mr. GORGUNTALA PRASHANTH (USN: 1KS14ME030) has completed his internship at RAPSOL TECHNOLOGIES PRIVATE LIMITED from July 04, 2019 to August 03, 2019 and he has worked on Reverse Engineering Project of elevator equipments using UG NX CAD Tool under the guidance of Mr. Murali Krishna (CAD Engineer).

We have found him to be self-starter who is motivated, duty bound and Hard - working. He worked sincerely on his assignments and his performance was par Excellence.

We wish him best of luck for his future.

Thanks & Regards

Niranjan Balaji | Managing Director

Rapsol Technologies Private Limited

Mobile: +91 9738510751 | Landline: 080 40990889

E-mail: niranjan@rapsoltechnologies.com Web: www.rapsoltechnologies.com

For Rapsol Technologies Private Limited


DIRECTOR 5/8/19



(A Govt. of Karnataka Society)

ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ Govt. Tool Room & Training Centre

Sub-Centre

Sangama Road, KANAKAPURA - 562 117.

Ph: 080-27524561 E-mail: gttckanakapura@gmail.com



Date: 20-09-2019

Internship Letter

This is to certify that Mr. Vijay Kumar Naik T C (CMKY19160101009) has undergone internship training on CNC Milling Machine Programming and Operation from 08-07-2019 to 17-08-2019 at our organization.


H.S. Gowda
Principal
Govt. Tool Room & Training Centre
Sangama Road, Kanakapura

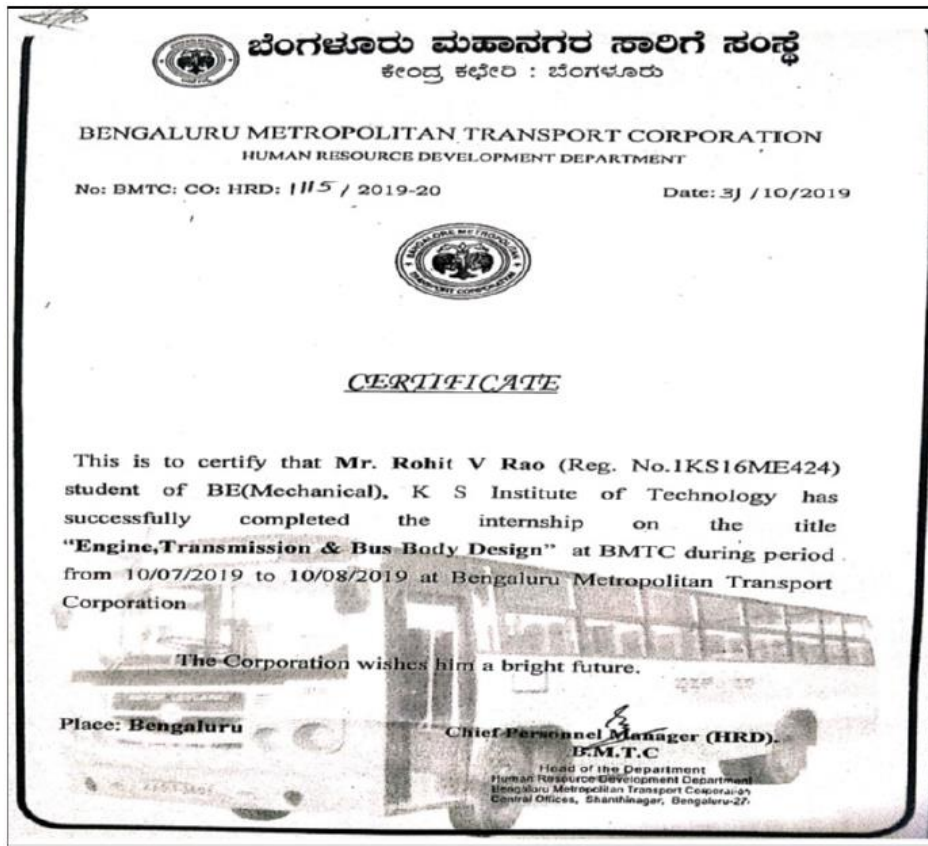


Fig. 2.40: Sample Certificate Copies issued to the Students on Successful Completion of Internship

C. STUDENTS FEEDBACK ON INTERNSHIP

Student's feedback is collected from the students & is used for impact analysis. Format for the feedback form is given below in table 2.31.

Table 2.31: Feedback FORMAT questions on InternshipsSl. No	Questions	Excellent	Very Good	Good	Satisfactory
1	Your experience during the internship?				
2	Were the academics related to the internship work?				
3	How was the encouragement provided to take initiative to work beyond the basic requirements of the job?				
4	How well was the supervisor prepared and versed with the work carried out?				
5	How was the supervision and the supervisors involvement in the work and clarifying of doubts?				
6	How well did you develop or improve your skills while interning in the company/institute?				
7	How would you rate the topics covered during the internship?				
8	How was your overall experience in the internship?				
9	Would you recommend this internship to another student?				

Student's feedback on Internship is shown in table 2.32 and Fig.2.38 shows the students feedback analysis on Internship.

Table 2.32: Students Feedback on Internship

Name	University seat number	Name of the Institute/company internship was carried out at	How was your experience during the internship?	How well was the academics related to the internship work?	How was the encouragement provided to take initiative to work beyond the basic requirements of the job?	How well was the supervisor prepared and versed with the work carried out?	How was the supervision and the supervisors involvement in the work and clarifying of doubts?	How well did you develop or improve your skills while interning in the company/institute?	How would you rate the topics covered during the internship?	How was your overall experience in the internship?	Would you recommend this internship to another student?
Shiva Shankar.B.M	1KS16ME082	KSCST	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
Pranav J Athrey	1KS16ME064	KSCST	Excellent	Fair	Excellent	Good	Excellent	Good	Good	Excellent	Yes
Jaydeep B	1ks16me031	Gttc	Fair	Good	Fair	Good	Good	Poor	Poor	Fair	No
HITESH C S	1ks16me026	K S INSTITUTE OF TECHNOLOGY	Fair	Fair	Fair	Fair	Fair	Fair	Poor	Fair	No
Sudarshan T	1KS16ME086	Government Tool Room and Training Center	Good	Good	Good	Good	Good	Good	Good	Good	Yes
Sirishgovardhan	1KS16ME083	GTRE DRDO	Excellent	Good	Excellent	Good	Excellent	Good	Good	Good	Yes
Chandan Kumar N P	1KS16ME014	RAPSOL TECHNOLOGIES PVT LTD	Good	Excellent	Excellent	Good	Excellent	Excellent	Good	Good	Yes
NITHIN N	1KS16ME053	NANDI TOYOTA	Good	Good	Good	Good	Good	Good	Fair	Good	Yes
Chirag B.P	1ks16me015	KSIT	Good	Excellent	Good	Excellent	Excellent	Excellent	Good	Good	Yes
RAKSHITH L	1KS17ME431	GT&TC	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
CHANNAPPA GOUDA PATIL	1ks14me115	GTTC Bangalore	Good	Good	Poor	Poor	Good	Good	Good	Good	Yes
GURUPRASAD T M.	1KS17ME409	K S INSTITUTE OF TECHNOLOGY	Good	Excellent	Good	Excellent	Excellent	Good	Good	Excellent	Yes
JeevanAbhishhek	1KS17ME411	Nandi toyota	Good	Good	Good	Good	Good	Good	Good	Good	No
Tejas	1ks17me441	CRR PREESTICE	Good	Good	Good	Good	Excellent	Good	Good	Good	Yes

GuhanBhasr	1KS17M E408	Nandi Toyota	Good	Good	Good	Good	Good	Good	Good	Good	Yes
Ravi kr	1KS17M E432	GT&TC	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
Ashwinmaiya m	1KS16M E010	Nandi toyota	Fair	Good	Poor	Fair	Fair	Poor	Fair	Fair	No
Anand L Hutagonnavar	1KS16M E403	NANDI TOYOTA	Excellent	Good	Good	Good	Good	Excellent	Good	Excellent	Yes
HARSHAVAR DHAN.N	1KS16M E022	Nandhi Toyota	Fair	Fair	Good	Good	Good	Poor	Poor	Poor	No
SHAIK MOINUDDIN	1KS16M E075	PEACH ENGINEERING PVT. LTD.	Good	Good	Good	Good	Good	Good	Good	Good	Yes
Sumesh R	1KS16M E089	IISC Bio-Fuel Cell	Excellent	Good	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Yes
VigneshPalani	1KS16M E054	Volvo construction equipment	Excellent	Excellent	Excellent	Excellent	Good	Good	Good	Excellent	Yes
Shashank YK	1ks17me 434	K.S.Institute of technology	Good	Good	Good	Good	Good	Good	Good	Good	Yes
Pratap. L	1KS17M E425	Omaxpvt limited	Good	Good	Good	Good	Good	Good	Good	Good	Yes
Deepak R Gowda	1ks16me 016	GTTC	Good	Good	Good	Good	Good	Good	Good	Good	Yes
Hemanth Kumar D L	1KS16M E025	Gttc	Fair	Good	Fair	Fair	Good	Good	Good	Fair	Yes
Nikhil gowda N S	1KS17M E423	Nandhi Toyota	Good	Good	Good	Good	Good	Good	Good	Good	Yes
HANAMANTA PPA	1KS16M E408	GT&TC Rajajinagar	Excellent	Excellent	Excellent	Good	Good	Good	Good	Excellent	Yes
MADAN S	1KS16M E040	RAPSOL TECHNOLOGY PVT LIMITED	Good	Fair	Good	Good	Good	Good	Good	Good	Yes
BhuvanBharadwaj VK	1ks16me 013	Nandi toyota	Fair	Fair	Fair	Good	Good	Fair	Good	Fair	No
Junaid khan	1KS16M E032	Toyota	Excellent	Good	Excellent	Excellent	Good	Good	Good	Excellent	Yes
Arun Kumar E	1KS17M E401	Shanti nagar workshop	Excellent	Good	Good	Good	Excellent	Good	Good	Excellent	Yes
Sowmya B	1KS16M E429	Gttc	Good	Fair	Fair	Good	Fair	Good	Good	Good	Yes
Chetan m kumar	1KS15M E018	NANDI TOYOTA	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
Abhishek Raj	1KS16M E007	Nandi toyota	Excellent	Good	Good	Excellent	Good	Excellent	Good	Good	Yes
Prajwalkrishna	1ks16me 060	IISC	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Excellent	Yes
Prakash	1ks16me 061	KSCST	Good	Good	Excellent	Good	Good	Good	Good	Good	Yes

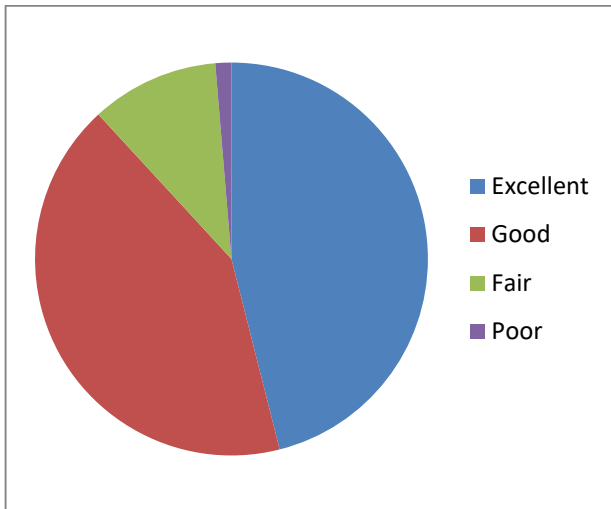
VITHAN T R	1KS16M E100	Nandi Toyota	Good	Good	Good	Good	Good	Good	Good	Good	Yes
SHIVARAJ NS	1KS16M E081	Nandi Toyota	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
Harshith S	1KS16M E023	SCANIA COMMERCIAL VEHICLES INDIA PVT LTD	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
mithum	1KS17M E419	C R R press work	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
Vinay. S	1KS17M E444	GTTC	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
Harish Hadimani	1KS16M E019	Nandi toyota	Good	Good	Good	Good	Good	Good	Good	Good	Yes
Vijaykumarnai k t c	1ks16me 096	GTTC KANAKAPURA	Excellent	Excellent	Good	Good	Good	Good	Good	Good	Yes
Vinay V P	1KS16M E098	K.S.Institute of technology ,banglore	Excellent	Excellent	Good	Good	Excellent	Good	Good	Excellent	Yes
venkatesh kashyap	1KS16M E038	Nandi Toyota	Poor	Fair	Fair	Fair	Fair	Fair	Fair	Fair	No
Sagar N	1KS16M E073	Karnataka state council for science and technology	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
Abhijeeth B Bhat	1KS16M E002	Ajax engineering pvt ltd	Excellent	Excellent	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Yes
Mohammed YasirRiaz	1KS16M E045	Bellatrix Aerospace Pvt Ltd	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Excellent	Excellent	Yes
srinivasa b v	1KS17M E437	KS INSTITUTE OF TECHNOLOGY	Good	Good	Excellent	Good	Excellent	Good	Excellent	Good	No
Madhu G K	1KS16M E102	GTTC	Good	Good	Fair	Excellent	Good	Good	Good	Good	Yes
Madhu G K	1KS16M E102	GTTC	Good	Good	Fair	Excellent	Good	Good	Good	Good	Yes
Bharathkumar p	1ks16me 011	BHEL	Good	Good	Good	Good	Good	Good	Good	Good	Yes
Pappukumarsingh	1ks16me 055	Toyota	Good	Good	Good	Good	Good	Good	Good	Good	Yes
Rakesh B R	1KS16M E105	Government tool and training centre	Excellent	Excellent	Good	Good	Good	Good	Excellent	Excellent	Yes
Shashikumar C R	1KS17M E435	GTTC	Excellent	Good	Good	Good	Good	Good	Good	Excellent	Yes
SUNILGOWD A S O	1KS16M E430	Rapsol technology	Excellent	Excellent	Good	Good	Good	Good	Good	Good	Yes

Pratheek	1KS17M E426	Ksit	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
AKSHAY ARAKERIMATH	1ks16me 401	CRR PRESS TECH	Excellent	Excellent	Excellent	Excellent	Good	Good	Excellent	Good	Yes
ASHOK KUMAR KARMALI	1KS16M E009	NANDI TOYOTA	Good	Good	Good	Good	Excellent	Good	Good	Good	Yes
mohan Kumar k	1ks17me 421	Nandhi Toyota	Good	Good	Excellent	Excellent	Good	Good	Good	Good	Yes
VINAY B V	1KS16M E097	VOLVO GROUP TRUCKS OPERATIONS	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
Abhilash S	1KS16M E004	GT & TC	Fair	Good	Fair	Fair	Good	Fair	Fair	Fair	No
Nageshts	1KS16M E049	Nandi toyota	Fair	Fair	Fair	Good	Fair	Fair	Fair	Poor	No
KIRAN PRAKASH AKOLKAR	1KS16M E036	Nandi Toyota	Good	Good	Good	Excellent	Good	Excellent	Good	Good	Yes
Sudharshan M D	1KS16M E087	Nandi vishwavidyalaya	Excellent	Good	Excellent	Excellent	Good	Excellent	Good	Good	Yes
Darshan H R	1KS17M E405	Shanti nagar bus depot workshop	Excellent	Good	Excellent	Good	Excellent	Good	Good	Good	Yes
Imran Khan	1KS16M E027	Nandi Toyota	Excellent	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
Rishi naik	1KS16M E070	GTTC	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Good	Good	Yes
Kantharaju k n	1ks17me 412	BMTC WORK SHOP	Good	Good	Fair	Good	Good	Good	Good	Good	Yes
MAHESH D	1KS17M E417	NANDI VISHWAVI DYALAYA	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
Sreekara K B	1KS16M E085	Nandi Toyota	Good	Fair	Good	Excellent	Excellent	Good	Fair	Good	Yes
Supreeth K R	1KS16M E090	Nandi Toyota	Good	Good	Good	Good	Good	Excellent	Good	Good	Yes
Hemanth R	1KS16M E024	Nandhi Toyota	Good	Fair	Good	Good	Good	Good	Fair	Good	No
N Ramakrishna	1KS15M E048	Nandi toyota	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Good	Yes
Chethan C R	1ks17me 404	Bmtc central devision. Shantinagar	Excellent	Excellent	Excellent	Excellent	Good	Good	Excellent	Excellent	Yes

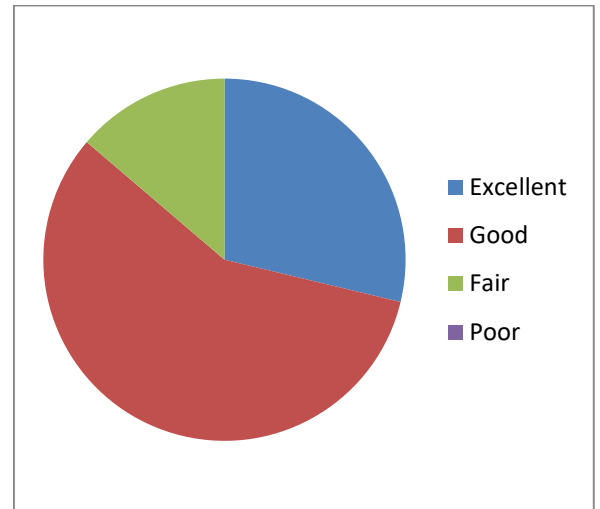
IRANNA CHANABASA PPA TELI	1KS16M E028	GOVT TOOL ROOM AND TRAINING CENTER	Good	Good	Good	Good	Good	Good	Fair	Good	No
Thriveni M	1KS17M E442	Govt tool room and training centre	Good	Good	Excellent	Good	Good	Good	Good	Good	Yes
Sushma Y S	1KS17M E440	Govt tool room and training centre	Good	Good	Good	Good	Good	Good	Good	Good	Yes
Pramod raj k	1KS16M E063	NANDI VISHWAVI DHIALAY A	Good	Good	Excellent	Excellent	Excellent	Excellent	Good	Good	Yes

INTERNSHIP FEEDBACK ANALYSIS

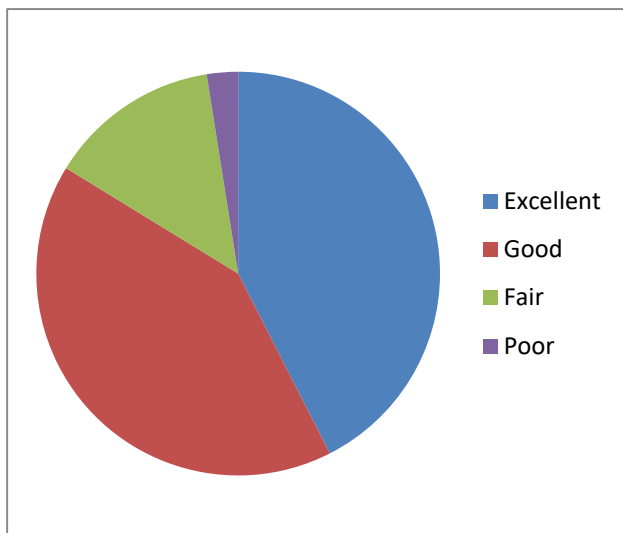
1: How was your experience during the internship?



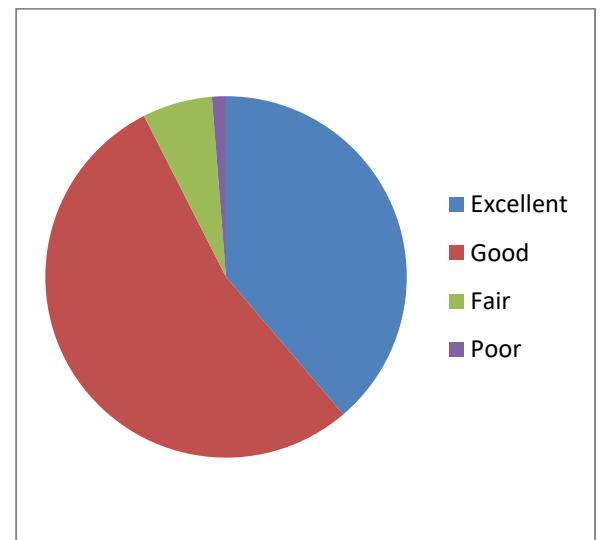
2: How well was the academics related to the internship work?



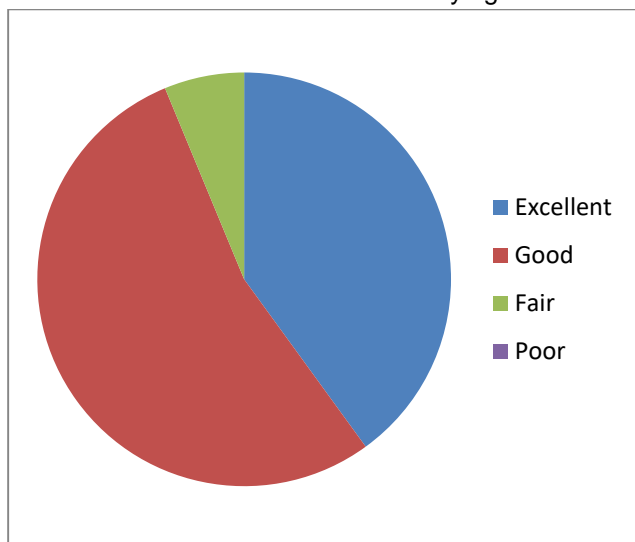
3: How was the encouragement provided to take initiative to work beyond the basic requirements of the job?



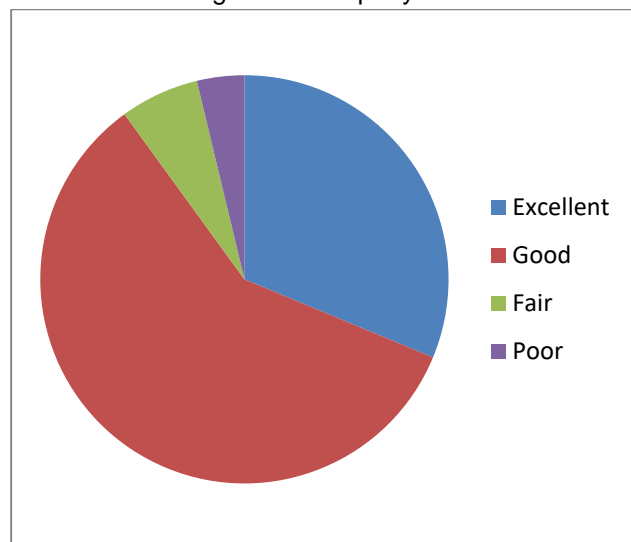
4: How well was the supervisor prepared and versed with the work carried out?



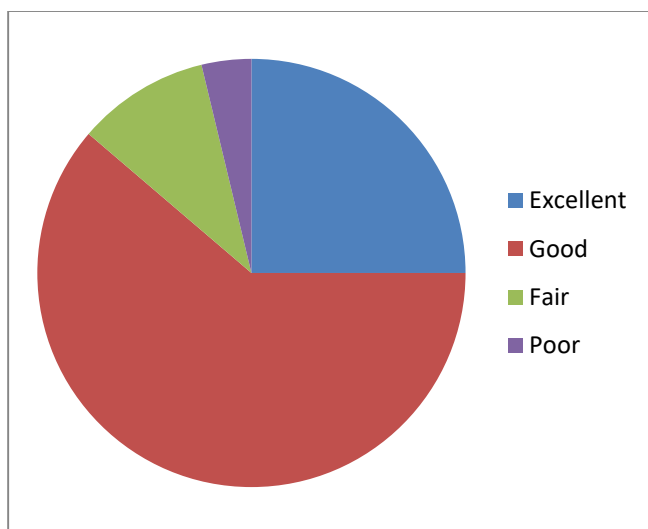
5: How was the supervision and the supervisors involvement in the work and clarifying of doubts?



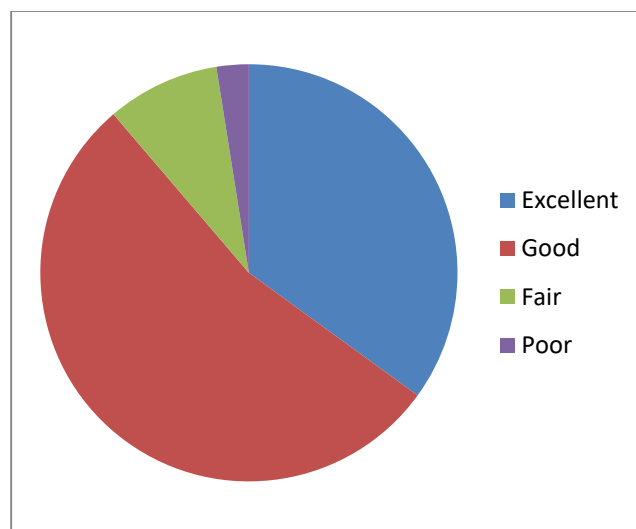
6:How well did you develop or improve your skills while interning in the company/institute?



7: How would you rate the topics covered during the internship?



8:How was your overall experience in the internship?



9: Would you recommend this internship to another student?

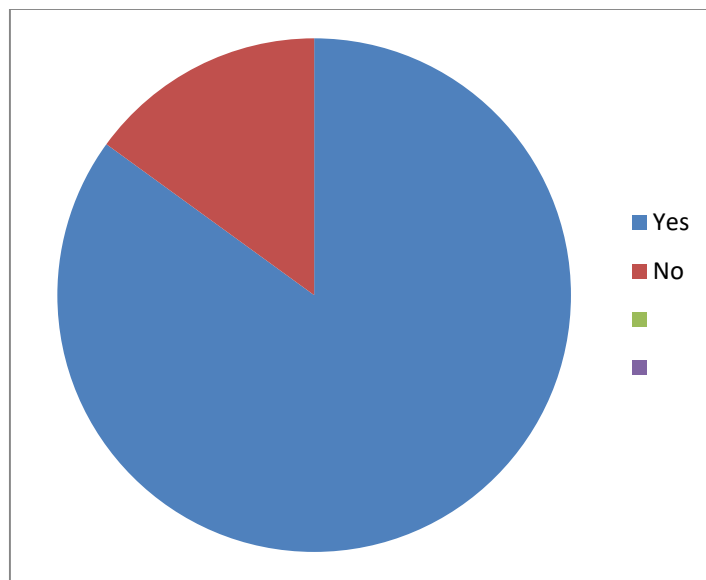


Fig. 2.41: Students Feedback Analysis on Internship

D. IMPACT ANALYSIS FOR THE ACADEMIC YEAR 2018-2019

The students have carried out internship in various reputed industries and submitted their report to Department. The evaluation about their involvement during internship was done in consent with the guide and internship coordinator. After evaluation, there was noticeable increase in attained values for certain PO's and remained same for other PO's as shown in Fig.2.42

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
PO attainment Before Undergoing Internship	2.47	1.92	1.56	1.54	1.96	1.37	1.46	1.54	1.71	1.92	1.74	1.69	2.15	1.74
PO attainment After Undergoing Internship	2.47	1.94	1.56	1.54	1.96	1.40	1.50	1.54	1.74	1.92	1.83	1.70	2.15	1.75

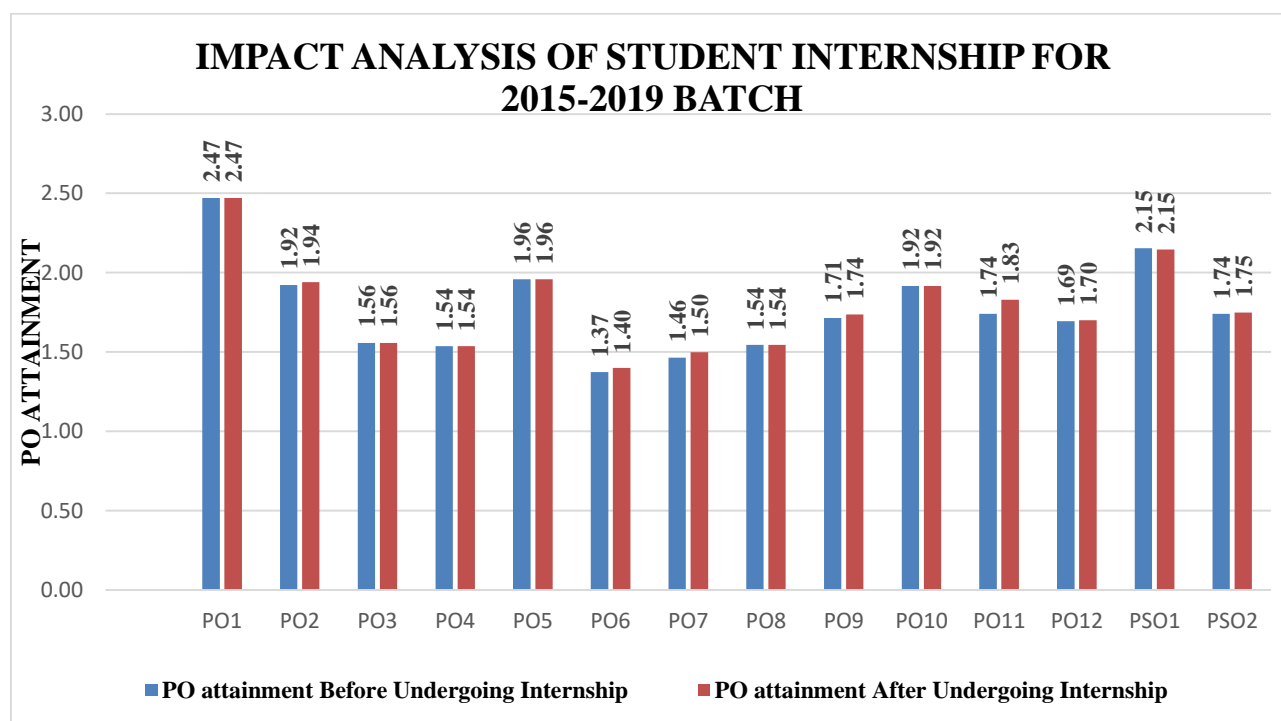


Fig 2.42 PO Attainment 2015-2019 Batch Before and After Undergoing Internship

CRITERIA 3	COURSE OUTCOMES AND PROGRAM OUTCOMES	120
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3. COURSE OUTCOMES AND PROGRAM OUTCOMES

3.1: ESTABLISH THE CORRELATION BETWEEN THE COURSES AND THE PROGRAM OUTCOMES (POS) AND PROGRAM SPECIFIC OUTCOMES (PSOS) (20)

Program Specific Outcomes (PSO's)

It is expected that a student in mechanical engineering will possess an:

PSO1: Ability to apply basic knowledge of mathematics, science and engineering to design a system, a component or a process to solve a real world problem.

PSO2: Ability to develop effective communication, team work, entrepreneurial and computational skills

3.1.1: COURSE OUTCOMES (05)

Course Outcomes (COs): Statements indicating what a student can do after the successful completion of a course. Every Course leads to some Course Outcomes. The CO statements are defined by considering the course content covered in each module of a course.

BATCH 2016-2020

Year of Study: 2017-2018

Table 3.1.1.1 Course outcomes of – **MATERIAL SCIENCE - C202**

At the end of the Course, the Student will be able to:

MATERIAL SCIENCE	
C202.1	Interpret the basic concepts of crystal structure, concepts of diffusion, mechanical behavior of materials and various modes of failure.
C202.2	Classify solid solutions; interpret equilibrium phase diagrams of ferrous and nonferrous alloys and mechanism of solidification.
C202.3	Relate suitable heat-treatment process to achieve desired properties of metals and alloys
C202.4	Interpret the properties and applications of various materials like ceramics, plastics and Smart materials.
C202.5	Identify various composite materials and their processing as well as applications.

Table 3.1.1.2 Course outcomes of – **Mechanical Measurements and Metrology Lab-C215**

At the end of the Course, the Student will be able to:

MECHANICAL MEASUREMENTS AND METROLOGY LAB	
C215.1	Explain calibration of pressure gauge, thermocouple, LVDT, load cell and micrometer
C215.2	Find angle using Sine Centre/ Sine Bar/ Bevel Protractor, alignment using Autocollimator/ Roller set.
C215.3	Obtain measurements using Optical Projector/Tool maker microscope, Optical flats.
C215.4	Determine cutting tool forces using Lathe/Drill tool dynamometer.
C215.5	Find Screw thread parameters using 2-Wire or 3-Wire method, gear tooth profile using gear tooth vernier/ Gear tooth micrometer.

Table 3.1.1.3 Course outcomes of – **MANAGEMENT & ENGINEERING ECONOMICS - C301**

At the end of the Course, the Student will be able to:

MANAGEMENT & ENGINEERING ECONOMICS	
C301.1	Explain the concepts of management and understand the importance of planning, organizing, staffing, directing and controlling in the development of organization.
C301.2	Understand comprehensive concepts of engineering and economics and identify the alternative uses of limited resources to select the preferred course of action for decision makers.
C301.3	Apply suitable organizational structure, motivation theories with sound communication tools.
C301.4	Solve compound interest factors, different economic models such as PWC, FWC, AEC & Rate of return in the process of decision making.
C301.5	Calculate the total cost of the products and depreciation of assets using different methods.

Table 3.1.1.4 Course outcomes of – **HEAT TRANSFER -C309**

At the end of the Course, the Student will be able to:

HEAT TRANSFER	
C309.1	Identify the three modes of heat transfer and construct conduction heat transfer equations for composite bodies make use of both sizing and rating methods
C309.2	Construct the fins to enhance heat transfer from a surface and solve for unsteady heat conduction rate
C309.3	Select the type of correlation to be used suitably so as to experiment with convection heat transfer coefficient for various applications
C309.4	Utilize the methods, to find the exit temperature of fluid and size of heat exchangers, also identify the effect of cavitation and fouling due to boiling and condensation of fluid
C309.5	Analyze two-dimensional heat conduction equations and examine the radiation heat transfer rate from black bodies, real surfaces and thermal shield.

Table 3.1.1.5 Course outcomes of – **ENERGY ENGINEERING- C401**

At the end of the Course, the Student will be able to:

ENERGY ENGINEERING	
C401.1	Summarize the basic concepts of Thermal energy systems, Diesel power plant, Hydel power plant, renewable energy sources and their utilization.
C401.2	Understand the basic concepts of solar energy, Green energy, zero energy and energy from alternate sources.
C401.3	Apply the basic concepts for Thermal and Hydel power plant.
C401.4	Make use of the basic concepts solar and wind energy to analyse it.
C401.5	Identify the concepts and applications of Bio mass energy, Green energy and zero energy.

Table 3.1.1.6 Course outcomes of – **ADDITIVE MANUFACTURING –C410**

At the end of the Course, the Student will be able to:

ADDITIVE MANUFACTURING	
C410.1	Understand the different processes of Additive Manufacturing
C410.2	Explain system drives and devices and actuators
C410.3	Explain the additive manufacturing process by polymerization and powder metallurgy
C410.4	Classify nonmaterial and its characterization techniques
C410.5	List various NC, CNC machine programming and automation techniques

3.1.2: CO-PO PSO Matrices of Courses Selected in 3.1.1

Course Outcomes are the statements that declare what students should be able to do at the end of a course. POs are defined by Accreditation Agencies of the country, which are the statements about the knowledge, skills and attitudes.

All the courses together will cover all the POs and PSOs. For a course the mapping of COs to POs through the CO-PO matrix and to PSOs through the CO-PSO matrix as shown below.

The various correlation levels are:

- “1” – Slight (Low) Correlation
- “2” – Moderate (Medium) Correlation
- “3” – Substantial (High) Correlation
- “-” indicates there is no correlation.

CO-PO Matrices of Courses Selected in 3.1.1

Batch: 2016-20

Year of Study: 2017-2018

Table 3.1.2.1 COs-POs matrices of **MATERIAL SCIENCE - C202**

MATERIAL SCIENCE												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202.1	3	2	2	-	2	1	-	2	-	-	-	1
C202.2	3	2	-	-	-	-	-	-	-	-	-	-
C202.3	3	2	2	-	-	-	-	-	-	-	-	-
C203.4	2	1	-	-	-	-	-	-	-	-	-	-
C202.5	2	1	-	-	-	-	-	-	1	-	-	-
AVERAGE	2.6	1.6	2	-	2	1	-	2	1	-	-	1

Table 3.1.2.2 COs-POs matrices of **Mechanical Measurements and Metrology Lab-C215**

MECHANICAL MEASUREMENTS AND METROLOGY LAB												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	2	1	-	-	-	-	-	2	3	1	-	-
C215.2	2	1	-	-	-	-	-	2	3	1	-	-
C215.3	3	1	-	-	-	-	-	2	3	1	-	-
C215.4	3	1	-	-	-	-	-	2	3	1	-	-
C215.5	2	1	-	-	-	-	-	2	3	1	-	-
AVERAGE	2.4	1	-	-	-	-	-	2	3	1	-	-

Year of Study: 2018-2019

Table 3.1.2.3 COs-POs matrices of **MANAGEMENT & ENGINEERING ECONOMICS – C301**

MANAGEMENT & ENGINEERING ECONOMICS												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	2	-	-	-	-	1	-	-	3	3	3	-
C301.2	3	-	-	1	-	1	-	-	3	3	2	-
C301.3	3	-	-	-	-	1	-	-	-	-	1	-
C301.4	3	-	-	1	-	1	-	-	-	-	-	-
C303.5	3	-	-	-	-	1	-	-	-	-	3	-
AVERAGE	2.8	-	-	1	-	1	-	-	3	3	2.25	-

Table 3.1.2.4 COs-POs matrices of HEAT TRANSFER –C309

HEAT TRANSFER												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C309.1	3	2	1	1	1	2	1	2	1	1	-	2
C309.2	3	2	1	1	1	2	1	2	1	1	-	2
C309.3	3	2	1	1	1	2	1	2	1	1	-	2
C309.4	3	2	1	1	1	2	1	2	1	1	-	2
C309.5	3	3	2	2	1	2	1	2	1	1	-	2
AVERAGE	3	3	2	2	1	2	1	2	1	2	-	2

Year of Study: 2019-2020**Table 3.1.2.5 COs-POs matrices of ENERGY ENGINEERING - C401**

ENERGY ENGINEERING												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	3	2	1	-	-	3	3	2	2	2	-	2
C401.2	3	2	1	-	-	3	3	2	2	2	-	2
C401.3	3	3	2	1	1	3	3	2	2	2	-	2
C401.4	3	3	2	1	1	3	3	2	2	2	-	2
C401.5	3	2	2	-	-	3	3	2	2	2	-	2
AVERAGE	3	2.4	1.6	1	1	3	3	2	2	2	-	2

Table 3.1.2.6 COs-POs matrices of ADDITIVE MANUFACTURING - C410

ADDITIVE MANUFACTURING												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C410.1	3	2	1	1	-	-	-	-	-	-	-	-
C410.2	3	2	1	2	-	-	-	-	-	-	-	-
C410.3	3	2	1	-	-	-	-	-	-	-	-	-
C410.4	3	2	1	-	-	-	-	-	-	-	-	-
C410.5	3	2	1	1.5	-	-	-	-	-	-	-	-
AVERAGE	3	2	1	1.5	-	-	-	-	-	-	-	-

CO-PSO Matrices of Courses Selected in 3.1.1

Batch: 2016-20

Year of Study: 2017-2018

Table 3.1.2.7 COs-PSOs matrices of **MATERIAL SCIENCE - C202**

CO	PSO1	PSO2
C202.1	2	1
C202.2	1	1
C202.3	2	1
C202.4	2	1
C202.5	2	2
AVERAGE	1.8	1.2

Table 3.1.2.8 COs-PSOs matrices of **MECHANICAL MEASUREMENTS & METROLOGY LAB - C215**

CO	PSO1	PSO2
C215.1	2	2
C215.2	3	2
C215.3	3	2
C215.4	2	2
C215.5	2	2
AVERAGE	2.4	2

Year of Study: 2018-2019

Table 3.1.2.9 COs-PSOs matrices of **MANAGEMENT & ENGINEERING ECONOMICS - C301**

CO	PSO1	PSO2
C301.1	1	3
C301.2	1	3
C301.3	2	3
C301.4	2	3
C301.5	1	3
AVERAGE	1.4	3

Table 3.1.2.10 COs-POs matrices of **HEAT TRANSFER–C309**

CO	PSO1	PSO2
C309.1	3	2
C309.2	3	2
C309.3	3	2
C309.4	3	2
C309.5	3	2
AVERAGE	3	2

Year of Study: 2019-2020**Table 3.1.2.11** COs-POs matrices of **ENERGY ENGINEERING- C401**

CO	PSO1	PSO2
C401.1	3	1
C401.2	3	2
C401.3	3	2
C401.4	3	2
C401.5	3	2
AVERAGE	3	1.8

Table 3.1.2.12 COs-POs matrices of **ADDITIVE MANUFACTURING- C410**

CO	PSO1	PSO2
C410.1	3	2
C410.2	3	2
C410.3	3	2
C410.4	3	2
C410.5	3	2
AVERAGE	3	2

3.1.3. Program Level CO-PO& PSO Matrix of all Courses Including First Year Courses

Table 3.1.3.1 Mapping of CO- PO Matrix of 2016-2020 Batch

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	3.00	2.00	1.33	–	–	–	–	–	–	–	–	–
C102	3.00	2.67	1.00	1.00	–	–	–	–	1.00	–	–	1.00
C103	3.00	3.00	2.00	1.80	1.00	1.00	–	–	1.00	1.00	–	1.00
C104	3.00	2.67	1.00	1.00	–	–	–	–	1.00	–	–	1.00
C105	2.80	2.00	–	–	–	1.00	–	–	–	–	–	–
C106	3.00	–	–	–	–	2.00	–	–	3.00	–	–	–
C107	3.00	1.80	2.00	1.00	1.00	–	–	–	1.20	1.00	–	1.00
C108	3.00	2.20	1.80	–	–	–	–	–	–	–	–	–
C109	3.00	2.00	1.00	1.00	–	–	–	–	–	–	–	–
C110	3.00	2.00	1.00	1.00	2.00	–	–	–	–	–	–	2.60
C111	3.00	2.00	1.00	1.00	–	1.00	1.00	–	–	–	–	1.00
C112	2.80	2.00	3.00	–	–	2.60	2.40	–	1.00	2.20	1.00	3.00
C113	3.00	2.00	2.00	1.00	3.00	–	–	–	–	–	–	2.00
C114	3.00	2.00	1.00	–	–	–	–	–	–	–	–	–
C201	3.00	3.00	–	2.00	–	–	–	–	–	–	–	3.00
C202	2.60	1.60	2.00	-	2.00	1.00	-	2.00	1.00	-	-	1.00
C203	3.00	2.00	1.00	-	-	1.00	-	1.00	-	-	-	1.00
C204	3.00	1.40	1.00	1.00	1.00	-	-	-	1.00	1.00	-	1.00
C205	2.40	1.40	1.00	1.00	-	1.00	1.00	-	1.00	1.00	-	1.00
C206	3.00	3.00	3.00	3.00	3.00	2.00	1.00	2.00	3.00	1.00	-	2.00
C207	3.00	2.00	-	1.00	-	-	-	-	3.00	1.00	-	-
C208	3.00	1.00	–	–	–	–	–	–	3.00	1.00	–	–
C209	3.00	3.00	-	2.00	-	-	-	-	-	-	-	3.00
C210	3.00	1.80	1.80	–	–	–	–	–	–	–	–	–
C211	3.00	2.00	2.00	1.80	–	1.00	1.00	–	–	–	–	1.00
C212	3.00	3.00	2.00	1.80	1.00	1.00	–	1.00	–	–	–	2.00

C213	2.60	1.40	1.00	1.00		1.00	1.00		1.00	1.00		1.40
C214	2.00	1.20	1.00			1.00	1.00		1.00	1.80		2.00
C215	2.40	1.00						2.00	3.00	1.00		
C216	3.00							1.00	2.60	2.00		
C301	2.80	-		1.00		1.00			3.00	3.00	2.25	-
C302	2.80	2.00	1.40									
C303	3.00	3.00	2.00	1.00	1.00	1.00						1.00
C304	3.00	3.00	2.00	-		1.00		2.00	-			
C305	2.80	3.00	-	-	-	-	-	1.00	2.00	-	-	1.00
C306	3.00	2.00	1.00	1.00		1.00	1.67		1.00			1.00
C307	3.00	3.00	2.00	1.00								1.00
C308	3.00	2.00	3.00	1.00	2.00	1.00	-	2.00	3.00	2.00	2.00	2.00
C309	3.00	3.00	2.00	2.00	1.00	2.00	1.00	2.00	1.00	2.00		2.00
C310	3.00	3.00	2.00	-	2.00			2.00				
C311	3.00	1.00										1.00
C312	3.00							1.00	1.00	3.00		
C313	3.00	3.00	2.00	2.00	1.00	2.00	1.00	2.00	1.00	2.00	-	2.00
C314	3.00	3.00	3.00	3.00	3.00	1.00	1.00	1.00	1.00	2.00	1.00	2.00
C401	3.00	2.40	1.60	1.00	1.00	3.00	3.00	2.00	2.00	2.00		2.00
C402	3.00	3.00	2.00	1.00	1.00							1.00
C403	1.80	2.00	1.00			-	-	-	-	-	-	1.00
C404	2.40	2.40	2.50	1.67	-	2.00	1.40					1.00
C405	3.00	2.00				-	-	-	1.00	1.00	-	-
C406	3.00	1.00	1.00	-	1.00	1.20	-	-	3.00	1.00	-	1.00
C407	2.80	1.80	-	-	3.00	-	-	1.00	1.00	3.00	-	-
C408	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	1.00	1.00
C409	3.00	2.50	2.00	2.00	2.00	1.00	2.00	-	1.00	1.00	2.00	1.60
C410	3.00	2.00	1.00	1.50								
C411	2.00	1.80	1.40	1.20	-	1.20	-	2.80	-	-	-	2.25

C412	3.00	1.25	1.00	2.00	1.80	1.00	1.00	2.00	1.00	3.00	1.00	2.00
C413	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	1.00	3.00	3.00	3.00
C414	3.00	1.25	1.00	2.00	1.80	1.00	1.00	2.00	1.00	3.00	1.00	2.00

Table 3.1.3.1 Mapping of CO- PSO Matrix2016-2020 Batch

COURSE CODE	PSO1	PSO2
C101	1.33	1.00
C102	1.33	1.00
C103	1.33	1.00
C104	1.33	1.00
C105	–	–
C106	-	-
C107	-	-
C108	1.33	1.00
C109	1.33	1.00
C110	1.20	–
C111	1.20	–
C112	1.40	–
C113	1.25	–
C114	1.25	–
C201	1.80	1.20
C202	2.00	1.00
C203	3.00	1.00
C204	3.00	2.40
C205	3.00	2.00
C206	2.00	2.00
C207	2.00	2.00
C208	1.80	1.20
C209	1.00	1.00
C210	2.60	1.40
C211	2.00	1.00
C212	3.00	1.20
C213	2.00	2.20
C214	1.60	1.20
C215	2.40	2.00
C216	2.00	2.00

C301	1.40	3.00
C302	3.00	1.40
C303	3.00	1.00
C304	3.00	1.60
C305	2.00	1.00
C306	2.00	1.00
C307	3.00	1.00
C308	3.00	2.00
C309	3.00	2.00
C310	3.00	1.00
C311	3.00	2.00
C312	3.00	1.80
C313	3.00	2.00
C314	3.00	3.00
C401	3.00	1.80
C402	3.00	1.60
C403	1.00	1.00
C404	3.00	1.40
C405	3.00	2.00
C406	1.00	2.00
C407	3.00	2.00
C408	3.00	2.20
C409	2.40	1.40
C410	3.00	2.00
C411	1.00	1.00
C412	3.00	2.20
C413	3.00	2.20
C414	3.00	2.20

3.2. ATTAINMENT OF COURSE OUTCOMES

3.2.1. Describe the Assessment Processes Used to Gather the Data upon which the Evaluation of Course Outcome is based (10)

A. LIST OF ASSESSMENT PROCESSES

Assessment Tools

- Direct Assessment
- Indirect Assessment

DIRECT ASSESSMENT

- Continuous Internal Evaluation - Theory
- Continuous Internal Evaluation – Lab.
- Internship Evaluation
- Technical Seminar Evaluation
- Project work

INDIRECT ASSESSMENT

- Course End Survey

B. THE QUALITY/RELEVANCE OF ASSESSMENT PROCESSES & TOOLS USED

B1. DIRECT ASSESSMENT

Continuous Internal Evaluation (CIE) - Theory

- After commencement of the course, the Department will conduct three CIE, scheduled in accordance with the university and institute calendar of events. The entire CIE schedule will be monitored by Head of the Department & Internal Assessment (IA) Coordinators.
- The Course Incharge will prepare the Question papers and Scheme of Evaluation for the respective course and will be submitted to IA coordinators.
- The question paper will be scrutinized by the Module Coordinator.
- Two Question papers (set A and set B) will be set for each Course. Among them, one will be randomly selected by the principal.
- The course Incharge will follow scheme and solutions set for CIE to evaluate the performance of students.

Continuous Internal Evaluation (CIE) - Lab

- Laboratory Course In-charge will follow rubrics set by the Department for the Evaluation of laboratory programs.
- Continuous Internal Evaluation for Laboratory is discussed more in criteria 2.2.3

Technical Seminar Evaluation

- The Department selects a senior faculty member as a Seminar coordinator who along with other faculty would assess the Technical seminar presentations by students. He/she would ensure that the students choose advanced concepts in Mechanical Engineering and allied research areas with a lot of relevance and applicability.
- One seminar per student in the VIII semester would be conducted as per the schedule mentioned prior in Time Table and Department Calendar of events.
- Seminar coordinators will follow rubrics, set by the department for the evaluation of seminar and the marks will be submitted to the Department
- Technical Seminar Evaluations discussed more in criteria 2.2.3

Project Work Evaluation:

- Project batches are formed as per the instruction given by project coordinators.
- Synopsis will be submitted to the project coordinators for scrutinizing. Project Batches are allotted to the internal guides based on the specialization and competency skills of the faculties and student's preferences are also considered.
- Each internal guide will continuously monitor their students on a weekly basis to observe the progress of the work.
- The project guide along with project coordinator conduct 3 project reviews as per the rubrics set by the Department.
- Finalized CIE Marks will be submitted to Head of the Department
- External Project Viva -Voce is conducted by the panel of examiners deputed by the University. Based on the viva voce the marks are awarded to the students and submitted to university.
- The Department& Project Guides will encourage students to participate in technical Expo and publish their work in standard conference/journal forums.
- Project Work Evaluation is discussed more in criteria 2.2.3

Table 3.1 Direct Assessment Tools

Sl. No.	Components	Sub-Components	Weightage (%)	Total Weightage (%)
A1	Theory	a. Three CIE	50	90
		b. SEE	50	
A2	Laboratory	a. Continuous Evaluation through observation book, record book and Viva - Voce b. OneCIE	50	90

		c. SEE	50	
A3	Project Work	a. Internal evaluation of project work	50	100
		b. External evaluation of project work	50	
A4	Technical Seminar	a. Internal evaluation	100	100

B2. INDIRECT ASSESSMENT

Course End Survey: Course End Surveys are used to evaluate the attainment of COs at the end of each semester in an academic year and it is taken from the students for each Course on the basis of questionnaires related to Course Outcome of individual Course.

Table 3.2 Indirect Assessment

Sl. No.	Components	Sub Component	Weightage (%)
A1	Theory	Course End Survey	10
A2	Laboratory	Course End Survey	10

Table 3.3 CO Attainment Calculation

Sl.no	Final CO attainment calculation
1	The attainment level in the CIE for each CO and University attainment level are entered. 50% of CIE attainment level is considered as [N1] for every CO & 50% of university attainment level is considered as [N2].
2	The attainment is calculated as [N1 + N2] for every CO. 90% of this will be calculated as [N3].
3	10% of Course end survey attainment level is obtained as [N4].
4	The direct attainment of the course is given by [N3 + N4] for every CO.

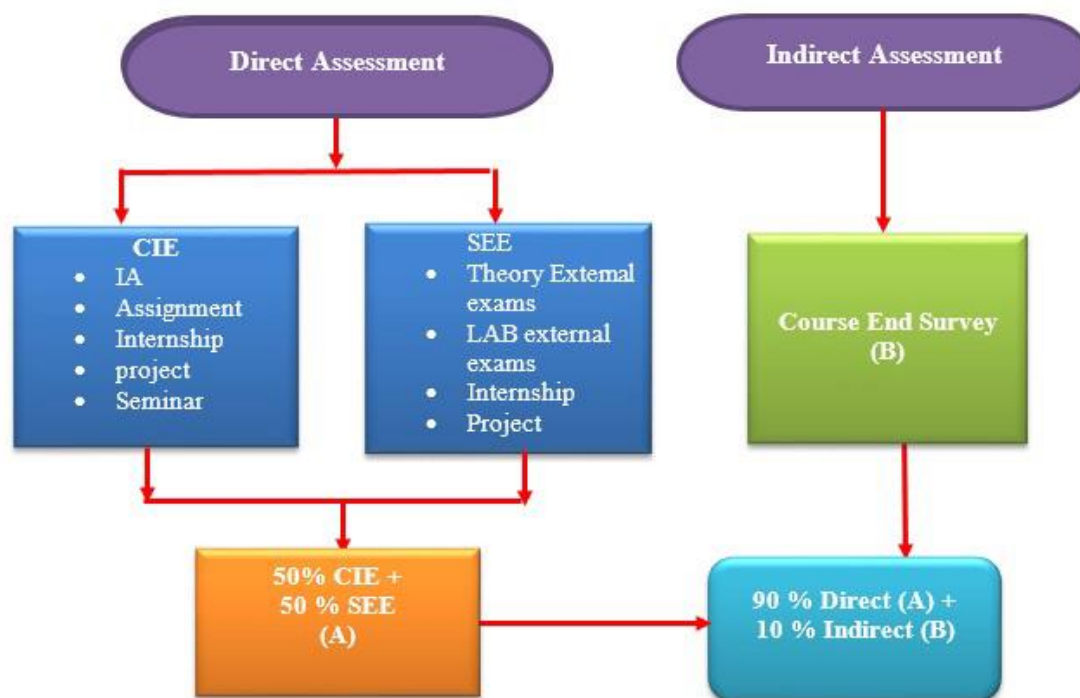


Fig 3.1 Process followed for calculation of Course outcomes:

A1) Theory course

a) Continuous Internal Evaluation (CIE):

Steps	Process for calculating attainment through Continuous Internal Evaluation
1	The marks scored by the students in test, are categorized based on CO's.
2	The marks scored and the maximum applicable score for the each CO for every student is calculated.
3	The percentage of attainment is calculated as [= marks scored / max applicable score].
4	The steps 2 and 3 are calculated for every CO and for every student.
5	The total number of students appearing for the COs and the no. of students scoring $\geq 60\%$ marks is identified. Percentage is calculated as: [No. of students scoring $\geq 60\%$ marks/ Total no. of students appearing for that particular CO]
6	Attainment levels are defined at the department level as: Level 3 – 60% students should have scored $\geq 60\%$ [In CIE] Level 2 – 55% students should have scored $\geq 60\%$ [In CIE] Level 1 – 50% students should have scored $\geq 60\%$ [In CIE]
7	Based on the percentage obtained in step 5, the attainment level for each of the CO is identified.

a) Semester End Exam(SEE):

Steps	Process for calculating attainment through University exam
1	Set target of 60% for SEE is obtained from the university exam for each courses.
2	The university exam marks obtained by the student for every Course is considered and the no. of students scoring greater than the set target [60%] is calculated [N1]. The total no. of students appearing for the course is identified as [N]. The percentage of students scoring greater than the set target is computed as $N1/N * 100$
3	Attainment levels are defined at the department level as: Level 3 – 60% students should have scored $\geq X$ Level 2 – 55% students should have scored $\geq X$ Level 1 – 50% students should have scored $\geq X$
4	Based on the percentage computed in step 2 the attainment level is fixed.

b) Course End Survey

Steps	Process for calculating attainment through Course End survey
1	Course End survey (CES) is taken at the end of the semester for all courses.
2	The department attainment levels defined for CES are: Level 3 – 60% students should have rated Good and above Level 2 – 55% students should have rated Good and above Level 1 – 50% students should have rated Good and above
3	The CES is tabulated and no. of students giving a rating as Good and above is identified [N1]. The total students participating in the survey is identified [N]. The percentage is calculated as $[N1 / N * 100]$
4	Based on the percentage obtained in step 3 the attainment level is obtained

Final CO attainment calculation:

Steps	Final CO attainment calculation for Theory
1	Attainment level in CIE& SEE for each CO are entered. 50% of CIE attainment level is considered as [N1] for every CO and 50% of SEE attainment level is considered as [N2].
2	The attainment is calculated as $[N1 + N2]$ for every CO. 90% of this will be calculated as [N3].
3	10% of Course End Survey attainment level is obtained as [N4].
4	The direct attainment of the course is given by $[N3 + N4]$ for every CO.

3.2.2. RECORD THE ATTAINMENT OF COURSE OUTCOMES OF ALL COURSES WITH RESPECT TO SET ATTAINMENT LEVELS

The attainment values for all courses from first semester to final semester are shown in table 3.8.

Table 3.8: Attainment values for all courses

S L N o	SEMESTER	COUR SE CODE	COURSE	CODE	CO 1	CO 2	CO 3	CO 4	CO 5
1	I	C101	ENGINEERING MATHEMATICS I	15MAT11	3.00	3.00	3.00	3.00	3.00
2		C102	ENGINEERING PHYSICS	15PHY12	3.00	3.00	3.00	3.00	3.00
3		C103	ELEMENTS OF CIVIL ENGINEERING AND ENGINEERING MECHANICS	15CIV13	3.00	3.00	3.00	2.10	2.10
4		C104	ELEMENTS OF MECHANICAL ENGINEERING	15EME14	3.00	3.00	3.00	3.00	3.00
5		C105	BASIC ELECTRONICS	15ELE15	2.10	2.10	1.20	0.30	0.30
6		C106	WORK SHOP LAB	15WSL16	3.00	3.00	3.00	3.00	3.00
7		C107	PHYSICS LAB	15PHYL17	3.00	3.00	3.00	3.00	3.00
8	II	C108	ENGINEERING MATHEMATICS II	15MAT21	3.00	3.00	3.00	1.20	1.20
9		C109	ENGINEERING CHEMISTRY	15CHE22	3.00	3.00	3.00	3.00	3.00
10		C110	PROGRAMMING IN C LANGUAGE	15PCD23	3.00	3.00	3.00	3.00	3.00
11		C111	COMPUTER AIDED ENGINEERING DRAWING	15CED24	3.00	3.00	3.00	3.00	3.00
12		C112	BASIC ELECTRONICS	15ELN25	3.00	3.00	3.00	2.10	2.10
13		C113	COMPUTER PROGRAMMING LAB	15CPL26	3.00	3.00	3.00	3.00	3.00
14		C114	CHEMISTRY LAB	15CHEL27	3.00	3.00	3.00	3.00	3.00
15	III	C201	ENGINEERING MATHEMATICS III	15MAT31	1.20	1.20	1.20	0.30	0.30
16		C202	MATERIAL SCIENCE	15ME32	1.20	0.30	0.30	0.30	0.30
17		C203	BASIC THERMO DYNAMICS	15ME33	0.30	0.30	0.30	0.30	0.30
18		C204	MECHANICS OF MATERIALS	15ME34	0.30	0.30	0.30	0.30	0.30
19		C205	MACHINE TOOLS AND OPERATION	15ME35B	3.00	3.00	2.10	1.20	1.20
20		C206	COMPUTER AIDED MACHIN DRAWING	15ME36A	3.00	3.00	3.00	3.00	3.00
21		C207	MATERIAL TESTING LAB	15MEL37A	3.00	3.00	3.00	3.00	3.00
22	IV	C208	FOUNDRY AND FORGING LAB	15MEL38B	3.00	3.00	3.00	3.00	3.00
23		C209	ENGINEERING MATHEMATICS IV	15MAT41	2.10	1.20	2.10	0.30	0.30
24		C210	KNEMATICS OF MACHINES	15ME42	0.30	0.30	0.30	0.30	0.30
25		C211	APPLIED THERMODYNAMICS	15ME43	0.30	0.30	0.30	0.30	0.30
26		C212	FLUID MECHANICS	15ME44	0.30	1.20	0.30	0.30	0.30
27		C213	METAL CASTING AND WELDING	15ME45B	3.00	3.00	3.00	0.30	0.30
28		C214	MECHANICAL MEASUREMENT & METROLOGY	15ME46B	0.30	0.30	0.30	0.30	0.30

29		C215	MECHANICAL MEASUREMENT & METROLOGY LAB	15MEL47	3.00	3.00	3.00	3.00	3.00
30		C216	MACHINE SHOP LAB	15MEL48	3.00	3.00	3.00	3.00	3.00
31	V	C301	MANAGEMENT & ENGINEERING ECONOMICS	15ME51	3.00	3.00	3.00	1.20	0.30
32		C302	DYNAMICS OF MACHINERY	15ME52	3.00	2.10	3.00	2.10	2.10
33		C303	TURBOMACHINES	15ME53	0.30	0.30	0.30	0.30	0.30
34		C304	DESIGN OF MACHINE ELEMENTS I	15ME54	0.30	0.30	0.30	0.30	0.30
35		C305	FLUID MECHANICS LAB	15MEL57	3.00	3.00	3.00	3.00	3.00
36		C306	ENERGY CONVERSION LAB	15MEL58	3.00	3.00	3.00	3.00	3.00
37		C307	FINITE ELEMENT ANALYSIS	15ME61	0.30	0.30	1.20	0.30	0.30
38	VI	C308	COMPUTER INTEGRATED MAUFACTURING	15ME62	3.00	3.00	3.00	3.00	3.00
39		C309	HEAT TRANSFER	15ME63	0.30	0.30	0.30	0.30	0.30
40		C310	DESIGN OF MACHINE ELEMENTS II	15ME64	0.30	0.30	0.30	0.30	0.30
41		C311	METAL FORMING	15ME653	1.20	1.20	2.10	1.20	1.20
42		C312	TOTAL QUALITY MANAGEMENT	15ME664	3.00	3.00	3.00	3.00	3.00
43		C313	HEAT TRANSFER LAB	15MEL67	3.00	3.00	3.00	3.00	3.00
44		C314	MODELING AND ANALYSIS LAB	15MEL68	3.00	3.00	3.00	3.00	3.00
45	VII	C401	ENERGY ENVIRONMENT	15ME71	3.00	3.00	3.00	3.00	3.00
46		C402	FLUID POWER SYSTEM	15ME72	0.30	0.30	0.30	0.30	0.30
47		C403	CONTROL ENGINEERING	15ME73	1.20	0.30	1.20	1.20	1.20
48		C404	TRIBOLOGY	15ME742	3.00	3.00	3.00	3.00	3.00
49		C405	MECHATRONICS	15ME753	3.00	3.00	3.00	3.00	3.00
50		C406	DESIGN LAB	15MEL76	3.00	3.00	3.00	3.00	3.00
51		C407	COMPUTER INTEGRATED MANUFACTURING LAB	15MEL77	3.00	3.00	3.00	3.00	3.00
52		C408	PROJECT	15MEL78	3.00	3.00	3.00	3.00	3.00
53	VIII	C409	OPERATION RESERCH	15ME81	3.00	3.00	3.00	3.00	3.00
54		C410	ADDITTIVE MANUFACTURING	15ME82	3.00	3.00	3.00	3.00	3.00
55		C411	PRODUCT LIFE CYCLE MANAGEMENT	15ME835	3.00	3.00	3.00	3.00	3.00
56		C412	INTERNSHIP	15ME84	3.00	3.00	3.00	3.00	3.00
57		C413	PROJECT	15ME85	3.00	3.00	3.00	3.00	3.00
58		C414	SEMINAR	15MES86	3.00	3.00	3.00	3.00	3.00

3.3 ATTAINMENT OF PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES (50)

3.3.1 Describe Assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes

A. LIST OF ASSESSMENT TOOLS & PROCESSES

The process used to gather the data for evaluation of program outcome is obtained from Direct Assessment and Indirect Assessment.

Direct Assessment-

The assessment tools are:

- Continuous Internal Assessment
- Assignments/Quiz/Subject Seminar.
- Seminars.
- Project Assessment.
- Continuous Laboratory Assessment.
- Semester End Examinations (SEE).

B. THE QUALITY/RELEVANCE OF ASSESSMENT TOOLS/PROCESSES USED

B1. DIRECT ASSESSMENT

The tools used for direct assessment is shown in table 3.3.1.

Table 3.3.1: Details about Direct Assessment Tools used

Direct Assessment Tools	Frequency	Assessment Process	Responsibility
Continuous Internal Assessment	3 Per Semester	CIE is conducted & evaluated by the concerned Course Incharge and Marks are uploaded to the University Web Portal.	Department
Assignments /Group Assignments/Subject Seminars	Min 3 per semester	Assignments are given& evaluated by Course Incharge and Marks will be added with CIE Marks of University.	Department

Continuous Laboratory Assessment	Every Lab	Laboratory Course Experiments, observation, Record & viva will be assessed by Course Incharge.	Department
Lab CIE	1 Per Semester	At the end of the Semester, Lab CIE will be conducted & evaluated by Course Incharge.	Department
Technical Seminars	8 th semester	Technical Seminars are assessed& evaluated by Seminar Coordinator, Guide and Committee.	Department
Project Assessment	Final Year (7 th & 8 th Semester)	Project work is assessed& evaluated by Project Coordinator, Guide & Committee	Department
Semester End Laboratory Examination	1 Per Semester	SEE of Laboratory course is conducted and evaluated by Internal and External Examiners allotted by the University	University
Semester End Examination	1 Per Semester	Semester End Examination is conducted and evaluated by University	University

B2. INDIRECT ASSESSMENT

Program Exit Survey

The program exit survey identifies learning outcomes related to graduate education and asks graduates to indicate the level of preparation provided by their graduate program. This type of survey can also point to areas in which the institution should invest more or less resources to enhance a student's learning and development experience.

Alumni Surveys

The Alumni Survey is designed to give graduates an opportunity to reflect upon their years after graduation. This information is used to improve the college experience for future students by identifying strengths in our programs as well as areas that need further development. The survey includes issues relating to satisfaction regarding academic programs, intellectual and personal

growth, student services, and preparation for a career.

Employer Surveys

Employer survey is indicative of the graduates' overall expertise in mechanical engineering, his/her communication skills, personal attributes and interpersonal skills. They help to define the type, level and composition of skills that individuals need to perform the work demanded by enterprises.

The tools used for direct assessment is shown in table 3.3.1.

Table 3.3.2: Details about Indirect Assessment Tools used

Indirect Assessment Tools	Frequency	Assessment Process	Responsibility
Program Exit Survey	End of the Program	Based on questionnaires similar to Course End Survey	Department
Alumni Surveys	After graduation	Based on questionnaires similar to Course End Survey	Department
Employer Surveys	After graduation	Based on questionnaires similar to Course End Survey	Department

PO/PSO attainment calculation method is shown in fig 3.2

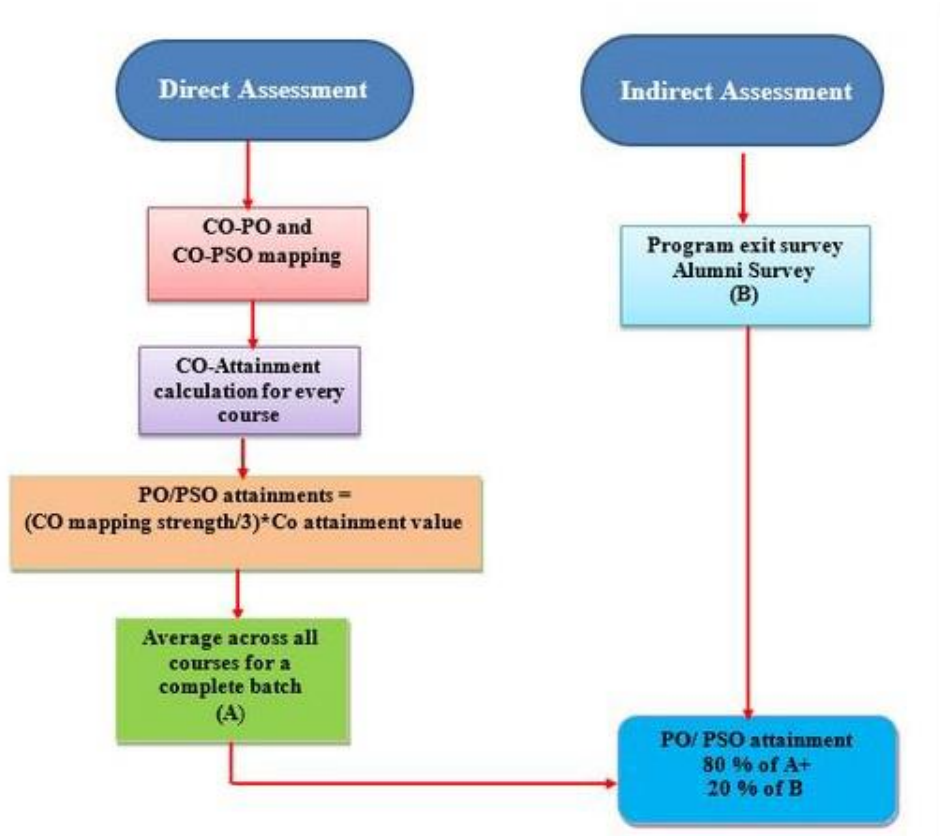


Fig 3.2. PO/PSO attainment calculation method

3.3.2. PROVIDE RESULTS OF EVALUATION OF EACH PO & PSO (40)

PO ATTAINMENT – Batch 2016-2020

SL No	CODE	COURSE TITLE	COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	C101	ENGINEERING MATHEMATICS I	15MAT11	3.00	2.00	1.33	–	–	–	–	–	–	–	–	–
2	C102	ENGINEERING PHYSICS	15PHY12	3.00	2.67	1.00	1.00	–	–	–	–	1.00	–	–	1.00
3	C103	ELEMENTS OF CIVIL ENGINEERING AND ENGINEERING MECHANICS	15CIV13	2.64	2.64	1.76	1.62	0.88	0.90	–	–	1.00	0.88	–	0.88
4	C104	ELEMENTS OF MECHANICAL ENGINEERING	15EME14	3.00	2.67	1.00	1.00	–	–	–	–	1.00	–	–	1.00
5	C105	BASIC ELECTRONICS	15ELE15	1.18	0.80	–	–	–	0.40	–	–	–	–	–	–
6	C106	WORK SHOP LAB	15WSL16	3.00	–	–	–	–	2.00	–	–	3.00	–	–	–
7	C107	PHYSICS LAB	15PHYL17	3.00	1.80	2.00	1.00	1.00	–	–	–	1.20	1.00	–	1.00
8	C108	ENGINEERING MATHEMATICS II	15MAT21	3.00	2.00	1.00	1.00	–	–	–	–	–	–	–	–
9	C109	ENGINEERING CHEMISTRY	15CHE22	3.00	2.00	1.00	1.00	–	–	–	–	–	–	–	–
10	C110	PROGRAMMING IN C LANGUAGE	15PCD23	3.00	2.00	1.00	1.00	2.00	–	–	–	–	–	–	2.60
11	C111	COMPUTER AIDED ENGINEERING DRAWING	15CED24	3.00	2.00	1.00	1.00	–	1.00	1.00	–	–	–	–	1.00
12	C112	BASIC ELECTRONICS	15ELN25	2.50	1.76	2.64	–	–	2.24	2.04	–	0.88	1.90	0.93	2.64

13	C113	COMPUTER PROGRAMMING LAB	15CPL26	3.00	2.00	2.00	1.00	3.00	–	–	–	–	–	–	1.87
14	C114	CHEMISTRY LAB	15CHEL27	3.00	2.00	1.00	–	–	–	–	–	–	–	–	–
15	C201	ENGINEERING MATHEMATICS III	15MAT31	0.84	0.84	–	0.56	–	–	–	–	–	–	–	0.84
16	C202	MATERIAL SCIENCE	15ME32	0.44	0.28	0.50	–	0.80	0.40	–	0.80	0.10	–	–	0.40
17	C203	BASIC THERMO DYNAMICS	15ME33	0.30	0.20	0.10	0.10	–	0.10	0.10	0.10	–	–	–	0.10
18	C204	MECHANICS OF MATERIALS	15ME34	0.30	0.14	0.10	0.10	0.10	–	–	–	0.10	0.10	–	0.10
19	C205	MACHINE TOOLS AND OPERATION	15ME35B	1.56	0.86	0.70	0.70	–	0.00	0.00	–	0.70	0.70	–	0.70
20	C206	COMPUTER AIDED MACHIN DRAWING	15ME36A	3.00	3.00	3.00	3.00	3.00	2.00	1.00	2.00	3.00	1.00	–	2.00
21	C207	MATERIAL TESTING LAB	15MEL37A	3.00	2.00	–	1.00	–	–	–	–	3.00	1.00	–	–
22	C208	FOUNDRY AND FORGING LAB	15MEL38B	3.00	1.00	–	–	–	–	–	–	3.00	1.00	–	–
23	C209	ENGINEERING MATHEMATICS IV	15MAT41	1.20	1.20	–	0.80	–	–	–	–	–	–	–	1.20
24	C210	KNEMATICS OF MACHINES	15ME42	0.30	0.18	0.18	–	–	–	–	–	–	–	–	–
25	C211	APPLIED THERMODYNAMICS	15ME43	0.30	0.20	0.20	0.18	–	0.10	0.10	–	–	–	–	0.10
26	C212	FLUID MECHANICS	15ME44	0.48	0.48	0.32	0.30	0.17	0.16	–	0.14	–	–	–	0.32
27	C213	METAL CASTING AND WELDING	15ME45B	1.52	0.68	0.64	0.64	–	0.10	0.70	–	0.64	0.64	–	1.04

28	C214	MECHANICAL MEASUREMENT & METROLOGY	15ME46B	0.20	0.12	0.10	–	–	0.10	0.10	–	0.10	0.18	–	0.20
29	C215	MECHANICAL MEASUREMENT & METROLOGY LAB	15MEL47	2.40	1.00	–	–	–	–	–	2.00	3.00	1.00	–	–
30	C216	MACHINE SHOP LAB	15MEL48	3.00	–	–	–	–	–	–	1.00	2.60	2.00	–	–
31	C301	MANAGEMENT & ENGINEERING ECONOMICS	15ME51	1.90	–	–	0.70	–	0.70	–	–	3.00	3.00	1.58	–
32	C302	DYNAMICS OF MACHINERY	15ME52	2.26	1.64	1.16	–	–	–	–	–	–	–	–	–
33	C303	TURBOMACHINES	15ME53	0.30	0.30	0.20	0.10	0.10	0.10	–	–	–	–	–	0.10
34	C304	DESIGN OF MACHINE ELEMENTS I	15ME54	0.30	0.30	0.20	–	–	0.10	–	0.20	–	–	–	–
35	C305	FLUID MECHANICS LAB	15MEL57	2.80	3.00	–	–	–	–	–	1.00	2.00	–	–	1.00
36	C306	ENERGY CONVERSION LAB	15MEL58	3.00	2.00	1.00	1.00	–	1.00	1.67	–	1.00	–	–	1.00
37	C307	FINITE ELEMENT ANALYSIS	15ME61	0.48	0.48	0.32	0.16	–	–	–	–	–	–	–	0.16
38	C308	COMPUTER INTEGRATED MAUFACTURING	15ME62	3.00	2.00	3.00	1.00	2.00	1.00	–	2.00	3.00	2.00	2.00	2.00
39	C309	HEAT TRANSFER	15ME63	0.30	0.30	0.20	0.20	0.10	0.20	0.10	0.20	0.10	0.20	–	0.20
40	C310	DESIGN OF MACHINE ELEMENTS II	15ME64	0.30	0.30	0.20	–	0.20	–	–	0.20	–	–	–	–
41	C311	METAL FORMING	15ME653	1.38	0.46	–	–	–	–	–	–	–	–	–	0.46
42	C312	TOTAL QUALITY MANAGEMENT	15ME664	3.00	–	–	–	–	–	–	1.00	1.00	3.00	–	–

43	C313	HEAT TRANSFER LAB	15MEL67	3.00	3.00	2.00	2.00	1.00	2.00	1.00	2.00	1.00	2.00	—	2.00
44	C314	MODELING AND ANALYSIS LAB	15MEL68	3.00	3.00	3.00	3.00	3.00	1.00	1.00	1.00	1.00	2.00	1.00	2.00
45	C401	ENERGY ENVIRONMENT	15ME71	3.00	2.40	1.60	1.00	1.00	3.00	3.00	2.00	2.00	2.00	—	2.00
46	C402	FLUID POWER SYSTEM	15ME72	0.30	0.30	0.20	0.10	0.10	—	—	—	—	—	—	0.10
47	C403	CONTROL ENGINEERING	15ME73	0.60	0.65	0.33	—	—	—	—	—	—	—	—	0.40
48	C404	TRIBOLOGY	15ME742	2.40	2.40	2.50	1.67	—	2.00	1.40	—	—	—	—	1.00
49	C405	MECHATRONICS	15ME753	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	1.00	2.00
50	C406	DESIGN LAB	15MEL76	3.00	1.00	1.00	—	1.00	1.20	—	—	3.00	1.00	—	1.00
51	C407	COMPUTER INTEGRATED MANUFACTURING LAB	15MEL77	2.80	1.80	—	—	3.00	—	—	1.00	1.00	3.00	—	—
52	C408	PROJECT	15MEL78	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	1.00	1.00
53	C409	OPERATION RESERCH	15ME81	3.00	2.50	2.00	2.00	2.00	1.00	2.00	—	1.00	1.00	2.00	1.60
54	C410	ADDITTIVE MANUFACTURING	15ME82	3.00	2.00	1.00	1.50	—	—	—	—	—	—	—	—
55	C411	PRODUCT LIFE CYCLE MANAGEMENT	15ME835	2.00	1.80	1.40	1.20	—	1.20	—	2.80	—	—	—	2.25
56	C412	INTERNSHIP	15ME84	3.00	1.25	1.00	2.00	1.80	1.00	1.00	2.00	1.00	3.00	1.00	2.00
57	C413	PROJECT	15ME85	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	1.00	3.00	3.00	3.00

58	C414	SEMINAR	15MES86	3.00	1.25	1.00	2.00	1.80	1.00	1.00	2.00	1.00	3.00	1.00	2.00
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PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PO ATTAINMENT	2.27	1.81	1.58	1.56	1.83	1.50	1.65	1.78	1.87	1.95	1.76	1.53
DIRECT ATTAINMENT	2.09	1.51	1.22	1.20	1.54	1.13	1.31	1.47	1.59	1.69	1.45	1.16
INDIRECT ATTAINMENT	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

PSO ATTAINMENT - Batch 2016-2020

SL No	CODE	COURSE TITLE	COURSE CODE	PSO1	PSO2
1	C101	ENGINEERING MATHEMATICS I	15MAT11	1.33	1.00
2	C102	ENGINEERING PHYSICS	15PHY12	1.33	1.00
3	C103	ELEMENTS OF CIVIL ENGINEERING AND ENGINEERING MECHANICS	15CIV13	1.50	1.00
4	C104	ELEMENTS OF MECHANICAL ENGINEERING	15EME14	1.33	1.00
5	C105	BASIC ELECTRONICS	15ELE15	1.20	1.00
6	C106	WORK SHOP LAB	15WSL16	1.10	1.00
7	C107	PHYSICS LAB	15PHYL17	0.80	0.00
8	C108	ENGINEERING MATHEMATICS II	15MAT21	1.33	1.00
9	C109	ENGINEERING CHEMISTRY	15CHE22	1.33	1.00
10	C110	PROGRAMMING IN C LANGUAGE	15PCD23	1.20	–
11	C111	COMPUTER AIDED ENGINEERING DRAWING	15CED24	1.04	–
12	C112	BASIC ELECTRONICS	15ELN25	1.28	–
13	C113	COMPUTER PROGRAMMING LAB	15CPL26	1.06	–
14	C114	CHEMISTRY LAB	15CHEL27	1.06	–
15	C201	ENGINEERING MATHEMATICS III	15MAT31	0.28	0.28
16	C202	MATERIAL SCIENCE	15ME32	0.30	0.18
17	C203	BASIC THERMO DYNAMICS	15ME33	0.20	0.10
18	C204	MECHANICS OF MATERIALS	15ME34	0.30	0.10
19	C205	MACHINE TOOLS AND OPERATION	15ME35B	2.10	1.80
20	C206	COMPUTER AIDED MACHIN DRAWING	15ME36A	3.00	2.00

21	C207	MATERIAL TESTING LAB	15MEL37A	2.00	2.00
22	C208	FOUNDRY AND FORGING LAB	15MEL38B	2.00	2.00
23	C209	ENGINEERING MATHEMATICS IV	15MAT41	0.40	0.40
24	C210	KNEMATICS OF MACHINES	15ME42	0.26	0.14
25	C211	APPLIED THERMODYNAMICS	15ME43	0.20	0.10
26	C212	FLUID MECHANICS	15ME44	0.48	0.17
27	C213	METAL CASTING AND WELDING	15ME45B	1.10	1.30
28	C214	MECHANICAL MEASUREMENT & METROLOGY	15ME46B	0.16	0.12
29	C215	MECHANICAL MEASUREMENT & METROLOGY LAB	15MEL47	2.40	2.00
30	C216	MACHINE SHOP LAB	15MEL48	2.00	2.00
31	C301	MANAGEMENT & ENGINEERING ECONOMICS	15ME51	0.98	2.10
32	C302	DYNAMICS OF MACHINERY	15ME52	2.46	1.16
33	C303	TURBOMACHINES	15ME53	0.30	0.10
34	C304	DESIGN OF MACHINE ELEMENTS I	15ME54	0.30	0.16
35	C305	FLUID MECHANICS LAB	15MEL57	2.00	1.00
36	C306	ENERGY CONVERSION LAB	15MEL58	2.00	1.00
37	C307	FINITE ELEMENT ANALYSIS	15ME61	0.48	0.16
38	C308	COMPUTER INTEGRATED MAUFACTURING	15ME62	3.00	2.00
39	C309	HEAT TRANSFER	15ME63	0.30	0.20
40	C310	DESIGN OF MACHINE ELEMENTS II	15ME64	0.30	0.10
41	C311	METAL FORMING	15ME653	1.38	0.92
42	C312	TOTAL QUALITY MANAGEMENT	15ME664	3.00	1.80

43	C313	HEAT TRANSFER LAB	15MEL67	3.00	2.00
44	C314	MODELING AND ANALYSIS LAB	15MEL68	3.00	3.00
45	C401	ENERGY ENVIRONMENT	15ME71	3.00	1.80
46	C402	FLUID POWER SYSTEM	15ME72	0.30	0.16
47	C403	CONTROL ENGINEERING	15ME73	0.33	0.34
48	C404	TRIBOLOGY	15ME742	3.00	1.40
49	C405	MECHATRONICS	15ME753	3.00	2.20
50	C406	DESIGN LAB	15MEL76	1.00	2.00
51	C407	COMPUTER INTEGRATED MANUFACTURING LAB	15MEL77	3.00	2.00
52	C408	PROJECT	15MEL78	3.00	2.20
53	C409	OPERATION RESERCH	15ME81	2.40	1.40
54	C410	ADDITTIVE MANUFACTURING	15ME82	3.00	2.00
55	C411	PRODUCT LIFE CYCLE MANAGEMENT	15ME835	1.00	1.00
56	C412	INTERNSHIP	15ME84	3.00	2.20
57	C413	PROJECT	15ME85	3.00	2.20
58	C414	SEMINAR	15MES86	3.00	2.20

PSO Attainment Level

Course	PSO1	PSO2
PSO ATTAINMENT	1.82	1.53
DIRECT ATTAINMENT	1.53	1.16
INDIRECT ATTAINMENT	3.00	3.00

CRITERIA 4	STUDENTS PERFORMANCE	150
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4. STUDENTS PERFORMANCE (150)

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY 2020-21	CAYm1 2019-20	CAYm2 2018-19	CAYm3 2017-18	CAYm4 2016-17	CAYm5 2015-16
Sanctioned intake of the program (N)	60	120	120	120	120	120
Total number of students admitted in first year <i>minus</i> number of students migrated to other programs/institutions plus no. of students migrated to this program (N1)	05	33	74	92	95	102
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	-	-	17	41	45	40
Separate division students, if applicable (N3)	03	6	6	6	5	6
Total number of students admitted in the Program (N1 + N2 + N3)	08	39	97	139	145	148

CAY – Current Academic Year

CAYm1- Current Academic Year minus1= Current Assessment Year

CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1 LYG – Last Year

Graduate minus 1

LYGm1 – Last Year Graduate minus 1

LYGm2 – Last Year Graduate minus 2

Table 4.2

Year of entry	N1 + N2 + N3 (As defined above)	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study)			
		I Year	II Year	III Year	IV Year
CAY 2020-21	08 (05+0+3)				
CAYm1 2019-20	40 (40+0+0)	27			
CAYm2 2018-19	97 (80+17+0)	20	24		
CAYm3 2017-18	139 (98+41+0)	57	53	52	WURS
CAYm4 2016-17	145 (100+45+0)	52	59	45	34
CAYm5 (LYG) 2015-16	148 (108+40+0)	65	34	31	31
CAYm6 (LYGm1) 2014-15	150 (111+39+0)	43	58	44	42

Note: WURS - Waiting for University Result Sheet

Table 4.3

Year of entry	N1 + N2 + N3 (As defined above)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]			
		I Year	II Year	III Year	IV Year
CAY 2020-21	08 (05+0+03)				
CAYm1 2019-20	40 (40+0+0)	39			
CAYm2 2018-19	97 (80+17+0)	63	56		
CAYm3 2017-18	139 (98+41+0)	88	121	121	
CAYm4 2016-17	145 (100+45+0)	81	106	104	104
CAYm5 (LYG) 2015-16	148 (108+40+0)	96	113	109	98
CAYm6 (LYGm1) 2014-15	150 (111+39+0)	68	100	94	93

4.1 ENROLMENT RATIO (20) Enrolment Ratio=N1/N

Item (Students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year)	Marks
>=90% students enrolled	20
>=80% students enrolled	18
>=70% students enrolled	16
>=60% students enrolled	14
>=50% students enrolled	12
Otherwise	0

Year of entry	N1	N	N1/N (%)	Enrollment Ratio Average
2020-2021 (CAY)	08	60	13.33%	37.49%
2019-2020 (CAYm1)	39	120	32.5%	
2018-2019 (CAYm2)	80	120	66.66%	

Average [(ER1 + ER2 + ER3) / 3]: 37.49

Assessment: 0

Note: ENROLMENT RATIO (when Department applied for NBA accreditation)

<i>Year of entry</i>	<i>N1</i>	<i>N</i>	<i>N1/N (%)</i>	<i>Enrollment Ratio Average</i>
<i>2019-2020 (CAY)</i>	<i>39</i>	<i>120</i>	<i>32.5%</i>	<i>60.28%</i>
<i>2018-2019 (CAYm1)</i>	<i>80</i>	<i>120</i>	<i>66.67%</i>	
<i>2017-2018 (CAYm2)</i>	<i>98</i>	<i>120</i>	<i>81.67%</i>	

Average [(ER1 + ER2 + ER3) / 3]: 60.28%

Assessment: 14

4.2 Success Rate in the stipulated period of the program(40)

4.2.1 Success rate without backlogs in any semester/year of study (25)

$$SI = \frac{\text{Number of students who have graduated from the program without backlog}}{\text{Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable}}$$

Average SI = Mean of Success Index (SI) for past three batches Success rate without backlogs in any year of study
= $25 \times \text{Average SI}$

Item	Last Year of Graduate, LYG (CAYm4) 2016-17 Batch	Last Year of Graduate minus 1, LYGm1 (CAYm5) 2015-16 Batch	Last Year of Graduate minus 2, LYGm2 (CAYm6) 2014-15 Batch
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	145	148	150
Number of students who have graduated without backlogs in the stipulated period	34	31	42
Success Index (SI)	0.2344	0.2094	0.28
Average SI	0.2412		

Assessment: $25 \times \text{Average SI} = 25 \times 0.2412 = 6.03$

4.2.2 SUCCESS RATE IN STIPULATED PERIOD OF STUDY(15) [WITH AND WITHOUT BACKLOGS]

SI= (Number of students who graduated from the program in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and actual admitted in 2nd year via lateral entry and separate division, if applicable)

*Average SI = mean of Success Index (SI) for past three batches Success rate
= 15 × Average SI*

Item	Last Year of Graduate (LYG) (CAYm4) 2016-17 Batch	Last Year of Graduate minus 1, LYGm1 (CAYm5) 2015-16 Batch	Last Year of Graduate minus 2 LYGm2 (CAYm6) 2014-15 Batch
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	145	148	150
Number of students who have graduated in the stipulated period	104	98	93
Success Index (SI)	0.7172	0.6621	0.62
Average Success Index	0.6664		

Assessment: $15 \times \text{Average SI} = 15 \times 0.6664 = 9.996$

Note: If 100% students clear without any backlog then also total marks scored will be 40 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

4.3 ACADEMIC PERFORMANCE IN THIRD YEAR (15)

*Academic Performance = 1.5 * Average API (Academic Performance Index)*

API = ((Mean of 3rdYear Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Third Year/10)) x (number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the final year.

$$API = \frac{\text{(Mean of the percentage of marks of all successful students in Third Year)}}{10} * \frac{\text{number of successful students}}{\text{number of students appeared in the examination}}$$

Academic Performance	CAYm1 2018-19 (2017-18 Batch)	CAYm2 2017-18 (2016-17 Batch)	CAYm3 2016-17 (2015-16 Batch)
Mean of CGPA or Mean Percentage of all successful students (X)	7.39	6.4	5.91
Total no. of successful students (Y)	121	69	109
Total no. of students appeared in the examination (Z)	121	104	109
API = x* (Y/Z)	AP 1 = 7.39	AP 2 = 4.24	AP 3 = 5.91
Average API = (AP1 + AP2 + AP3)/3	5.846		

Assessment: 1.5 * Average API (Academic Performance Index) = 1.5 * 5.846 = 8.769

4.4 ACADEMIC PERFORMANCE IN SECOND YEAR (15)

*Academic Performance Level = 1.5 * Average API (Academic Performance Index)*

API = ((Mean of 2ndYear Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)) x (number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the Third year.

Academic Performance	CAYm1 2018-19 (2018-19 Batch)	CAYm2 2017-18 (2017-18 Batch)	CAYm3 2016-17 (2016-17 Batch)
Mean of CGPA or Mean Percentage of all successful students (X)	6.94	6.69	5.82
Total no. of successful students (Y)	76	63	66
Total no. of students appeared in the examination (Z)	76	129	125
API = X* (Y/Z)	AP 1 = 6.94	AP 2 = 3.267	AP 3 = 3.072
Average API = (AP1 + AP2 + AP3)/3	4.426		

Assessment = 1.5 * Average API (Academic Performance Index) = 1.5 * 4.426 = 6.639

4.5 PLACEMENT, HIGHER STUDIES AND ENTREPRENEURSHIP (40)

Assessment Points = $40 \times \text{average placement}$

ITEM	CAY 2019-20 (2016-20 Batch)	CAYm2 2018-19 (2015-16 Batch)	CAYm3 2017-18 (2014-15 Batch)
Total No. of Final Year Students (N)	104	109	112
No. of students placed in companies or Government Sector (x)	52	34	34
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	00	05	02
No. of students turned entrepreneur in engineering/technology (z)	0	0	0
$x + y + z =$	52	39	36
Placement Index : $(x + y + z)/N$	P1 = 0.5	P2 = 0.3577	P3 = 0.3214

Average placement = $(P1 + P2 + P3)/3$ 0.393

Assessment Points = $40 \times \text{average placement} = 40 \times 0.393 = \mathbf{15.721}$

Programs Name: **Mechanical Engineering**

Assessment Year: CAYm1 **2019-20**

Programs Name: Mechanical Engineering and Assessment Year: 2019-20				
Sl. No.	Name of the student placed	Enrollment no. (USN)	Name of the Employer	Appointment letter reference no. with date
1	Abhilash.S	1KS16ME004	TCS NINJA	KSIT-ME-P-2016-01
2	Amogha.M.Kekuda	1KS16ME008		KSIT-ME-P-2016-02
3	Mohammed Yasir Riaz	1KS16ME045		KSIT-ME-P-2016-03
4	Sreekara.K.B	1KS16ME085		KSIT-ME-P-2016-04
5	Sumesh.R	1KS16ME089		KSIT-ME-P-2016-05
6	Abhishek Pareek	1KS16ME006	Infosys	KSIT-ME-P-2016-06
7	Bhargav Joshi	1KS16ME012		KSIT-ME-P-2016-07
8	Hitesh.C.S	1KS16ME026		KSIT-ME-P-2016-08
9	Jaydeep B	1KS16ME031		KSIT-ME-P-2016-09
10	Rishi.R.Naik	1KS16ME070		KSIT-ME-P-2016-10
11	Shivashankar.B.M	1KS16ME082		KSIT-ME-P-2016-11
12	Sowjanya.D	1KS16ME084		KSIT-ME-P-2016-12
13	Supreeth.K.R	1KS16ME090		KSIT-ME-P-2016-13
14	Pavan Kumar.L	1KS16ME056	JARO Education	KSIT-ME-P-2016-14
15	Bharathkumar.P	1KS16ME011	Youngman India	KSIT-ME-P-2016-15
16	Pranav J Athrey	1KS16ME064		KSIT-ME-P-2016-16
17	Vinay P	KS16ME098		KSIT-ME-P-2016-17
18	Nikhil Gowda.N.S	1KS17ME423		KSIT-ME-P-2016-18

19	Kiran Prakash Akolkar	1KS16ME036	[24]*7.ai	KSIT-ME-P-2016-21
20	Nithin.N	1KS16ME053		KSIT-ME-P-2016-22
21	Sudarshan.T	1KS16ME086		KSIT-ME-P-2016-23
22	Bharath P	1KS16ME011	Hudl	KSIT-ME-P-2016-24
23	Bhargav Joshi	1KS16ME012		KSIT-ME-P-2016-25
24	Bhuvan Bharadwaj V K	1KS16ME013		KSIT-ME-P-2016-26
25	Chandan Kumar.N.P	1KS16ME014		KSIT-ME-P-2016-27
26	Chirag Pushparaj	1KS16ME015		KSIT-ME-P-2016-28
27	Deepak.R.Gowda	1KS16ME016		KSIT-ME-P-2016-29
28	Harish Hadimani	1KS16ME019		KSIT-ME-P-2016-30
29	Harshavardhan.N	1KS16ME022		KSIT-ME-P-2016-31
30	Hemanth R	1KS16ME024		KSIT-ME-P-2016-32
31	Jagadish P Shetti	1KS16ME029		KSIT-ME-P-2016-33
32	Prashanth Gonuguntla	1KS14ME030		KSIT-ME-P-2016-34
33	Madan S S	1KS16ME040		KSIT-ME-P-2016-35
34	Mohammed Riaz	1KS16ME045		KSIT-ME-P-2016-36
35	Mohan Kumar.N	1KS16ME046		KSIT-ME-P-2016-37
36	Nagesh T.S	1KS16ME049		KSIT-ME-P-2016-38
37	Pavan Kumar Reddy.V	1KS15ME053		KSIT-ME-P-2016-39
38	Nithin N	1KS16ME053		KSIT-ME-P-2016-40
39	Pechu Muthu S	1KS16ME058		KSIT-ME-P-2016-41
40	Rishi.R.Naik	1KS16ME070		KSIT-ME-P-2016-42
41	Shaik Moinuddin	1KS16ME075		KSIT-ME-P-2016-43
42	Shivaraj.N.S	1KS16ME081		KSIT-ME-P-2016-44
43	Sudharshan.M.D	1KS16ME087		KSIT-ME-P-2016-45
44	Varun Gowda	1KS16ME093		KSIT-ME-P-2016-46
45	Vasanth Kumar S	1KS16ME094		KSIT-ME-P-2016-47
46	Vijaya Kumar.M.S	1KS16ME095		KSIT-ME-P-2016-48
47	Vijay Kumar T C	1KS16ME096		KSIT-ME-P-2016-49
48	Vinay.B.V	1KS16ME097		KSIT-ME-P-2016-50
49	Thejas Chandra Narendra	1KS15ME098		KSIT-ME-P-2016-51
50	Vinay P	1KS16ME098		KSIT-ME-P-2016-52
51	Nikhil Gowda.N.S	1KS17ME423		KSIT-ME-P-2016-53
52	Vinay S	1KS17ME444		KSIT-ME-P-2016-54

Assessment Year: CAYm2 2018-2019

Programs Name: Mechanical Engineering and Assessment Year: 2018-19				
Sl. No.	Name of the student placed	Enrollment no. (USN)	Name of the Employer	Appointment letter reference no. with date
1	Krishna R Mojamdar	1KS15ME038	Mu-Sigma Business Solution Pvt. Ltd	KSIT-ME-P-2015-01
2	Subin Suresh Nair	1KS15ME087	Infosys	KSIT-ME-P-2015-02
3	Darshan K	1KS15ME020		KSIT-ME-P-2015-03
4	Akash Gadada S	1KS15ME007		KSIT-ME-P-2015-04
5	Santrupth Kumar	1KS15ME032		KSIT-ME-P-2015-05
6	Rayanagoudapatil	1KS15ME066		KSIT-ME-P-2015-06

7	Vishnu Teja P	1KS15ME105		KSIT-ME-P-2015-07
8	Aditya Narayan.P	1KS15ME004	Tata Consultancy Services	TCSL/DT20184699792/ Bangalore 9.10.2018
9	M.P.Sharan Kumar	1KS15ME041		TCSL/DT20184718301/ Bangalore 9.10.2018
10	Tejaraj.M	1KS15ME096		TCSL/DT20184639900/ Bangalore 9.10.2018
11	Sadaat Tameem	1KS15ME073	Q-Spiders	KSIT-ME-P-2015-08
12	Sabari Vignesh.S	1KS15ME071	Tata Consultancy Services	TCSL/DT20184572596/126346 5/Bangalore 16.09.2019
13	Raviteja T S	1KS15ME064	Shriram Transport Finance Company Ltd.	CAN050158 01.04.2019
14	Gautham M K	1KS15ME025	Razorpay Software Pvt. Ltd.	KSIT-ME-P-2015-09
15	Likhith M R	1KS15ME039	General Motors Technical Center India Pvt Ltd	KSIT-ME-P-2015-01
16	Rahul S N	1KS15ME047	General Motors Technical Center India Pvt Ltd	KSIT-ME-P-2015-02
17	Nikhil P	1KS16ME414	Auto Cnc Machining Limited	KSIT-ME-P-2015-03
18	Sai Abhiram G P	1KS15ME075	Pact Consulting	KSIT-ME-P-2015-04
19	Shreyas G T	1KS15ME083	Campus Management	KSIT-ME-P-2015-05
20	U V Parikhansh	1KS15ME099	Maini Precision Products	KSIT-ME-P-2015-06
21	Veeresh	1KS16ME434	Maini Precision Products	KSIT-ME-P-2015-07
22	Vishwas D	1KS15ME106	Bounce	KSIT-ME-P-2015-08
23	Athul Bharadwaj	1KS15ME014	Neviton	KSIT-ME-P-2015-09
24	Karthik Yadav C	1KS15ME033	Joulestowatts Business Solutions Pvt. Ltd	KSIT-ME-P-2015-10
25	Kirthi Kumar H Jain	1KS15ME036	Tata Consultancy Services	TCSL/DT20184697049/127568 4/Bangalore 09/08/2019
26	Madhusudhan Reddy	1KS15ME024	Flextronics Technologies India Pvt. Ltd	KSIT-ME-P-2015-11
27	Pavan B	1KS16ME415	Solas Fire Safety Equipment (P) Ltd	KSIT-ME-P-2015-12
28	Prarthana Amar	1KS15ME056	Neviton	KSIT-ME-P-2015-13
29	Rohith Somayaji	1KS15ME069	Wevin Pvt Ltd	WPL/HR/TRAINEE/2019

30	Sagar Soratur	1KS15ME074	Engineering Plastics	KSIT-ME-P-2015-14
31	Sampath Kumar	1KS16ME426	Teamlease Services Limited.,	KSIT-ME-P-2015-15
32	Shri S	1KS15ME084	Easi	KSIT-ME-P-2015-16
33	Shivaswamy S	1KS16ME428	Aasaan Jobs Pvt. Ltd	KSIT-ME-P-2015-17
34	Srinivas M V	1KS15ME086	T E Connectivity India Pvt Ltd.	KSIT-ME-P-2015-18

Assessment Year: CAYm3 **2017-18**

Programs Name: Mechanical Engineering and Assessment Year: 2017-18				
Sl. No.	Name of the student placed	Enrollment no. (USN)	Name of the Employer	Appointment letter reference no. with date
1	Vijay Kumar T	1KS14ME105	Infosys	HRD/3T/18-19/12031253 02/JULY/2018
2	Puneeth B	1KS14ME086	Westline Ship Management	WL/TNO/17-18 27/SEPT/2017
3	Kushal	1KS14ME042	Pinclick	KSIT-ME-P-2014-14
4	Naveen Kashyap B N	1KS14ME056	Path Front	PFES/JULB001/083/07022018 07/FEB/2018
5	Suraj B Parihar	1KS14ME093		PFES/JULB001/084/07022018 07/FEB/2018
6	Gaurav Maurya	1KS14ME029	Go Speedy Go (A Unit of Hiferk Technologies Pvt. Ltd)	KSIT-ME-P-2014-15
7	Indrajith S	1KS14ME033		KSIT-ME-P-2014-16
8	Vishwanath Reddy Patil	1KS15ME438		2KSIT-ME-P-2014-17
9	Srinidhi P R	1KS14ME089	SEG Automotive	KSIT-ME-P-2014-18
10	Ankush.A.Telkar	1KS14ME013	SEG Automotive	KSIT-ME-P-2014-01
11	Chandan.G.K	1KS14ME022	Concentrix	KSIT-ME-P-2014-02
12	Hemanth Kumar.J	1KS14ME032	Bosch	KSIT-ME-P-2014-03
13	Jeevan.G. Betegeri	1KS14ME034	Deutsch India Power Connectors Pvt. Ltd	KSIT-ME-P-2014-04
14	Karan.M.N	1KS14ME037	BEML Ltd	KSIT-ME-P-2014-05
15	B.Lokesh	1KS14ME017	INCH	KSIT-ME-P-2014-06
16	Nanda Kishor	1KS15ME420	Prashanth Cylinder (P) Ltd	KSIT-ME-P-2014-07
17	Nikhil Jose.J	1KS14ME058	J. E. Connectivity India Pvt Ltd	KSIT-ME-P-2014-08
18	Nischith.S.T	1KS14ME061	Satven	KSIT-ME-P-2014-09
19	Revathi.G.R	1KS14ME076	Mangal Industries Ltd	KSIT-ME-P-2014-10
20	Suhas Srivatsa	1KS15ME434	L & T Technology Services	KSIT-ME-P-2014-11
21	Varun.R.P	1KS14ME100	Seoyon-E-HWA Automotive Anantapur Pvt Ltd	KSIT-ME-P-2014-12
22	Vishwas.C	1KS14ME107	Infosys	KSIT-ME-P-2014-13
23	Anush Upadhya	1KS14ME014	BOSCH REXROTH	KSIT-ME-P-2014-14
24	Santosh Kumar C	1KS14ME081	TECHNOLOGICS	KSIT-ME-P-2014-15

			GLOBAL PVT LTD	
25	Sharath D	1KS14ME082	CAD ZONE	KSIT-ME-P-2014-16
26	Subramanya N Raikar	1KS14ME090	YASHASWI	KSIT-ME-P-2014-17
27	Yatish Nataraj	1KS14ME110	ACCENTURE	KSIT-ME-P-2014-18
28	Chandrashekar H	1KS15ME408	RAJALAKSHMI STAMPINGS	KSIT-ME-P-2014-19
29	Akshay M G	1KS15ME402	INFYENERGY SUNFACTORY PVT LTD	KSIT-ME-P-2014-20
30	Revant Diwakar.K	1KS14ME075	K&S PARTNERS	KSIT-ME-P-2014-21
31	Manohar M	1KS15ME419	MERCEDES-BENZ R&D INDIA	KSIT-ME-P-2014-22
32	Kali Prasad Gowda	1KS15ME418	ANANTH TECHNOLOGIES LTD	KSIT-ME-P-2014-23
33	Karthik R	1KS15ME425	RRC ENTERPRISES	KSIT-ME-P-2014-24
34	Ramanjuneya Raju R	1KS15ME427	MECHTORNIX	KSIT-ME-P-2014-25

4.6 PROFESSIONAL ACTIVITIES (20)

4.6.1 PROFESSIONAL SOCIETIES/CHAPTERS AND ORGANIZING ENGINEERING EVENTS (5)

A. The professional bodies in the department are

1. IEI- Institute of Engineers (India)
2. ISTE – Indian Society for Technical Education
3. IIF- The Institute of Indian Foundrymen
4. SAE- Society of Automotive Engineers INDIA

B. The details of events under these professional chapter is mentioned in table 4.4, 4.5 and 4.6 for 2019-20, 2018-19 and 2017-18 respectively

Table 4.4: Details of events for 2019-20

2019-2020						
Sl. No.	Type of the event (FDP/ workshop/ seminar/ lecture etc.)	Date	Organized under professional societies/ Chapters	Title of event/ talk	Resource Person and Details	No. of participants
1	Lecture	13/08/2019 To 17/08/2019	ME & SAE	Technical Training Program	Dr. K Rama Narasimha, Dr. B S Ajaykumar, Dr. P N Jyothi	190
2	Lecture	19/09/2019	IIF	Technical talk on Advances in Foundry Technology	Dr. P Raghothama Rao	75
3	Lecture	18/10/2019	IIF	Technical Talk on Innovation, motivation and Entrepreneurship in Foundry Industries	Dr.K Shamsundar	75
4	Workshop	31/10/2019	ME & SAE	Electric motor development	Mr. Piyush Verma	25
5	Competition	25/03/2020 To 29/03/2020	SAE	MEGA ATV CHAPIONSHIP 2019	Autosports, India	20

Table 4.5: Details of events for 2018-19

Sl. No.	Type of the event (FDP/ workshop/ seminar/ lecture etc.)	Date	Organized under professional societies/ Chapters	Title of the event/ talk	Resource Person and Details	No. of participants
1	Workshop	01/04/2019	ME	ROBOTICS	Mr. Malav Thacker	75
2	Workshop	04/04/2019	ME & SAE	Training on Ansys	Mr. Nagabhushan	70
3	Workshop	22/02/2019	ME & SAE	Microsoft Technology Associate	Mr. Yradav K Mahendra	80
4	Seminar	31/10/2018	ME & SAE	Scope for mechanical engineers in the field of HVAC and Plumbing	Mr. Muneer & MrAsif	75
5	Seminar	4/10/2018	ME & SAE	HVAC Designing	Mr. Muneer & MrAsif	60
6	Competition	6/03/2019 To 11/03/2019	SAE	BAJA SAE INDIA 2019	SAE India	25
7	Competition	14/02/2019 To 17/02/2019	SAE	Prodigy racers		25

Table 4.6: Details of events for 2017-2018

Sl. No.	Type of the event (FDP/ workshop/ seminar/ lecture etc.)	Date	Organized under professional societies/ Chapters	Title of event/ talk	Resource Person and Details	No. of participants
1	Workshop	13/10/2017 To 15/10/2017	SAE INDIA	Auto motive Technology	Mr. K P Murthy	80
2	Workshop	20/04/2018 To 22/04/2018	SAE INDIA	Advanced Concepts of Automotive Technology	Mr. P.Krishnan, Vice Chairman, SAE India	60
3	Workshop	08/02/2017 To 10/02/2017	ME & SAE	Computational Fluid Dynamics	Dr. S N Sridhara & Dr. K Rama Narasimha	120
4	Competition	24/01/2018 To 28/01/2018	SAE	Baja SAE India 2018	SAE India	25
5	Competition	24/02/2018 TO 26/02/2018	SAE	MEGA ATV CHAMPIONSHIP 2018	Autosports, India	25

4.6.2 PUBLICATION OF TECHNICAL MAGAZINES, NEWSLETTERS, ETC. (5)

A. The department publishes newsletter named as EMANATION, and the content of newsletter is about latest developments. The department has successfully released 8 volumes of newsletter which has been printed and distributed to stakeholders

B. The editorial board consists of faculty and students representatives as mentioned in table 4.7

Table 4.7: Department Newsletter (ME - EMANATION)

Sl. No.	Volume	Date	Editorial Team Members	
			Faculty	Students
1	Volume 1	May 2014	Prof. Umashankar M	Rohit S Narayan Vamshi Krishna Ruthvik Kumar
2	Volume 2	October 2014	Prof. Umashankar M	Tejaswini Nagesh Vinayk Sharma Shreyas
3	Volume 4	April 2015	Prof. Umashankar M	Sachin B G Tejaswini Nagesh Smriti Sridhar
4	Volume 5	October 2015	Prof. Umashankar M	Tejaswini Nagesh Vinayk Sharma Shreyas
5	Volume 6	May 2017	Prof. Umashankar M	Shreyas G T Gautham Shivkomal
6	Volume 7	May 2018	Prof. Umashankar M	Shreyas G T Gautham Ram Narayan
7	Volume 8	September 2019	Prof. Umashankar M	Shashank M G Kushal Rao Pruthvi

4.6.3 PARTICIPATION IN INTER-INSTITUTE EVENTS BY STUDENTS OF THE PROGRAM OF STUDY (10)

A & B. The students have participated in the events within the state (viz; Project exhibition etc) and outside the state (viz; SAE BAJA etc.) and won the prizes (table 4.8). Also, the students have published their work in reputed journals and details of few papers are shown in table 4.9.

C. The details of students participated in few inter-institute events and awards won is mentioned in table 4.8

Table 4.8: Student participated in inter-institute events.

Sl No .	Name	Event	Title	Award
1	Venkatesh Kashyap	Student Project Programme Exhibition 22 nd September, 2020	Design and Frabrication of Solid Waste Collector and Water De-Frothing Device	Best Project of the Year
2	Varun R	N3PE 2019 (National Level Tech Fest) AMC Engineering College	Portable Mechanical Power-Kit of KSIT	Second Place
3	BAJA Team	SAE INDIA 6 th -11 th Mar 2019	Exhibition IIT Ropar, Punjab, Organized by Mahindra	Participated in the Exhibition
4	BAJA Team	SAE 21 st -23 rd September 2018	7 th Eco Friendly Electric Vehicles	Participated in the Exhibition
5	Adithya Pai	Student Project Programme Exhibition 10 th and 11 th August, 2018	Proportional Integral Derivative Controller on Boilers	Best Project of the Year

Table 4.9: Student publications in Journals

Sl No	Name of the student	Title of the paper	Journal Details
1	Adithya Pai	Proportional Integral Derivative Controller on Boilers Temperature and Flow Control Parameters	International Journal of Pure and Applied Mathematics Volume 119 No. 14 2018, 173-177 ISSN: 1314-3395
2	G. S. Santhosh	Design of Conical Strainer and Analysis Using FEA	International Journal of Engineering Science Invention (IJESI) ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726

3	Shishir Ganesh S	Vertical Takeoff and Landing (VTOL) aircraft using Tiltrotor Mechanism	International Journal on Recent Technologies in Mechanical and Electrical Engineering (IJRMEE) ISSN: 2349-7947 Volume: 5 Issue: 2
4	V. Anirudh	Investigation of Tesla Turbine	International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS) Volume VI, Issue XII, December 2017 ISSN 2278-2540
5	Chetan M Kumar	Effect of Injecting Urea and DEE Solution at Exhaust Pipe of Diesel Engine with DPF and DOC	International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS) Volume IX, Issue VII, July 2020 ISSN 2278-2540
6	Molakalu Punith	A Review on Study and Usage Of Combining After Treatment Devices Into Existing Diesel Engine	International Advanced Research Journal in Science, Engineering and Technology Vol. 8, Issue 7, July 2021 DOI: 10.17148/IARJSET.2021.8777
7	Vinay. S	Investigation of Mechanical properties of hybrid composites using Hemp and Aramid	International Journal of Research and Analytical Reviews (IJRAR) www.ijrar.org 2020 IJRAR July 2020, Volume 7, Issue 3

CRITERION 5	Faculty Information and Contributions	200
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5. FACULTY INFORMATION AND CONTRIBUTIONS (200)

FACULTY LIST CAY 2020-21

Sl. No.	Name	PAN No.	University Degree	Date of Receiving	Area of Specialization	Research Paper	Ph. D Guidance	Ph.D. Granted during the assessment year	Current Designation	Date (Designated as Prof./Assoc. Prof.).	Initial Date of Joining	Association Type	At present working with the Institution	In case of NO, Date of	IS HOD/Principal?
1	Dr.K.V.A.Balaji	ABD PV74 10K M	Ph.D	26/07/1996	Organizational Behavior	0	0	0	Professor	02/04/2018	02/04/2018	Contractual	Yes		No
2	Dr.M.Umashankar	AAP PU73 54J	Ph.D	09/07/2021	Design Engineering	2	0	0	Associate Professor & Head	01/10/2014	30/01/2012	Regular	Yes		Yes
3	Mr.M.Nagabhushana	ADG BN8 995C	M.E	23/01/1996	Design Engineering	0	0	0	Associate Professor	01/10/2014	02/01/2013	Regular	Yes		No
4	Mr.K.Prasad	AQ MPK 5981 E	M.Tech	30/12/2000	Thermal Power Engineering	0	0	0	Associate Professor	01/10/2014	23/06/2010	Regular	Yes		No
5	Dr.Nagaprasad.K.S	AEH PN96 63D	Ph.D	08/02/2020	IC Engines	2	0	0	Associate Professor	01/10/2014	29/07/2009	Regular	Yes		No
6	Dr.Girish.T.R	ALA PG69 16G	PhD	03/11/2018	Composite Material	1	0	0	Associate Professor	28/10/2016	20/01/2012	Regular	Yes		No
7	Dr.L.Nirmala	AFR PN13 85D	Ph.D	24/08/2019	Composite Material	0	0	0	Associate Professor	28/10/2019	18/05/2001	Regular	Yes		No

8	Mr.Ranganath.N	AOS PR23 90J	M.Tech	09/04/2012	Machine Design	0	0	0	Assistant Professor		07/09/2011	Regu lar	Yes		No
9	Mr.AnilKumar.A	BMR PA15 33N	M.Tech	09/05/2015	Machine Design	0	0	0	Assistant Professor		14/07/2014	Regu lar	Yes		No
10	Mr.Harish.U	ACC PH99 61K	M.E	02/04/2012	Computer Aided Design	0	0	0	Assistant Professor		18/08/2014	Regu lar	Yes		No
11	Mr.Parashuram.A. Kutakanakeri	BJPP K233 7F	M.Tech	22/09/2012	Energy Engineer ing	0	0	0	Assistant Professor		21/01/2016	Regu lar	Yes		No
12	Mr.BharathKumar.K.R	BBO PB59 34L	M.Tech	09/05/2015	Computer Integrated Manufactur ing	0	0	0	Assistant Professor		15/07/2016	Regu lar	Yes		No
13	Dr. Saleem Khan	BZO PS04 93M	Ph.D	18/02/2021	Manufactur ing Science and Engineer ing	1	0	0	Assistant Professor		03/02/2020	Regu lar	Yes		No
14	Mr. Trimurthy R	APJP R200 2K	M.A, M.Ed	16/06/2019	Kannada	0	0	0	Assistant Professor	06-08-2018	06-08-2018	Cont ractua l	Yes		No

FACULTY LIST CAYm1 2019-20

Sl. No.	Name	PAN No.	University Degree	Date of Receiving	Area of Specialization	Research Paper Publications	Ph. D Guidance	Ph.D. Granted during the assessment year	Current Designation	Date (Designated as Prof/Assoc. Prof.).	Initial Date of Joining	Association Type	At present working with the Institution	In case of NO, Date of	IS HOD/Principal?
1	Dr.T.V.Govindaraju	AKL PG4 585 H	PhD	19/12/2000	Photo - Elastic Stress Analysis	1	3	1	Professor and principal	07/06/2013	07/06/2013	Regu lar	No	30/7/2020	Yes

2	Dr.K.V.A.Balaji	ABD PV7 410 K M	PhD	26/07/1996	Organizational Behavior	0	0	0	Professor	02/04/2018	02/04/2018	Contractual	Yes		No
3	Mr.M.Umashankar	AAP PU7 354J	M.Sc. (Engineering)	09/02/2007	Design Engineering	7	0	0	Associate Professor &Head	01/10/2014	30/01/2012	Regular	Yes		Yes
4	Dr.B.S.Ajay Kumar	ABC PA3 366 Q	PhD	30/04/2010	Cutting Tools	7	0	0	Professor	06/08/2018	06/08/2018	Regular	No	30/06/2020	No
5	Mr.M.Nagabhushana	ADG BN8 995C	M.E	23/01/1996	Design Engineering	0	0	0	Associate Professor	01/10/2014	02/01/2013	Regular	Yes		No
6	Mr.K.Prasad	AQ MPK 5981 E	M.Tech	30/12/2000	Thermal Power Engineering	0	0	0	Associate Professor	01/10/2014	23/06/2010	Regular	Yes		No
7	Dr.Nagaprasad.K.S	AEH PN9 663 D	PhD	08/02/2020	I C Engines	4	0	0	Associate Professor	01/10/2014	29/07/2009	Regular	Yes		No
8	Dr.Girish.T.R	ALA PG6 916 G	PhD	03/11/2018	Composite Material	1	0	0	Associate Professor	28/10/2016	20/01/2012	Regular	Yes		No
9	Dr.L.Nirmala	AFR PN1 385 D	PhD	24/08/2019	Composite Material	0	0	0	Associate Professor	28/10/2019	18/05/2001	Regular	Yes		No
10	Mr.K.V.Manjunath	AOB PM4 084 M	M.Tech	12/03/2008	Product Design & Manufacturing	4	0	0	Assistant Professor		2/02/2011	Regular	No	20/07/2020	No
11	Mr.Murulidhar.K.S	DTZ PS69 19H	M.E/M.Tech	09/04/2012	Thermal Power Engineering	4	0	0	Assistant Professor		02/01/2013	Regular	No	20/07/2020	No
12	Mr.Manjunath.B.R	BBP PM3 218R	M.Tech	10/02/2009	Tool Engineering	0	0	0	Assistant Professor		20/07/2011	Regular	Yes		No

13	Mr.Ranganath.N	AOS PR2 390J	M.Tech	09/04/2012	Machine Design	5	0	0	Assistant Professor		07/09/2011	Regu lar	Yes		No
14	Mr.Naresha.K	AM EPK 7333 E	M.Tech	03/05/2014	Product Design & Manufactu ring	0	0	0	Assistant Professor		14/07/2014	Regu lar	Yes		No
15	Mr.AnilKumar.A	BM RPA 1533 N	M.E/M.T ech	09/05/2015	Machine Design	1	0	0	Assistant Professor		14/07/2014	Regu lar	Yes		No
16	Mr.Harish.U	ACC PH9 961 K	M.E	02/04/2012	Computer Aided Design	0	0	0	Assistant Professor		18/08/2014	Regu lar	Yes		No
17	Mr.Parashuram.A.Kut akanakeri	BJPP K23 37F	M.Tech	22/09/2012	Energy Engineeri ng	0	0	0	Assistant Professor		21/01/2016	Regu lar	Yes		No
18	Ms.N.SreeSudha	AG WP N24 57N	M.Tech	27/11/2009	Industrial Engineeri ng & Managem ent	2	0	0	Assistant Professor		24/08/2016	Regu lar	No	1/16/2021	No
19	Mr.BharathKumar.K.R	BBO PB5 934L	M.Tech	09/05/2015	Computer Integrated Manufactu ring	0	0	0	Assistant Professor		15/07/2016	Regu lar	Yes		No
20	Mr.Madhu.G	BLN PG3 478 H	M.Tech	03/05/2014	Manufactu ring Science and Engineeri ng	0	0	0	Assistant Professor		02/08/2018	Regu lar	No	30/06/2020	No
21	Mr.GaneshArjunBharg av	CEN PB5 052 A	M.Tech	09/05/2015	Engineeri ng Analysis	0	0	0	Assistant Professor		01/07/2019	Regu lar	No	20/07/2020	No
22	Mr. Trimurthy R	APJ PR2 002 K	M.A, M.Ed	16/06/2019	Kannada	0	0	0	Assistant Professor	06-08-2018	06-08-2018	Contr actua l	Yes		No

FACULTY LIST CAYm2 2018-19

Sl. No.	Name	PAN No.	University Degree	Date of Receiving	Area of Specialization	Research Paper Publications	Ph. D Guidance	Ph.D. Granted during the assessment year	Current Designation	Date (Designated as Prof/Assoc. Prof.).	Initial Date of Joining	Association Type	At present working with the Institution	In case of NO, Date of Leaving	IS HOD/Principal?
1	Dr.T.V.Govindaraju	AK LP G4 58 5H	PhD	19/12/2000	Photo - Elastic Stress Analysis	1	3	1	Professor & principal		07/06/2013	Regular	Yes		Yes
2	Dr.K.V.A.Balaji	AB DP V7 41 0K M	PhD	26/07/1996	Organizational Behavior	0	0	0	Professor	02/04/2018	02/04/2018	Contractual	Yes		No
3	Dr. K. Rama Narasimha	AE CP R6 63 9G	PhD	09/04/2012	Pulsating Heat Pipes	0	4	0	Professor	03/08/2016	03/08/2016	Regular	No	31/05/2019	No
4	Dr.B.S.Ajay Kumar	AB CP A3 36 6Q	PhD	30/04/2010	Cutting Tools	7	0	0	Professor	06/08/2018	06/08/2018	Regular	Yes		No
5	Mr.M.Nagabhushana	AD GB N8 99 5C	M.E	23/01/1996	Design Engineering	0	0	0	Associate Professor	01/10/2014	02/01/2013	Regular	Yes		No
6	Mr.M.Umashankar	AA PP U7 35 4J	M.Sc. (Engineering)	09/02/2007	Design Engineering	7	0	0	Associate Professor & Head	01/10/2014	30/01/2012	Regular	Yes		Yes
7	Mr.K.Prasad	AQ MP K5 98 1E	M.Tech	30/12/2000	Thermal Power Engineering	0	0	0	Associate Professor	01/10/2014	23/06/2010	Regular	Yes		No
8	Mr. Balaji.B	AJ RP B4 12 1B	M.Tech	26/02/2007	Machine Design	0	0	0	Associate Professor	11/08/2015	11/08/2015	Regular	No	31/05/2019	No

9	Mr.Nagaprasad.K.S	AE HP N9 66 3D	M. Tech	17/02/2005	Energy Systems Engineeri ng	4	0	0	Associate Professor	01/10/2014	29/07/2009	Regu lar	Yes		No
10	Dr.Girish.T.R	AL AP G6 91 6G	PhD	03/11/2018	Composite Material	1	0	0	Associate Professor	28/10/2016	20/01/2012	Regu lar	Yes		No
11	Ms.L.Nirmala	AF RP N1 38 5D	M.Sc. (Engineerin g)	09/02/2007	Design Engineeri ng	0	0	0	Associate Professor	28/10/2019	18/05/2001	Regu lar	Yes		No
12	Mr. Abhishek M R	AN KP A3 53 8N	M.Tech	07/01/2010	Machine Design	0	0	0	Assistant Professor		04/08/2008	Regu lar	No	29/06/2019	No
13	Mr.K.V.Manjunath	AO BP M4 08 4M	M.Tech	12/03/2008	Product Design & Manufactu ring	4	0	0	Assistant Professor		2/02/2011	Regu lar	Yes		No
14	Mr.Manjunath.B.R	BB PP M3 21 8R	M.Tech	10/02/2009	Tool Engineeri ng	0	0	0	Assistant Professor		20/07/2011	Regu lar	Yes		No
15	Mr.Murulidhar.K.S	DT ZP S6 91 9H	M.Tech	09/04/2012	Thermal Power Engineeri ng	4	0	0	Assistant Professor		02/01/2013	Regu lar	Yes		No
16	Mr.Ranganath.N	AO SP R2 39 0J	M.Tech	09/04/2012	Machine Design	5	0	0	Assistant Professor		07/09/2011	Regu lar	Yes		No
17	Mr.Naresha.K	A M EP K7 33 3E	M.Tech	03/05/2014	Product Design & Manufactu ring	0	0	0	Assistant Professor		14/07/2014	Regu lar	Yes		No
18	Mr.Anil Kumar.A	B M RP A1 53 3N	M.Tech	09/05/2015	Machine Design	1	0	0	Assistant Professor		14/07/2014	Regu lar	Yes		No

19	Mr.Harish.U	AC CP H9 96 1K	M.Tech	02/04/2012	Computer Aided Design	0	0	0	Assistant Professor		18/08/2014	Regu lar	Yes		No
20	Mr.Parashuram.A.Kut akanakeri	BJ PP K2 33 7F	M.Tech	22/09/2012	Energy Engineeri ng	0	0	0	Assistant Professor		21/01/2016	Regu lar	Yes		No
21	Ms.N.SreeSudha	AG W PN 24 57 N	M.Tech	27/11/2009	Industrial Engineeri ng & Managem ent	2	0	0	Assistant Professor		24/08/2016	Regu lar	Yes		No
22	Mr.BharathKumar.K.R	BB OP B5 93 4L	M.Tech	09/05/2015	Computer Integrated Manufactu ring	0	0	0	Assistant Professor		15/07/2016	Regu lar	Yes		No
23	Mr.Madhu.G	BL NP G3 47 8H	M.Tech	03/05/2014	Manufactu ring Science and Engineeri ng	0	0	0	Assistant Professor		02/08/2018	Regu lar	Yes		No

5.1 STUDENT-FACULTY RATIO (SFR) (20)

UG

Number of UG Programs in the Department: 1

Mechanical Engineering						
	CAY		CAYm1		CAYm2	
Year of Study	(2020-21)		(2019-20)		(2018-19)	
	Sanctioned Intake	Actual Admitted through lateral entry students	Sanctioned Intake	Actual Admitted through lateral entry students	Sanctioned Intake	Actual Admitted through lateral entry students
2nd Year	60	0	120	17	120	41
3rd Year	120	17	120	41	120	45
4th Year	120	41	120	45	120	40
Sub-total	300	58	360	103	360	126
Grand Total	358		463		486	

PG

No. of PG Programs in the Department: 1

Machine design			
Year of Study	CAY (2020-21)	CAYm1(2019-20)	CAYm2 (2018-19)
	Sanctioned Intake	Sanctioned Intake	Sanctioned Intake
1st Year	18	18	24
2nd Year	18	24	24
Total	36	42	48
Grand total	36	42	48

SFR

Number of UG Programs in the Department: 1

No. of PG Programs in the Department: 1

Description	CAY (2020-21)	CAYm1(2019-20)	CAYm2 (2018-19)
Total No. of Students in the Department (S)	358+36=394	463+42=505	486+48=534
No. of Faculty in the Department excluding first year faculty (F)	14	22	23
Student Faculty Ratio (SFR)	SFR1=394/14= 28.14	SFR2=505/22= 22.95	SFR3= 534/23=23.22
Average SFR=(SFR1+SFR2+SFR3)/3 = (28.14+22.95+23.22)/3= 24.77			

Note: STUDENT-FACULTY RATIO (SFR) (when Department applied for NBA accreditation)
UG

Number of UG Programs in the Department: 1

Mechanical Engineering						
	CAY		CAYm1		CAYm2	
Year of Study	(2019-20)		(2018-19)		(2017-18)	
	Sanctioned Intake	Actual Admitted through lateral entry students	Sanctioned Intake	Actual Admitted through lateral entry students	Sanctioned Intake	Actual Admitted through lateral entry students
2nd Year	120	17	120	41	120	45
3rd Year	120	41	120	45	120	40
4th Year	120	45	120	40	120	39
Sub-total	360	103	360	126	360	124
Grand Total	463		486		484	

PG

No. of PG Programs in the Department: 1

Machine design			
Year of Study	CAY (2019-20)	CAYm1(2018-19)	CAYm2 (2017-18)
	Sanctioned Intake	Sanctioned Intake	Sanctioned Intake
1st Year	18	24	24
2nd Year	24	24	24
Total	42	48	48
Grand total	42	48	48

SFR

Number of UG Programs in the Department: 1

No. of PG Programs in the Department: 1

Description	CAY (2019-20)	CAYm1(2018-19)	CAYm2 (2017-18)
Total No. of Students in the Department (S)	463+42=505	486+48=534	484+48 = 532
No. of Faculty in the Department excluding first year faculty (F)	21	23	21
Student Faculty Ratio (SFR)	$SFR1=505/21= 24.05$	$SFR2= 534/23=23.22$	$SFR3= 532/21=25.33$
Average SFR=(SFR1+SFR2+SFR3)/3 = (24.05+23.22+25.33)/3= 24.20			

5.1.1 Provide The Information About The Regular And Contractual Faculty As Per The Format Mentioned Below:

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY (2020-21)	12	2
CAYm1 (2019-20)	20	2
CAYm2 (2018-19)	22	1

Average SFR for three Assessment Years: 24.77

5.2 FACULTY CADRE PROPORTION (25)

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY 2020-21	2	0	4	3	13	9
CAYm1 2019-20	2	2	5	3	16	15
CAYm2 2018-19	2	3	5	1	17	18
Average Numbers	RF1= 2	AF1.67	RF2=4.67	AF2=2.33	RF3=15.33	AF3=14

$$\begin{aligned}
 \text{Cadre Ratio Marks} &= ((\text{AF1}/\text{RF1}) \times 1 + (\text{AF2}/\text{RF2}) \times 0.6 + (\text{AF3}/\text{RF3}) \times 0.4) \times 12.5 \\
 &= [0.835 + 0.3 + 0.365] \times 12.5 \\
 &= 18.75
 \end{aligned}$$

5.3 FACULTY QUALIFICATION (25)

Years	X	Y	F	FQ=2.5 x [(10X +4Y)/F]
(2020-21) CAY	4	9	19	10
(2019-20) CAYm1	5	16	25	11.4
(2018-19) CAYm2	4	19	26	11.15

Average Assessment = 10.85

5.4 FACULTY RETENTION (25)

Description	2019-20	2020-21
No. of Faculty Retained	20	12
Total No. of Faculty (2018-19)	23	23
% of faculty Retained	86.96	52.17

Average = 69.565

Assessment Marks = 15

5.5 INNOVATIONS BY THE FACULTY IN TEACHING AND LEARNING (20)

The faculty of mechanical engineering attends various training programs and MOOCS on advanced topics, update their knowledge and skills, and delivers additional inputs in the classes. Further, the faculty conducts various innovative teaching and learning activities inside and outside the classrooms to engage the students effectively and efficiently. The teaching and learning activities conducted by the faculty for the improvement of student learning includes:

- Teaching with working models, simulations and animated videos
 - Teaching with Model Demo, Charts etc.
 - Assignments which include seminars, mini projects and Case studies
 - Conduction of online and classroom quizzes, surprise class tests, group discussions, seminars, social awareness programmes etc.
- Usage of ICT, Pupilpod and institute website for posting assignments and lecture materials

A. AVAILABLE ON INSTITUTE WEBSITE

The instructional materials and photographs associated with these pedagogical activities are uploaded in Google drive and the associated links are made available under the tab “Teaching and Learning” on the institutional website (http://ksit.ac.in/mech_dept.html#teaching-learning) for public access, peer review, critique and further development.

Teaching and Learning

Instructional Materials

Academic Year: 2020-21

https://drive.google.com/drive/folders/1WMI4S-i4zC_gjuPeiiMVoamSmffE6oGC?usp=sharing

Academic Year: 2019-20

<https://drive.google.com/drive/folders/1PORXzeQUncXibPZlZEBmKntlRvbyKKvi?usp=sharing>

Academic Year: 2018-19

https://drive.google.com/drive/folders/1Lpnm5KnbXCMuw-8-o8r6IU_lpe1K-G0t?usp=sharing

Lab Manuals

<https://drive.google.com/open?id=1ociEFDEL5E5V8bTcM7zfWXwopxQIFNvW>

Pedagogical Activities

Academic Year: 2020-21

https://drive.google.com/drive/folders/1zzzK_h0AMQQ_OWExyKjOKT2F5dSqYDHG?usp=sharing

Academic Year: 2019-20

https://drive.google.com/drive/folders/13aqUUJ7X3foC_jcWobw8iFpoDhnnU2BO?usp=sharing

Academic Year: 2018-19

<https://drive.google.com/drive/folders/1i5KxfHt5FkBqQj8iNzLcnrD408TcG449?usp=sharing>

B & C. PEER REVIEW, CRITIQUE, AND FURTHER DEVELOPMENT

The peer review form associated with the pedagogical activities are made available under the tab tab “TEACHING AND LEARNING” on the institutional website (http://ksit.ac.in/me_dept.html#teaching-learning) for public access, peer review, critique and for further development.

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Pedagogy Review form

https://docs.google.com/forms/d/e/1FAIpQLSdm8NZlieFXSFczCljvxK0fe2lOKVLcOJenCeJ-vY7iKglJ4w/viewform?usp=pp_url

Review Responses Pedagogy Activities

<https://drive.google.com/drive/folders/1hcFo6E3g2z7-hm08tAVBFOzrZ-Yq6vDd?usp=sharing>

The details of all pedagogical activities and sample peer review form is shown in table 5.1, 5.2, 5.3.

Table 5.1: Details of Pedagogical activities in 2020-21

2020-21				
Reports of Pedagogical activities				
https://drive.google.com/drive/folders/1zzzK_h0AMQQ_OWExyKjOKT2F5dSqYDHG?usp=sharing				
Sl. No.	Name of the Faculty	Course Name	Semester/ Section	Activity Name
1	Mr.Rajesh G L	Elements of Mechanical Engineering	I /D	PPT on properties, composition and industrial applications of engineering materials
2	Mr.Manjunath B R	Metal Forming	V/A	Case studies on different types of forming process
3	Mr.Parashuram A K	Basic thermodynamics	III	PPT on psychrometry properties.
4	Dr .Naga prasad K.S.	Turbo Machine	V/B	Model prepared on rotar with blade
5	Mr.Rajesh G L	Elements of Mechanical Engineering	I/E	Demonstration on IC engine using cut section model
6	Mr.M.Umashankar	CAED	I/B	Planes and solids models.
7	Mr. Anilkumar A	Tribology	VII/A	PPT on demonstration of principle of wear
8	Dr.Nirmala.L	Kinematics of Machinery	IV /B	Use of Visual and demonstration in Kinematics of Machinery
9	Mr. Ranganath N	Elements of Mechanical Engineering	1 /A	PPT on properties, composition and industrial applications of engineering materials

Table 5.1: Details of Pedagogical activities in 2019-20

2019-20				
Reports of Pedagogical activities				
https://drive.google.com/drive/folders/13aqUUJ7X3foC_jcWobw8iFpoDhnnU2BO?usp=sharing				
Sl. No.	Name of the Faculty	Course Name	Semester/ Section	Activity Name
1	Mr. Ranganath N	Elements of Mechanical Engineering	I /A	PPT on properties, composition and industrial applications of engineering materials
2	Mr.Manjunath B R	Metal Forming	V/A	Case studies on different types of forming process
3	Mr.Parashuram A K	Energy Environment	V/B	Quiz
4	Mr. Nagaprasad K.S.	Turbo Machine	V/B	Model prepared on rotar with blade
5	Mr.Gowtham.G	Elements of Mechanical Engineering	I/G	Demonstration on IC engine using cut section model
6	Mr.M.Umashankar	CAED	I/B	Planes and solids models.
7	Mr. Harish.U	Tribology	VII/A	PPT on demonstration of principle of wear
8	Dr.Nirmala.L	Kinematics of Machinery	IV /B	Use of Visual and demonstration in Kinematics of Machinery
9	Mr. Naresha K	Industrial safety	VI/B	PPT presentation on the Accident case studies and interaction study. Assignment on the study the affect of COVED 19 Pandemic.
10	Mr. Naresha K	Product Life cycle Management	VIII/A	Presentation of Product life cycle stages and case studies interaction in the class room.
11	Mr. Naresha K	Mechatronics	VII/A	Presentation of Mechatronics system and case studies interaction in the class room.

12	Mrs.N.Sreesudha	Management& Engineering Economics	V/B	Mind map on the concept of Introduction to Management.
13	Dr Ajaykumar	Metal Cutting and Forming	III A&B	To interaction with the Machine tools

Table 5.1: Details of Pedagogical activities in 2018-19

2018-19				
Reports of Pedagogical activities				
https://drive.google.com/drive/folders/1i5KxfHt5FkBqQj8iNzLcnrD408TcG449?usp=sharing				
Sl. No.	Name of the Faculty	Course Name	Semester/ Section	Activity Name
1	Mr.Anilkumar A	Dynamics of Machinery	V/B	Case Studies on Static and Dynamic Balancing of Masses
2	Mr. Kaushik M M	Elements of Mechanical Engineering	II/B	Demonstration of Machine Tools (Lab Visit)
3	Mr.K V Manjunath	Fluid Power System	VII/A	Demonstration on Basic Layout of Hydraulic System
4	Mr. Nagaprasad K S	Basic Thermodynamics	III/C	Discussions on Basic Concepts of Thermodynamics
5	Mr. Anilkumar A	Kinematics of Machinery	IV /B	Case Studies on mechanisms
6	Mr. Bharath Kumar K R	Mechanical Measurements and Metrology	IV /B	Case Study on Measurement of Strain and Temperature
7	Mr.Parashuram A K	Automobile Engineering	VI/B	Demonstration on engine components & its principle parts
8	Mr. Gautham G	Product Life Cycle	VIII/B	PPT on Introduction of

				Product Life Cycle
9	Mr. Harish U	Computer Manufacturing Integrated	VI/B	PPT on introduction CIM, Automation and CAPP
10	Mr.Nagaprasad.K.S	Turbomachine	V /B	Demonstration of Velocity triangle using model
11	Mrs.Nirmala.L	Kinematics of Machinery	IV /A	Demonstration of Roberts Mechanism and Peaucellier Mechanism using models
12	Mr. Girish T R	Tribology	VII/A	PPT on demonstration of principle of wear
13	Mr. Naresha K	Non-Traditional Machining	V/A and B	Presentation on the NTM process and case studies demonstration
14	Mr. Naresha K	Mechanical Measurements and Metrology	IV /C	Presentation and interaction on the Measurement systems used in different fields of mechanical engineering.

Sample Copy of Peer Review Form

Peer Review Form (Innovative Teaching and Learning activities)

Department of ME, K. S. Institute of Technology, Bangalore

This form is automatically collecting email addresses for K.S.Institute Of Technology users. [Change settings](#)

Name of the feedback provider & Affiliation *

Short answer text

1. Name of the Pedagogy Conducting Faculty *

Short answer text

2. Academic Year *

☐ 2019-20
☐ 2018-19
☐ 2017-18

3. Semester *

☐ Even
☐ Odd

4. Subject *
Short answer text

5. Name of the Activity *
Short answer text

6. Statement of clear goals *

☐ Yes
☐ No
☐ Maybe

7. Adequate preparation *

☐ Yes
☐ No
☐ Maybe

8. Use of appropriate methods *

☐ Yes
☐ No
☐ Maybe

9. Significance of results/Outcomes *
Short answer text

10. Critique/Suggestions for improvement

Short answer

Short answer text

Required

D. STATEMENT OF CLEAR GOALS, USE OF APPROPRIATE METHODS, SIGNIFICANCE OF RESULTS, EFFECTIVE PRESENTATION AND REFLECTIVE CRITIQUE

The pedagogy report and responses include details such as statement of clear goals, use of appropriate methods, significance of results, effective presentation, and reflective critique. A sample pedagogy report is shown below:

Sample Pedagogy Report



K .S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

DEARTMENT OF MECHANICAL ENGINEERING

TEACHING AND LEARNING

PEDAGOGY REPORT

PEDAGOGY REPORT

Academic Year	2020-21 ODD Semester
Name of the Faculty	Mr. RAJESH GL
Course Name /Code	Elements of Mechanical Engineering [EME]
Semester/Section	1 st / D & E
Activity Name	Demonstration on i. Working of IC engines using cut section models/Video sessions ii. Machine tools, operations performed on lathe and milling machine iii. Metal joining using electric arc welding process.
Topic Covered	Heat engines, Machine tools and Joining of engineering materials
Date	i. 15 th February 2021 ii. 6 th March 2021 iii. 19 th March 2021
No. of Participants	118
Objectives/Goals	<ul style="list-style-type: none"> ❖ To understand the working principle of 2 stroke & 4 stroke IC engine ❖ To discuss the various lathe and milling operations. ❖ To recognize the importance of arc generation in metal joining process.
ICT Used	PPT, videos-cut section models of IC engine, visit to machine shop and workshop.
Appropriate Method/Instructional materials/Exam Questions. <ul style="list-style-type: none"> ❖ Working principle of 2-s and 4-s IC engine by using cut Section model. ❖ Visit to machine shop/ live demo on lathe and milling operations. ❖ Visit to workshop/live demo on arc welding process. 	
Relevant PO's	PO1,PO3,PO5,PO6,PO7,PO12
Significance of Results/Outcomes	<ul style="list-style-type: none"> ❖ Students understood the different types of metal joining process. ❖ Students showed interest towards fabrication of IC engine parts and accessories ❖ Students came to know the specific applications of lathe operation. ❖ Students were able to distinguish machine tool with advanced manufacturing system like CNC's etc. ❖ Students came to know how gear teeth are cut using horizontal milling machine. ❖ Students understood the concept and use of tool nomenclature in manufacturing industries.
Reflective Critique	<ul style="list-style-type: none"> ❖ Students attended few part programming courses and acquired knowledge on G and M codes. ❖ Students showed interest towards NPTEL online courses related to metal joining process. ❖ Students enquired on demonstration of CNC machine. ❖ Students gained thorough knowledge on working of 4-s and 2-s engines and its parameters. ❖ Students were able to distinguish between petrol, diesel and gas engines. ❖ Students showed interest towards developing a cut section model of IC engines. ❖ Students were able to identify different types of engineering materials and its application area.

Proofs (Photographs/Videos/Reports/Charts/Models)



Cut section model of (a) 2-s and (b) 4-s petrol engine



Demonstration on various operations performed on lathe and milling machine



Demonstration on arch welding process

Signature of Course In charge

Signature of HOD ME

5.6 FACULTY AS PARTICIPANTS IN FACULTY DEVELOPMENT/TRAINING ACTIVITIES/STTPS (15)

Sl. No.	Name of the Faculty	CAY (2020-21)	CAYm1 (2019-20)	CAYm2 (2018-19)
1	Dr. K. RAMA NARASIMHA	-	-	-
2	Mr. UMASHANKAR. M	5	3	3
3	Dr. B. S. AJAY KUMAR	-	-	3
4	Mr. M. NAGABHUSHANA	3	3	3
5	Dr BALAJI .B	-	-	-
6	Mr. K. PRASAD	5	3	3
7	Mr. NAGAPRASAD .K.S	3	3	3
8	Dr. GIRISH SHASTRY .T.R	5	3	3
9	Mrs. L. NIRMALA	5	5	3
10	Mr. ABHISHEK.M R	-	-	-
11	Mr. K.V. MANJUNATH	-	3	5
12	Mr. MURULIDHAR .K.S	-	5	3
13	Mr. MANJUNATH .B.R	3	3	3
14	Mr. RANGANATH .N	3	5	3
15	MR.MALLIKARJUNA.M.R	-		
16	Mr. NARESH A K	-	3	3
17	Mr. ANIL KUMAR A	5	3	3
18	Mr. HARISH .U	3	5	3
19	Mr. PARASHURAM .A.K	3	3	5
20	Mrs. N. SREE SUDHA	-	5	3
		3		3
21	Mr. BHARATH KUMAR .K .R		5	
22	Mr. MADHU G	-	5	3
23	Mr. KAUSHIK M M	-	3	3

24	Mr. GAUTHAM S	5	3	3
25	Mr. GANESH A BHARGAV	-	-	-
26	Mr. TEJASWINI M L	3	5	-
27	Mr. AMRUTH K	-	5	3
28	Mr. RAJESH G L	5	-	-
29	Mr. SALEEM KHAN	3	-	-
Sum		62	81	70
RF= Number of Faculty required to comply with 20:1 Student-Faculty ratio as per 5.1		19.7	25.25	26.7
Assessment = 3 × (Sum/0.5RF) (Marks limited to 15)		18.88	19.24	15.73
Average assessment over three years (Marks limited to 15) =17.95				

Average Assessment over 3 years = 15

5.7 RESEARCH AND DEVELOPMENT (30)

5.7.1 ACADEMIC RESEARCH (10)

The faculty of the ME department are actively engaged in research in the areas of IC engines, Thermal management, composite materials, Nano particles etc total **48** research articles were published and presented by the faculty in various technical journals and conferences in the past 3 years. The summary and details of these publications are mentioned in table 5.4 to 5.8.

Table 5.4 Summary of Publications

Sl. No.	Academic year	Journals		Conferences		Total
		International	National	International	National	
1	2020-2021	5	2	-	-	7
2	2019-2020	10	-	2	-	12
3	2018-2019	15	-	3	-	18
4	2017-2018	10	-	1	-	11
Total		40	2	6	-	48

Table 5.5 Journal publications (2020-2021)

ACADEMIC YEAR 2020-21

Details of research publications			
https://drive.google.com/drive/folders/1MJBqSv1oW8-AOw-NsbtvX40XgUh6TBLF?usp=sharing			
Journal publications			
Sl. No	Name of the Faculty	Title of the Paper	Publication Details (Journal name, Vol., No., pp, month & year, DOI, ISSN:), Impact Factor: Indexed in SCI/Scopus/UGC, No. of Citations
1	Dr Saleem khan	Dry sliding friction & wear behavior of hot extruded AL6061/Si3N4/Cf hybrid metal matrix composite	JMEMPEG(2020) 29;4474- 4483 http://doi.org/10.1007/s11665-020-04940-5
2	Mr. Harish U	Evaluation of hot corrosion behavior of HVOF thermally sprayed Cr3C2-35NiCr coating on SS 304 boiler tube steel	Advanced Trends in Mechanical and Aerospace Engineering ATMA , Volume 2316, Issue 1, Online Published
3	Mr. Harish U	Effect of the coating material compositions on the life of gas turbine hot section components	Advanced Trends in Mechanical and Aerospace Engineering ATMA , Volume 2316, Issue 1, Online Published
International conference publications			
Sl. No	Name of the Faculty	Title of the paper	Title of the Conference, Place, Dates, Year, pp. ISBN/ISSN: SCI/Scopus/UGC Indexed Link, No. of Citations
1	Umashankar M	Influence of Ni particulate reinforcement on morphological and mechanical properties of ZA-27 alloy composites	Solid State Technology, Volume 63, Issue 25, 2020, PP - 5617 -5632
2	Dr. Nagaprasad K S	Effect Injecting Urea and DEE solution at exhaust pipe of Diesel engines with DPF and DOC	International Journal of Lab Technology in By Management & Applied Science, IJLTEMA July 2020
3	Dr. Nagaprasad K S	Emission Reduction of Diesel Engine by using DPF, Doc and Injecting Hydrazine Hydraulic in exhaust pipe	International Journal of Mechanical By and Research IJMER, June 2020
4	Dr. Girish T R	'Investigation of Mechanical properties of hybrid composites using Hemp & Aramid'	International Journal of rar VOL 7, July 2020, ISSUE 3
5	Prasad K	Security and authentication for IoT devices	International journal of innovative science , engineering & Technology Vol 8 issue 3 march 2021

Table 5.6 Journal publications (2019-2020)

ACADEMIC YEAR 2019-20

Details of research publications https://drive.google.com/drive/folders/1BfZhsa2SRsSI_movUL13_18R2oLkYfi6?usp=sharing			
Journal publications			
Sl. No	Name of the Faculty	Title of the Paper	Publication Details (Journal name, Vol., No., pp, month & year, DOI, ISSN:), Impact Factor: Indexed in SCI/Scopus/UGC, No. of Citations
1	Dr. B.S. Ajaykumar	Effect of deep cryo treatment on hardness and tensile strength of Al 6061-SiC composites	International journal of applied Engineering Research, Vol.14, pp-3335-3339, 2019 Source: UGC Approved Journal - 2017 (Journal No. - 64529) https://www.ripublication.com/ijaer19/ijaerv14n15_04.pdf (https://www.ripublication.com/ijaer19/ijaerv14n15_04.pdf)
2	Dr. Girish. T.R	Effect of deep cryo treatment on hardness and tensile strength of Al6061-SiC composites	International journal of applied Engineering Research, Vol.14, pp-3335-3339, 2019 Source: UGC Approved Journal - 2017 (Journal No. - 64529) http://ripublication.com/ijaer19/ijaerv14n14_25.pdf (http://ripublication.com/ijaer19/ijaerv14n14_25.pdf)
3	Dr. B.S. Ajaykumar	Effect on Mechanical and Structural Properties of Rolled Aluminium Alloy 6082 by Using Friction Stir Processing with Silicon Carbide as Particulate Matter	International Journal of Applied Engineering Research. ISSN: 0973-4562 Vol.14, issue 14, pp. 3301-3303, 2019 Source: UGC Approved Journal - 2017 (Journal No. - 64529) http://ripublication.com/ijaer19/ijaerv14n14_25.pdf (http://ripublication.com/ijaer19/ijaerv14n14_25.pdf)
4	Mr. Nagaprasad .K.S	Effect on Mechanical and Structural Properties of Rolled Aluminium Alloy 6082 by Using Friction Stir Processing with Silicon Carbide as Particulate Matter	International Journal of Applied Engineering Research Vol.14, issue 14, pp. 3301-3303, 2019 Source: UGC Approved Journal - 2017 (Journal No. - 64529) http://ripublication.com/ijaer19/ijaerv14n14_25.pdf (http://ripublication.com/ijaer19/ijaerv14n14_25.pdf)
5	Mr. Nagaprasad .K.S	Pre- and post-combustion emission reduction techniques for engine fuelled with diesel/DEE blends by	Taylor & Francis, pp-1-18, 2019 Journal energy resources, part-A Scopus indexed. Impact factor- 0.894 https://www.researchgate.net/publication/335831824_Pre_and_post-

		three approaches	combustion_emission_reduction_techniques_for_engine_fuelled_with_dieselDEE_blends_by_three (https://www.researchgate.net/publication/335831824_Pre-_and_post-combustion_emission_reduction_techniques_for_engine_fuelled_with_dieselDEE_blends_by_three)
6	Mr.K.V.Manjunath	Wear characteristics of Polymer Hybrid Composites manufactured by Hand layup and Vacuum bagging technique	International Journal of New Innovations in Engineering and Technology, Vol. 13 Issue 4, 2020 UGC Approved journal-47645,impact factor-4.012 http://www.ijniet.org/wp-content/uploads/2020/03/21.pdf (http://www.ijniet.org/wp-content/uploads/2020/03/21.pdf)
7	Mr.K.V.Manjunath	Comparative study of Mechanical properties of Hybrid composites using Carbon Fiber with Jute and Hemp.	International journal of Engineering Research &Technology, Vol.8, Issue 10,pp.1-8,2019 https://www.ijert.org/research/comparative-study-of-mechanical-properties-of-hybrid-composites-using-carbon-fiber-with-jute-and-hemp-IJERTV8IS100251.pdf (https://www.ijert.org/research/comparative-study-of-mechanical-properties-of-hybrid-composites-using-carbon-fiber-with-jute-and-hemp-IJERTV8IS100251.pdf)
8	Mr.Anil kumar.A	Experimental and numerical investigations on effect of radius of curvature on frequency response of open cylindrical shells subjected to different boundary conditions	Journal of Adv. Research in Dynamical & Control Systems, Vol.11, issue 08,pp.1592-1603,2019 Scopus indexed https://www.jardcs.org/abstract.php?id=2243 (https://www.jardcs.org/abstract.php?id=2243)
9	Mrs. N.Sreesudha	Investigation of microstructural, tensile and hardness characteristics of Aluminium 2024 alloy based Metal Matrix Composites	International Journal of New Innovations in Engineering and Technology, Vol. 13 Issue 3,2020 UGC Approved journal-47645,impact factor-4.012 http://www.ijniet.org/wp-content/uploads/2020/04/11.pdf (http://www.ijniet.org/wp-content/uploads/2020/04/11.pdf)
10	Mr. Rajesh .G.L	Studies on Dry Sliding Wear Characteristics of Cermet WC-Co Particulate Reinforced Al7075 Metal Matrix Composite	Materials Today: Proceedings, Vol.16, issue 2, pp.343–350,2019 Scopus indexed. https://www.sciencedirect.com/science/article/pii/S214785319309459 (https://www.sciencedirect.com/science/article/pii/S214785319309459)

International conference publications			
Sl. No	Name of the Faculty	Title of the paper	Title of the Conference, Place, Dates, Year, pp. ISBN/ISSN: SCI/Scopus/UGC Indexed Link, No. of Citations
1.	Mr. Rajesh .G.L	The wear properties of Ceramic B4C / Al matrix composite at elevated temperature under dry sliding.	AIP conference proceedings, Vol.2204, issue 1,2020 Scopus indexed https://www.researchgate.net/publication/338528709_The_wear_properties_of_ceramic_B4C_Al_matrix_composite_at_elevated_temperature_under_dry_sliding (https://www.researchgate.net/publication/338528709_The_wear_properties_of_ceramic_B4C%20%C2%A0%C2%A0Al_matrix_composite_at_elevated_temperature_under_dry_sliding)
2	Mr. Ranganath. N	Performance improvement on Bio polymer Nano composites	International journal of Engineering Research & Technology, Vol 7,issue 09,2019 NCRAEM-2019 https://www.ijert.org/research/performance-improvement-on-biopolymer-nanocomposites-IJERTCONV7IS09003.pdf (https://www.ijert.org/research/performance-improvement-on-biopolymernanocomposites-IJERTCONV7IS09003.pdf)

Table 5.7 Journal publications (2018-2019)

ACADEMIC YEAR 2018-19

Details of research publications https://drive.google.com/drive/folders/1A0F8R5NPwlrtsBROYJuTi384k4h9E2S_?usp=sharing			
Book publications			
Journal publications			
Sl. No	Name of the Faculty	Title of the Paper	Publication Details (Journal name, Vol., No., pp, month & year, DOI, ISSN:), Impact Factor, Indexed in SCI/Scopus/UGC, No. of Citations
1	Dr.T.V.Govindaraju	Design and Testing of an Active Magnetic Bearing	International journal of advance research in science and Engineering, Vol.6,issue 10,2017 https://www.ijarse.com/images/fullpdf/1507203416_IETEBanglore_210.pdf (https://www.ijarse.com/images/fullpdf/1507203416_IETEBanglore_210.pdf)

2	Dr. B.S. Ajaykumar	Design and Testing of an Active Magnetic Bearing	International journal of Vehicle structures & systems, Vol.10, No 4, 2018 Scopus indexed journal http://www.maftree.org/eja/index.php/ijvss/article/view/1094 (http://www.maftree.org/eja/index.php/ijvss/article/view/1094)
3	Dr. B.S. Ajaykumar	Effect of cutting speed on generation of heat at work tool interface of copper based silver and brass alloy	International journal of Mechanical and Production Engineering Research and Development, Vol.8, issue 3, pp.911-914 Scopus indexed Journal https://www.researchgate.net/publication/326464177_Effect_of_Cutting_Speed_on_Generation_of_Heat_at_Work-Tool_Interface_of_Copper_based_Silver_and_Brass_Alloys (https://www.researchgate.net/publication/326464177_Effect_of_Cutting_Speed_on_Generation_of_Heat_at_Work-Tool_Interface_of_Copper_based_Silver_and_Brass_Alloys)
4	Mr. Nagaprasad K.S	Effects of Using Diesel Particulate Filter and Diesel Oxidation Catalyst Ignition Engine Fuelled with Diesel-Di Ethyl Ether Blend.	European journal of Sustainable development, Vol. 2, issue 3, pp.1-14, 2018 Scopus indexed journal https://www.researchgate.net/publication/325352716_Effects_of_Using_Diesel_Part particulate_Filter_and_Diesel_Oxidation_Catalyst_with_Exhaust_Gas_Recirculation_on_the_Performance_of_Compression_Ignition_Engine_Fuelled_with_Diesel-Di_Ethyl_Ether_Blend (https://www.researchgate.net/publication/325352716_Effects_of_Using_Diesel_Part particulate_Filter_and_Diesel_Oxidation_Catalyst_with_Exhaust_Gas_Recirculation_on_the_Performance_of_Compression_Ignition_Engine_Fuelled_with_Diesel-Di_Ethyl_Ether_Blend)
	Dr. B.S. Ajaykumar	HVOF sprayed Ni ₃ Ti and Ni ₃ Ti _p (Cr ₃ C ₂ p ₂₀ NiCr) coatings: Microstructure, microhardness and oxidation behaviour	Journal of Alloys and Compounds , Vol.736 ,pp. 236-245, 2018 ISSN: 0975-3540 Scopus indexed journal https://maftree.org/eja/index.php/ijvss/article/view/1094 (https://maftree.org/eja/index.php/ijvss/article/view/1094)

5	Mr. M. Umashankar	Vertical Takeoff and Landing (VTOL) aircraft using Tiltrotor Mechanism	International Journal on Recent Technologies in Mechanical and Electrical Engineering (IJRMEE), Vol. 5, issue 2, pp.1-4, 2018 https://pdfs.semanticscholar.org/53fa/529c5eee2308acbb76da53c53643fa091e71.pdf (file:///C:/Users/Veeru/Desktop/%C2%A0%C2%A0%C2%A0https://pdfs.semanticscholar.org/53fa/529c5eee2308acbb76da53c53643fa091e71.pdf)
6	Mr. M. Umashankar	Proportional Integral Derivative Controller on Boilers Temperature and Flow Control Parameters	International Journal of Pure and Applied Mathematics Vol. 119, issue 14, pp.173-177, 2018 https://acadpubl.eu/hub/2018-119-14/articles/3/91.pdf (https://acadpubl.eu/hub/2018-119-14/articles/3/91.pdf)
7	Mr. K.V. Manjunath	Studies on Mechanical properties of Hybrid composites using Jute and E-Glass by Hand lay up and vacuum bagging technique	Global Journal of Engineering Science and Research, Vol.6, issue 2, pp.135-141, 2018 Impact factor -5.070 UGC approved journal 2017 (Journal no.-64316) http://www.gjesr.com/Issues%20PDF/Archive-2019/February-2019/20.pdf (http://www.gjesr.com/Issues%20PDF/Archive-2019/February-2019/20.pdf)
8	Mr. Murulidhar .K.S	Study on Desalination and controlling of heavy metal Ion pollution using Graphene oxide	International Journal of Management Technology and Engineering, Vol. 8, Issue 10, pp.664-671, 2018 UGC approved journal 2017, (Journal no.-45550) Impact factor- 6.3 http://ijamtes.org/gallery/94.oct%20ijmte%20-%20cw.pdf (http://ijamtes.org/gallery/94.oct%20ijmte%20-%20cw.pdf)
9	Mr. Murulidhar .K.S	Construction of Indoor positioning system using Trilateration and RFFI Finger prints	International Journal of Management Technology and Engineering, vol.8, issue 10, pp.688-694, 2018 UGC approved journal 2017, Impact factor- 6.3, (Journal no.-45550) http://ijamtes.org/gallery/98.oct%20ijmte%20-%20cw.pdf (http://ijamtes.org/gallery/98.oct%20ijmte%20-%20cw.pdf)
10	Mr. Murulidhar .K.S	Emission control and fuel efficient by using Aurdino based self regulating Bio mass stove	International Journal of Management Technology and Engineering, vol.8, issue 10, pp.378-391, 2018 UGC approved journal 2017, Impact factor- 6.3, (Journal no.-45550) http://ijamtes.org/gallery/57.oct%20ijmte%20-%20cw.pdf (http://ijamtes.org/gallery/57.oct%20ijmte%20-%20cw.pdf)

11	Mr. Ranganath. N	Optimization of process parameters of Cryogenic treatment on Al/Al ₂ O ₃ , Metal matrix composites by Taguchi method for Tensile Strength.	Periodicals of Engineering and Natural Sciences, Vol 6,issue 2,2018 Scopus indexed journal http://pen.ius.edu.ba/index.php/pen/article/view/267 (http://pen.ius.edu.ba/index.php/pen/article/view/267)
12	Mr. Ranganath. N	Characterization of Mechanical and Thermal properties of Bio polymer Nanocomposites	International journal of Engineering Research & Technology, Vol 7, Issue 12, pp.1-8,2018 https://www.ijert.org/characterization-of-mechanical-and-thermal-properties-of-biopolymer-nanocomposites (https://www.ijert.org/characterization-of-mechanical-and-thermal-properties-of-biopolymer-nanocomposites)
13	Mr. Ranganath. N	Characterization of Biodegradable Polymer Subjected Solvent Mixture	International journal of Engineering Research & Technology, Vol 7, Issue 12,pp.97-102,2018 https://www.ijert.org/characterization-of-biodegradable-polymer-subjected-to-different-solvent-mixture (https://www.ijert.org/characterization-of-biodegradable-polymer-subjected-to-different-solvent-mixture)
14	Mr. Rajesh .G.L	High Temperature Wear Properties of Artificially Aged 6061AlB ₄ CpMetal Matrix Composite	Materials Today Proceedings, Vol.5,issue 8,pp.16080–16084,2018 Scopus indexed https://www.sciencedirect.com/science/article/pii/S2214785318310435 (https://www.sciencedirect.com/science/article/pii/S2214785318310435)
15	Mr. Rajesh .G.L	Tensile and Compression Behaviour of Boron Carbide Reinforced 6061Al MMC's processed through Conventional Melt Stirring	Materials Today Proceedings, Vol 5,issue 8,pp.16141–16145,2018 Scopus indexed https://www.sciencedirect.com/science/article/pii/S2214785318310551 (https://www.sciencedirect.com/science/article/pii/S2214785318310551)

International conference publications			
Sl. No .	Name of the Faculty	Title of the paper	Title of the Conference, Place, Dates, Year, pp. ISBN/ISSN: SCI/Scopus/UGC, Indexed Link, No. of Citations
1	Mr. K.V. Manjunath	Comparative study on Mechanical properties of Hybrid composites using Hemp and E-Glass by Hand lay up& Vacuum bagging techniques	ICETEISM-2019, East West Institute of Technology,pp.202-205,2019 http://www.ijesr.org/admin/upload_journal/conf_journal_ICETEISM%20%2042.pdf (http://www.ijesr.org/admin/upload_journal/conf_journal_ICETEISM%20%
2	Mr. Murulidhar .K.S	Performance analysis of constant and taper blade for steam turbine by using CFD.	ICETEISM-2019, East West Institute of Technology,pp.151-155,2019 http://www.ijesr.org/admin/upload_journal/conf_journal_ICETEISM%20%2032.pdf (http://www.ijesr.org/admin/upload_journal/conf_journal_ICETEISM%20%2032
3	Mrs. N. Sreesudha	Evaluation of Tensile and Hardness characteristics of Aluminium 2024 alloy based MMCs	ICETEISM-2019, EastWest Institute of Technology, pp.178-180,2019 http://www.ijesr.org/admin/upload_journal/conf_journal_ICETEISM%20%2037.pdf (http://www.ijesr.org/admin/upload_journal/conf_journal_ICETEISM%20%

B. Ph.D. GUIDED /Ph.D. AWARDED DURING THE ASSESSMENT PERIOD WHILE WORKING IN THE INSTITUTE (4)

- The faculty of the ME department are actively engaged in research in the areas of IC engines, Thermal management, composite materials, Nano particles etc
- The ME department has an R & D Center affiliated by Visveswaraya Technological University (VTU). The R & D Center is empowered with **9 Research Guides** and **16 Research Scholars**, actively engaged in research in the areas of IC engines, Thermal management, composite materials, Nano particles etc .The R & D Lab is well equipped with Wi-Fi facility with un-interrupted power supply.

Table 5.8 Ph.D. guided / Awarded during the assessment period while working in the Institute

Sl. No.	Name of the Guide	Name of the Scholar	Title of Thesis	University	Year of completion
1	Dr.T.V.Govinda Raju	Madhura.S	Feasibility studies on utilization of Hall Magnetic Sensor for active magnetic bearing applications	VTU	2019

Table 5.9 Ph.D. Ph.D. awarded during the assessment period while working in the Institute

Sl. No.	Name of the Faculty	Title of Thesis	University	Year of completion
1	Mr.Umashankar.M	Tribological studies on zinc aluminium cast alloys	VIT	16/7/2021
2	Mr.Saleem Khan	Development of hybrid Al6061-Si3 –C4 metal matrix composite	JNTU (Hyderabad)	18/02/2021
3	Mrs Nirmala L	Studies on abrasive wear , corrosion resistance& micro structural properties of ZA27 nickel alloy	JNTU (Ananthpura)	24/08/2019
4	Mr.Nagaprasad K S	A study on effect of fluid injection on diesel engine performance & emissions	VTU	08/02/2020
5	Mr.Girirsh T R	Development and characterization of hybrid composite using jute and glass fiber	VTU	03/11/2018

Table 5.10. Ph.D. guidance during the assessment period while working in the Institute

Faculty Guiding PhD	Sl. No	Name of the Research Scholar	Year of Registration	Course Work [Y/N]	Comprehensive Viva	Submitted Final Thesis [Y/N]
Dr.T.V.Govinda Raju	1	Mrs. Madhura.S	Dec 2012	Y	Y	Y
	2	Mr. Yogendra Mahajan	Dec 2014	Y	Y	N
	3	Mrs. Shilpa.A	Dec 2016	Y	Y	N
Dr.K.RamaNarasimha	1	Mr Parashuram A K	Dec 2018	Y	N	N
	2	Mr Karthik R	Dec 2018	Y	N	N
	3	Mr Vikhan.G.V	Dec 2018	N	N	N
Dr.B.S.Ajay Kumar	1	Mrs.Preethi .K.H	Dec 2014	Y	Y	N
	2	Mrs.Mrudula	Dec 2015	Y	Y	N
	3	Mr.G.T.Gopala Krishna	Dec 2015	Y	Y	N
	4	Mr.Avinash	Dec 2017	Y	N	N
	5	Mr.Madhu.G	June 2017	Y	N	N
	6	Mrs.Ranjitha	Dec 2017	Y	N	N

Table 5.11 Status of department faculty pursuing PhD in ME Department R & D Centre

Sl. No	Guide	Name of the Research Scholar	Year of Registration	Course Work [Y/N]	Comprehensive Viva [Y/N]	Submitted Final Thesis [Y/N]	PhD Awarded
1	HemadriNaidu.N	ME	Dec 2009	Y	Y		Yes
2	Abhinav	ME	Dec 2010	Y	Y		Yes
3	Anil Kumar.S	ME	Dec 2011	Y	Y		Yes
4	Madhura.S	ME	Dec 2012	Y	Y		Yes
5	Abhishek.M.R	ME	Dec 2014	Y	Y	Y	
6	Yogendra Mahajan	ME	Dec 2014	Y	Y	N	
7	K.V.Manjunath (Transferred from KSIT to VVIT in Aug 2020)	ME	Dec 2015	Y	Y	N	
8	N.Sreesudha	ME	Dec 2015	Y	Y	N	
9	Manjunath . B .R	ME	Dec 2015	Y	N	N	
10	Ranganath N	ME	Dec 2016	Y	N	N	
11	Parashuram. A K	ME	Dec 2017	Y	N	N	

12	Karthik R	ME	Dec 2017	Y	N	N	
13	Vikhan.G.V	ME	Dec 2018	N	N	N	

Table 5.12 Status of department faculty pursuing PhD in other R & D centres/ Universities

Sl. No.	Name of the Research Scholar	University	Year of Registration	Course Work [Y/N]	Comprehensive Viva [Y/N]	Submitted Final Thesis [Y/N]	Awarded
1	Mr.Umashankar.M (USN:13PHD1135)	VIT	July 2013	Y	Y	Y	Y
2	Mr.Prasad.K (USN: 5VX12MPN22)	VTU	Oct 2012	Y	Y	N	N
3	Mr.Murulidhar.K.S (USN:1MS15PMJ06)	VTU	Dec 2014	Y	Y	N	N
4	Mr.K.V.Manjunath (USN:1KS16PMJ01)	VTU	Dec 2015	Y	Y	N	N
5	Mr.Anil kumar.A (USN:1BM16PMJ05)	VTU	Dec 2015	Y	Y	N	N
6	Mr.Harish.U (USN:1JS17PMA08)	VTU	Dec 2016	Y	N	N	N
7	Mr.Naresha.K (USN:1JS19PME03)	VTU	Dec 2018	Y	N	N	N
8	Mr.Saleem Khan (USN:0903PH1526)	J.N.T.U.H	July 2009	Y	Y	Y	Y
9	Mr.Rajesh.G.L (USN:1IS13PMJ05)	VTU	Oct 2013	Y	Y	N	N

5.7.2 SPONSORED RESEARCH (5)

2020-21 (CAY)

https://drive.google.com/drive/folders/1dIw1BzgI3cCyLWIXEylqKk6rb58viZ_b?usp=sharing

Project Title	Duration	Funding Agency	Amount (Rs.)
Fabrication of Portable Shredding and Composting Device for Kitchen & Garden Waste	6 months	KSCST	6000/-
Fabrication & Performance testing of portable Archimedes screw micro hydro generator	6 months	KSCST	6000/-
Design & Development of zero lag turbocharger to increase engine efficiency and to reduce air pollution	6 months	KSCST	6500/-
Automatic disinfectant system	6 months	KSCST	6000/-
		Total Amount (X)	24500/-

2019-20 (CAYm1)

<https://drive.google.com/drive/folders/17K8WszJjGbGdgsLVI5cRUocTbs-Ax3UN?usp=sharing>

Project Title	Duration	Funding Agency	Amount (Rs.)
Design & fabrication of solid waste collector & water de-forsing device	6 months	KSCST	5000/-
Emission reduction of diesel engine by using DPF, DOC and injecting diesel exhaust fluid in exhaust pipe	6 months	KSCST	6500/-
Propulsion of turbojet engine using HHO gas generated from water by HHO generated	6 months	KSCST	5000/-
Design & Automation of new trend feed system to enhance growth rate in hydroponics	6 months	KSCST	5000/-
		Total Amount (Y)	21500/-

2018-19 (CAYm2)

<https://drive.google.com/drive/folders/14xZH0rFtexGrDzzug7apRlhIIWaxiMaI?usp=sharing>

Project Title	Duration	Funding Agency	Amount (Rs.)
Thermal Management of Electronic Equipments Using Oscillating Heat Pipes with Binary Mixture of working fluids.	6 months	KSCST	6000/-
Design and Construction of an Integrated Domestic Organic Waste Composting Device.	6 months	KSCST	6000/-
Dual Powered Water Purification System	6 months	KSCST	6000/-
Design and Construction of an Integrated Domestic Organic Waste Composting Device.	6 months	VTU	5000/-
Dual Powered Water Purification System	6 months	VTU	5000/-
		Total Amount (Z)	28000/-

Cumulative Amount (X+Y+Z)= Rs. 74000/-
Assessment=2 Marks

5.7.3. DEVELOPMENT ACTIVITIES

A. PRODUCT DEVELOPMENT

Table 5.13: Product Development

Sl.No.	Faculty Name	Product Name
1	Dr.Madhura.S	Active Magnetic Bearing system
2	Dr Nagaprasad.K.S	Off Track Buggy for BAJA competitions
3	Parashuram A K	Pulsating Heat pipe test rig

B. RESEARCH LABORATORIES

- The Department of Mechanical Engineering has a Research Centre affiliated to Visveswaraya Technological University (VTU), Belgaum. 16 Research Scholars have registered under 9 guides.
- The research centre provides required facilities for carrying out research work for scholars and for doing UG projects.

Equipment's in R&D Laboratory:

Emission measuring device sponsored from VGST.

Pin on Disc Wear testing machine.

Melting electric furnace with control panel.

Heat pipe test rig

Software in R&D and Project Laboratories

Ansys software version 19

E-Resources

IEEE- Online (e-Journals) <http://ieeexplore.ieee.org/> (<http://ieeexplore.ieee.org/>)

Springer e-Journals <http://link.springer.com> (690 journals)

Elsevier Science Direct <http://www.sciencedirect.com> (<http://www.sciencedirect.com/>) (304 journals)

Taylor and Francis (555 Journals,4950 E-books)

Institution of Civil Engineers (31 journals)

Mc Graw Hill Education (505 E-books)

New Age International (220 E-books)

Packt(5002 E-books)

Knimbus (E-Journals: 5700+ E-Books: 10,000+)

Table 5.14 Ph.D. Awarded under ME R & D Centre, KSIT, Affiliated to VTU

Sl. No.	Name of the Guide	Name of the Scholar	Title of Thesis	University	Year of completion
1	Dr.Chennakeshavulu	Hemadri Naidu.N	Process optimization of Tungsten Inert Gas (TIG) welding to improve Mechanical and corrosion resistant properties of Aluminium alloys.	VTU	2018
2	Dr.N.C.MahendraBabu	Anil Kumar.S	Fatigue life extension of noncircular cut-outs through cold expansion.	VTU	2019
3	Dr.T.V.GovindaRaju	Madhura.S	Feasibility studies on utilization of Hall Magnetic Sensor for active magnetic bearing applications	VTU	2019
4	Dr.N.Krishnamurthy	Abhinav	Investigations on Plasma Sprayed Alumina and Calcia stabilized Zirconia functionally graded composite coatings.	VTU	2020

Table 5.15. Ph.D. Registrations under ME R & D Centre, KSIT, Affiliated to VTU

Sl. No.	Year of Registration	Name of Scholar	Guide	Title
1	2014 Dec	Abhishek.M.R	Dr.P.M.Suresh	A study of fiber reinforced composites by adding shear thickening fluid to evaluate mechanical property.
2	2014 Dec	Yogendra Mahajan	Dr.T.V.GovindaRaju	Synthesis, Characterization and Testing of functional materials for additive manufacturing techniques.
3	2015 Dec	K.V.Manjunath	Dr.N.Krishnamurthy	Investigations on fibre reinforced hybrid composites using conventional techniques
4	2015 Dec	Manjunath .B. R	Dr.N.Srinivas Reddy	Development and characterization of natural epipremnum-aureum/sisal fiber reinforced hybrid thermoplastic polymers.
5	2015 Dec	N.Sreesudha	Dr.N.Krishnamurthy	Mechanical Characterization of heat treated Aluminium based Metal Matrix Composites.
6	2016 Dec	Ranganath.N	Dr.Panchashari.H.V	Synthesis and characterization of poly lactic acid based composite with metal alloys
7	2017 Dec	Parashuram A K	Dr.K.RamaNarasimha	Experimental and theoretical studies on oscillating heat pipes using binary mixture of the fluids
8	2017 Dec	Karthik R	Dr.K.RamaNarasimha	Experimental studies on pulsating heat pipes using nano fluids
9	2018 Dec	Vikhan.G.V	Dr.K.RamaNarasimha	Studies on different types of heat exchangers.

C. INSTRUCTIONAL MATERIALS

Lecture notes, E-notes, PPTs, teaching aids, expert lectures and videos for every subject are made available on google drives and the links are made available on the college website for reference by the students and other faculty.

Instructional Materials

- Academic Year: 2020-21
https://drive.google.com/drive/folders/1WMI4S-i4zC_gjuPeiiMVoamSmffE6oGC?usp=sharing
- Academic Year: 2019-20
<https://drive.google.com/drive/folders/1PORXzeQUncXibPZlZEBmKntIRvbyKKvi?usp=sharing>
- Academic Year: 2018-19
https://drive.google.com/drive/folders/1Lpnm5KnBXCMuw-8-o8r6IU_lpe1K-G0t?usp=sharing

Lab Manuals

<https://drive.google.com/drive/folders/1ociEFDEL5E5V8bTcM7zfWXwopxQIFNvW?usp=sharing>

Table 5.7.3.C-a: List of lab manuals

Name of Faculty	Name of the Lab Manual	Subject Code
Mr. Nagabhushana.M	Design Lab	17MEL76
Mr. Bharath Kumar R	CIM and Automation Lab	17MEL77
Dr.K.Rama Narasimha & Mr.Nagaprasad K.S	Fluid Mechanics & Machinery lab	17MEL57
Mr.Murulidhar.K.S & Mr.Harish.U	Energy Conversion Lab	17MEL58
Mr.K.Prasad & Mr. Nagaprasad.K.S	Heat and Mass Transfer lab	17MEL67
Mr. Nagabhushana.M	Modeling and Analysis Lab	17MEL68
Mr.Girish.T.R & Mrs.N.Sreesudha	Mechanical measurements and metrology	17MEL47
Mr.K V Manjunath	Foundry,Forging and Welding Lab	7MEL48B
Mr.B.Balaji & Mrs.N.Sreesudha	Metalography and Materials Testing Lab	7MEL37
Mr. Anil Kumar A	Computer Aided Machine Drawing	17ME36
Mr. Parashuram A K	Machine Shop and Work shop Practice	17MEL38A
Mr. Manjunath B R	Engineering Graphics	8EGDL15

D. WORKING MODELS/CHARTS/MONOGRAMS ETC.**Table 5.7.3.D-a: Working models/charts/monograms etc.****Academic year (2020-21)**

Name of Faculty	Working Model /charts/monograms	Title
Dr.M.Umashankar	CNC milling operation	CIM lab
Mr.M.Nagabhushana	Stress concentration factor estimation chart	Ansys lab
Mr.K.Prasad	Vapour compression refrigeration chart	Heat Transfer lab
Dr.Nagaprasad.K.S	Red wood viscometer chart	Energy conversion lab
Dr.Girish.T.R	Auto collimeter chart	Metrology & Mechanical Measurement Lab
Dr.L.Nirmala	Universal testing machine operations charts	Material testing lab
Mr.Manjunath B R	CNC Turning operation chart	CIM lab
Mr.Anilkumar A	Vibration testing machine chart	Design lab
Mr.Harish.U	Wood Pattern, Casting models	Metal Casting &Welding.
Mr.Parashuram.A. K	Milling machine chart	Machine shop
Dr.Saleemkhan	Machine vice, lathe tailstock, Computer Aided Machine drawing charts	CAMD Lab

Academic year (2019-20)

Name of Faculty	Working Model /charts/monograms	Title
Dr.M.Umashankar	Planes and solids models	CAED
Mr.M.Nagabhushana	Bending moment &Shear force representation chart	Ansys lab
Mr.K.Prasad	Centrifugal impeller /Turbine / Compressor chart	Fluid Mechanics & Turbo Machines
Dr.Nagaprasad.K.S	Rotor with blade model	Turbo Machines
Dr.L.Nirmala	Behavior of materials, types of fractures models	Kinematics of Machinery
Dr.Girish.T.R	Polariscope chart, Governor charts	Design Engg. Lab
Mr.K.V.Manjunath	Permeability Test chart	Foundry & Forging
Mr.Murulidhar.K.S	Centrifugal pump , Pelton wheel charts Fluid Mechanics	Fluid Mechanics lab
Mr.AnilKumar.A	Screw Jack, Machine Vice, Plummer Block, Connecting Rod, Computer Aided Machine drawing charts	CAMD Lab
Mr.Harish.U	Wood Pattern, Casting models	Metal Casting &Welding.
Mr.Parashuram.A.	Machine lathe & Lathe operations	Machine shop

Kutakanakeri	chart	
Mr. Manjunath.B.R	Projection of lines,planes,solids & Isometric projection charts	CAED lab
Mrs. N.Sreesudha	Autocollimator & Calibration of LVDT charts	Mechanical measurements & Metrology lab
Mr. Gautham.S	IC engines cut section model	Elements of Mechanical Engineering

Academic year (2018-19)

Name of Faculty	Working Model /charts/monograms	Title
Mr.Nagaprasad.K.S	Velocity triangle model	Turbo Machines
Mrs.L.Nirmala	Roberts Mechanism and Peaucellier Mechanism models	Kinematics of Machinery
Mr.Nagaprasad.K.S	Diesel engine combustion phenomenon chart	Energy conversion lab
Mr.K.Prasad	Centrifugal impeller /Turbine / Compressor chart	Fluid Mechanics & Turbo Machines
Dr.Girish.T.R	Rotor with blade model	Turbo Machines
Mr.K. V.Manjunath	Foundry tools & Forging tools chart	Foundry & Forging Lab.
Mr.Harish.U	Wood Pattern, Casting models	Metal Casting & Welding.
Mrs.N.Sreesudha	Izod & Charpy test, Rockwell hardness test charts	Materials Testing lab

5.7.4 CONSULTANCY (FROM INDUSTRY) (5)

2019-20 (CAYm1)

Sl.No.	Project Title	Duration	Funding Agency	Amount
NIL				

2018-19 (CAYm2)

Sl.No.	Project Title	Duration	Funding Agency	Amount
NIL				

2017-18 (CAYm3)

Sl.No.	Project Title	Duration	Funding Agency	Amount
NIL				

Cumulative Amount: NIL

Assessment Marks= 0

5.8 FACULTY PERFORMANCE APPRAISAL AND DEVELOPMENT SYSTEM (FPADS) (30)

A. A WELL-DEFINED SYSTEM FOR FACULTY APPRAISAL FOR ALL THE ASSESSMENT YEARS (10)

Faculty members of Higher Educational Institutions have to perform a variety of tasks pertaining to diverse roles. In addition to instruction, Faculty members need to innovate and conduct research for their self-renewal, keep abreast with changes in technology, and develop expertise for effective implementation of curricula. They are also expected to provide services to the industry and community for understanding and contributing to the solution of real-life problems in industry.

The assessment is based on:

- A well-defined system for faculty appraisal for all the assessment years
- Its implementation and effectiveness

The Management of KSIT appreciates and encourages the faculty for their services and achievements by

- Reimbursing part/ full of registration fee for participation in workshops/FDPs/STTPs
- Felicitating with certificate and cash award on receiving project funds
- Felicitating with certificate & cash award for achieving 100 % results
- Felicitating the faculty upon serving 10 years in KSIT

Feedback on faculty is collected twice a semester from the students, and is evaluated by the concerned faculty, HOD and Principal. If the feedback is less than 80 %, the concerned faculty is asked for an explanation. The key points in the feedback form are:

- Effective planning and organization of lectures
- Punctuality/class time utilization
- Ability to teach/explain/effective use of board
- Interaction/Motivating students
- Subject Knowledge
- Presentation of the subject/communication
- Linking subject with practical applications
- Syllabus coverage/Exam point of view
- Evaluation/test counseling
- Attitude towards teachers

Every year the assessment of faculty is based on their self-appraisal form. The key sections in faculty appraisal form are:

- Results, Feedback, Mentoring,
- Workshops/FDPs/MOOCs attended and organized
- Publications, R&D project proposals / grants
- Consultancy & Training, Patents
- Contribution towards the development of the Institute
- Recognitions received from outside agencies in the form of awards, prizes, projects etc.

Faculty fills the self-appraisal form at the end of every academic year. The HOD reviews self-appraisal forms and provides remarks/ comments and submits to the principal along with the academic results & students feedback. Principal reviews the self-appraisal and provides remarks/ comments and submits to the CEO of the K.S. Group of Institutions.

The faculty with less than 60 % score in self appraisal are called before Appraisal Committee and questioned on their poor performance. They are advised to improve their performance before next assessment year. If the faculty performance is not improved for 2 consecutive years, then their increment will be withheld, advised and their probation period will be extended. If the faculty has not improved their performance for 3 years consecutively, they will be terminated from their service.

The template of Faculty Self Appraisal form are shown below for 2020-21, 2019-20 and 2018-19 respectively.

Template for self-appraisal form (2020-21)

KAMMAVARI SANGHAM GROUP OF INSTITUTIONS

STAFF SELF APPRAISAL REPORT

2020-2021

KSIT/KSSEM

Field	Data	SCORE
Name		
Present Address, Mob.No., e-mail id.		---
Age and Date of Birth		
Qualification		
Designation and Department		
Teaching Experience (After PG)		
Other Experience (If any)		
List of Subjects Taught till date (use separate sheet if necessary)		
*Subjects taught in the Assessment Year and percentage pass (10marks for each x Percentage) If online please indicate.	1. 2. 3. 4.	

Details of UG Projects Guided (5 marks/ project guided) Online	1. 2.	/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA	1. 2.	/10
Percentage of Online classes held (No. of classes taken/no. of classes allocated x 5)		/5
Student Feedback for Online classes. (Av. Percentage x 5 marks)		/5
Details of Industrial Visits arranged. (2marks/visit) Max 5 marks.	NOT APPLICABLE FOR CURRENT YEAR	
Number of FDPs attended since joining service (Attach Separate List)		--

*Marks to be awarded on for subjects for which end exam was conducted

Details of students mentored during current assessment year.		--
Details of Participation in VTU Bodies (2 Marks)		/2
Details on Examination related Activity (2marks each)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	/8
List of FDPs attended during the Assessment year (5 marks each)	1)	/10

(Attach Certificate copies)	2)	
Financial Assistance received during current year for attending FDPs	Rs.	--
<p>Status of Ph.D.</p> <p>[Attach proof for each stage]</p> <p>(This can be claimed only once during a life time after the PhD is awarded)</p> <p>[Attach proof for every claim]</p> <p>Ph.D. Completed – 10 marks.</p>	<p>1. Awarded (2 marks)</p> <p>2. Thesis Submitted and awaiting reports (1 mark)</p> <p>3. Thesis Preparation (2 Mark)</p> <p>4. Experimentation/Data Collection in completed (1 mark)</p> <p>5. Comprehensive viva voce completed (1 mark)</p> <p>6. Appeared for Course work exams (1 mark)</p> <p>7. Applied for registration formalities (1 mark)</p> <p>8. Identified Guide/Research Centre and preparing research Proposal (1mark.)</p> <p>9. Not thought of pursuing Ph.D. (zero)</p>	/10
<p>Research Publications: (5 marks each)</p> <p>[Attach copies of Title Page]</p>	<p>1.</p> <p>2.</p>	/10
Seminars / Workshops / Conferences attended (5 Marks each) [Attach Certificate Copies]		/10
Financial Assistance received during current year	Rs.	--
Registered as Research Guide (Reasons for not registering)	Yes / No	
Research Scholars registered with details	<p>Yes / No</p> <p>If yes, 5 marks</p>	/5
Details of Patents Applied for (If any) One application 5 marks		/5

Academic Programs organized and supported during current year. (FDP/Workshop/Seminar / Conference)		/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others		/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures.		/5
Details of Project Proposal submitted during the current year. (At least one)		/5
Details of Project Funds Received.	Rs.	/5
Consultancy Revenue Generated	Rs.	/5
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator etc.	1) 2) 3)	10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE)		/5
COVID TASK FORCE Responsibilities. (If any) Please mention your role.		/5
Contribution towards Branding, Admissions, etc		/10
TOTAL		/190

Date:

Signature of faculty

Comments from the HOD:

Signature of the HOD

Comments of the Principal after the discussion:

Signature of the Principal

CEO

Signature of the CEO

Template for self-appraisal form (2019-20)

KAMMAVARI SANGHAM GROUP OF INSTITUTIONS

STAFF SELF APPRAISAL REPORT

2019-2020

KSIT/KSSEM

Field	Data	SCORE
Name		
Present Address, Mob.No., e-mail id.		---
Age and Date of Birth		
Qualification		
Designation and Department		
Teaching Experience (After PG)		
Other Experience(If any)		
List of Subjects Taught till date and percentage pass (use separate sheet if necessary)		
*Subjects taught in the Assessment Year and percentage pass (10marks for each x Percentage) If Online please indicate.	1. 2. 3. 4.	/40
Details of UG Projects Guided (5 marks/ project guided) Online	1. 2.	/10
Details of PG Projects Guided (5 marks/ project guided)	1. 2.	/10

Percentage of Online classes held (No. of classes taken/no. of classes allocated x 5)		/5
Student Feedback for Online classes. (Av.Percentage x 5 marks)		/5
Details of Industrial Visits arranged. (2marks/visit) Max 5 marks.		/5
Number of FDPs attended since joining service (Attach Separate List)		--

*Marks to be awarded on for subjects for which end exam was conducted

Details of students mentored during current assessment year.		--
Details of Participation in VTU Bodies (2 Marks)		/2
Details on Examination related Activity (2marks each)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies)	1) 2)	/10

Financial Assistance received during current year for attending FDPs	Rs.	--
Status of Ph.D. [Attach proof for each stage] (This can be claimed only once during a life time after the PhD is awarded) [Attach proof for every claim]	1. Awarded (2 marks) 2. Thesis Submitted and awaiting reports (1 mark) 3. Thesis Preparation (2 Mark) 4. Experimentation/Data Collection in completed (1 mark) 5. Comprehensive viva voce completed (1 mark) 6. Appeared for Course work exams (1 mark) 7. Applied for registration formalities (1 mark) 8. Identified Guide/Research Centre and preparing research Proposal (1mark.) 9. Not thought of pursuing Ph.D. (zero)	/10
Research Publications: (5 marks each) [Attach copies of Title Page]	1. 2.	/10
Seminars / Workshops / Conferences attended (5 Marks each) [Attach Certificate Copies]		/10
Financial Assistance received during current year	Rs.	--
Registered as Research Guide (Reasons for not registering)	Yes / No	
No. of Research Scholars registered with details		/5
Details of Patents Applied for (If any)		/5

Academic Programs organized and supported during current year. (FDP/Workshop/Seminar / Conference)		/5
Details of programs attended for skill development like MOOCs, MOODLES and others		/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures.		/5
Details of Project Proposal submitted during the current year. (At least one)		/5
Details of Project Funds Received.	Rs.	/5
Consultancy Revenue Generated	Rs.	/5
Details of Participation in cultural events during the current year	1) 2) 3)	/5
Additional Responsibilities in the Department/ College Example: Head, Coordinator etc.	1) 2) 3)	10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE)		/5

Graduation Day Responsibilities. (If any) Please mention your role.		/5
TOTAL		/190

Date:

Signature of faculty

Template for self-appraisal form (2018-19)

**KAMMAVARI SANGHAM GROUP OF INSTITUTIONS
STAFF SELF APPRAISAL REPORT**

2018-2019

KSIT

[Note for subject taught & Results consider 18 Odd and 19 Even Sem]

Field	Data	SCORE
Name		
Present Address, Mob.No., e-mail id.		---
Age and Date of Birth		
Qualification		
Designation and Department		
Teaching Experience (After PG)		
Other Experience(If any)		
List of Subjects Taught till date and percentage pass (use separate sheet if necessary)		
Subjects taught in the Assessment Year and percentage pass (10marks for each x Percentage)	1. 2. 3. 4.	/40
Details of UG Projects Guided (5 marks/ project guided)	1. 2.	/10
Details of PG Projects Guided (5 marks/ project guided)	1. 2.	/10
Additional Inputs given in the class in addition to the syllabus (Give proof and justification) (If applicable)		/5
Guest / Invited Lectures arranged (2marks /lecture) Max 5 marks.		/5
Details of Industrial Visits arranged. (2marks/visit) Max 5 marks.		/5
Number of FDPs attended since joining service (Attach Separate List)		--
Details of students mentored during current assessment year.		--
Details of Participation in VTU Bodies (2 Marks)		/2

Details on Examination related Activity (2marks each)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies)	1) 2)	/10
Financial Assistance received during current year for attending FDPs	Rs.	--
Status of Ph.D. [Attach proof for each stage] (This can be claimed only once during a life time after the PhD is awarded) [Attach proof for every claim]	1. Awarded (2 marks) 2. Thesis Submitted and awaiting reports (1 mark) 3. Thesis Preparation (2 Mark) 4. Experimentation/Data Collection in completed (1 mark) 5. Comprehensive viva voce completed (1 mark) 6. Appeared for Course work exams (1 mark) 7. Applied for registration formalities (1 mark) 8. Identified Guide/Research Centre and preparing research Proposal (1mark.) 9. Not thought of pursuing Ph.D. (zero)	/10
Research Publications: (5 marks each) [Attach copies of Title Page]	1. 2.	/10
Seminars / Workshops / Conferences attended (5 Marks each) [Attach Certificate Copies]		/10
Financial Assistance received during current year	Rs.	--
Registered as Research Guide (Reasons for not registering)	Yes / No	
No. of Research Scholars registered with details		/5
Details of Patents Applied for (If any)		/5

Academic Programs organized and supported during current year. (FDP/Workshop/Seminar / Conference)		/5
Details of programs attended for skill development like MOOCs, MOODLES and others		/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures.		/5
Details of Project Proposal submitted during the current year. (At least one)		/5
Details of Project Funds Received.	Rs.	/5
Consultancy Revenue Generated	Rs.	/5
Details of Participation in cultural events during the current year	1) 2) 3)	/5
Additional Responsibilities in the Department/ College Example: Head, Coordinator etc.	1) 2) 3)	10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE)		/5
Graduation Day Responsibilities. (If any) Please mention your role.		/5
TOTAL		/190

Date:

Signature of faculty

B. IMPLEMENTATION AND EFFECTIVENESS (20)**Table 5.8-a: Faculty felicitated during assessment years for achieving 100% results**

2020-21				
Sl. No.	Name of the Faculty	Semester	Section	Subject
1	Dr.Girish.T.R	VIII	A	Additive Manufacturing
2	Mr. Manjunath B R	VIII	B	Additive Manufacturing
3	Mr. Prasad K	VIII	A	Product Life Cycle Management
4	Mr. Nagabhushana M	VIII	B	Product Life Cycle Management
5	Dr.Girish.T.R	VII	A	Tribology
6	Mr.Bharath Kumar K R	VII	A	Mechatronics
7	Mr.Parashuram A K	VII	B	Energy Engineering
8	Mr.Anilkumar A	VII	B	Tribology
9	Mrs. Tejaswini M L	V	A	Environmental studies
10	Mrs. Tejaswini M L	V	B	Environmental studies

2019-20				
Sl. No.	Name of the Faculty	Semester	Section	Subject
1	Mr.Harish.U	VIII	A	Operations Research
2	Mr. Manjunath B R	VIII	A	Additive Manufacturing
3	Mr. Naresha K	VIII	A	Product Life Cycle Management
4	Mrs. Sreesudha N	VIII	B	Operations Research
5.	Mr. Nagabhushana M	VIII	B	Product Life Cycle Management
6	Mr.Nagaprasad K S	VII	A	Energy Engineering
7	Mr.Harish.U	VII	A	Tribology

8	Mr. Naresha K	VII	A	Mechatronics
9	Mr.K.Prasad	VII	B	Energy Engineering
10	Mrs. Sreesudha N	VII	B	Control Engineering
11	Dr.Girish.T.R	VII	B	Tribology
12	Mr.Bharath Kumar K R	VII	B	Mechatronics
13	Mr.Muralidhar.K.S	V	A	Energy and Environment
14	Mr.Ganesh A Bhargav	V	A	Non Traditional Machining
15	Mr.Parashuram A K	V	B	Energy and Environment
16	Mr.Madhu G	V	B	Non Traditional Machining

2018-19

Sl. No.	Name of the Faculty	Semester	Section	Subject
1	Prof.Umashankar.M	VII	A	Control Engineering-15ME73
2	Dr.Ajay Kumar B S	III	B	Metal Casting And Welding-17ME305A
3	Dr.K.V.A.Balaji/ Mrs.Sreesudha.N	V	A&B	Project Management-15ME564
4	Mr. Girish.T.R	V	A&B	Theory Of Elasticity- 15ME552
		VIII	A	Tribology -10ME831
5	Mr.K.Prasad	VII	B	Energy Engineering-15ME71
6	Mr.K.V.Manjunath	VII	B	Control Engineering-15ME73
7	Mr.Muralidhar.K.S	V	A&B	Energy And Environment-15ME562
8	Mr.Manjunath.B.R	VI	B	Metal Forming -15ME653
		VII	B	Fluid Power Systems-15ME62
9	Mr.Ranganath.N	VII	A	Fluid Power Systems- 15ME753
10	Mr.Naresh.K	V	A	Non Traditional Machining-15ME554

		VII	B	Mechatronics-15ME753
11	Mr. Harish .U	VI	A	Metal Forming-15ME653
		VI	B	Computer Integrated Manufacturing-15ME62
		VII	A	Mechatronics-15ME753
12	Mr.Parushuram.A.K	VII	A	Energy Engineering-15ME71
		VIII	A	Automotive Engg-10ME844
13	Mrs. N Sreesudha	VIII	B	Operation Management -10ME81
14	Mr.Mallikarjuna.M.R	VII	B	Tribology -15ME742
		VIII	B	Tribology -10ME831
15	Mr.Bharath Kumar K R	V	A	Non Traditional Machining-15ME554
		VI	B	Total Quality management-15ME664

2017-18

Sl. No.	Name of the Faculty	Semester	Section	Subject
1	Mr. Harish .U	IV	B	Metal Casting and Welding-(15ME45A)
2	Mr. Bharath Kumar K R	VI	A	Computer Integrated Manufacturing -10ME61
3	Mr. Harish .U	VI	B	Computer Integrated Manufacturing-10ME61
4	Mr. K. Prasad Dr. K. Rama Narasimha	VI	A&B	Refrigeration & Air Conditioning-10ME663
5	Mr. Manjunath B R	VI	A&B	Non Traditional Machining-10ME665
6	Mr. Naresha K	VI	A&B	Mechatronics & Microprocessor -10ME65
7	Mr. Anil Kumar A	VI	A&B	Theory of Elasticity-10ME661
8	Mrs. L. Nirmala	VIII	A	Foundry Technology- 10ME838

9	Mrs. SreeSudha .N	VIII	A	Tribology-10ME831
10	Prof. B. V. Sreenivasmurthy	VIII	A	Operation Management -10ME81
11	Mr. Mallikarjuna M R	VIII	B	Tribology-10ME831
12	Mr. Harish .U	III	A	Machine Tools and Operations-15ME35B
13	Mr. Parashuram A K	V	A	Energy and Environmen 15ME562
14	Mrs. L. Nirmala	V	B	Non Traditional Machining 15ME554
15	Mr. Murulidhar .K .S	V	B	Energy and Environment 15ME562
16	Mr. Ranganath .N	VII	A	Hydraulics and Pneumatics - 10ME73
17	Mr. Harish .U	VII	B	Operations Research -10ME74
18	Mr. Girish T R	VII	A&B	Theory of Plasticity -10ME752
19	Mr. Naresha K	VII	A&B	Total Quality Management- 10ME758
20	Mr. M.M.M. Patnaik	VII	A&B	Experimental Stress Analysis- 10ME761

Table 5.8-b: FACULTY FELICITATED DURING THE ASSESSMENT PERIOD FOR COMPLETION OF 10 YEARS' SERVICE

Year	Name of the Faculty	Designation	Date of Joining
2019-20	Mr. Prasad K	Associate Professor	13-7-2010
2018-19	Mr. Nagaprasad K.S	Associate Professor	29-7-2009
2017-18	Mr. Abhishek	Asst. Professor	04-08-2008

Table 5.8-c: FACULTY APPRECIATED FOR COMPLETION OF MOOC/NPTEL COURSES

Sl. No .	Name of the Faculty	Designation	Title of the Course	Duration	Completed on	Platform
2020-21						
1	Dr. Umashankar M	Associate Professor	Introduction to basic Vibrations	4 weeks	15 th July 2020	Coursera
2	Dr. Umashankar M	Associate Professor	Introduction to Digital Manufacturing with Autodesk Fusion 360	4 weeks	20 th July 2020	Coursera
3	Dr. Umashankar M	Associate Professor	Introduction to CAD, CAM, and Practical CNC Machining	4 weeks	21 st July 2020	Coursera
4	Dr. Umashankar M	Associate Professor	Autodesk Fusion 360 Integrated CAD/CAM/CAE	4 weeks	28 th July 2020	Coursera
5	Dr. Umashankar M	Associate Professor	Autodesk Fusion 360 Integrated CAD/CAM/CAE	4 weeks	5 th Aug 2020	Coursera
6	Dr. Umashankar M	Associate Professor	Mechanic of Materials	4 weeks	9 th Aug 2020	Coursera
7	Dr. Umashankar M	Associate Professor	Introduction to Thermodynamics	4 weeks	10 th Aug 2020	Coursera
8	Dr. Umashankar M	Associate Professor	Introduction to Advanced Vibrations	4 weeks	12 th Aug 2020	Coursera
9	Dr. Umashankar M	Associate Professor	Material Processing	4 weeks	14 th Aug 2020	Coursera
10	Dr. Umashankar M	Associate Professor	Materials Science	5 weeks	15 th Aug 2020	Coursera
11	Dr. Umashankar M	Associate Professor	Introduction to High-Throughput	4 weeks	7 th Sept 2020	Coursera

			Materials Development			
12	Dr. Umashankar M	Associate Professor	Mechanics of Materials II: Thin-Walled Pressure Vessels and Torsion	4 weeks	17 th Sept 2020	Coursera
13	Mr.Prasad k	Associate Professor	Introduction to Thermodynamics: Transferring Energy from Here to There	4 weeks	16 th July 2020	Coursera
14	Mr.Prasad k	Associate Professor	Fundamentals of Macroscopic and Microscopic Thermodynamics	4 weeks	18 th July 2020	Coursera
15	Mr.Prasad k	Associate Professor	Materials Science	5 weeks	18 th July 2020	Coursera
2019-20						
1	Mrs. Tejaswini. M.L	Assistant professor	Design of RCC structure	4 Months	Nov 2019	NPTEL
2	Mr. Prasad K	Associate professor	Concept of Thermodynamics	4 Months	Nov 2019	NPTEL
3	Mr. Bharath Kumar KR	Assistant professor	Robotics	4 Months	Nov 2019	NPTEL
4	Mr. Anilkumar A	Assistant Professor	Kinematics of Mechanisms and Machines	8 weeks	April 2020	NPTEL
2018-19						
1	Mr. Bharath Kumar KR	Assistant professor	Robotics	4 Months	Oct2018	NPTEL
2	Mrs. Tejaswini. M.L	Assistant professor	Strength of Materials	4 Months	Oct2018	NPTEL

5.9 VISITING/ADJUNCT/EMERITUS FACULTY ETC. (10)

NIL

CRITERION 6	FACILITIES AND TECHNICAL SUPPORT	80
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6. FACILITIES AND TECHNICAL SUPPORT (80)

6.1. ADEQUATE AND WELL EQUIPPED LABORATORIES, AND TECHNICAL MANPOWER (30)

Sl. No.	Name of the Laboratory	No. of students per setup (Batch size)	Name of the Important equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1	Computer Aided Engineering Drawing	22 Computer: Student Ratio – 1:1	1. Lenova (30 Nos), 2. HP Compaq (24 nos) 3. Work stations , 4. (Solid Edge Version 19), 5. Servers,	3 batches x 3 hours = 9 hrs	Mr.Manjunath B R Mr.Palaksha S	Asst. Prof Foreman Instructor	M.Tech DME
2	Work Shop Lab	22	1. Bench vice Tools 2. 12” Flat Rough file 3. 10” Smooth File 4. 6” Triangle File 5. 6” Half Round File 6. Try Square 7. Hack Saw Frame 8. Welding machine 9. Soldering tools	6 batches x 3 hours = 18 hrs	Mr.Ranganath N Mr. Venkataramana	Asst . Prof Lab Assistant	M.Tech VTP

3	Computer Aided Machine Drawing	22 Computer: Student Ratio – 1:1	1.Lenova (30 Nos), 2.HP Compaq (24 nos) 3.Work stations , (Solid Edge Version 19) Projector, 4.Printers 5.Servers	6 batches x 3 hours = 18 hrs	Mr.Manjunath B R Mr.Palaksha S	Asst . Prof Foreman Instructor	M.Tech DME
4	Energy Conversion Lab	22	1. Abel apparatus 2. Pensky Martins apparatus 3. Planimeter, 4. Red wood viscometer, 5. Say bolt viscometer 6. Bomb calorimeter 7. Lewis Thomson calorimeter 8. Variable compression ratio test ring 9. Four stroke Petrol engine, 10. Four stroke Diesel engine	6 batches x 3 hours = 18 hrs	Dr.Nagaprasad K S Mr.Seena	Assoc . Prof Instructor	Ph.D., SSLC
5	Computer Aided Modelling & Analysis Lab	22	1.Lenova (20 Nos), 2.HP Pro Desk (6 nos) 3.Hp (11Nos) 4.Ansys Software 5.Work stations 6. Projector, 7.Printers , 8.Servers,	6 batches x 3 hours = 18 hrs	Mr.Nagabhushana M Mr.Palaksha S	Assoc. Prof Instructor	M.Tech DME
6	Design Lab	25	1. Transmission type polari scope, 2. Journal bearing apparatus, 3. Weighing balance, 4. Motorized gyroscope, 5. Porter governor 6. Hartnell governor 7. Static & dynamic balancing 8. Whirling of shaft	6 batches x 3 hours = 18 hrs	Dr. Girish T R Mr.L. Govindaswamy	Assoc. Prof Instructor	Ph.D., ITI

7	Computer Integrated Manufacturing	25	<ol style="list-style-type: none"> 1. Lenova (20 Nos), 2. HP Pro Desk (6 nos) 3. Hp (11Nos) 4. CADEM Software 5. Work stations, Projector, Printers. 6. Servers 7. CNC milling machine 	6 batches x 3 hours = 18 hrs	Dr. Nirmala L Mr. Palaksha S	Assoc. Prof Instructor	Ph.D., DME
8	Material Testing Lab	22	<ol style="list-style-type: none"> 1. Rockwell hardness tester and 2. Brinell hardness tester 3. Vickers hardness tester 4. UTM 5. Muffel Furnance 6. Impact testing machine 7. Torsion testing machine 8. Wear testing machine 9. Fatigue testing machine 10. Polishing Machine 	6 batches x 3 hours = 18 hrs	Dr. Nirmala Mr. G. Tulasi Babu	Assoc. Prof Instructor	Ph.D., (DME)
9	Foundry and Forging Lab	22	<ol style="list-style-type: none"> 1. Universal sand testing machine 2. Permeability meter for determination of sand 3. Permeability test 4. Electrical furnace 5. Oven 6. Sieve shaker 7. Clay content tester 8. Mould/ hardness tester 	6 batches x 3 hours = 18 hrs	Mr. Rajesh G L Mr. L. Govindaswamy	Asst. Prof Instructor	M.Tech ITI

			9. Core hardness tester 10. Moulding tools & accessories				
10	Metrology and Measurement Lab	22	1. Pressure gauge setup, 2. Thermocouple setup with J,K and T type thermocouples 3. RTD. 4. LVDT, 5. Load cell, 6. Cantilever Beam Stet up, 7. Profile projector, 8. Universal Bevelprotractor, 9. Autocollimator, 10. Lathe tool dynamometer,	6 batches x 3 hours = 18 hrs	Dr. Girish T R Mr.G.Thulasi Babu	Assoc. Prof Instructor	Ph.D., (DME)

			11. Drill tool dynamometer, 12. Mechanical comparator, 13. Portable surface roughness tester, 14. Gear tooth vernier, 15. Gear tooth micrometer, 16. Slip guage box-87 pieces 17. Slip guage box-83 pieces, 18. Sinebar, 19. Sinecenter				
11	Machine Shop Lab	22	1. Anil lathe- 10 2. Balaji Lathe- 2 3. Milling machine -1 4. Sagar shaping machine-5 5. Radial Drilling machine Bench Grinding machine 6. Power hacksaw	6batches x 3 hours = 18 hrs	Mr.Parashuram A K Mr. V. Venkataramana	Asst. Prof Turner	M.Tech VTP

12	Fluid Mechanics and Machinery Lab	22	<ol style="list-style-type: none"> 1. V-notch, 2. Venturi meter, 3. Orifice meter, 4. Losses in pipes, 5. Pelton wheel 6. Turbine, 7. Francis turbine, 8. Air Compressor, 9. Air Blower, , 10. Single stage Centrifugal Pump, 11. Reciprocating Pump 	6 batches x 3 hours = 18 hrs	Dr. Saleem Khan Mr.Thulasi Babu	Asst. Prof Instructor	Ph.D., SSLC
13	Heat and Mass Transfer Lab	22	<ol style="list-style-type: none"> 1. Thermal conductivity of metal rod, 2. Thermal conductivity of Composite wall, 3. Parallel flow/ counter flow heat exchanger, 4. Stefan Boltzmann apparatus, 5. Emissivity measurement apparatus, 6. Heat transfer in natural convection, 7. Heat transfer in forced convection, 8. Vapour compression Refrigeration test rig, 9. Air conditioning test rig, 10. Pin-fin apparatus, 11. Boiling and condensation apparatus, 12. Transient heat 	6 batches x 3 hours = 18 hrs	Mr. K. Prasad Mr. Seená	Assoc. Prof Instructor	M.Tech SSLC

6.2. ADDITIONAL FACILITIES CREATED FOR IMPROVING THE QUALITY OF LEARNING EXPERIENCE IN LABORATORIES (25)

Sl. No.	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
Research Centre						
1	CAD	Engineering drawing is an important tool for all Engineers and for many others professionals. It is the language of Engineers. Engineering Drawing communicates all needed information from the engineer who designed a part to the work who will manufacture it.	Virtual Model Development	Students and Faculty members	Modeling and Drafting	PO2, PO3, PO4, PO9, PO12
2	CAM/CAE	(CAM) is the use of software and computer -controlled machinery to automate manufacturing process. Based on that definition, you need three components for a CAM system to function: Software that tells a machine how to make a product by generating toolpaths.	Design and Virtual Manufacturing	Students and Faculty members	Various Machining Process and Improvement in the Design	PO2, PO3, PO4


3	ANSYS	<p>ANSYS Mechanical Enterprise is the flagship mechanical engineering software solution that uses finite element analysis (FEA) for structural analysis using the ANSYS Mechanical interface. It covers an enormous range of applications and comes complete with everything you need from geometry preparation to optimization and all the steps in between.</p> <p>With Mechanical Enterprise you can model advanced materials, complex environmental loadings and industry-specific requirements in areas such as offshore hydrodynamics and layered composite materials.</p>	Stress Analysis and Improvement	Students and Faculty members	Simulating the practical process	PO2, PO3, PO4
4	PINON DISC	<p>(Pin-on-disk wear test). A specimen, rigidly held, is often used as the pin. The test machine causes either the disk specimen or the pin to revolve about the disk centre. The sliding path is a circle on the sample surface. The pin is pressed against the disk at a specified load usually by means lever and attached weights</p>	Wear Test	By Research Scholars	To find wear strength of the material	PO2, PO3, PO4



5	PLANIMETER	It is a measuring device having rotating drum scale, circular disc scale, linear scale and an arm. Moving the arm over the required path to obtain a measuring value from combination of scales	To Measure the area of irregular surfaces	Students and Faculty members	Surface measurements	PO2, PO3, PO4, PO9, PO12
6	RECTANGULAR NOTCH	Notches are used to measure the flow rate of fluid in open channels	To Measure the volume flow rate of water	Students	Fluid flow measurements	PO2, PO3, PO4, PO9, PO12
7	CONDENSATION APPARATUS	This device is used to measure the heat transfer coefficient when steam condenses on surfaces. It has a steam generator, glass tube with inner tube, condenser surface	To study the condensation phenomenon of steam on surface made of different materials viz; Al, steel, copper etc.	Students	Thermal heat calculations.	PO2, PO3, PO4, PO9, PO12
8	FOUR STROKE DIESEL ENGINE WITH EXHAUST GAS RECIRCULATION AND SIX GAS ANALYZER	Four stroke diesel engine test rig with hydraulic dynamometer with EGR and after treatment devices.	To study the performance and emissions of diesel engine fuelled with DEE, H ₂ O ₂ and effect of EGR	Students and Research scholar	Heat balance calculations.	PO2, PO3, PO4, PO9, PO12



6.3. LABORATORIES: MAINTENANCE AND OVERALL AMBIANCE (10)

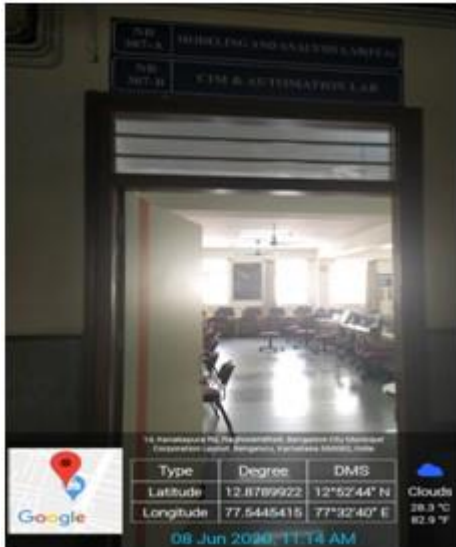

All laboratories have dedicated faculty lab in-charge with technical staff for better maintenance. In-house maintenance of each lab is carried out regularly. Overall ambience of the laboratories is also maintained. The name of faculty and technical staff in-charge for each lab is mentioned in table 6.1

Table 6.1: Details of faculty and technical staff in-charge for each lab



Sl.No	Name of Lab	Name of Faculty In - Incharge	Name of the Technical staff In-charge	Geo Tagged Photos
1	Computer Aided Engineering Drawing	Mr.Manjunath B R	Mr.Palaksha S	



2	Work Shop Lab	Mr.Ranganath N	Mr. Venkataramana	 <p>Google Street View of Workshop Practice Lab. The image shows a room with several workbenches and a large window. A sign above the entrance reads 'NB B-001 WORKSHOP PRACTICE LAB'. The Google Maps interface at the bottom shows the location in Bangalore City, India, with coordinates 12.8790216 N, 77.5448565 E, and a timestamp of 08 Jun 2020, 10:51 AM.</p>
3	Computer Aided Machine Drawing	Mr.Manjunath B R	Mr.Palaksha S	 <p>Google Street View of Engineering Workshop Lab. The image shows a room with several workbenches and a large window. A sign above the entrance reads 'NB B-001 ENGINEERING WORKSHOP LAB'. The Google Maps interface at the bottom shows the location in Bangalore City, India, with coordinates 12.8789922 N, 77.5445415 E, and a timestamp of 08 Jun 2020, 11:15 AM.</p>

4	Computer Aided Modelling & Analysis Lab	Mr.Nagabhushana M	Mr.Palaksha S	
5	Design Lab	Dr. Girish T R	Mr.L. Govindaswamy	

6	Computer Integrated Manufacturing	Dr. Nirmala L	Mr.Palaksha S	 <p>Google Street View image of the C.I.M & Automation Lab. The image shows a large, well-lit room with many computer workstations arranged in rows. The lab is identified by a sign above the entrance as 'C.I.M & AUTOMATION LAB'. The image includes a Google Maps overlay with the following data:</p> <table><tr><th>Type</th><th>Degree</th><th>DMS</th><th>Clouds</th></tr><tr><td>Latitude</td><td>12.8789922</td><td>12°52'44" N</td><td>28.3 %</td></tr><tr><td>Longitude</td><td>77.5445415</td><td>77°32'40" E</td><td>82.9 %</td></tr></table> <p>08 Jun 2020, 11:14 AM</p>	Type	Degree	DMS	Clouds	Latitude	12.8789922	12°52'44" N	28.3 %	Longitude	77.5445415	77°32'40" E	82.9 %
Type	Degree	DMS	Clouds													
Latitude	12.8789922	12°52'44" N	28.3 %													
Longitude	77.5445415	77°32'40" E	82.9 %													
7	Material Testing Lab	Dr. Nirmala.L	Mr.G. Tulasi Babu	 <p>Google Street View image of the Material Testing Lab. The image shows a laboratory setting with various testing equipment, including a large machine and several workbenches. The lab is identified by a sign above the entrance as 'METALLOGRAPHY AND MATERIALS TESTING LAB'. The image includes a Google Maps overlay with the following data:</p> <table><tr><th>Type</th><th>Degree</th><th>DMS</th><th>Clouds</th></tr><tr><td>Latitude</td><td>12.8790632</td><td>12°52'46" N</td><td>28.3 %</td></tr><tr><td>Longitude</td><td>77.5448455</td><td>77°32'43" E</td><td>82.9 %</td></tr></table> <p>08 Jun 2020, 11:02 AM</p>	Type	Degree	DMS	Clouds	Latitude	12.8790632	12°52'46" N	28.3 %	Longitude	77.5448455	77°32'43" E	82.9 %
Type	Degree	DMS	Clouds													
Latitude	12.8790632	12°52'46" N	28.3 %													
Longitude	77.5448455	77°32'43" E	82.9 %													

8	Foundry and Forging Lab	Mr.Rajesh G L	Mr.L. Govindaswamy	 <p>14, Kattappuram Rd, Kattappuram, Bangalore City Municipal Corporation, Karnataka 560020, India</p> <table><tr><th>Type</th><th>Degree</th><th>DMS</th><th>Clouds</th></tr><tr><td>Latitude</td><td>12.8790632</td><td>12°52'45" N</td><td>28.3 %</td></tr><tr><td>Longitude</td><td>77.5448455</td><td>77°32'41" E</td><td>82.9 %</td></tr></table> <p>08 Jun 2020, 11:07 AM</p>	Type	Degree	DMS	Clouds	Latitude	12.8790632	12°52'45" N	28.3 %	Longitude	77.5448455	77°32'41" E	82.9 %
Type	Degree	DMS	Clouds													
Latitude	12.8790632	12°52'45" N	28.3 %													
Longitude	77.5448455	77°32'41" E	82.9 %													
9	Metrology and Measurement Lab	Dr. Girish T R	Mr.Thulasi Babu	 <p>14, Kattappuram Rd, Kattappuram, Bangalore City Municipal Corporation, Karnataka 560020, India</p> <table><tr><th>Type</th><th>Degree</th><th>DMS</th><th>Clouds</th></tr><tr><td>Latitude</td><td>12.8789922</td><td>12°52'44" N</td><td>28.3 %</td></tr><tr><td>Longitude</td><td>77.5448415</td><td>77°32'40" E</td><td>82.9 %</td></tr></table> <p>08 Jun 2020, 11:16 AM</p>	Type	Degree	DMS	Clouds	Latitude	12.8789922	12°52'44" N	28.3 %	Longitude	77.5448415	77°32'40" E	82.9 %
Type	Degree	DMS	Clouds													
Latitude	12.8789922	12°52'44" N	28.3 %													
Longitude	77.5448415	77°32'40" E	82.9 %													

10	Machine Shop Lab	Mr.Parashuram A K	Mr. V. Venkataramana	 <p>Google Street View image of the Machine Shop Lab. The image shows the entrance to a workshop with a sign that reads "MACHINE SHOP". Inside, various machine tools and equipment are visible. The image includes a Google logo, a location pin, and a data overlay with the following information:</p> <table><tr><th>Type</th><th>Degree</th><th>DMS</th><th>Clouds</th></tr><tr><td>Latitude</td><td>12.8790632</td><td>12°52'46" N</td><td>28.3 %</td></tr><tr><td>Longitude</td><td>77.5448455</td><td>77°32'41" E</td><td>82.9 %</td></tr></table> <p>08 Jun 2020, 11:04 AM</p>	Type	Degree	DMS	Clouds	Latitude	12.8790632	12°52'46" N	28.3 %	Longitude	77.5448455	77°32'41" E	82.9 %
Type	Degree	DMS	Clouds													
Latitude	12.8790632	12°52'46" N	28.3 %													
Longitude	77.5448455	77°32'41" E	82.9 %													
11	Fluid Mechanics and Machinery Lab	Mr. Saleem Khan	Mr.Thulasi Babu	 <p>Google Street View image of the Fluid Mechanics and Machinery Lab. The image shows the entrance to a laboratory with a sign that reads "FLUID MECHANICS AND MACHINERY LAB". Inside, various fluid mechanics and machinery equipment are visible. The image includes a Google logo, a location pin, and a data overlay with the following information:</p> <table><tr><th>Type</th><th>Degree</th><th>DMS</th><th>Clouds</th></tr><tr><td>Latitude</td><td>12.8790632</td><td>12°52'46" N</td><td>28.3 %</td></tr><tr><td>Longitude</td><td>77.5448455</td><td>77°32'41" E</td><td>82.9 %</td></tr></table> <p>08 Jun 2020, 11:07 AM</p>	Type	Degree	DMS	Clouds	Latitude	12.8790632	12°52'46" N	28.3 %	Longitude	77.5448455	77°32'41" E	82.9 %
Type	Degree	DMS	Clouds													
Latitude	12.8790632	12°52'46" N	28.3 %													
Longitude	77.5448455	77°32'41" E	82.9 %													

12	Heat and Mass Transfer Lab	Mr. K. Prasad	Mr. Seena	 <p>14, Rajarajawade Rd, Rajarajawade, Bangalore City Municipal Corporation, Bengaluru, Karnataka 560065, India</p> <table><tr><th>Type</th><th>Degree</th><th>DMS</th><th>Clouds</th></tr><tr><td>Latitude</td><td>12.8790216</td><td>12°52'44" N</td><td>28.3 %</td></tr><tr><td>Longitude</td><td>77.5448565</td><td>77°32'43" E</td><td>82.9 %</td></tr></table> <p>08 Jun 2020, 10:49 AM</p>	Type	Degree	DMS	Clouds	Latitude	12.8790216	12°52'44" N	28.3 %	Longitude	77.5448565	77°32'43" E	82.9 %
Type	Degree	DMS	Clouds													
Latitude	12.8790216	12°52'44" N	28.3 %													
Longitude	77.5448565	77°32'43" E	82.9 %													
13	Energy Conversion Lab	Mr.Nagaprasad	Mr.Seena	 <p>14, Rajarajawade Rd, Rajarajawade, Bangalore City Municipal Corporation, Bengaluru, Karnataka 560065, India</p> <table><tr><th>Type</th><th>Degree</th><th>DMS</th><th>Clouds</th></tr><tr><td>Latitude</td><td>12.8789922</td><td>12°52'44" N</td><td>28.3 %</td></tr><tr><td>Longitude</td><td>77.5445415</td><td>77°32'40" E</td><td>82.9 %</td></tr></table> <p>08 Jun 2020, 11:14 AM</p>	Type	Degree	DMS	Clouds	Latitude	12.8789922	12°52'44" N	28.3 %	Longitude	77.5445415	77°32'40" E	82.9 %
Type	Degree	DMS	Clouds													
Latitude	12.8789922	12°52'44" N	28.3 %													
Longitude	77.5445415	77°32'40" E	82.9 %													

A. MAINTENANCE

- Regular preventive maintenance of instruments and equipments is carried out before the commencement of the semester.
- Maintenance register is kept in the laboratories.
- Minor repairs are carried out by the laboratory instructor.
- Dos, Don'ts and Safety measures are displayed in each laboratory.

B. OVERALL AMBIANCE

Department has Full furnished State of Art laboratories with well equipped equipments which shall cater to all UG and PG courses as per curriculum requirements.

- Conditions of chairs/benches are in good condition.
- Department has experienced faculty to educate them in all the fields of engineering.
- All the labs are conducted and evaluated every week.
- Labs are equipped with sufficient hardware and software to run program specific curriculum.
- Laboratory manuals are available to students in the respective labs.
- Sufficient number of windows is available for ventilation and natural light .
- Cup-boards are available in each lab for students to place their belongings.
- Each Lab is equipped with white/black board and other amenities.
- Research laboratory/dept library is available for all faculty and students to carry research work and projects.
- Exclusively, a project lab has been provided for the students to carry out their mini and major project.

DETAILS OF EQUIPMENTS IN EACH LAB

The details of equipment in each lab is mentioned in the following tables

LAB 1 : Computer Aided Engineering Drawing

Sl.no	Equipment	Specification
1	Company Name	Lenevo think centre
2	CPU Model	M81
3	Processor	Core i5
4	Speed	3.10 GHz
5	RAM	4 GB
6	Hard Disk	320 GB
7	Monitor	18.5 “ TFT
	Software	Solid edge version 19

LAB 2 : Work Shop Lab

Sl. No	Item/Equipment with Specification / Configuration	Qty	Supplier	Date of Supply
1	centre punch	12	taiyebi	15/12/'99
		2	azmeera	3/2/2K
		6	delux	1/9/'08
2	cutting plair	1	taiyebi	15/12/'99

		4	azmeera	3/2/2K
3	cold chisel	12	azmeera	3/2/2K
4	diamond point chisel	12	azmeera	3/2/2K
5	round chisel	12	azmeera	3/2/2K
6	combination set(china)	1	balaji tools	13/12/'99
7	divider	12	azmeera	3/2/2K
8	drilling m/c(1/4" hand)	1	balaji tools	13/12/'99
9	drilling m/c-power bosch	1	azmeera	3/2/2K
10	drill bit	1SET	balaji tools	13/12/'99
11	o/s calliper	12	azmeera	3/2/2K
12	flat file r6"	12	azmeera	3/2/2K
13	flat file s6"	12	azmeera	3/2/2K
14	flat file s12"	12	azmeera	3/2/2K
15	half round file s6"	12	azmeera	3/2/2K
16	half round file r6"	12	azmeera	3/2/2K
		8	zam trdrs	25/10/'02
17	half round file r10"	12	azmeera	3/2/2K
		8	zam trdrs	25/10/'02
		6	delux	7/9/'09
18	half round file s10"	12	azmeera	3/2/2K
19	round file r 6"	12	azmeera	3/2/2K
20	round file s 6"	12	azmeera	3/2/2K
21	round file r12"	12	azmeera	3/2/2K
22	square file r 10"	12	azmeera	3/2/2K
		8	zam trdrs	25/10/'02
23	triangular file r6"	12	azmeera	3/2/2K

		8	zam trdrs	25/10/'02
24	triangular file s 6"	12	azmeera	3/2/2K
25	triangular file r 10"	12	azmeera	3/2/2K
		8	zam trdrs	25/10/02
		6	delux	7/9/'09
26	triangular file s 10"	12	azmeera	3/2/2K
27	grinding hand - hitachi	1	azmeera	3/2/2K
28	hammer -bp 1/2lb	12	azmeera	3/2/2K
29	hammer - cr p 2lb	12	azmeera	3/2/2K
30	hammer - cr p 1/2lb	2	azmeera	3/2/2K
31	hammer - cr p 2.5lb	2	azmeera	3/2/2K
32	hacksaw frame 12"	1	balaji tools	13/2/'99
		12	azmeera	3/2/2K
		12	zam trdrs	25/10/'02
		6+6	uni tools	9/12/'03
		18	arman	23/3/'06
		6	delux	1/9/'08
		20	delux	18/5/'09
33	height gauge 12"(china)	6	delux	7/9/'09
		1	balaji tools	13/12/'99
		1	zam trdrs	23/09/'03
34	haker	4	balaji tools	13/12/'99
35	i / s calliper 6"	12	azmeera	3/2/2K
36	o / s calliper 6"	12	azmeera	3/2/2K
37	angle block	1(6"x6")	azmeera	16/2/'99
		1(4"x4")	zam trdrs	23/09/'03
38	number punch	2	azmeera	3/2/2K
39	nose plair	2	azmeera	3/2/2K

40	file set(4")	1set	azmeera	3/2/2K
41	oil can	2	azmeera	3/2/2K
42	pincer	1	balaji tools	13/12/'99
43	steel scale12"	1	balaji tools	13/12/'99
44	screw driver	2	azmeera	3/2/'2K
45	try square - 6"	12	azmeera	3/2/2K
		10	zam trdrs	25/10/2K
		6	delux	7/9/'09
46	die set	1 set	balaji tools	13/12/'99
47	tap set	1set	balaji tools	13/12/'99
48	v - block	1set	azmeera	3/2/2K
49	vernier calliper - 6"china	1	balaji pwr tools	13/12/'99
		1	indl.eqpmt.	24/10/'2K
50	copping saw - 6"	2	balaji tools	13/12/'99
51	scraper - 6"	4	balaji tools	13/12/'99
52	bench vice	2	delux trdrs	11/9/'07
		4	delux trdrs	10/9/'08
		6	delux trdrs	7/9/'09
53	anvil (50kg)	1	delux trdrs	7/9/'09

LAB 3 : Computer Aided Machine Drawing

Sl.no	Equipment	Specification
1	Company Name	HP
2	CPU Model	PRODESK 600 G1
3	Processor	Core I5
4	Speed	3.3 GHz
5	RAM	4 GB
6	Hard Disk	500GB
7	Monitor	17" LCD
	Software	Solid Edge version 19

LAB 4 : Material Testing Lab

Sl. No	Item/Equipment with Specification / Configuration	Qty	Supplier	Date of Supply
1	Rockwell hardness tester	1	I E I co.	5.3.2001
2	Brinell hardness tester	1	I E I co.	5.3.2001
3	Vickers Hardness Test	1	I E I co.	5.3.2001

4	UTM (Capacity : 40T, motor : 0.3kW)	1	I E I co.	5.3.2001
5	Muffel Furnance	1	I E I co.	5.3.2001
6	Impact testing machine	1	I E I co.	5.3.2001
7	Torsion testing machine (40 RPM , Capacity : 50Kgf, Power : 0.37kW)	1	I E I co.	5.3.2001
8	Wear testing machine	1	I E I co.	5.3.2001
9	Drilling vice	1	unitools	10.8.2001

LAB 5 : Foundry and Forging Lab

Sl. No	Item/Equipment with Specification / Configuration	Qty	Supplier	Date of Supply
1	Moulding Tools	11 Set	Indusrial Equipments	30/10/2000
2	Sand Rammer	1	G.P. Associates	11-05-01
3	Sand Testing Machine	1	G.P. Associates	11-05-01
4	Flat teners	6	Indusrial Equipments	09-11-07
5	Ball pin Hammer	6	Indusrial Equipments	24/102000
6	Swage Block	2	Indusrial Equipments	24/102000

7	Tongs	6+6	Industrial Equipments	24/102000
8	Screwdriver set	1 Set	Delux Traders	09-01-08
9	Stop Clock	1	Dutta Scientific	09-09-03
10	Hand Gloves	2 Set	Delux Traders	09-01-08
11	Trowels	19	Amar Hardware	16/9/2005
12	Spring divider	12	Delux Traders	11-02-04
13	Hallow Tongs	12	Delux Traders	24/10/2000

LAB 6 : Metrology and Measurement Lab

Sl. No	Item/Equipment with Specification / Configuration	Qty	Supplier	Date of Supply
1	strain indicator	1	I E I co.	5.3.2001
2	digital load cell	1	I E I co.	5.3.2001
3	pressure indicator	1	I E I co.	5.3.2001
	leg pump accessories	1	DELX.TRDS	30.5.2005
4	j.k.t.thermocouple	1	I E I co.	5.3.2001
	j & k thermocouple	1EACH	ELECTRO MECH AGENCY.	28.3.2006
5	stroboscope	1	I E I co.	5.3.2001

6	drill tool dynamometer	1	I E I co.	5.3.2001
7	lathe tool dynamometer	1	I E I co.	5.3.2001
8	torque & rigidity	1	I E I co.	5.3.2001
9	digital tachometer	1	S P Rd	21.6.2001
10	drilling vice	1	unitools	10.8.2001
11	tool maker microscope	1	bombay tools	28.3.2001
12	sine bar -200mm	1	bombay tools	28.3.2001
13	sine centre - 200mm	1	bombay tools	28.3.2001
14	slip gauges-83	1	bombay tools/russia	28.3.2001
15	bevel protractor	1	bombay tools/mituto	28.3.2001
16	gear tooth vernier	1	bombay tools/china	28.3.2001
17	micrometer(0-25mm)	1	bombay tools/mituto	28.3.2001
18	electronic comparator	1	bombay tools/mituto	28.3.2001
19	dial gauge(0.01mm)	1	bombay tools/mituto	28.3.2001
20	micrometer (0-25mm)digital	1	bombay tools/mituto	28.3.2001
21	vernier calliper(0-150mm)	1	bombay tools/mituto	28.3.2001
22	vernier calliper(0-150mm)digital	1	bombay tools/mituto	28.3.2001
23	surface plate(granite)	2	bombay tools	28.3.2001

24	l v d t	1	electromec agency uitm02	9.6.2005
25	3-wire set with stand	2+1	bombay tools	30.5.2006
26	screw driver set	1	delux traders	27.02.2006
27	dial gauge-beaker (0-10mm)	1	bombay tools/mituto	30.5.2006
28	dial gauge stand	1	delux traders/china	18.5.2008

LAB 7 : Machine Shop Lab

Sl. No	Item/Equipment with Specification / Configuration	Qty	Supplier	Date of Supply
1	Drill Chuck	2	Delux Traders	13/9/2001
2	Drill Bit	1 Set	Delux Traders	13/9/2001
3	Drill Socket	8	Delux Traders	25/9/2001 6/11/2004
4	Grease Gun	1	Delux Traders	13/9/2001
5	Oil Can	5	Delux Traders	13/9/2001
6	Revolving Center	4	Delux Traders	26/09/2001
7	Screw Driver	1 Set	Delux Traders	13/09/2001
8	Spanner	65	Delux Traders	13/09/2002

9	Surface Grinding (Burgi)	1	Arch Engg. Services	05-09-02
10	Vernier Calipers	10	Delux Traders	25/9/2002
11	Vice	6	Uni Tools Raman Engg Corp	7/5/2002 8/5/2002
12	Anvil	1	Delux Traders	10-11-03
13	Hammer	3	Delux Traders	11-02-04
14	Aligned Key	1 Set	Delux Traders	11-02-04
15	Power Hacksaw	1	Yanthra Traders	30/11/1997
16	C-Clamp(6"&8")	2	Delux Traders	18/3/2006
17	Lathe	10	Yanthra Traders	24/12/97
18	Shaping Machine (Motor : 3HP, Weight : 2000kg)	1	Yanthra Traders	24/12/97
19	Milling Machine (Motor : 2HP, Weight : 16500Kg)	1	Yanthra Traders	24/12/97
20	Radial Drilling Machine	1	Yanthra Traders	24/12/97
21	Vernier Height Gauge	1	Delux Traders	09-01-08
22	Shaping Machine (Sagar)	1	Arch Engg. Services	04-09-02
23	Shaping Machine (Cooper)	1	Arch Engg. Services	04-09-02
24	Shaping Machine	1	Arch Engg. Services	04-09-02
25	Shaping Machine	1	Aakarsh Products	19/6/2002

26	Shaping Machine	1	Ravi Industrials	23/6/2002
27	Tap Wrench 1/2"	2	Delux Traders	11-06-04
28	Tap/ Die (1/8")	1 Set	Hutaib Traders	16/11/2004

LAB 8 : Fluid Mechanics and Machinery Lab

Sl. No	Item/Equipment with Specification / Configuration	Qty	Supplier	Date of Supply
1	Francis Turbine Test Rig	1	Altech Industries	06-05-01
2	Impact of jet on vanes	1	Altech Industries	06-05-01
3	Metacentric Height	1	Altech Industries	06-05-01
4	Reynolod's Apparatus	1	Altech Industries	06-05-01
5	Minor Losses Apparatus	1	Altech Industries	06-05-01
6	Vaccum Gauge	1	Southern Hardware	20/6/2001
7	Stop clock	5	Dutt Scientific	21/6/2001
8	Two stage reciprocating compressor	1	Ind Lab	12-09-01
9	Centrifugal Air Blower	1	Ind Lab	12-09-01

10	Centrifugal Test Rig	1	Devale Bangalore	20/8/2008
11	Pelton Turbine	1	Devale Bangalore	05-01-99
12	Reciprocating Pump	1	Devale Bangalore	20/8/2008
13	Notches Apparatus	1	J P Associates	01-06-09
14	Venturi Meter & Orifice Meter	1	J P Associates	01-06-09

LAB 9 : Energy Conversion Lab

Sl. No	Item/Equipment with Specification / Configuration	Qty	Supplier	Date of Supply
1	abel f/f appt.	1	G.P.ASSOT.	08/5-11-'01
2	cleave land f/f appt.	1	G.P.ASSOT.	08/5-11-'01
3	cloud & pour point appt.	1	G.P.ASSOT.	08/5-11-'01
4	canradson carbon residue	1	G.P.ASSOT.	08/5-11-'01
5	junker gas calorimeter	1	G.P.ASSOT.	08/5-11-'01
6	pensky martien f/f appt.	1	G.P.ASSOT.	08/5-11-'01
7	red wood visco meter	2	G.P.ASSOT.	08/5-11-'01
8	saybolt viscometer	1	G.P.ASSOT.	08/5-11-'01

		1	G.P.ASSOT.	034/27-11-'01
9	centrifugal air blower	1	IND LAB	19/9-12-'01
10	2 stg. air compr. test rig	1	IND LAB	19/9-12-'01
11	4-s single cylinder petrol engine	1	IND LAB	022-9/12/'01
12	v c r petrol engine (Max. Power : 2.2kW, Speed : 3000RPM)	1	IND LAB	023-31/12/'01
13	plani meter	4	PROFF.MKT.	801-4/1/02
14	stop watch	2	DUTTA SCIENTIFIC, B'LORE	27/9/'01
		4		242-21/6/'05
		2		625-31/10/'07
		1		1573-9/9/'08
15	beacker	2	DUTTA SCIENTIFIC, B'LORE	27/09/'01
16	weighing machine electrnc.	1		
17	dial gauge 0.01mm - 10mm(china make) with stand	1	DELUX TRADERS	12344/5aug'05
18	rinche spanner	1		16/12/'05
	socket set	1SET	DELUX TRADERS	13448-27/2/'06
	spanner d/e	1SET(12)		
	ring spanner	1SET(12)		
	screw driver set	1SET(5)		

	nose plair	1NO.		
	screw driver	1NO.		
	screw driver	1NO.		
19	diesel engine test rig	1NO.	DEEVALE	

LAB 10 : Computer Aided Modelling & Analysis Lab

Sl.no	Equipment	Specification
1	Company Name	HP, HP, LENOVO
2	CPU Model	HP COMPAQ DX 2480MT, HP 280 G2 MT, LENOVA M72E
3	Processor	CORE 2 DUO, Core I5, Core I5
4	Speed	2.8 GHz, 3.2 GHz, 3.2 GHz
5	RAM	2 GB, 4 GB, 4 GB
6	Hard Disk	160 GB, 320 G, 500GB
7	Monitor	18.5 “ TFT
	Software	Cadem Technologies CNC Turn Version 6.1 CNC Mill Version 6.1 Ansys Version 19

LAB 11 : Heat and Mass transfer lab

Sl. No	Item/Equipment with Specification / Configuration	Qty	Supplier	Date of Supply
1	Pin-Fin Apparatus	1	Ind Lab	23/03/2002
2	Forced Convention Apparatus	1	Ind Lab	21/03/2002
3	Natural Convention Apparatus	1	Ind Lab	21/03/2002
4	Emissivity Measurement Apparatus	1	Ind Lab	21/03/2002
5	Stefan Boltzman Apparatus	1	Ind Lab	21/03/2002
6	Parallel & Counter flow heat exchanger Apparatus	1	Ind Lab	21/03/2002
7	Thermal Conductivity of Metal Rod Apparatus	1	Ind Lab	12-01-05
8	Transient Heat Conduction Apparatus (Material : MS, SS and Length : 200mm)	1	Ind Lab	12-01-05
9	Vapour - Compr Refrigeration Apparatus	1	Ind Lab	14/03/2006
10	Composite wall Apparatus	1	Devale	06-12-98

The Sample copy of Servicing of equipments is shown in fig 6.1



DIGITAL INSTRUMENTS INDIA

(Manufacturers & Dealers in Measuring Instruments)

No. 347/5, 1st Cross, Sharadambanagar, Jalahalli Village, Bangalore-560 013. Phone : 23457427

TIN : 29560016776 dt. 01.04.2003
CST No : 72875343 dt. 27.05.1994

Testing & Measuring Instruments

- * Oscilloscopes
- * Multimeters
- * Tong Testers
- * Meggers
- * Panel Meters
- * Tachometer
- * Temperature Indicators/Controllers
- * Laboratory Equipments
- * Counters & Timers
- * Power Supplies
- * Signal Generators
- * Rheostats
- * P.H. Meters
- * Conductive Meters
- * Spectro Meters
- * Thermo Couple Calibrators

CALIBRATION CERTIFICATE FOR PRESSURE GAUGE SET UP

Customer Name & Address:

M/s K.S. INSTITUTE OF TECHNOLOGY,
#14, RAGHUVANAHALLI,
KANAKAPURA ROAD,
BANGALORE - 560062

CAL. CERT	CALIBRATION ON	RECOMMENDED CALL DUE ON	PAGE NO
DII - 3050	30.03.2020	29.03.2021	1-2

Details of Device under Calibration (DUC):

Electrical Measurements

- * Stabilizers
- * Rectifiers
- * Motors
- * Gen Sets
- * UPS

DUC : Digital Indicator of Pressure Cell	Cal Procedure No: DII/ CAL/ 210
Make: Industrial Engg Instruments	No of Pages : 2
Model :	DUC Received : 25.01.2020
SL No :	DUC Condition on Receipt : Satisfactory
Cal AT : K.S. Institute of Technology, MM Lab	

Communication Equipments

- * T.V Demonstrators
- * Radio Demonstrators
- * Optical Fibre
- * AM/FM Signal Generators
- * EPBAX

Environmental Conditions:

Temperature: 25 +/- 2°C

Humidity: 45 - 70%

Standard Used

No	Nomenclature	Make & Model	Error STD / Measure Equipments	Validity
1	Digital Dead weight Pressure Tester	DIGITRONIX	0.001Kg/Cm ²	30.03.2021

Note:

- 1) The Calibration Certificate relates only to the above DUC.
- 2) Corrections / erasing invalidate the calibration Certificate.
- 3) Calibration of the DUC are traceable to National standards / international Standards
- 4) Any error in this certificate should be brought to our knowledge within 45 days from the date of this certificate.
- 5) Results reported are valid at the time of & under the stated conditions of measurements.

CALIBRATED BY

[Signature]



INSPECTED BY

[Signature]

DIGITAL INSTRUMENTS INDIA
No: 347/5, 1st Cross, Sharadambanagar, Jalahalli Village,
BANGALORE-13. Ph: (080)28382824.

RESULTS:

No	Range	STD Input	DUC Reading	STD Meter Reading	Error Claimed	Deviation Observed
1	0 - 10Kg/Cm ²	1Kg/cm ²	1.0Kg/cm ²	1.01	0.1	0.01
2		2Kg/cm ²	2.0Kg/cm ²	2.02	0.1	0.02
3		3Kg/cm ²	3.0Kg/cm ²	3.02	0.1	0.02
4		4Kg/cm ²	4.0Kg/cm ²	4.05	0.1	0.05
5		5Kg/cm ²	5.0Kg/cm ²	5.05	0.1	0.05
6		6Kg/cm ²	6.0Kg/cm ²	6.05	0.1	0.05
7		7 Kgcm ²	7.0Kg/cm ²	7.06	0.1	0.06
8		8Kg/cm ²	8.0Kg/cm ²	8.06	0.1	0.06
9		9Kg/cm ²	9.0Kg/cm ²	9.07	0.1	0.07
10		10Kg/cm ²	10.0Kgcm ²	10.08	0.1	0.08

CONCLUSION: The Reading observed is within the limits of readings claimed.

CALIBRATED BY

[Signature]



INSPECTED BY

[Signature]

6.4. PROJECT LABORATORY (5)

The students of Mechanical engineering are also permitted to do their mini and major projects at the following laboratories besides regular project laboratory. The details of project laboratory facilities created is shown in table 6.4

Table 6.4 : Project Laboratory facilities created.

SL. No.	Name of the Facilities	Equipment	Utilization
1	Project Laboratory (Designated)	ANSYS, CATIA, AUTOCAD,	UG/PG students, Research Scholars and Faculty members utilize these softwares for modeling and analysis of components in their projects
2	R & D Lab	1. PINON DISC	UG/PG students, Research Scholars and Faculty members utilize for their projects and research activities to test wear rates.
		2. HEAT PIPES	
3	Machine Shop	Lathe, Shaping machine and Power Hacksaw machine	UG students and Faculty members utilize for machining the components for their projects.
4	Material Testing Lab	Universal Testing Machine	UG/PG students, Research Scholars and Faculty members utilize for measuring the strength of fabricated parts/ composite materials as part of research activities
5	CAD/CAM Lab	ANSYS, CNC TURNING, CNC MILL	UG/PG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities by machining their components using these devices

6	Energy Conversion Lab	Four Stroke four cylinder diesel engine, Six gas analyzer to measure emissions	UG, Research Scholars and Faculty members conducts experiments to investigate performance and emissions using different fuel additives
7	Fluid mechanics & Machinery Lab	Major Losses in pipe flow	UG utilize this to measure frictional losses of fluids when it flows through pipes
8	Measurements & Metrology Lab	Sine guage, LVDT, RVDT, Strain guage.	UG/PG students, Research Scholars and Faculty members utilize for their projects to measure strain rates
9	Workshop for SAE KSIT Collegiate club	Welding machine and all the hand tools	UG students utilize this facility to assemble the fabricated parts for their projects
10	Workshop for Gokarting club	Grinding wheel with different size cutter and all the hand tools	UG students utilize this facility to assemble the fabricated parts for their projects

PROJECT BATCHES AT DEPARTMENTAL PROJECT LABORATORY (2020-21)

The students utilize the project lab and facilities in other lab for their project work. The details of few final year projects in the academic year 2018-19 is shown below.

Batch. No.	USN	Name of the Student	Section	Name of the project Guide	Title of project work
1	1KS17ME009	ANIRUDH M V	A	Dr.Girish TR	characterization of aluminium metal matrix composites
	1KS17ME047	PARIKSHITA MS	A		
	1KS17ME030	JEEVAN KUMAR	A		
	1KS17ME028	IMPAL D RAJ	A		

2	1KS17ME018	DARSHAN BS	A	Prof.Anil kumar A	Design and fabrication of turbo charger with zero turbo lag
	1KS17ME003	ABHILASH KS	A		
	1KS17ME013	ASIF K	A		
	1KS17ME050	PRAKASH Y	A		
3	1KS17ME031	JITHU K MENON	A	Prof. Umashankar M	Design and fabrication of solid waste collector
	1KS17ME044	NAGESH BU	A		
	1KS17ME021	DHEERAJ PASUPULETI	A		
	1KS17ME032	ASHISH K BHARADWAJ	A		
4	1KS18ME415	HARSHITH MP	A	Dr.Nirmala L/ Prof. Rajesh	corrosion behaviour of Al MMC'S
	1KS18ME411	DILEEP KUMAR HS	A		
	1KS18ME410	DHANUSH S	A		
	1KS18ME419	LOHITH BM	A		
5	1KS18ME401	ADARSH N	A	Prof. K.Prasad	Manifold Injection Analysis Using CFD Simulation
	1KS18ME402	AJAYKUMAR H	A		
	1KS18ME405	ANAnDRAJ J	A		
	1KS18ME414	GOWTHAM S	A		
6	1KS17ME012	ASHUTHOSH VILAS JAIN	A	Prof.Saleem Khan	Analysis and validation of the parameters which will affect the life of gas turbine blade coating by thermal barrier coatings
	1KS17ME019	DARSHAN GOWDA S	A		
	1KS17ME039	MANOJ HS	A		
	1KS17ME048	PARIKSHITH K KASHYAP	A		

7	1KS17ME043	MOLKALU PUNITH	A	Dr.Nagaprasad KS	study of usage of combination of after treatment device into existing diesel engine
	1KS17ME035	KIRAN R	A		
	1KS18ME417	KARAN C	A		
	1KS18ME412	ESHAWARAN P	A		
8	1KS17ME008	ANIRUDH BHARADHWAJ	A	Prof. K.Prasad	Kitchen and garden waste shredding and composting
	1KS17ME014	BHARATH KUMAR G	A		
	1KS17ME024	GANAPATHI MANJUNATH H	A		
	1KS17ME025	GANESH KUMAR NARAYAN H	A		
9	1KS16ME018	HARIPRASAD R	A	Prof.Ranganath N	Design and fabrication of solar groundnut harvesting machine
	1KS16ME005	ABHILASH S SHETTY	A		
	1KS16ME003	ABHILASH S	A		
	1KS16ME043	MANOJ KUMAR N	A		
10	1KS17ME051	PRAVEEN KUMAR	A	Prof. Gautham S	Experimental analysis of heat transfer characteristics of internally helical grooved copper tubes
	1KS17ME006	AKASH K L	A		
	1KS17ME016	CHETHAN N	A		
	1KS17ME036	KONDA ANIL KUMAR REDDY	A		

11	1KS18ME400	APEKSHA H D	A	Prof.Ranganath N	DESIGN AND FABRICATION OF SUGARCANE HARVESTING MACHINE
	1KS18ME408	BALAKRISHNA	A		
	1KS18ME416	HEMA PRASAD Y	A		
	1KS18ME418	KIRAN KUMAR GN	A		
12	1KS18ME400	ADARSH D	A	Prof. Parashuram AK	Computational fluid analysis of hydraulic valve for flow parameters
	1KS18ME409	CHETHAN M	A		
	1KS18ME413	GAGAN GOWDA R	A		
	1KS18ME437	VINAY C	B		
13	1KS17ME056	RAGHUNANDAN M	B	Prof.Anil kumar A	a study on mechanical characterization of aluminiummetal matrix composites reinforced with aloe vera powder
	1KS17ME087	TULASIPRSAD	B		
	1KS17ME086	TEJAS P	B		
	1KS17ME063	RUDRAPADA BHARAT KUMAR	B		
14	1KS17ME078	SHREYAS S	B	Dr.Nirmala L	Design and fabrication of Multi purpose agricultural machine
	1KS17ME079	SHRI HARSHA P	B		
	1KS17ME066	SANTHOSH G	B		
	1KS17ME055	R JAI KRISHNA	B		
15	1KS18ME407	ATHISH PRAKASH	A	Prof.Manjunath BR	Design and fabrication of disinfection tunnel for school and college
	1KS18ME431	SHARATH GOWDA PS	B		

	1KS18ME434	SRIHARI R	B		
	1KS18ME435	SRNIVAS MURTHY YR	B		
16	1KS17ME072	SHASHANK PAWAR E	B	Prof.Anil kumar A	Numerical investigation on the acoustic properties of cylindrical shell with micro voids
	1KS17ME074	SHASHANKH MG	B		
	1KS17ME052	PRITHVI B	B		
	1KS17ME038	KUSHAL RAO	A		
17	1KS17ME438	SUMANTH B SAGAL	B	Dr.Girish TR	Design and fabrication of paper cutting machine using geneva mechanism
	1KS17ME443	TILAK R	B		
	1KS14ME116	SANTHOSH M	B		
	1KS17ME429	PUNEETHA S	B		
18	1KS18ME420	LOHITH L	B	Prof.Saleem Khan	Design And Fabrication Of multi purpose sanitization robot
	1KS18ME423	NAVEEN SB	B		
	1KS18ME422	NAGASHREE SS	B		
	1KS18ME432	SHIVARAJU R	B		
19	1KS17ME070	SHARATH R CHAWAN	B	Prof.Bharath Kumar KR	Detection of surface irregularities in manufactured component using delta robot
	1KS17ME097	YASHAS GV	B		
	1KS17ME090	V VINAY	B		
	1KS17ME040	MANOJ M	A		
20	1KS17ME089	V JAYANTH	B	Prof.Bharath Kumar KR	COOLING OF solar PV

	1KS17ME075	SHASHI KUMAR G	B		CELL using phase change materials
	1KS17ME091	VARUN S KADAM	B		
	1KS17ME022	DILEEP S K	A		
21	1KS18ME429	SAMARHTA S	B	Prof.Harish U	Design and fabrication of power weedre and cutting grass
	1KS18ME433	SHIVU S	B		
	1KS18ME438	VINAY Y	B		
	1KS18ME428	RAKESH SJ	B		
22	1KS18ME425	P ROHIT	B	Prof.Saleem Khan	Design and fabrication of manual mulching machine
	1KS18ME426	PAVAN R	B		
	1KS18ME430	SHARAN BASAPPA S HUNAGUND	B		
	1KS18ME436	SUMANTH K	B		
23	1KS17ME053	PUNEETH GOWDA.N	B	Prof. Gautham S	CFD analysis of Auto disinfection system
	1KS17ME076	SHASHI KIRAN	B		
	1KS17ME081	SKANDA.S	B		
	1KS17ME083	SOWRAV.A	B		
24	1KS17ME085	Tanushree C	B	Prof.Nagabhushan M	CFD and FEA of Manifold & Skid Assembly
	1KS17ME077	Shoiab Mahaboob Shaik	B		
	1KS17ME001	Abbas Razin	A		
	1KS17ME062	Ravi KV	B		

25	1KS17ME007	Anandu K Sanil	A	Prof. Umashankar M	ergonomics, smart chair
	1KS17ME042	Mohsin Shaikh	A		
	1KS15ME011	Arjun M Sindhya	A		
	1KS15ME034	Kiran Nagesh	A		
26	1KS17ME054	R.Gokul	B	Prof. K.Prasad	EXPERIMENTAL STUDIES ON PORTABLE ARCHIMEDES SCREW MICRO-HYDRO GENERATOR
	1KS17ME059	Rajath N.R	B		
	1KS17ME067	Satwik shivaram bhat	B		
	1KS17ME071	Shashank L	B		
27	1KS17ME046	NITIN L	A	Dr.Nagaprasad KS	STUDY OF combination of after TREATMENT DEVICE INTO EXISTING DIESEL ENGINE FUELLED BY NANOPARTICLES
	1KS17ME041	MOHAMMAD FAUZAN	A		
	1KS17ME037	KUNDAN BALARAM	A		
	1KS17ME034	KIRAN C	A		
28	1KS17ME057	Raghunandan M C	B	Prof.Bharath Kumar KR	Design and fabrication of heat sink for atmospheric water generato
	1KS17ME064	Rethina seelan S R	B		
	1KS17ME061	Ranjeet kulkarn	B		
	1KS17ME080	Siddesh	B		
29	1KS17ME065	Sandeep SP	B	Prof.Anil kumar A	Experimental analysis on heat transfer characterstics of internally helical grooved copper tubes
	1KS17ME092	Vasunidhi S	B		
	1KS17ME096	Vishnu Tejas T M	B		
	1KS18ME427	PRAJWAL B	B		
30	1KS16ME103	RAGHAVENDRA R	B	Prof. Parashuram AK	Heat flow characteristics of oscillating heat pipes by

	1KS16ME420	RAGHAVENDRA M R	B		using binary mixture of fluids
	1KS17ME403	BHARGAV G	B		
	1KS17ME414	KAUSHIK HM	B		
31	1KS17ME004	Aditi RS Singh	B	Prof. Gautham S	Fabrication of chainless bicycle
	1KS17ME045	Nischal V Chadaga	A		
	1KS17ME020	Darshan V	A		
	1KS17ME099	Adithya R Bhat	A		
32	1KS15ME107	Y SUHAS	B	Prof.Manjunath BR	study on effect of parameters on surface roughness in wire electrical discharge machining
	1KS15ME101	VENKATESH S	B		
	1KS16ME078	SHASHIKANTH ASHOK	B		
	1KS16ME007	ABHISHEK RAJ	B		
33	1KS17ME023	EASHWAR A N	A	Prof. K.Prasad	Design and fabrication of Atmospheric water condenser
	1KS17ME033	KARTHIK DALBHANJAN	A		
	11KS17ME011	Arjun prasad-	A		
	1KS17ME068	SHANKAR RAM S	B		
34	1KS17ME069	SHARATH N	B	Prof.Harish U	CFD analysis of airfoil
	1KS17ME093	VENKATESH K	B		
	1KS17ME094	VENKATESH PRASAD G	B		
	1KS17ME095	VIKAS KC	B		

35	1KS17ME400	AMITHESH	B	Dr.Girish TR	experimental analysis of epoxy polyster coating and aluminium 6061 alloy for wear and hardness testing
	1KS18ME439	VISHNU PRAKASH M P	B		
	1KS17ME060	RAMU Y P	B		
	1KS17ME088	UDAY R	B		
36	1KS16ME050	NANDESH M	B	Dr.Nagaprasad KS/Dr.Nirmala L	Energy audit on renewable energy resources
	1KS16ME065	PRAVEEN L N	A		
	1KS16ME066	PRUTHVIRAJU MS	A		
	1KS16ME074	SAIADITHYA C H	A		
37	1KS16ME412	MOHAN	A	Prof.Manjunath BR	fabrication of composite material using coconut, walnut shell and rice husk with epoxy resin by hand layup technique
	1KS17ME407	DEVIPRASAD	A		
	1KS16ME104	RAGHU S	A		
	1KS16ME402	AKSHAY S MASHAL	A		

6.5 SAFETY MEASURES IN LABORATORIES (10)

The following safety measures are used in all the labs:

- Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students.
- First aid box and fire extinguishers are kept in each laboratory.
- Students are supposed to wear Lab Uniform along with shoes.
- Well trained technical supporting staff monitor the labs at all times.
- Damaged equipments are identified and serviced at the earliest.
- Periodical calibrations of the lab equipments are regularly done.
- Clean and organized laboratories are maintained.
- The use of cell phones is prohibited.
- Appropriate storage areas are available.
- Fully and rightly loaded PC Systems with needed software are readily available for students' usage.

Table 6.5.1: List of Safety measures in each Lab

Sl. No.	Name of the Laboratory	Safety measures
1	Computer Aided Engineering Drawing	<ol style="list-style-type: none"> 1. Report any broken plugs or exposed electrical wires to your Lecturer/laboratory technician immediately. 2. Avoid stepping on electrical wires or any other computer cables. 3. Do not open the system unit casing or monitor casing particularly when the power is turned on. 4. Do not insert metal objects such as clips, pins and needles into the computer casings. They may cause fire. 5. Do not remove anything from the computer laboratory without permission. 6. Do not plug in external devices without scanning them for computer viruses. 7. Turn off the computer when not in use. 8. Do not consume food or water near the computers.
2	Computer Aided Machine Drawing	<ol style="list-style-type: none"> 1. Report any broken plugs or exposed electrical wires to your Lecturer/laboratory technician immediately. 2. Avoid stepping on electrical wires or any other computer cables. 3. Do not open the system unit casing or monitor casing particularly when the power is turned on. 4. Do not insert metal objects such as clips, pins and needles into the computer casings. They may cause fire. 5. Do not remove anything from the computer laboratory without permission. 6. Do not plug in external devices without scanning them for computer viruses. 7. Turn off the computer when not in use. 8. Do not consume food or water near the computers.
3	Foundry and Forging Lab	<ol style="list-style-type: none"> 1. Always wear proper clothes such as apron, foot-wears and goggles. 2. The anvil should always be clean and free from moisture and grease while in use. 3. Always avoid the use of damaged hammers. 4. Never try to strike a hardened surface with a hardened tool. 5. Head of the chisel should be free from burrs and should never be allowed to spread.

		6. Please take care of Shovel, Riddle, Rammer, Trowel tools and usages. 7. While handling the molten metal, please use proper equipments and must be careful. 8. Know the location of the fire extinguisher and the first aid box and how to use them in case of an emergency. 9. Handle the hot oven with proper hand gloves. 10. Ensure the cleanness before and after the job 11. Do not misplace the equipments.
4	Metrology and Measurement Lab	1. Report any broken plugs or exposed electrical wires to your Lecturer/laboratory technician immediately 2. Laboratory uniform, shoes & safety glasses are compulsory in the lab. 3. Please follow instructions precisely as instructed by your supervisor. Do not start the experiment unless your setup is verified & approved by your supervisor. 4. If any part of the equipment fails while being used, report it immediately to your supervisor. Never try to fix the problem yourself because you could further damage the equipment and harm yourself and others in the lab. 5. Do not leave the experiments unattended while in progress. 6. Do not crowd around the equipments & run inside the laboratory. 7. Please do take care of vernier calliper, sensor and transducers which your handling. 8. Do not misplace the equipments. 9. Ensure the cleanliness before and after the job. 10. All accidents, including minor injuries and all hazardous conditions are to be reported immediately to the Laboratory Staff or the Director. 11. Check the tools before and after the work 12. Learn the equipment before the operation
5	Machine Shop Lab	1. Check the tools before and after the work. 2. Learn the machine before the operation. 3. Double check that your work piece is securely held or not. 4. Keep the body parts away from the running machine. 5. Do not change the speed and measure the dimension when machine is running. 6. Do not remove the guards from the running machine.

		<p>7. Do not leave running machine un attended</p> <p>8. Ensure the cleanliness before and after the job.</p> <p>9. Use proper lubricant while machining</p>
6	Fluid Mechanics and Machinery Lab	<p>1. Report any broken plugs or exposed electrical wires to your Lecturer/laboratory technician immediately</p> <p>2. Laboratory uniform, shoes & safety glasses are compulsory in the lab.</p> <p>3. Please follow instructions precisely as instructed by your supervisor. Do not start the experiment unless your setup is verified & approved by your supervisor.</p> <p>4. If any part of the equipment fails while being used, report it immediately to your supervisor. Never try to fix the problem yourself because you could further damage the equipment and harm yourself and others in the lab.</p> <p>5. Do not leave the experiments unattended while in progress.</p> <p>6. Do not crowd around the equipments& run inside the laboratory.</p> <p>7. Please do take care of measuring instruments which you are handling.</p> <p>8. Do not misplace the equipments.</p> <p>9. Ensure the cleanliness before and after the job</p> <p>10. All accidents, including minor injuries and all hazardous conditions are to be reported immediately to the Laboratory Staff.</p>
7	Energy Conversion Lab	<p>1. Laboratory uniform, shoes & safety glasses are compulsory in the lab.</p> <p>2. Report any broken plugs or exposed electrical wires to laboratory technician immediately.</p> <p>3. Report fires or accidents to your lecturer/laboratory technician immediately.</p> <p>4. Do not crowd around the equipments& run inside the laboratory</p> <p>5. If any part of the equipment fails while being used, report it immediately to your supervisor. Never try to fix the problem yourself because you could further damage the equipment and harm yourself and others in the lab.</p> <p>6. Do not leave the experiments unattended while in progress.</p> <p>7. Never allow a solvent to come in contact with your skin. Always use gloves.</p> <p>8. Dispose of waste and broken glassware in proper containers.</p>
8	Modelling and analysis Laboratory	<p>1. Report any broken plugs or exposed electrical wires to your Lecturer/laboratory technician immediately.</p> <p>2. Avoid stepping on electrical wires or any other computer cables.</p>

		<p>3. Do not open the system unit casing or monitor casing particularly when the power is turned on. Some internal components hold electric voltages of up to 30000 volts, which can be fatal.</p> <p>4. Do not insert metal objects such as clips, pins and needles into the computer casings. They may cause fire.</p> <p>5. Do not remove anything from the computer laboratory without permission.</p> <p>6. Do not plug in external devices without scanning them for computer viruses.</p> <p>7. Periodically glance away from the screen. Staring into a computer monitor too long will strain your eyes.</p> <p>8. Turn off the computer when not in use.</p> <p>9. Do not consume food or water near the computers</p>
9	Heat and Mass Transfer Lab	<p>1. Laboratory uniform, shoes & safety glasses are compulsory in the lab.</p> <p>2. Report any broken plugs or exposed electrical wires to laboratory technician immediately.</p> <p>3. Report fires or accidents to your lecturer/laboratory technician immediately.</p> <p>4. Do not crowd around the equipments& run inside the laboratory</p> <p>5. If any part of the equipment fails while being used, report it immediately to your supervisor. Never try to fix the problem yourself because you could further damage the equipment and harm yourself and others in the lab.</p> <p>6. Do not leave the experiments unattended while in progress.</p> <p>7. Never allow a solvent to come in contact with your skin. Always use gloves.</p> <p>8. Dispose of waste and broken glassware in proper containers.</p>
10	CIM Lab	<p>1. Report any broken plugs or exposed electrical wires to your Lecturer/laboratory technician immediately.</p> <p>2. Avoid stepping on electrical wires or any other computer cables.</p> <p>3. Do not open the system unit casing or monitor casing particularly when the power is turned on. Some internal components hold electric voltages of up to 30000 volts, which can be fatal.</p> <p>4. Do not insert metal objects such as clips, pins and needles into the computer casings. They may cause fire.</p> <p>5. Do not remove anything from the computer laboratory without permission.</p>

		6. Do not plug in external devices without scanning them for computer viruses. 7. Periodically glance away from the screen. Staring into a computer monitor too long will strain your eyes. 8. Turn off the computer when not in use. 9. Do not consume food or water near the computers
11	Design Lab	1. Report any broken plugs or exposed electrical wires to your Lecturer/laboratory technician immediately 2. Laboratory uniform, shoes & safety glasses are compulsory in the lab. 3. Please follow instructions precisely as instructed by your supervisor. Do not start the experiment unless your setup is verified & approved by your supervisor. 4. If any part of the equipment fails while being used, report it immediately to your supervisor. Never try to fix the problem yourself because you could further damage the equipment and harm yourself and others in the lab. 5. Do not leave the experiments unattended while in progress. 6. Do not crowd around the equipments& run inside the laboratory. 7. Please do take care of measuring instruments which you are handling. 8. Do not misplace the equipments. 9. Ensure the cleanliness before and after the job 10. All accidents, including minor injuries and all hazardous conditions are to be reported immediately to the Laboratory Staff.

CRITERIA 7	CONTINUOUS IMPROVEMENT	50
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7. CONTINUOUS IMPROVEMENT

7.1 ACTION TAKEN BASED ON THE RESULTS OF EVALUATION OF EACH OF THE POS AND PSOS (20)

POs - Attainment Levels and Actions for improvement 2016- 20 Batch (2019-20)

POs	Target Level	Attainment Level	Observation
PO1 : Engineering knowledge			
PO1	1.8	2.27	1. Target is attained. 2. It is proposed to increase the target level in the next academic year.
Action 1: Bridge course were conducted for the 1 st Semester students before commencement of academic year. Action 2: Conducted technical training program by the experts of particular domain for 7 th Semester students to improve the knowledge in the engineering field.			
PO2 : Problem analysis			
PO2	1.8	1.81	1. Target is attained. 2. It is proposed to increase the target level in the next academic year.
Action 1: Conducted tutorial classes for weak students to improve their fundamentals in engineering.			
PO3 : Design/development of solutions			
PO3	1.6	1.58	1. Target is not attained.
Action 1: Students were trained on concepts of 3D modeling using various software like CATIA.			
PO4 : Conduct investigations of complex problems			
PO4	1.6	1.56	1. Target is not attained.
Action 1: Established the student chapter of Indian Institute of Foundry Men on 19 th September 2019. The student chapter was inaugurated by Dr. R Ranganath, Chairman of IIF.			

PO5 : Modern tool usage			
PO5	1.6	1.83	1. Target is attained. 2. It is proposed to increase the target level in the next academic year.
Action 1: Students on briefed on the importance of various design and analysis software during theory and practical classes.			
PO6: The engineer and society			
PO6	1.5	1.5	1. Target is attained. 2. It is proposed to increase the target level in the next academic year.
Action 1: Organised workshop on development of electric motor cycle from 31-10-2019 to 3-11-2019 by Mr. PiyushVerma, Alumini of KSIT, Bengaluru.			
PO7 : Environment and sustainability			
PO7	1.6	1.65	1. Target is attained. 2. It is proposed to increase the target level in the next academic year.
Action 1: Conducted industrial visit to Hydro and solar power plant at shivanasamudra on 5 th November 2019.			
PO8 : Ethics			
PO8	1.6	1.78	1. Target is attained. 2. It is proposed to increase the target level in the next academic year.
Action 1: Conducted one week NSS camp and explained the ethical values to students.			
PO9 : Individual and team work			
PO9	1.7	1.87	1. Target is attained. 2. It is proposed to increase the target level in the next academic year.
Action 1: Inter-departmental technical test “EMANATION” was organized for students to improve their oratory skills. Action 2: Placement training was conducted for all students by soft skills trainer during the beginning of the semester and ideas were given on how to improve their leadership skills and how to manage a team.			
PO10 : Communication			
PO10	1.6	1.95	1. Target is attained. 2. It is proposed to increase the target level in the next academic year.
Action 1: Technical seminars were held to improve their communication skills. Action 2: Placement training was conducted for all students by soft skills trainer during the beginning of the semester.			

PO11: Project management and finance			
PO11	1.7	1.76	1. Target is attained. 2. It is proposed to increase the target level in the next academic year.
Action 1: Conducted program on Innovation, Motivation and Entrepreneurship in foundry industry.			
PO12: Life-long learning			
PO12	1.6	1.53	1. Target is not attained.
Action 1: Students were encouraged to enroll for NPTEL online training courses. Action 2: Students were motivated to write technical papers and attend national and international symposia/conferences. Action 3: Guidelines were given the students on how to crack the competitive exams.			

PSOs - Attainment Levels and Actions for improvement 2016- 20 Batch (2019-20)

PSOs	Target Level	Attainment Level	Observation
PSO1: Ability to apply concept of mechanical engineering to design a system, a component or a process/system to address a real world challenges.			
PSO1	1.8	1.82	1. Target is attained. 2. It is proposed to increase the target level in the next academic year.
Action 1: Organised workshop on development of electric motor cycle from 31-10-2019 to 3-11-2019 by Mr. PiyushVerma, Alumini of KSIT, Bengaluru.			
PSO2: Ability to develop effective communication, team work, entrepreneurial and computational skills.			
PSO2	1.6	1.53	1. Target is not attained
Action 1: Encouraged students to participate in various national conferences. Action 2: Students were given ideas on how to improve their leadership skills and how to manage a team. Action 3: Motivated students by organizing technical talks and project exhibitions. Action 4: Established a GO KART club in the department for the enhancement of skills in students.			

7.2 ACADEMIC AUDIT AND ACTIONS TAKEN THEREOF DURING THE PERIOD OF ASSESSMENT (10)

A. Academic Audit Conduct Mechanism:

The Department of Mechanical Engineering undergoes internal audit once in a semester by two senior faculties from other department. The department also undergoes external audit once in a year by academicians from sister institutions.

Audit observations from the internal audit and external audit are placed before the Department Advisory Committee (DAC) for its implementation. The DAC discusses about the observations and if found necessary, then it is placed before the Program Assessment Committee (PAC) for its approval. Further, the PAC discusses on the observations and if found necessary, then it gives approval for DAC for its implementation. The academic audit process is shown in fig 7.1

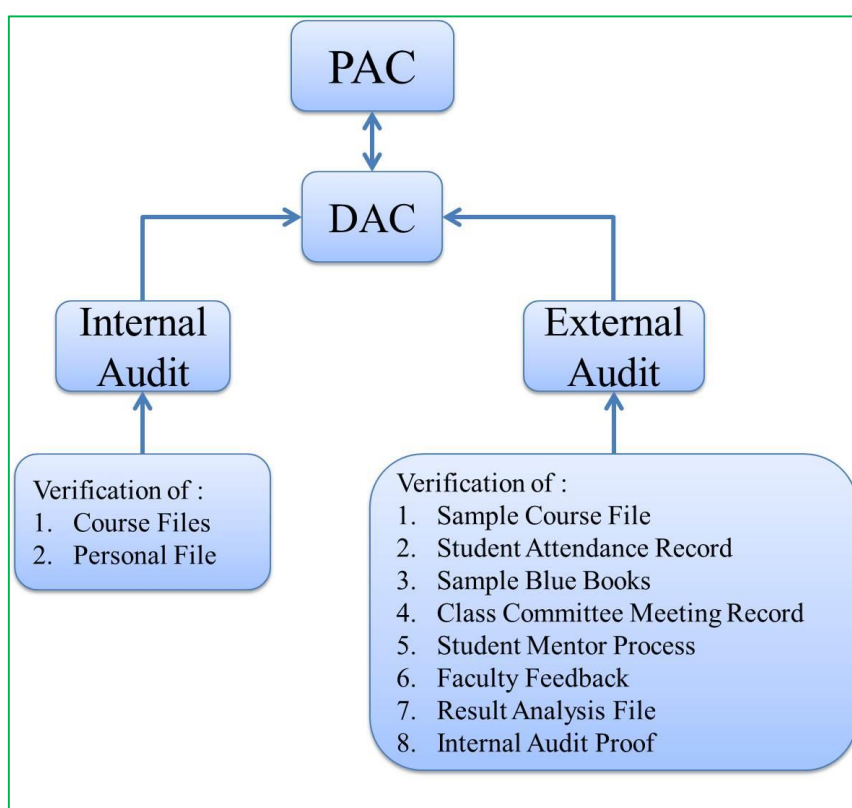


Figure 7.1 Academic Audit process

B. Academic Audit Committees & Assessment Criteria:

1. Program Assessment Committee (PAC)
2. Department Advisory Committee (DAC)
3. Internal Audit
4. External Audit

1. PROGRAM ASSESSMENT COMMITTEE (PAC)

The PAC has been formed for monitoring of different departmental activities. The PAC consists of Principal and faculty members of the department, who periodically monitor the departmental activities and evaluate different parameters. Following are the members of PAC.

Table 7.1 Program Assessment Committee Members

Sl. No.	Name	Designation
1.	Dr. T V Govindaraju	Principal and Chairperson
2.	Prof.M. Umashankar	Associate Professor and HOD, Mechanical
3.	Dr. Ajay kumar B S	Professor
4.	Dr. Girish T R	Associate Professor
5.	Mr. Nagabhushana M	Associate Professor
6.	Mr. K Prasad	Associate Professor
7.	Mr. Ranganath N	Assistant Professor
8.	Mr. Anil Kumar A	Assistant Professor
9.	Mrs. Nirmala L	Assistant Professor
10.	Mr. Abihshek M R	Assistant Professor
11.	Mr. K.V. Manjunath	Assistant Professor
12.	Mr. B R Manjunath	Assistant Professor
13.	Mr. Palaksha	Foremen

Roles and responsibilities of the PAC:

1. Monitoring the activities of the department to check whether they are achieving the Vision and Mission.
2. Suggesting way and means to reduce the curriculum gaps in achieving PO's and PSO's.
3. Evaluating program effectiveness and proposing necessary changes.
4. Measuring the extent of adherence to planned activities and calendar of events.

2.DEPARTMENT ADVISORY COMMITTEE (DAC)

In an attempt to bring about continuous improvement, DAC has been formed. The DAC consists of faculty members & technical staff of the department, academicians from other institution, resource persons from Industry, alumni and students. Following are the members of the DAC.

Table 7.2 Department Advisory Committee Members

Sl. No.	Name of the Member	Designation
1	Mr. Umashankar M	HOD, Mechanical
2	Mr. M. Nagabhushana	Associate Professor
3	Mr. K. Prasad	Associate Professor
4	Mr. Nagaprasad K.S	Associate Professor
5	Mrs. Nirmala L	Associate Professor
6	Mr. Naresha K	Assistant Professor
7	Mr. Ranganath N	Assistant Professor
8	Mr. Imam Hussain	Industry

9	Mr. Shirish P	Alumni
10	Mr. Ravi P.S.	Alumni
11	Mr. Lohith T.P. (1KS15ME040)	Student
12	Mr. Amogha. M. Kekuda (1KS16ME008)	Student
13	Mr. Chethan.N (1KS17ME016)	Student
14	Mr. Anirudh R Srivatsa (1KS18ME005)	Student

Roles and responsibilities of the Departmental Advisory Committee (DAC)

1. Study and suggest improvement in all the academic activities in the department including identification of faculty to teach courses, offering elective courses and time table preparation and so on.
2. Introduce best practices/systems for attainment of PEO's.
3. Encourage industry-institute interactions to bridge curriculum gaps and suggest initiatives to enhance employability skill sets.
4. Redefine existing PEO's (As and when felt necessary), aligning of PEO's to the mission statements and defining program specific outcomes.
5. Constantly monitor the skill sets among current students and propose necessary action plan for skill development through technical and soft skills training.
6. Encourage 'Entrepreneurship Development' through special training.
7. Identify and suggest thrust areas to conduct various activities like final year projects, training courses and additional experiments to meet PEO's.
8. Evaluate proposals/ offers for internship and guide students with respect to advanced technologies sought from the industries.
9. Plan Guest Lectures (Minimum two to three) and Industrial Visits (Minimum two) throughout the semester.
10. Motivate students to organize Project Exhibition and also participate in competitions.
11. Plan any academic activity like Workshops and Seminars.
12. Sustaining the activities of Professional Bodies and their Students Chapters.

3. INTERNAL AUDIT

After completion of the semester, there shall be verification of course files and personal file of all the staffs. The department invites two senior faculties from other department to get the internal audit done. The following are the particulars to be verified under the course file and personal file.

Table 7.1-3:Course File Contents

Sl. No.	Particulars
1	Front Page
2	Vision, Mission of Institute and Department
3	PEO's, PSO's and PO's
4	CO PO PSO Mapping
5	Calendar of Events of Department & College

6	Student Details
7	Individual and Class Time Table
8	Syllabus
9	Lesson Plan
10	Assignment Questions with Scheme
11	IA question Paper with Scheme
12	All IA marks and final AVG marks
13	Slow Learners: Tutorial classes conducted proof
14	Advance Learners: Challenging questions, Question papers from other regional universities, IIT, NIT, Competitive Exam Question Papers - GATE/IES, Mini projects etc.
15	Pedagogy Report and Proofs (Proof of usage of ICT Tools)
16	Content beyond syllabus Material (if any)
17	Question Bank for each Module
18	Previous year VTU Question papers, Scheme for evaluation
19	Course end Survey
20	CO PO attainment

Table 7.1-4: Personal File Contents

Sl.No.	Particulars
1	Academic related marks cards (SSLC, PUC, UG, PG, If available Ph.D.)
2	Experience Certificate
3	Appointment Letter
4	Ph.D. Registered copy (Till date status details - progress reports, Comprehensive reports etc.)
5	Publication details
6	Salary slips (Last one year)
7	Aadhar Card, Pan Card, PF No. Details
8	VTU Examination order copy / Attended details
9	Valuation details

10	Other university work details
11	Promotion letter
12	Awards
13	Workshop attended / conducted
14	Membership details (IEI/ ISTE / SAE etc.)

4. EXTERNAL AUDIT

Academicians from sister institution and **other institutions** to verify the academic process which is being carried out in our department. The following are the particulars to be verified by the expert.

Table 7.1-5: Check list for audit

Sl. No.	Particulars
1	Sample Course File
2	Student Attendance Record
3	Sample Blue Books
4	Class Committee Meeting Record
5	Student Mentor Process
6	Faculty Feedback
7	Result Analysis File
8	Internal Audit Proof

❖ **Course File:**

Every faculty has to maintain a course file for each subject they teach. Course file shall include all the particulars which is mentioned in the course file content table

❖ **Student Attendance Record:**

There shall be an attendance register for each subject maintained by the respective subject faculty. All the three internal assessment marks and average marks will be entered in attendance register.

❖ **Sample Blue Books:**

Each student will write all the three internal assessments in a single book. There will be one blue book for each subject.

❖ **Class Committee Meeting Details:**

After the internal assessment, Class committee meeting will be conducted. Meeting will be conducted twice in a semester, once after 1st Internal and one more after 2nd Internal. Class committee shall include HOD, class teacher and some students. Discussion will happen on syllabus coverage, level of internal question paper and feedback on faculty. The outcome of the meeting is conveyed to subject teachers.

❖ **Student Mentor Process:**

For every group of student one mentor is assigned. After each internal assessment students will be mentored based on their IA performance, also the students are advised by their respective mentor to improve their academic performance. Also the students are advised based on their performance in external examination. Also parents-teachers meeting is conducted every semester.

❖ **Faculty Feedback:**

After 1st and 2nd internal assessment test, feedback from students will be taken on each faculty through web portal. The printout of the feedback will be taken by the head of the institution and evaluates the same. Then feedback will be handed over to the department HODs. HODs intern hands over it to respective staffs. If the feedback is less than 80%, then the respective faculty shall write an explanation and submit it to the principal.

❖ **Result Analysis**

After completion of university exams, the department shall maintain pass percentage of each subject, section wise pass percentage, number of FCD's, number of FC's, number of SC's and number of failed students.

❖ **About Internal Audit**

Department shall maintain internal audit reports of every semester.

C. AUDIT PROOFS:

INTERNAL AUDIT

(i) 2019-20(Odd Semester)



K.S. INSTITUTE OF TECHNOLOGY, BENGALURU-109

DEPARTMENT OF MECHANICAL ENGINEERING

TEACHING STAFF WORK LOAD FOR ODD SEM 2019-20 (ODD- Aug to Dec)

8/11/2019

SL. No.	FACULTY NAME	SEC	SUBJECT WITH CODE	Strength noticed during auditing	Weakness noticed during auditing
1	Prof. Umashankar .M M.SC ENGG.(Ph.D) MISTE Assoc. Professor	V B	Dynamics of Machines - 17ME52	Tutorial classes conducted, Sloved question papers problems	---
		Personal File	Updated		
2	Dr. K V A Balaji M.TECH, Ph.D Professor	I	Elements of Mechanical Engineering - 18ME15	Showed various operations of lathe machine, Sloved question papers problems	---
		V	Project Managemet - 17ME564		
		Personal File	Updated		
3	Dr. B.S. Ajay Kumar M.E, Ph.D Professor	III A	Metal Cutting and Forming - 18ME35A	Showed various cutting operations of lathe, drilling and milling machine, Sloved question papers problems	---
		III B	Metal Cutting and Forming - 18ME35A		
		Personal File	Updated		
4	Mr. Nagabhushana .M M.E (Ph.D), ISTE Assoc. Professor	III A	Mechanics of Materials - 18ME32	Tutorial classes conducted, Sloved question papers problems	---
		III B	Computer Aided Machine Drawing - 18ME36A		

(a)

		Personal File	Updated		
5	Mr. K. Prasad M.Tech (Ph.D), Assoc. Professor	V A	Turbo Machines - 17ME53	Tutorial classes conducted, Sloved question papers problems	---
		VII B	Energy Engineering - 15ME71		
		Personal File	Updated		
6	Mr. Nagaprasad.K.S M.Tech (Ph.D) PGDOM,MISTE, SAE Assoc. Professor	V B	Turbo Machines - 17ME53	Tutorial classes conducted, Sloved question papers problems	---
		VII A	Energy Engineering - 15ME71		
		Personal File	Updated		
7	Dr. Girish .T.R M.Tech (Ph.D), MISTE Assoc. Professor	V A	Design of Machine Elements I - 17ME54	Tutorial classes conducted, Sloved difficult question papers problems	---
		VII A	Tribology -15ME742		
		Personal File	Updated		
8	Mrs. L. Nirmala.M.SC ENGG.(Ph.D) MISTEAsst. Professor	V A	Dynamics of Machines - 17ME52	Showed demo on balancing of rotating masses, governors, solved difficult numericals	---
		III A	Materials Science - 18ME32		
		Personal File	Updated		
9	Mr. K.V. Manjunath M.Tech	IE	Elements of Mechanical Engineering - 18ME15	Showed demo on turbines, lathe, content beyond the syllabus	---

(b)

	Asst. Professor	VII B	Fluid Power Systems - 15ME72		
		Personal File	Updated		
10	Mr. Murulidhar .K.S M.Tech (Ph.D) MISTE Asst. Professor	III A	Basic Thermodynamics - 18ME33	Tutorial classes conducted, Sloved question papers problems	---
		V B	Energy and Environment - 17ME562		
		Personal File	Updated		
11	Mr. Manjunath .B.R M.Tech Asst. Professor	I A	Engineering Graphics - 18EGDL15	Showed 3D models, solved question paper problems	---
		V A	Management and Engineering Economics - 17ME51		
		Personal File	Updated		
12	Mr. Ranaganath .N M.Tech Asst. Professor	III B	Mechanics of Materials - 18ME32	Showed demo on turbines, lathe, content beyond the syllabus	---
		I F	Elements of Mechanical Engineering - 18ME15		
		Personal File	Updated		
13	Mr. Mallikarjun .M.R,M.TechAsst. Professor	I	Engineering Graphics - 18EGDL15	Showed 3D models, solved question paper problems	---
		VII B	Tribology -15ME742		
		Personal File	Updated		

(c)

14	Mr. Naresh K M.Tech Asst. Professor	I G	Elements of Mechanical Engineering - 18ME15	Showed demo on turbines, lathe, content beyond the syllabus	---
		VII A	Mechatronics - 15ME753		
		Personal File	Updated		
15	Mr. Anil Kumar A M.Tech, SAE Asst. Professor	III A	Computer Aided Machine Drawing - 18ME36A	Showed 3D models, solved question paper problems	---
		V B	Design of Machine Elements I - 17ME54		
		Personal File	Updated		
16	Mr. Harish U M.E Asst. Professor	I D	Engineering Graphics - 18EGDL15	Showed 3D models, tutorial classes conducted, Showed videos on Non-Traditional Machining	---
		V B	Non- Traditional Machining - 17ME554		
		Personal File	Updated		
17	Mr. Parashuram A K M.Tech Asst. Professor	III B	Basic Thermodynamics - 18ME33	Tutorial classes conducted, Solved question papers problems	---
		V A	Energy and Environment - 17ME562		
		Personal File	Updated		
18	Mrs. N. Sree Sudha M.Tech Asst. Professor	V B	Management and Engineering Economics - 17ME51	Content beyond the syllabus, Solved question papers problems	---
		VII A	Control Engineering - 15ME73		

(d)

		Personal File	Updated		
19	Mr. Bharath Kumar .K .R M.Tech Asst. Professor	III B	Materials Science - 18ME32	Content beyond the syllabus, Solved question papers problems	---
		VII B	Mechatronics - 15ME753		
		Personal File	Updated		
20	Mr. Pruthviraj .B .S M.Tech Asst. Professor	I A	Elements of Civil Engg. & Engineering Mechanics - 18CIV14	Tutorial classes conducted, Solved question papers problems	---
		I C	Elements of Civil Engg. & Engineering Mechanics - 18CIV14		
		Personal File	Updated		
21	Mr. Madhu G M.Tech Asst. Professor	I C	Engineering Graphics - 18EGDL15	Showed 3D models, tutorial classes conducted, Showed videos on Non-Traditional Machining	---
		V A	Non- Traditional Machining - 17ME554		
		Personal File	Updated		
22	Mr. Gautham S M.Tech Asst. Professor	V Half	Project Management - 17ME564	Content beyond the syllabus, Solved question papers problems	---
		VII A	Fluid Power Systems - 15ME72		
		Personal File	Updated		
23	Mr. Kaushik M M M.Tech	VII B	Control Engineering - 15ME73	Content beyond the syllabus, Solved question papers problems	---

(e)

	Asst. Professor	Personal File	Updated		
24	Mr. Shashi Kumar B R M.Tech Asst. Professor	I B	Elements of Civil Engg. & Engineering Mechanics - 18CIV14	Tutorial classes conducted, Solved question papers problems	—
		I D	Elements of Civil Engg. & Engineering Mechanics - 18CIV14		
		Personal File	Updated		


Auditors Signature


HOD-MECH

(f)

Figure 7.2.(a-f): Sample of internal audit proof (odd Semester)

(ii) Internal audit 2019-20(Even Semester)



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

DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT ALLOTMENT FOR THE ACADEMIC YEAR 2019-2020 (EVEN SEMESTER - FEB TO JUNE)

Date: 03.08.2020

SL. NO.	NAME OF THE STAFF	THEORY SEM	SUBJECT WITH CODE	Strength noticed during auditing	Weakness noticed during auditing
1	Prof. Umashankar .M M.SC ENGG.(Ph.D) MISTE Assoc. Professor	II G	Engineering Graphics - 18EGDL15/25	Solved question paper problems, Showed 3D Models	—
		Personal File	Updated		
2	Dr. T. V. Govindaraju M.E, Ph.D Professor & Principal	IV A	Kinematics of Machines - 18ME44	Showed videos on various mechanism involving KOM	—
		IV B	Kinematics of Machines - 18ME44		
		Personal File	Updated		
3	Dr. K. K V A Balaji M.Tech, Ph.D Professor & CEO	II B	Elements of Mechanical Engineering - 18ME15/25	Showed various operations of different machines, Solved question papers problems	—
		II C	Elements of Mechanical Engineering - 18ME15/25		
		Personal File	Updated		

(a)

4	Dr. Ajay Kumar B.S M.E, Ph.D Professor	VIII B	Additive Manufacturing - 15ME82	Showed videos on various methods of additive manufacturing	—
		Personal File	Updated		
5	Mr. Nagabhushana .M M.E (Ph.D), ISTE Assoc. Professor	VI A	Finite Element Analysis - 17ME61	Solved question paper problems, Content beyond the syllabus	—
		VIII B	Product Life Cycle Management - 15ME835		
		Personal File	Updated		
6	Mr. K. Prasad M.Tech (Ph.D), Assoc. Professor	VI A	Heat Transfer -17ME63	Solved difficult problems	—
		Personal File	Updated		
7	Dr. Nagaprasad.K.S M.Tech (Ph.D) PGDOM,MISTE, SAE Assoc. Professor	VI B	Heat Transfer -17ME63	Solved difficult problems	—
		Personal File	Updated		
8	Dr. Girish .T.R M.Tech Ph.D, MISTE Assoc. Professor	VI A	Design of Machine Elements-II -17ME64	Solved different types of problems	—
		Personal File	Updated		
9	Dr. L. Nirmala M.SC ENGG.(Ph.D) MISTE Asst. Professor	IV A	Kinematics of Machines - 18ME44	Showed videos on various mechanism involving KOM	—
		Personal File	Updated		

(b)

10	Mr. K.V. Manjunath M.Tech (Ph.D) Asst. Professor	II A	Elements of Mechanical Engineering - 18ME25	Showed various operations of different machines, Solved question papers problems	---
		IV A	Mech Measurements and Metrology - 18ME46B		
		Personal File	Updated		
11	Mr. Murulidhar .K.S M.Tech (Ph.D) MISTE Asst. Professor	IV B	Fluid Mechanics - 18ME43	Tutorial classes conducted, Solved question papers problems	—
		IV A	Applied Thermodynamics -18ME42		
		Personal File	Updated		
12	Mr. Manjunath .B.R M.Tech (Ph.D) Asst. Professor	II E	Engineering Graphics - 18GDL25	Solved question paper problems, Showed 3D Models	—
		VIII A	Additive Manufacturing - 15ME82		
		Personal File	Updated		
13	Mr. Ranganath .N M.Tech (Ph.D) Asst. Professor	VI A	Automobile Engineering - 17ME655	Tutorial classes conducted, Solved question papers problems	—
		VI B	Finite Element Analysis - 17ME61		
		Personal File	Updated		

(c)

14	Mr. Naresha K M.Tech (Ph.D) Asst. Professor	VI B	Industrial Safety - 17ME662	Content beyond the syllabus	—
		VIII A	Product Life Cycle Management - 15ME835		
		Personal File	Updated		
15	Mr. Anil Kumar A M.Tech, SAE (Ph.D) Asst. Professor	VI B	Design of Machine Elements-II -17ME64	Tutorial classes conducted, Solved question papers problems	—
		Personal File	Updated		
16	Mr. Harish U M.E (Ph.D) Asst. Professor	IV B	Metal Casting and Welding - 18ME458	Showed demo in foundry lab, Solved question papers problems	—
		VIII A	Operations Research - 15ME81		
		Personal File	Updated		
17	Mr. Parashuram A K M.Tech (Ph.D) Asst. Professor	VI B	Automobile Engineering - 17ME655	Tutorial classes conducted, Solved difficult problems	—
		IV B	Applied Thermodynamics -18ME42		
		Personal File	Updated		
18	Mrs. N. Sree Sudha M.Tech (Ph.D) Asst. Professor	VIA	Computer Integrated Manufacturing - 17ME62	Showed videos on CNC machines, Solved question	—

(d)

		VIII B	Operations Research - 15ME81	papers problems	—
		Personal File	Updated		
19	Mr. Bharath Kumar .K .R M.Tech Asst. Professor	IV B	Mechanical Measurements and Metrology - 17ME468	Showed demo on working of sin bar, sin centre, mechanical comparator etc., Showed videos on CNC machines	—
		VI B	Computer Integrated Manufacturing - 17ME62		
		Personal File	Updated		
20	Mr. Madhu G M.Tech (Ph.D) Asst. Professor	II F	Engineering Graphics - 18EGDL15/25	Solved question paper problems, Showed 3D Models	—
		Personal File	Updated		
21	Mr. Kaushik M M M.Tech Asst. Professor	II C	Elements of Mechanical Engineering - 18EME25	Showed various operations of different machines, Solved question papers problems	—
		IV B	Kinematics of Machines - 18ME44		
		Personal File	Updated		
22	Mr. Gautham S M.Tech Asst. Professor	VI A	Industrial Safety - 17ME662	Explained beyond the syllabus	—
		KSP	One Subject in KSP		

(e)

		Personal File	Updated-		
23	Mr. Ganesh Arjun Bhargav M.Tech Asst. Professor	IV A	Metal Casting and Welding - 18ME458	Showed demo in foundry lab,	---
		KSP	One Subject in KSP		
		Personal File	Updated		
24	Mrs. Tejaswini M L M.Tech (Ph.D) Asst. Professor	II E	Elements of Civil Engg. & Engineering Mechanics - 18CIV24	Tutorial classes conducted, Sloved question papers problems	---
		II F	Elements of Civil Engg. & Engineering Mechanics - 18CIV24		
		Personal File	Updated		
25	Mr. Amruth K M.Tech Asst. Professor	II G	Elements of Civil Engg. & Engineering Mechanics - 18CIV24	Tutorial classes conducted, Sloved question papers problems	---
		Personal File	Updated		
26	Mr. Rajesh G L M.Tech (Ph.D) Asst. Professor	II B	Elements of Mechanical Engineering - 18ME15/25	Showed various operations of different machines, Sloved question papers problems	---
		Personal File	Updated		

(f)

27	Mr. Saleem Khan M.Tech Asst. Professor	IV A	Fluid Mechanics - 18ME43	Tutorial classes conducted, Sloved question papers problems	---
		Personal File	Updated		


Auditors Signature


HOD-MECH

(g)

Figure 7.3 (a-g): Sample of internal audit proof (Even Semester)



K S INSTITUTE OF TECHNOLOGY

Kanakapura Main Road, Raghuvanahalli, Bengaluru-560109

Department of Mechanical Engineering

Internal Academic Audit Report

Academic Year : 2019-2020 (ODD)

- Encourage faculties to improve teaching methods and practices.
- Encourage faculties to participate in extra-curricular activities.
- Encourage faculties to write research proposals.


Auditor


HOD-MECH

Figure 7.4: Sample of internal audit proof (Odd Semester)



K S INSTITUTE OF TECHNOLOGY

Kanakapura Main Road, Raghuvanahalli, Bengaluru-560109

Department of Mechanical Engineering

Internal Academic Audit Report

Academic Year : 2019-2020 (EVEN)

- Encourage faculties to improve online teaching aides.
- Encourage faculties to participate in extra-curricular activities.
- Encourage faculties to write research proposals and articles.


Auditor


HOD MECH

Figure 7.5: Sample of internal audit proof (Even Semester)

(ii) **EXTERNAL AUDIT**

External audit 2019-20

External Academic Audit Report

Academic Year : 2019-2020 (ODD)

Sl. No.	Particulars to be Verified	Yes/ No
1	Sample Course File Verification	YES
2	Maintenance of Attendance Record	YES
3	Sample Blue Book Verification	YES
4	Faculty Feedback File	YES
5	Result Analysis File	YES
6	Proof of Internal Audit	YES
7	Mentoring process	YES
8	Class Committee Meeting Details	YES



Auditor

Dr. Swamy D.R.
Professor
JSS Academy of Technical Education
Bangalore - 560 060
Karnataka, India

(a)

External Academic Audit Report
Academic Year : 2019-2020 (EVEN)

Sl. No.	Particulars to be Verified	Yes/ No
1	Sample Course File Verification	YES
2	Maintenance of Attendance Record	YES
3	Sample Blue Book Verification	YES
4	Faculty Feedback File	YES
5	Result Analysis File	YES
6	Proof of Internal Audit	YES
7	Mentoring process	YES
8	Class Committee Meeting Details	YES



Dr. Swamy D.R.
Professor
JSS Academy of Technical Education
Bangalore - 560 060
Karnataka, India


(b)

External Academic Audit Report Academic Year : 2019-2020

Date: 20/01/2020

Observations:

- Course file of the faculties are maintained properly. Faculties have adhered to rules and regulations defined by the Head of the department.
- Evaluation of blue books and assigning marks for respective courses has furnished as per the scheme and solution defined.
- Feedback form and result analysis forms of each faculty have been preserved well.
- Internal audit of each semester (respective courses) has been carried out and proof the same have been verified by the internal audit committee members.
- Mentors have been assigned to group of students in each section and mentors are allowed to monitor the results of IA and external examination.
- Course Committee Meetings are held according to the prescribed schedule and conducted effectively.
- Parents-Teachers meetings are conducted when the parents visited the campus.
- PO attainment values were checked and process was accepted.
- Faculty paper publications were checked for evidence.
- Calibration Certificates were checked for validity.
- CO-PO mapping of courses were observed and discussed with faculty.
- This year PAC-DAC meeting held was verified.


 Auditor
Dr. Swamy D.R.
 Professor
 JSS Academy of Technical Education
 Bangalore - 560 080
 Karnataka, India

(c)

Figure 7.6 (a-c): Sample of external audit proof

D. ACTION PLAN BASED ON AUDIT:

Table 7.1-6: List of Action Plan (Both internal & external audit)

Sl.No.	Action Plan
1	All the lab equipments were serviced as per the suggestion.
2	Increase in the number of department library books.
3	Encourage the faculties to use more number of pedagogy as teaching aids.
4	Conduction of EMANATION in the department level.
5	Initiation of getting accreditation from reputed organization.

The sample of few actions plans taken is shown in fig 7.7 (a-c)

SSI SS INSTRUMENTS
AN ISO / IEC 17025:2017 Certified Company

Page 1 of 2

CERTIFICATE OF CALIBRATION

1 Issue Date : 26/10/2019

2 Customer's Name & Address : **M/s.KSIT Bangalore**

3 Calibration AT : SITE

4 Due Condition on Receipt : GOOD

5 Details of Equipment

Nomenclature of equipment	Make / Model	Serial No. / ID. No.	Range	Resolution	Location
Universal testing machine	FSA/TUN-400	96494UA	400kN	0.5kN	Mechanical MT Lab

6 Calibration Parameter : Force, Compression

7 Ref. Standard used for calibration

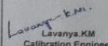
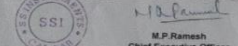
Nomenclature of equipment	Make / Model	Serial No. / ID. No.	TRACEABLE TO / CRT NO.	VALIDITY	UNCERTAINTY (%)
Load Cell with Indicator	SSI INSTRUMENTS	SSI/LOAD/LAB/002/C	FRI FRI/02/19/11223	10.04.2021	0.06%

8 Calibration Procedure & Standard IS : SSI-CPP-01(s) & IS 1928:2015 Part-1

9 Calibration Date : 23/10/2019

10 Recommended Calibration Due Date : 22/10/2020

11 Environmental Condition : Avg. Temperature : 26°C

CALIBRATED BY  Leena KM Calibration Engineer	CHECKED & APPROVED BY  M.P. Ramesh Chief Executive Officer
--	--

Format no. SSI-F-15, RD- DE: 01.10.2019

96, 4th Cross, 2nd Main, Industrial Lane, Kamakshipalya, (Near Sai Mandir), Bangalore - 560 079

(a)

INVOICE ORIGINAL


DIGITAL INSTRUMENTS INDIA (Manufactures & Dealers in Measuring Instruments) No.347/5, 1st Cross, Shradamba Nagar, Jalahalli Village, Bangalore-560 613. Phone:23457427		GSTIN : 29ABEP3567F129 TIN: 29560016776, dt. 01.04.2003. INVOICE NO.: DI/2019-20/28 Date : 07.11.2019 Del. Ch. No : Date : Order No: Verbal Date : Bank Details: Syndicate Bank Veshwanthpur Branch A/c no:04281260000653 IFSC Code: SYNB0000428 Party GST No.:		
M/s THE PRINCIPAL, K S INSTITUTE OF TECHNOLOGY, DEPARTMENT OF MECHANICAL ENGINEERING, BANGALORE		Despatched by: Person Consigned To: Bangalore Payment: 100% Against Delivery.		
Sl. No.	PARTICULARS	Unit Rate	Qty	Amount Rs. Ps.
1	4-STROKE PETROL ENGINE: Carburetor Changing Over all Servicing	Rs 1,600/- Rs 2,000/-	2Nos 2Nos	3,200.00 4,000.00
2	CENTRIFUGAL PUMP: 3 Phase Energy Meter	Rs 2,700/-	1No	2,700.00
3	UTM : (Bolt, Cable Calibration & Over all Servicing)	Rs 12,000/-	1No	12,000.00
4	PELTON TURBINE: RPM Sensor & Indicator Load Rope Em Loading Load Indicator- Spring Balance Over all Servicing	Rs 2,000/- Rs 1,800/- Rs 2,000/- Rs 8,000/-	1No 1No 1No 1No	2,000.00 1,800.00 2,000.00 8,000.00
5	Ball Indicator: 1/16"	Rs 780/-	1No	780.00
6	Diamond Indicator	Rs 2,750/-	1No	2,750.00
7	S.S Balls:	Rs 80/-	2Nos	160.00
Total				39,390.00
Add: CGST @ 9%				3,545.00
Add: SGST @ 9%				3,545.00
Total				46,480.00
Less Discount:				1,000.00
Total				45,480.00

Rupees: Forty Five Thousand Four Hundred Eighty Only.

★ State Tax & other duties are charged as per prevailing now.
 ★ Subject to Bangalore Jurisdiction only.
 ★ Goods once sold cannot be taken back or exchanged.
 ★ We are not responsible for any breakage or damage after despatch.

for DIGITAL INSTRUMENTS INDIA.

Service Report :- The following spare parts are supplied for the Equipments and Serviced for EC lab, TA lab and MT Laboratories. Calibration for UTM Machine is also done and report for 1 year is provided and found Satisfactory.


 Head of the Department
 Dept. of Mechanical Engg.
 K.S. Institute of Technology
 Bengaluru - 560 103.

(b)

Sample of Action plan taken

EMANATION 2019



The Mechanical department of Kammavari Sangha Institute of Technology conducts a departmental fest under the banner EMANATION. On September of 27th, Friday, the Eighth edition of the same banner was conducted, named ANTAHKARANA (the path to enlightenment).

The event was launched on the same day in presence of the chief guest Mr. Mahesh N alumni of the mechanical department, Principal of KSIT Dr. T V Govindaraju, CEO Dr. K V A Balaji along with the Head of the Mechanical department Prof. M Umashankar, Faculties of department.

All the dignitaries addressed the gathering after which the students of the department were felicitated for their achievement in the academics with a certificate and cash prize followed by launching the

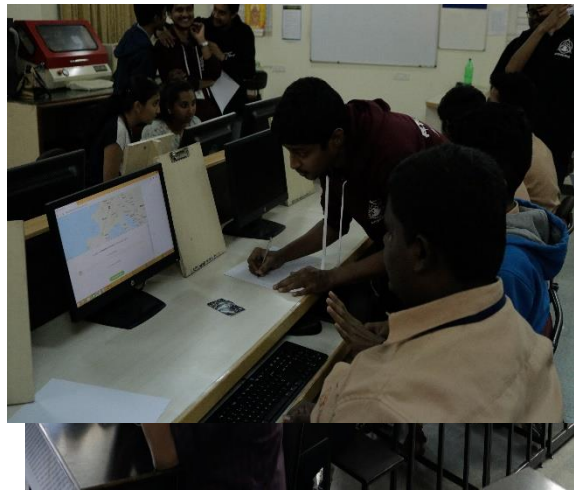


department magazine which is great collection of recent trends in the industry, Achievements by the department students, Publications by the faculties and an Interview of an alumni to inspire the present students.



After which the chief guest was felicitated by Principal, CEO and the HOD with a memento. And the event was launched with a video trailer all the contestants were assembled in conference hall and were escorted to respected venues based on the event they choose.

248 teams took part in the event, 3 preliminary rounds were conducted by name AHAMKARA(PUBG), BUDDHI(QUIZ), MANAS(MINUTE 2 WIN IT) in each event had 5 teams qualified to next round VITHI(GEO-GUESSER).



5 teams were qualified for the finale which was a surprise round ANTAHAKARNA a panic room

based concept where each team will be locked in room with a Coordinator and have to look around for clues and crack them to get a 4 digit number which in turn opens a pad-lock to exit the room and win the competition

First place, Runners up and Second runners up were decided based the time taken to crack open the lock.

After the final round there was a valedictory function where the winners were awarded with certificate and cash prizes from HOD Prof. M Umashankar, Dr. Ajay Kumar and Prof. K Prasad



The contestants shared their views on the event and The HOD addressed the gathering and the event was wound off at 4:00pm and snacks were served to crowd, Volunteers and the Coordinators.

Figure 7.7(a-c): Sample of action plan taken.

7.3 IMPROVEMENT IN PLACEMENT, HIGHER STUDIES AND ENTREPRENEURSHIP (10)

A. PLACEMENT

The list of students who got placed for three assessment years are listed.

Placement data for the year 2017-18

Sl. No.	Name of the company	Core	Number of students placed
1	INFOSYS	NO	2
2	WEST LINE SHIPPING MANAGEMENT	YES	1
3	PINCLICK	NO	1
4	PATH FRONT	NO	2
5	GO SPEEDY GO	YES	3
6	SEG AUTOMOTIVES	YES	2
7	CONCENTRIX	NO	1
8	BOSCH	YES	3
9	DEUTSCH INDIA PVT LTD	YES	1
10	BEML LTD	YES	1
11	INCH	YES	1
12	PRASHANTH CYLINDERS PVT LTD	NO	1
13	T E CONNECTIVITY INDIA PVT LTD	YES	1
14	SATVEN	NO	1
15	MANGAL INDUSTRIES LTD	YES	1
16	L & T TECHNOLOGY SERVICES	YES	1
17	SEOYON-E-HWA AUTOMOTIVE PVT LTD	YES	1
18	TECHNOLOGIES GLOBAL PVT LTD	NO	1
19	CADZONE	YES	1
20	ACCENTURE	NO	1
21	RAJALAKSHMI STAMPINGS	YES	1
22	INFY ENERGY SUN FACTORY PVT LTD	YES	1
23	K & S PARTNERS	NO	1
24	MERCEDES BENZ R&D LTD	YES	1
25	ANANTH TECHNOLOGIES LTD	YES	1
26	RRC ENTERPRISES	YES	1
27	MECHTRONIX	YES	1
Total No of Core Companies		18	
Total No. of students placed		34	
Total No. of students		139	
Percentage of students placed		24.46%	

Placement data for the year 2018-19

Sl. No.	Name of the company	Core	Number of students placed
1	MU SIGMA BUSINESS SOLUTIONS	NO	1
2	INFOSYS	NO	1
3	TCS	NO	2
4	Q-SPIDERS	NO	1
5	SRIRAM TRANSPORT & FINANCE CORPORATION	NO	1
6	RAZORPAY SOFTWARE PVT LTD	NO	1
7	GENERAL MOTORS TECHNICAL CENTER	YES	2
8	AUTO CNC MACHINING LTD	YES	1
9	PACT CONSULTING	NO	1
10	CAMPUS MANAGEMENT	NO	1
11	MAINI PRECISION PRODUCT	YES	2
12	BOUNCE	NO	1
13	NEVITON	NO	2
14	JOULES TO WATT BUSINESS SOLUTION	NO	1
15	FLEXTRONICS TECHNOLOGIES INDIA LTD	NO	1
16	SOLAS FIRE SAFETY EQUIPMENT LTD	NO	1
17	WEVIN PVT LTD	YES	1
18	ENGINEERING PLASTICS	YES	1
19	TEAMLEASE SERVICES LTD	NO	1
20	EASI	NO	1
21	AASAAN JOBS PVT LTD	NO	1
22	T.E CONNECTIVITY PVT LTD	YES	1
Total No of Core Companies		06	
Total No. of students placed		34	
Total No. of students		127	
Percentage of students placed		26.77%	

Placement data for the year 2019-20

Sl. No.	Name of the company	Core	Number of students placed
1	TCS NINJA	NO	5
2	INFOSYS	NO	8
3	JARO EDUCATION	YES	1
4	YOUNGMAN INDIA	YES	4
5	ADVENT GLOBAL SOLUTION	YES	1
6	COGNIZANT	NO	1
7	[24]*7.ai	YES	3
8	Hudl	YES	31
Total No of Core Companies		05	
Total No. of students placed		54	
Total No. of students		104	
Percentage of students placed		50%	

B. HIGHER STUDIES ENROLMENT DETAILS

Sl. No.	Academic Year	No. of Students admitted for higher studies
1	2017-18	6
2	2018-19	6
3	2019-20	NIL

C. ENTREPRENEUR DETAILS

Sl. No.	Academic Year	No. of students registered as start-ups
1	2017-18	1
2	2018-19	NIL
3	2019-20	NIL

7.4 IMPROVEMENT IN THE QUALITY OF STUDENTS ADMITTED TO THE PROGRAM (10)

Improvement in students admission

Item	Particulars	CAY 2019-2020
State/University Level Entrance Examination (C. E.T.)	No. of students admitted	25
	Opening Score/Rank	49107
	Closing Score/Rank	210324
State Level Entrance Examination for lateral entry (C.E.T.)	No. of students admitted	17
	Opening Score/Rank	9006
	Closing Score/Rank	16307
Management	No. of students admitted	14
	Opening Score/Rank	63400
	Closing Score/Rank	213806
National Level Entrance Examination (COMED- K)	No. of students admitted	0
	Opening Score/Rank	nil
	Closing Score/Rank	nil
Average CBSE/ Any other board result of admitted students (Physics, Chemistry and Maths)		61.85%



Item	Particulars	AY (2016- 2017)	AY (2018- 2019)	AY (2019- 2020)	AY (2020- 2021)
State/University level Entrance Examination (CET)	No. of Students admitted	65	46	25	3
	Opening Score/Rank	18122	23541	49107	95337
	Closing Score/Rank	105828	206001	210324	151591
State level Entrance Examination for lateral entry (CET)	No. of Students admitted	16	41	17	NIL
	Opening Score/Rank	2674	6717	9006	NIL
	Closing Score/Rank	20031	18986	16307	NIL
Management	No. of Students admitted	30	33	14	5
	Opening Score/Rank	23905	38340	63400	115825
	Closing Score/Rank	222650	211062	213806	138577
National level Entrance Examination (COMED-K)	No. of Students admitted	5	1	NIL	NIL
	Opening Score/Rank	27043	47464	NIL	NIL
	Closing Score/Rank	40268	47464	NIL	NIL
Average/Any other board result of admitted students(physics, chemistry and maths)		72.79%	65.83%	61.85%	14.81%

CRITERION 8	First Year Academics	50
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8 FIRST YEAR ACADEMICS(50)Total Marks : 41.88

8.1 First Year Student-Faculty Ratio (FYSFR)(5)Total Marks:5.00 Institute Mark: 5.00

SL NO	NAME	PAN NO	QUALIFICATION	DATE OF RECEIVING HIGHEST DEGREE CERTIFICATE	SPECIALIZATION	DESIGNATION	DATE OF JOINING	Teaching Load			Current associated	Nature of association	DATE OF LEAVING
								2020-21(CAY)	2019-20(CAYm1)	2018-19(CAYm2)			
1	Dr.K.R. JAYAKUMAR	AEFPJ7394P	PHD	4/7/2012	MATHEMATICS	PROFFESOR & HEAD	10/1/1999	0	0	30	NO	REGULAR	9/13/2019
2	Dr.RANJANA JAIN	AGFPJ7231B	PHD	1/24/1997	ANALYTICAL CHEMISTRY	ASSOCIATE PROFESSOR	8/18/2008	0	0	30	NO	REGULAR	1/27/2020
3	Mrs.P.JALAJA	AHCPP9936D	MSC	5/24/2002	APPLIED MATHEMATICS	ASSISTANT PROFFESOR	7/22/2013	30	30	30	YES	REGULAR	
4	Mr.B.S. VENKATARAMANA	BOVPS5523J	MSC	5/20/2007	FINITE ELEMENTAL METHODS	ASSISTANT PROFFESOR	7/15/2011	30	30	30	YES	REGULAR	
5	Mrs.P.JAYASHREE	AJFPJ9386E	MSC	1/19/2008	FINITE ELEMENTAL METHODS	ASSISTANT PROFFESOR	8/1/2013	0	0	30	NO	REGULAR	12/21/2019
6	Mr.M.R. CHOWDAPPA	ALJPC2747C	MSC	5/1/2007	FLUID DYNAMICS	ASSISTANT PROFFESOR	1/18/2015	30	30	30	NO	REGULAR	30/09/2021
7	Mrs.LAKSHMI C	APEPL2880G	MSC	4/7/2015	GRAPH THEORY	ASSISTANT PROFFESOR	2/10/2020	30	0	0	YES	REGULAR	
8	Mr.SUNIL KUMAR. N	BOGFS9004F	MSC	5/7/2010	MATERIALS SCIENCE	ASSISTANT PROFFESOR	9/1/2009	30	30	30	YES	REGULAR	
9	Dr.JAGANATH G	BAGPJ6936B	PHD	11/18/2019	CONDENSED MATTER PHYSICS	ASSISTANT PROFFESOR	8/2/2019	0	30	0	NO	REGULAR	31/12/2020
10	Mr.PRAVEEN C JOIC	BTGPS6230C	MSC	11/28/2013	MATERIALS SCIENCE	ASSISTANT PROFFESOR	8/26/2014	0	0	30	NO	REGULAR	7/3/2019
11	Mrs.SRIDEVI B R	DAYPS2612M	MSC	5/7/2010	MATERIALS SCIENCE	ASSISTANT PROFFESOR	8/8/2018	0	0	30	NO	REGULAR	12/31/2019
12	Dr.RENUKA C	AVWPR9085P	PHD	11/22/2018	NUCLEAR PHYSICS	ASSISTANT PROFFESOR	6/1/2021	30	0	0	YES	REGULAR	
13	Mr.S.R. KIRAN KUMAR	CKSPK9731L	PHD	6/7/2019	ELECTRO CHEMISTRY	ASSISTANT PROFFESOR	2/6/2012	30	30	30	YES	REGULAR	
14	Mrs.SHYLAJA.K.R.	BEDPR4812M	MSC	8/12/2007	GENERAL CHEMISTRY	ASSISTANT PROFFESOR	3/6/2014	30	30	30	YES	REGULAR	
15	Ms. NEELAM PATIL RADHIKA	BNNTR9182H	MSC	6/30/2009	ORGANIC CHEMISTRY	ASSISTANT PROFFESOR	8/6/2018	0	30	30	YES	REGULAR	
16	Mrs.ANURADHA.M.V	AJJPV1410G	BAL.LLB	7/9/1993	LAW	ASSISTANT PROFFESOR	8/1/2012	30	30	30	YES	REGULAR	
17	Mr. MALLIKARJUNA M.R.	BQJPM3809B	M TECH	2/11/2009	MACHINE DESIGN	ASSISTANT PROFFESOR	7/22/2013	0	0	30	NO	REGULAR	6/29/2019
18	Mr. KAUSHIK. M.M.	COCPM7865M	M TECH	5/9/2015	MACHINE DESIGN	ASSISTANT PROFFESOR	8/10/2018	0	30	0	NO	REGULAR	31/12/2020
19	Mr.GAUTHAM.S	BRZPS4235G	M TECH	12/13/2010	MECHANICAL & MANUFACTING	ASSISTANT PROFFESOR	8/23/2018	30	30	30	NO	REGULAR	31/8/2021
20	Mr. SHASHI KUMAR B.R.	FRFPS6546L	M TECH	2/14/2017	STRUCTURAL ENGINEERING	ASSISTANT PROFFESOR	8/6/2018	0	0	30	NO	REGULAR	6/29/2019
21	Mrs.TEJASWINI.M.L	AQQPT6687E	M TECH	03-05-2014	STRUCTURAL ENGINEERING	ASSISTANT PROFFESOR	7/22/2019	30	30	0	YES	REGULAR	
22	Mr.AMRUTH.K	EEZPK3834K	M TECH	1/21/2017	STRUCTURAL ENGINEERING	ASSISTANT PROFFESOR	7/22/2019	0	30	0	NO	REGULAR	7/12/2020
23	Mr.PRUTHIVIRAJ B.S.	BPIPP2498M	M TECH	2/11/2015	STRUCTURAL ENGINEERING	ASSISTANT PROFFESOR	7/28/2016	0	0	30	NO	REGULAR	6/25/2019
24	Mr. MANJUNATH B.R	BBPPM3218R	M TECH	2/10/2009	TOOL ENGINEERING	ASSISTANT PROFFESOR	7/20/2011	30	0	0	YES	REGULAR	
25	Mr. RAJESH G.L	BDTPR8404G	M TECH	5/9/2015	MANUFACTURING SCIENCE & ENGINEERING	ASSISTANT PROFFESOR	2/3/2020	0	0	0	YES	REGULAR	
26	Mr. KRISHNA GUDI	AZLPK6781E	M TECH	8/4/2011	MASTER OF ENGINEERING	ASSISTANT PROFFESOR	3/6/2015	30	30	30	YES	REGULAR	
27	Mr. PRASHANTH.H.S.	DWJPP4116E	M TECH	9/1/2017	COMPUTER SCIENCE	ASSISTANT PROFFESOR	8/23/2017	0	30	30	YES	REGULAR	
28	Mrs.VISHALINI DIWAKAR	ABKPD1975L	MSC	4/18/2011	POWER SYSTEMS	ASSISTANT PROFFESOR	7/27/2011	30	30	30	YES	REGULAR	
29	Mrs.PREETHI MISHRA	BJVPM6420K	ME	1/16/2017	POWER ELECTRONICS	ASSISTANT PROFFESOR	2/10/2020	0	30	0	NO	REGULAR	31/8/2021
30	Mrs. PRIYADARSHINI J.PATIL	BUTPP5056K	M TECH	5/9/2015	POWER ELECTROICS	ASSISTANT PROFFESOR	7/13/2015	30	0	0	NO	REGULAR	31/5/2021
31	Mrs.SMITHA MALLYA	ASYPM6917G	M TECH	1/16/2017	ELECTRONICS AND TELECOMMUNICATION	ASSISTANT PROFFESOR	2/3/2020	0	0	0	NO	REGULAR	30/9/2021
32	Mrs. SINDHU S.S.	FUEPS0712Q	M TECH	1/21/2017	POWER SYSTEMS	ASSISTANT PROFFESOR	8/6/2018	0	0	30	NO	REGULAR	5/31/2019
33	Mr.SATISH KUMAR.B	BAWPK0147D	M TECH	5/3/2011	DIGITAL ELECTROICS	ASSISTANT PROFFESOR	8/10/2018	0	30	30	YES	REGULAR	
34	Mrs. SWETHA B N	HKNPS3366H	M TECH	4/18/2011	DIGITAL ELECTROICS	ASSISTANT PROFFESOR	8/6/2018	0	30	30	NO	REGULAR	31/8/2020

Data for first year courses to calculate the FYSFR:

Year	Number of students (approved intake strength)	Number of faculty members (considering fractional load)	FYSFR	*Assessment = $(5 \times 20)/\text{FYSFR}$ (Limited to Max. 5)
CAY (2020-2021)	60	4	15.00	6.666
CAY _{m1} (2019-2020)	120	5	24.00	4.166
CAY _{m2} (2018-2019)	120	7	17.14	5.834
Average	100	5.33	18.76	5.330

Table B.8.1

8.2 Qualification of Faculty Teaching First Year Common Courses(5)Total marks: 5.00
Institute marks: 5.00

Year	X(Number of Regular Faculty with Ph.D)	Y(Number of Regular Faculty with Post-graduate qualification)	RF(Number of faculty members required as per SFR of 20:1)	Assessment of faculty qualification $(5x + 3y)/\text{RF}$
CAY (2020-2021)	1	10	3	11.66
CAY _{m1} (2019-2020)	0	19	6	9.5
CAY _{m2} (2018-2019)	0	16	6	8.0
Average Assessment				9.72

Table B.8.2

8.3 First Year Academic Performance(10)Total marks: 5.88

Institute marks: 5.88

Successful students are those who are permitted to proceed to the second year.

Academic performance	2020-2021	2019-20	2018-19
Mean of CGPA or mean percentage of all successful students(X)	6.56	6.58	6.02
Total Number of successful students(Y)	8	40	62
Total Number of students appeared in the examination(Z)	8	41	80
API[X*(Y/Z)]	6.56	6.42	4.6655

Average API [(AP1+AP2+AP3)/3] = 5.881

8.4 Attainment of Course Outcomes of first year courses(10)Total marks: 9

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5) Institute marks: 5

A. Assessment processes

Course Outcomes (COs):

Statements indicating what a student can do after the successful completion of a course. Every Course leads to some Course Outcomes. The CO statements are defined by considering the course content covered in each module of a course.

Assessment Tools

- Direct Assessment
- Indirect Assessment

Direct Assessment

- Internal Assessment Test
- Internal Lab Examination
- University Examination

B. Assessment process and Tools

Internal Assessment Test

- After commencement of the course, the Department will conduct three internal tests, scheduled in accordance with the university and college calendar of events.
- The Internal Assessment schedule and conduction will be monitored by an Internal Assessment (IA) Coordinators.
- The Course Coordinator will prepare the Question papers and Scheme of Evaluation for their respective course and submit to IA coordinators.
- The question paper will be scrutinized by the Module scrutinizer.

- Two Question papers (set A and set B) will be set for each Course. Among them, one will be selected for IA.
- The course coordinator will compile scheme and solutions for each test and evaluate the performance of students.

External Theory Examination

University schedules external examination for the students at the end of the semester

Laboratory Assessment:

Internal Lab assessment

- Laboratory in-charge faculties will follow common guidelines for evaluation of experiments conducted.

External Lab Examination

- University schedule external lab examination for the students at the end of the semester.

Table 8.4.1-a Direct Assessment Tools

Sl. No.	Components	Sub-Components	Weightage (%)	Total Weightage (%)
A1	Theory	a. Three Internal Tests	50	90
		b. One University Exam	50	
A2	Laboratory	a. Continuous Evaluation through observation book, record book and Viva Voce	50	90
		b. Internal Tests		
		c. University Exam	50	

Indirect Assessment

Course End Survey: Course End Surveys are used to evaluate the attainment of Cos. At the end of each semester in an academic year, Course End Survey is taken from the students for each Course on the basis of questionnaires related to Course Outcome of individual Course.

Table 8.4.1-b Indirect Assessment

Sl. No.	Components	Sub Component	Weightage (%)
A1	Theory	Course End Survey	10
A2	Laboratory	Course End Survey	10

Table 8.4.1-c CO attainment calculation:

Steps	Final CO attainment calculation for Theory
1	The attainment level in the test for each CO and University attainment level are entered. 50% of university attainment level is considered as [N1] and 50% of

	internal test attainment level is considered as [N2] for every CO.
2	The attainment is calculated as [N1 + N2] for every CO. 90% of this will be calculated as [N3].
3	10% of Course end survey attainment level is obtained as [N4].
4	The direct attainment of the course is given by [N3 + N4] for every CO.

Process followed for calculation of Course outcomes:

A1) Theory course

Table 8.4.1-d a) Internal Assessment:

Steps	Process for calculating attainment through Internal Assessment
1	The marks scored by the students in test, are categorized based on CO's.
2	The total number of students appearing for the COs and the no. of students scoring $\geq 60\%$ marks is identified. Percentage is calculated as: [No. of students scoring $\geq 60\%$ marks/ Total no. of students appearing for that particular CO]
3	Attainment levels are defined at the department level as: Level 3 – 60% students should have scored $\geq 60\%$ [in Internal Assessment test] Level 2 – 55% students should have scored $\geq 60\%$ [in Internal Assessment test] Level 1 – 50% students should have scored $\geq 60\%$ [in Internal Assessment test]
4	Based on the percentage obtained, the attainment level for each of the CO is identified.

Table 8.4.1-e b) External Assessment:

Steps	Process for calculating attainment through University exam
1	Set target of 60% for external assessment is obtained from the university exam for each courses.
2	The university exam marks obtained by the student for every subject is considered and the no. of students scoring greater than the set target [60%] is calculated [N1]. The total no. of students appearing for the subject is identified as [N]. The percentage of students scoring greater than the set target is computed as $N1/N * 100$
3	Attainment levels are defined at the department level as: Level 3 – 60% students should have scored $\geq X$ Level 2 – 55% students should have scored $\geq X$ Level 1 – 50% students should have scored $\geq X$
4	Based on the percentage computed in step 2 the attainment level is fixed.

Table 8.4.1-f c) Course End Survey

Steps	Process for calculating attainment through Course exit survey
1	Course exit survey (CES) is taken at the end of the semester for all courses.
2	The department attainment levels defined for CES are: Level 3 – 60% students should have rated Good and above Level 2 – 55% students should have rated Good and above Level 1 – 50% students should have rated Good and above
3	The CES is tabulated and no. of students giving a rating as Good and above is

	identified [N1]. The total students participating in the survey is identified [N]. The percentage is calculated as $[N1 / N * 100]$
4	Based on the percentage obtained in step 3 the attainment level is obtained

Table 8.4.1-g d)Final CO attainment calculation:

Steps	Final CO attainment calculation for Theory
1	The attainment level in the test for each CO and University attainment level are entered. 50% of university attainment level is considered as [N1] and 50% of internal test attainment level is considered as [N2] for every CO.
2	The attainment is calculated as $[N1 + N2]$ for every CO. 90% of this will be calculated as [N3].
3	10% of Course end survey attainment level is obtained as [N4].
4	The direct attainment of the course is given by $[N3 + N4]$ for every CO.

A2) Laboratory

- In every lab, record, observation and viva assessed by faculty incharge through continuous internal evaluation
- The course end survey attainment similar to processed followed for theory course
- Final co attainment calculation is similar to the process followed for theory

8.4.2 Record the attainment of Course Outcomes of all first year courses

Record the Attainment of Course Outcomes of all Courses with Respect to Set Attainment Levels

Attainment of Course Outcomes

2020-2021 ME BRANCH

COURSE CODE		C01	C02	C03	C04	C05	AVERAGE
C101	18MAT11	0.30	0.30	0.30	0.30	0.30	0.30
C102	18PHY12	0.30	0.30	1.20	2.10	0.30	0.84
C103	18ELE13	1.20	2.10	2.10	1.20	2.10	1.74
C104	18CIV14	0.30	0.30	2.10	2.10	1.20	1.20
C105	18EGDL15	3.00	3.00	3.00	3.00	3.00	3.00
C106	18PHYL16	3.00	3.00	3.00	3.00	3.00	3.00
C107	18ELEL17	3.00	3.00	3.00	3.00	3.00	3.00
C108	18EGH18	3.00	3.00	3.00	3.00	3.00	3.00
C109	18 MAT 21	1.20	1.20	1.20	1.20	1.20	1.20
C110	18 CHE 22	1.20	0.30	1.20	1.20	1.20	1.02
C111	18 CPS 23	1.20	0.30	1.20	0.30	0.30	0.66
C112	18 ELN 24	0.30	1.20	1.20	0.30	1.20	0.84
C113	18 ME 25	1.20	1.20	1.20	1.20	1.20	1.20
C114	18 CHEL 26	1.20	1.20	1.20	1.20	1.20	1.20
C115	18 CPL 27	1.20	1.20	1.20	1.20	1.20	1.20
C116	18 ENG 28	1.20	1.20	1.20	1.20	1.20	1.20

Attainment of Course Outcomes
2019-2020 ME BRANCH

COURSE CODE		C01	C02	C03	C04	C05	AVERAGE
C101	18 MAT 11	2.10	1.20	1.20	2.10	0.30	1.38
C102	18 CHE 12	3.00	0.30	2.10	2.10	0.30	1.56
C103	18 CPS 13	2.10	2.10	1.20	2.10	2.10	1.92
C104	18 ELN 14	2.10	2.10	1.20	2.10	2.10	1.92
C105	18 ME 15	3.00	3.00	3.00	3.00	3.00	3.00
C106	18 CHEL 16	3.00	3.00	3.00	3.00	3.00	3.00
C107	18 CPL 17	3.00	3.00	3.00	3.00	3.00	3.00
C108	18 ENG 18	3.00	3.00	3.00	3.00	3.00	3.00
C109	18MAT21	0.30	0.30	1.20	1.20	2.10	1.02
C110	18PHY22	1.20	0.30	1.20	1.20	1.20	1.02
C111	18ELE23	0.30	0.30	2.10	0.30	1.20	0.84
C112	18CIV24	0.30	0.30	0.30	1.20	1.20	0.66
C113	18 EGD L 25	3.00	3.00	3.00	3.00	3.00	3.00
C114	18PHYL26	3.00	3.00	3.00	3.00	3.00	3.00
C115	18ELEL27	3.00	3.00	3.00	3.00	3.00	3.00
C116	18EGH28	1.20	2.10	2.10	1.20	2.10	1.74

Attainment of Course Outcomes
2018-2019 ME BRANCH

COURSE CODE		C01	C02	C03	C04	C05	AVERAGE
C101	18MAT11	2.10	2.10	1.20	1.20	1.20	1.56
C102	18PHY12	3.00	3.00	3.00	3.00	3.00	3.00
C103	18ELE13	0.30	0.30	0.30	0.30	0.30	0.30
C104	18CIV14	0.30	0.30	0.30	0.30	0.30	0.30
C105	18EGDL15	3.00	3.00	3.00	3.00	3.00	3.00
C106	18PHYL16	3.00	3.00	3.00	3.00	3.00	3.00
C107	18ELEL17	3.00	3.00	3.00	3.00	3.00	3.00
C108	18MAT21	2.10	2.10	0.30	0.30	2.10	1.38
C109	18CHE22	1.20	1.20	1.20	2.10	1.20	1.38
C110	18CPS23	0.30	0.30	0.30	0.30	0.30	0.30
C111	18ELN24	0.30	0.30	0.30	0.30	0.30	0.30
C112	18ME25	2.10	1.20	2.10	1.20	0.30	1.38
C113	18CHEL26	3.00	3.00	3.00	3.00	3.00	3.00
C114	18CPL27	3.00	3.00	3.00	3.00	3.00	3.00

8.5 Attainment of Program Outcomes from first year courses(20)Total marks:17

8.5.1 Indicate results of evaluation of each relevantPOs.(15)Institute marks: 13

Describe Assessment tools and processes used for measuring the attainment of each of the Program Outcomes:

The process used to gather the data for evaluation of program outcome is obtained from:

Direct Assessment-

The assessment tools are:

- Internal Assessments (IA).
- Assignment.
- Continuous Lab Assessment.
- Semester End Examinations (SEE).

Details about Direct Assessment Tools:

Direct Assessment Tools	Frequency	Assessment Process
Internal Assessment Test	3 Per Semester	I.A Test is conducted & evaluated by the concerned Course incharge and AVERAGE OF I.A Marks are CALCULATED.
Assignments /Group Assignments/ Subject Seminars	Min 3 per semester	Assignments are evaluated by Course incharge. Final I A marks is Submitted to University by adding the average of IA and assignment marks.
Continuous Lab Assessment	Every Lab	Every Lab experiment observation, viva & record will be assessed by Course incharge. CIE is taken accounted for SEE.
Lab I.A Test	1 Per Semester	At the end of the Semester, Lab I.A will be conducted & evaluated by Course incharge. Final Average marks is submitted to university.
Semester End Lab Examination	1 Per Semester	Final Lab Examination is conducted and evaluated by Internal and External Examiners allotted by the University
Semester End theory Examination	1 Per Semester	Semester End Examination is conducted by the University.

Indirect Assessment Tools

Indirect Assessment Tools	Frequency	Assessment Process
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Course end Survey	End of the course	Based on questionnaires related to Course
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Pos Attainment 2020-2021

COURSE		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	18MAT11	0.30	0.20	0.15	—	—	—	—	—	—	—	—	—
C102	18PHY12	0.82	0.72	0.58	—	—	—	—	—	—	—	—	0.56
C103	18ELE13	1.74	1.60	1.74	—	—	—	—	—	0.58	1.16	0.58	1.74
C104	18CIV14	1.20	1.20	0.50	0.55	—	0.30	0.30	0.30	0.20	0.20	0.20	0.80
C105	18 EGD15	2.20	2.80	2.00	—	3.00	—	—	—	—	—	—	—
C106	18PHYL16	3.00	2.50	2.00	1.00	—	—	2.00	—	2.00	—	—	1.87
C107	18EEL17	3.00	2.00	—	—	—	1.00	—	—	—	—	—	0.93
C108	18EGH18	—	—	—	—	—	—	—	2.00	3.00	3.00	2.00	3.00
C109	18 MAT 21	3.00	2.00	1.40	—	—	—	—	—	—	—	—	—
C110	18 CHE 22	3.00	2.00	1.00	1.00	—	—	—	—	—	—	—	—
C111	18 CPS 23	0.76	0.98	0.94	0.73	—	—	—	—	—	—	—	0.34
C112	18 ELN 24	3.00	2.40	3.00	—	—	—	1.00	—	—	—	—	2.80
C113	18 ME 25	3.00	2.00	1.00	—	—	—	—	—	—	—	—	0.20
C114	18 CHEL 26	3.00	2.00	1.00	—	—	—	—	—	—	—	—	—
C115	18 CPL 27	2.60	3.00	2.80	1.33	—	—	—	—	—	—	—	0.80
C116	18 ENG 28	—	—	—	—	—	—	—	3.00	3.00	3.00	2.00	3.00

PO Attainment

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.19	1.81	1.39	0.92	3.00	0.65	1.10	1.77	1.76	1.84	1.20	1.46
CO Attainment	2.19	1.81	1.39	0.92	3.00	0.65	1.10	1.77	1.76	1.84	1.20	1.46

PSOs Attainment

COURSE CODE		PSO1	PSO2
C101	18MAT11	0.16	—
C102	18PHY12	0.20	—
C103	18ELE13	1.74	1.02
C104	18CIV14	0.80	0.40
C105	18 EGD15	1.00	1.00
C106	18PHYL16	2.00	—
C107	18EEL17	1.67	1.00
C108	18EGH18	—	—
C109	18 MAT 21	1.80	—
C110	18 CHE 22	1.33	—
C111	18 CPS 23	0.94	0.92
C112	18 ELN 24	1.80	—

C113	18 ME 25	1.00	—
C114	18 CHEL 26	1.00	—
C115	18 CPL 27	2.20	1.96
C116	18 ENG 28	—	—

PSO Attainment Level

COURSE	PSO1	PSO2
Direct Attainment	1.26	1.05
CO Attainment	1.26	1.05

Pos Attainment 2019-2020

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	18 MAT 11	1.38	0.92	0.68	—	—	—	—	—	—	—	—
C102	18 CHE 12	1.56	1.04	0.52	0.52	—	—	—	—	—	—	—
C103	18 CPS 13	1.47	0.98	0.60	0.52	—	—	—	—	—	—	—
C104	18 ELN 14	1.92	1.56	1.70	—	—	—	0.64	—	0.64	—	1.78
C105	18 ME 15	3.00	2.00	—	—	—	—	—	—	—	—	—
C106	18 CHEL 16	3.00	2.00	1.00	—	—	—	—	—	—	—	—
C107	18 CPL 17	3.00	2.00	2.00	1.00	3.00	—	—	—	—	—	1.87
C108	18 ENG 18	—	—	—	—	—	—	3.00	2.00	3.00	2.00	3.00
C109	18MAT21	1.02	0.68	0.50	—	—	—	—	—	—	—	—
C110	18PHY22	0.94	0.84	0.76	—	—	—	—	—	—	—	0.68
C111	18ELE23	0.84	0.56	—	—	—	0.63	1.40	—	—	—	—
C112	18CIV24	0.66	0.66	0.28	0.40	—	0.30	0.30	0.30	0.20	0.20	0.44
C113	18 EGD L 25	2.20	2.80	2.00	—	3.00	—	—	—	—	—	—
C114	18PHYL26	3.00	2.50	2.00	1.00	—	—	2.00	—	2.00	—	1.87
C115	18EEL27	3.00	2.00	—	—	—	1.00	—	—	—	—	0.93
C116	18EGH28	—	—	—	—	—	—	1.74	1.74	1.74	1.16	1.74

PO Attainment

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	1.93	1.47	1.09	.069	3.00	0.64	1.23	1.42	1.49	1.40	1.12	1.54
CO Attainment	1.93	1.47	1.09	.069	3.00	0.64	1.23	1.42	1.49	1.40	1.12	1.54

PSOs Attainment

COURSE CODE		PSO1	PSO2
C101	18 MAT 11	0.70	—
C102	18 CHE 12	0.63	—
C103	18 CPS 13	—	—
C104	18 ELN 14	1.64	1.28
C105	18 ME 15	1.33	—
C106	18 CHEL 16	1.00	—
C107	18 CPL 17	2.00	2.00

C108	18 ENG 18	—	—
C109	18MAT21	0.54	—
C110	18PHY22	0.80	—
C111	18ELE23	—	—
C112	18CIV24	0.44	0.22
C113	18 EGD L 25	1.00	1.00
C114	18PHYL26	2.00	—
C115	18ELEL27	1.67	1.00
C116	18EGH28	—	—

PSO Attainment Level

COURSE	PSO1	PSO2
Direct Attainment	1.15	1.10
CO Attainment	1.15	1.10

Pos Attainment 2018-2019

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	18MAT11	1.58	1.02	0.80	—	—	—	—	—	—	—	—
C102	18PHY12	2.80	2.40	2.20	—	—	2.00	2.00	—	—	—	2.00
C103	18ELE13	0.30	0.20	—	—	—	0.10	—	—	—	—	—
C104	18CIV14	0.30	0.26	—	—	—	0.30	0.30	0.20	0.20	0.20	0.20
C105	18EGDL15	2.20	2.80	2.00	—	3.00	1.00	1.00	—	—	—	1.00
C106	18PHYL16	3.00	2.50	2.00	1.00	—	—	2.00	—	2.00	—	1.87
C107	18ELEL17	3.00	2.00	—	—	—	1.00	—	—	—	—	0.93
C108	18MAT21	1.38	0.96	0.50	—	—	—	—	—	—	—	—
C109	18CHE22	1.38	0.92	0.46	0.46	—	—	—	—	—	—	—
C110	18CPS23	0.30	0.20	0.10	0.10	0.20	—	—	—	—	—	0.24
C111	18ELN24	0.30	0.25	0.30	—	—	—	0.10	—	—	—	0.28
C112	18ME25	1.38	0.45	—	—	—	1.20	1.40	—	0.46	0.46	0.95
C113	18CHEL26	3.00	2.00	1.00	—	—	—	—	—	—	—	—
C114	18CPL27	3.00	2.00	2.00	1.00	3.00	—	—	—	—	—	1.87

PO Attainment

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	1.71	1.28	1.14	0.64	2.07	0.93	1.13	0.20	0.89	0.33	0.20	1.04
CO Attainment	1.71	1.28	1.14	0.64	2.07	0.93	1.13	0.20	0.89	0.33	0.20	1.04

PSOs Attainment

COURSE CODE		PSO1	PSO2
C101	18MAT11	0.84	—
C102	18PHY12	2.00	—
C103	18ELE13	0.10	—
C104	18CIV14		

C105	18EGDL15	—	1.00
C106	18PHYL16	2.00	—
C107	18EEL17	1.67	1.00
C108	18MAT21	0.78	—
C109	18CHE22	0.60	—
C110	18CPS23	—	—
C111	18ELN24	0.18	—
C112	18ME25	0.60	0.60
C113	18CHEL26	1.00	—
C114	18CPL27	2.00	2.00

PSO Attainment Level

COURSE	PSO1	PSO2
Direct Attainment	1.07	1.15
CO Attainment	1.07	1.15

Table B.8.5.1

* Direct attainment level of a PO is determined by taking average across all courses addressing that PO.

8.5.2 Actions taken based on the results of evaluation of relevant POs(5)

(The attainment levels by direct (student performance) are to be presented through Program level Course-PO matrix as indicated)

POs - Attainment Levels and Actions for improvement AY: 2020-2021 (2020-2024 batch).
50% of the target level (3) is considered as attained.

POs	Target Level	Attainment Level	Observation
PO1	<i>Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.</i>		
	1.90	2.22	<ul style="list-style-type: none"> Target is attained It is proposed to increase the target level in the next academic year.
Action 1	We conducted Induction program for the first semester students before the commencement of academic year from 16.12.2020 to 24.12.2020.		
PO2	<i>Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.</i>		
	1.65	1.83	<ul style="list-style-type: none"> Target is attained It is proposed to increase the target level

			in the next academic year
Action 1	Solved more number of numerical in regular classes and assignments were given for complex problems.		
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.		
	1.65	1.36	<ul style="list-style-type: none"> Target is not attained
Action 1	We Insist students to take up mini projects to find solutions for engineering problems.		
Action 2	We Conducted creative online poster to promote tourism in India from 09.08.2021 to 22.08.2021 to improve their technical skills.		
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.		
	1.5	0.92	<ul style="list-style-type: none"> Target is not attained
Action 1	Practical approach for explaining various concepts were adopted by teaching faculties in their regular classes.		
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.		
	1.85	3.00	<ul style="list-style-type: none"> Target is attained It is proposed to increase the target level in the next academic year.
Action 1	We Conducted creative online poster to promote tourism in India from 09.08.2021 to 22.08.2021 to improve their technical skills.		
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice in Electrical and Electronics Engineering.		
	1.5	0.65	<ul style="list-style-type: none"> Target is not attained.
Action 1	College NSS cell gives opportunity for students to be part of all its environmental related activities. NSS Conducted elimination of single use plastic at KSIT on 05.04.2021 to create awareness environmental issues.		
Action 2	We Conducted creative online poster to promote tourism in India from 09.08.2021 to 22.08.2021.		

PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.		
	1.65	1.10	<ul style="list-style-type: none"> Target is not attained.
Action 1	College NSS cell gives opportunity for students to be part of all its environmental related activities. NSS Conducted elimination of single use plastic at KSIT on 05.04.2021 to create awareness environmental issues.		
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.		
	1.5	1.77	<ul style="list-style-type: none"> Target is attained. It is proposed to increase the target level in the next academic year
Action 1	We ourselves follow and insist students to check for plagiarism with the plagiarism testing software available in the Library.		
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.		
	1.5	2.05	<ul style="list-style-type: none"> Target is attained. It is proposed to increase the target level in the next academic year
Action 1	Department have various professional bodies like CSI,BYTES,IEEE,IEI,ISTE to support students to develop their interpersonal and leadership qualities.		
Action 2	Training and placement department organized group discussions for first year students from 08.07.2021 to 13.07.2021to improve students individual and team work skills.		
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.		
	1.5	2.07	<ul style="list-style-type: none"> Target is attained. It is proposed to increase the target level in the next academic year
Action 1	Training and placement department organized group discussions for first year students from 08.07.2021 to 13.07.2021to improve students individual and team work skills.		
Action 2	Students participated in Seminars in regular classes which help them to improve their communication and presentation skills.		
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as		

	<i>a member and leader in a team, to manage projects and in multidisciplinary environments.</i>		
	1.5	1.40	• Target is not attained.
Action 1	Project exhibitions and mini project exhibitions are held regularly to encourage students to understand the whole process of project development, project management and learn to demonstrate his/her project.		
PO12	<i>Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.</i>		
	1.65	1.43	• Target is not attained.
Action 1	We Create awareness to students about MOOC'S to enrol courses online and continue their learning in their area of interests .		

PSOs - Attainment Levels and Actions for improvement – (2020-21)

PSOs	Target Level	Attainment Level	Observation
PSO1	<i>Ability to apply concept of mechanical engineering to design a system, a Component or a process/system to address a real world challenges.</i>		
	1.8	1.22	• Target is not attained
Action 1	We Conducted creative online poster to promote tourism in India from 09.08.2021 to 22.08.2021.		
PSO2	<i>Ability to develop effective communication, team work, entrepreneurial and Computational skills.</i>		
	1.8	1.06	• Target is not attained
Action 1	Training and placement department organized group discussions for first year students from 08.07.2021 to 13.07.2021to improve students individual and team work skills.		

POs - Attainment Levels and Actions for improvement AY: 2019-20 (2019-2023 batch).

50% of the target level (3) is considered as attained.

POs	Target Level	Attainment Level	Observation
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.		
	1.80	1.82	<ul style="list-style-type: none"> Target is attained It is proposed to increase the target level in the next academic year.
Action 1	We conducted Induction program for the first semester students before the commencement of academic year from 13.08.2019 to 16.08.2019.		
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.		
	1.65	1.40	<ul style="list-style-type: none"> Target is not attained
Action 1	Solved more number of numerical in regular classes and assignments were given for complex problems.		
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.		
	1.65	1.04	<ul style="list-style-type: none"> Target is not attained
Action 1	We Conducted EMANATION ON 27.09.2019,(ANTAHKARNA)organized many activities.		
Action 2	We Conducted Guest lecture on “How physicists came to know about QUANTUM MECHANICS” On 07.11.2019 by Dr. S.P .Basavaraju.		
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.		
	1.5	0.58	<ul style="list-style-type: none"> Target is not attained
Action 1	Guest lecture was organized on “ IMPORTANCE OF SCIENCE AND RESEARCH TO ENGINEERING STUDENTS” On 26.02.2020 by Dr. Yogesh Kumar K, motivated students to attend National and International Conferences.		
Action 2	Practical approach for explaining various concepts were adopted by teaching		

	faculties in their regular classes.		
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.		
	1.75	2.00	<ul style="list-style-type: none"> Target is attained It is proposed to increase the target level in the next academic year.
Action 1	We Conducted Guest lecture on “How physicists came to know about QUANTUM MECHANICS” On 07/11/2019 by Dr. S.P .Basavaraju.		
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice in Electrical and Electronics Engineering.		
	1.5	0.48	<ul style="list-style-type: none"> Target is not attained.
Action 1	College NSS cell gives opportunity for students to be part of all its environmental related activities. NSS Conducted 7 days Special camp GRAMA SWARAJYA from 05.02.2020 to 11.02.2020 to create awareness on social and environmental issues.		
Action 2	SWACHHA BHARAT ABHIYANA Organized by NSS UNIT On 16.09.2019.		
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.		
	1.65	0.93	<ul style="list-style-type: none"> Target is not attained.
Action 1	Involved students of all the semester to participate in HASIRU ABHIYANA organized by NSS cell on 21.09.2019.		
Action 2	College NSS cell gives opportunity for students to be part of all its environmental related activities. NSS Conducted 7 days Special camp GRAMA SWARAJYA from 05.02.2020 to 11.02.2020 to create awareness on social and environmental issues.		
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.		
	1.5	1.14	<ul style="list-style-type: none"> Target is not attained.
Action 1	70 th National constitution day celebration on 26.11.2019.		
Action 2	Guest lecture conducted on Core values, Peer pressure ,courage in dealing issues in		

	life on 12.02.2020.		
Action 3	We ourselves follow and insist students to check for plagiarism with the plagiarism testing software available in the Library.		
PO9	Individual and team work: <i>Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.</i>		
	1.5	1.19	• Target is not attained.
Action 1	Department have various professional bodies like CSI,BYTES,IEEE,IEI,ISTE to support students to develop their interpersonal and leadership qualities.		
Action 2	We Conducted EMANATION ON 27.09.2019(ANTAHKARNA)organized many activities.		
PO10	Communication: <i>Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.</i>		
	1.5	1.12	• Target is not attained.
Action 1	Training and placement department organized group discussions for first year students from 13.08.2019 to 16.08.2019to improve students personality.		
Action 2	Students participated in Seminars in regular classes which help them to improve their communication and presentation skills.		
PO11	Project management and finance: <i>Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.</i>		
	1.5	0.84	• Target is not attained.
Action 1	Project exhibitions and mini project exhibitions are held regularly to encourage students to understand the whole process of project development, project management and learn to demonstrate his/her project.		
PO12	Life-long learning: <i>Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.</i>		
	1.65	1.37	• Target is notattained.
Action 1	We Create awareness to students about MOOC'S to enrol courses online and continue their learning in their area of interests .Our students Bhumika A.M, Vageesh,Bhumika K and Kishan were able to complete courses online over		

	coursera.
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PSOs - Attainment Levels and Actions for improvement – (2019-20)

PSOs	Target Level	Attainment Level	Observation
PSO1	<i>Ability to apply concept of mechanical engineering to design a system, a Component or a process/system to address a real world challenges.</i>		
	1.8	1.06	<ul style="list-style-type: none"> Target is not attained
Action 1	We Conducted EMANATION ON 27.09.2019(ANTAHKARNA)organized many activities.		
PSO2	<i>Ability to develop effective communication, team work, entrepreneurial andComputational skills.</i>		
	1.8	0.92	<ul style="list-style-type: none"> Target is not attained
Action 1	We Conducted EMANATION ON 27.09.2019(ANTAHKARNA)organized many activities.		
Action 2	We conducted placement training programme from 13.08.2019 to 16.08.2019 .to develop effective communication and team work skills.		

POs - Attainment Levels and Actions for improvement AY: 2018-19 (2018-2022 batch).
50% of the target level (3) is considered as attained.

POs	Target Level	Attainment Level	Observation
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.		
	1.80	1.71	<ul style="list-style-type: none"> Target is not attained
Action 1	For further improvement, conducted Induction programme for the first semester students before the commencement of academic year on 21.08.2018 to 29.08.2018.		
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.		
	1.65	1.28	<ul style="list-style-type: none"> Target is not attained
Action 1	Solved more number of numerical than which was required for the examinations and assignments were given for complex problems.		

PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.		
	1.65	1.14	<ul style="list-style-type: none"> Target is not attained
Action 1	Conducted technical event EMANATION on October 05-10-2018.		
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.		
	1.5	0.64	<ul style="list-style-type: none"> Target is not attained
Action 1	Practical approach to explain the various concepts were adopted by teaching faculties.		
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.		
	1.65	2.07	<ul style="list-style-type: none"> Target is attained It is proposed to increase the target level in the next academic year.
Action 1	Students were addressed on the importance of various design and analysis software during the theory and practical classes.		
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice in Electrical and Electronics Engineering.		
	1.5	0.93	<ul style="list-style-type: none"> Target is not attained
Action 1	Conducted 7 days Special camp (SANKALPA) by NSS on 12.07.2018 to 18.07.2018 to create awareness on societal, health, safety, legal and cultural issues.		
Action 2	Fund collection for kodugu & kerala flood relief by NSS co-ordinators on 25.08.2018.		
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.		
	1.65	1.13	<ul style="list-style-type: none"> Target is not attained
Action 1	Conducted one week awareness program on Cauvery calling on 31-8-2019 to 7-8-		

	2019 and created awareness on Cauvery's depletion, farmer distress, saving Cauvery.		
Action 2	NSS students of Institute conducted 5K Marathon on 01-03-2019 to encourage the students with the theme "We run you learn".		
PO8	<i>Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.</i>		
	1.5	0.20	● Target is not attained
Action 1	Drug abuse awareness program conducted on 06-09-2018 by Thalagattapura police station staff.		
Action 2	Conducted one week NSS camp and stressed about the ethical values to students who were involved.		
Action 3	Library is equipped with plagiarism testing software.		
PO9	<i>Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.</i>		
	1.5	0.89	● Target not attained
Action 1	Placement training was conducted on 16-8-2018 to 20-8-2018 for all students during the beginning of the semester and ideas were given on how to improve their leadership skills and how to manage a team by a soft skills trainer.		
Action 2	Department have various professional bodies like IEI, ISTE, IFF& SAE to support students to develop their interpersonal and leadership qualities.		
Action 3	Emanation Club organizes many activities to support students of different disciplines to come together and carryout inter disciplinary projects.		
PO10	<i>Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.</i>		
	1.5	0.33	● Target is not attained
Action 1	Training and placement department organized group discussions for first year students during the beginning of semesters.		
Action 2	Students participated in Seminars which helps to improve their communication and presentation skills.		
PO11	<i>Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary</i>		

	<i>environments.</i>		
	1.5	0.20	● Target is not attained
Action 1	Conducted Campus Induction program from 21.08.2018 to 29.08.2018 to improve leadership qualities, team building, time management, career counselling.		
Action 2	Motivated students in planning and organizing technical and co-curricular activities also have improved their overall skill set.		
PO12	<i>Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.</i>		
	1.65	1.14	● Target is not attained
Action 1	Faculties gave guidelines to the students to participate in various online courses, conferences and Redline race team so as to engage in independent and life-long learning.		

PSOs Attainment Levels and Actions for improvement-(2018- 2019)

The PO's and PSO's which are attained in the previous academic year consider 50% of the base value as target level and for the PO's and PSO's which are not attained, the target value would be retained.

PSOs	Target Level	Attainment Level	Observation
PSO1	<i>Ability to apply concept of mechanical engineering to design a system, a Component or a process/system to address a real world challenges.</i>		
	1.8	1	● Target is not attained
Action 1	Conducted extra classes for enhancing basic concepts of science and its applications; demonstrated models on Science and Engineering concepts.		
Action 2	Encouraged students to take up mini project so that they can apply fundamental knowledge in building their mini projects.		
PSO2	<i>Ability to develop effective communication, team work, entrepreneurial and Computational skills.</i>		
	1.8	0.96	● Target is not attained
Action 1	Conducted placement training programs to develop effective communication and team work skills.		
Action 2	Encouraged students to give seminars on topics related to the courses so as to develop effective presentation skills.		

9 STUDENT SUPPORT SYSTEMS

Total Marks: 50

9.1 Mentoring system to help at individual level

Total Marks:5

Institute Marks:5

Mentoring system terms of reference; implementation; effectiveness

A. Details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system

- The philosophy of mentoring at KSIT is to instill self confidence and a certain level of comfort among the students.
- Every staff is assigned with approximately 20 students.
- The mentor/mentee meetings are conducted before & after the internal tests to discuss the attendance and also the level of preparedness.
- The staff will continue to mentor the students from the 1st year to their final year.
- The mentor/mentee interaction is through direct contact and also electronic means.
- The students enjoy this mentor/mentee relationship that gradually develops over a period of time and in some cases continue to exist even beyond their stay in the campus.

Objectives:

- To create an environment that supports the academic and psychological development of the mentees.
- To impart directions with regards to the smart methods of learning and writing examinations.
- To give inputs on selection of electives, seminar topics, internships & projects.
- To encourage the mentees to feel free to discuss some of the personnel issues.
- To guide the mentees towards their career goals and help them to achieve the same.
- To motivate mentees to take active part in professional clubs and bodies.

Mentoring Process:

Each student is assigned with a Mentor at the beginning of the first semester. Each mentor maintains a Mentor Book with details like parents/guardian's name, address, contact numbers, academic details and academic scores. The students are directed to make all the entries regarding his personal details in mentor book. The Mentor book contains attendance, performance in internal tests, details of counseling after the internal tests and the University results followed by an undertaking by both student and parent. The mentor makes a note of the entire interaction between him and his mentee during the complete semester. This information on the mentor/mentee interaction is maintained for the 8 semesters. In addition to this the scholarships and sponsorships awarded to the mentee and some of the academic details like project , internships, conferences & seminars, co curricular and extracurricular

activities are also recorded in the mentor book. Every student and his parent is given a login-id to track pertinent information like attendance and academic performance. Follow up sessions with the parents and mentees are arranged for those students who have a poor performance as well as attendance issues to enable them to improve on both these counts.

MENTOR ALLOTMENT



K.S.INSTITUTE OF TECHNOLOGY, BANGALORE 109

Student Details for the Academic year 2020-2021

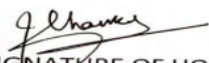
Department: DEPARTMENT OF MECHANICAL ENGINEERING

Semester & Section: 4


Sl. No.	USN	NAME OF THE STUDENT	STUDENT CONTACT NUMBER	FATHER NAME	FATHER CONTACT NUMBER	MOTHER NAME	MOTHER CONTACT NUMBER	NAME OF THE MENTOR & CONTACT NUMBER
1	1KS19ME001	ACHINTYA S SAROVAR	7829318793	SRIDHAR S B	7899253661	JYOTHI Y G	9900102808	Mr. Anil Kumar A 8197975168
2	1KS19ME002	ADVAIT SIDDANTH K V	9591546322	VASUDEVAMURTHY K S	9740814627	GEETHA B.S	9341228912	
3	1KS19ME003	AJITH KUMAR R	9741913111	RAMANNA SP	9741913111	TILAKA V	8892509650	
4	1KS19ME004	ARUN KUMAR M	8073814740	MALLIKARJUNA	9945825826	YESHODAMMA	9908253276	
5	1KS19ME005	BHAVAN KASHYAP K	7925742049	KIRAN A	9632993222	BHAGYASHREE P S	9632991222	
6	1KS19ME006	BHUVANESHWAR R	7269662748	RAGHU K	7899178646	SUJATHA	9886250658	
7	1KS19ME008	CHARITHA S	7204120837	H A SURYAPRAKASH	9035325593	MANJULA B	9448856392	
8	1KS19ME009	DARSHAN N	9886785561	NAGARAJU	9900606817	SUVARNA MR	9986856125	
9	1KS19ME010	DHANUSH GOWDA M	7353815811	MANJUNATH	9901531986	BHAGYA BL	9880010791	
10	1KS19ME011	HEMANTH K	6300535641	KRISHNA	9663377767	KAVITHA	6300527388	
11	1KS19ME012	JAGRUTH M	9986882603	MURALI MOHAN	9448389993	SAVITHRI	9448189993	
12	1KS19ME013	JASHWANTH S	9663603040	SHANKAR	8123453171	PRAMILA	9743937170	
13	1KS19ME014	JAYANTH T K	9740174946	KRISHNEGOWDA T.R	9900865469	PREMAN	9148751602	
14	1KS19ME015	JEEVAN B S	8431308373	SHIVARAMU	9535028532	SAVITHA J	8217820323	

Sl. No.	USN	NAME OF THE STUDENT	STUDENT CONTACT NUMBER	FATHER NAME	FATHER CONTACT NUMBER	MOTHER NAME	MOTHER CONTACT NUMBER	NAME OF THE MENTOR & CONTACT NUMBER
15	1KS19ME016	JITHAN A	9742724309	ASHOK K	9844420589	REVATHI K	9964945220	Mr. Anil Kumar A 8197975168
16	1KS19ME017	MADHU V	8296380529	VENKATESH G	9980415611	BARATHI	9113284507	
17	1KS19ME018	MANUKUMAR D K	9538799940	KHANDEAIAH	9611242061	INDRAMMA	9611242061	
18	1KS19ME019	NIHAL M L	6366302967	LOKESH MP	9448271611	PADMAJA V	9980413490	
19	1KS19ME020	NITHESH S R	8867297560	RAJKUMAR HS	9060660118	NAGARATHNA	8861747229	Mr. Rajesh G L 9916468891
20	1KS19ME021	PRAJWAL KUMAR R	8277416400	RAVI KUMAR C N	9844005847	SUNANDA N	8748801718	
21	1KS19ME022	PRASANNA KUMAR S G	8296061293	GUDDAPPA SS	9916866164	MANJULA SG	8073550399	
22	1KS19ME023	PRATHAP REDDY T M	9663730909	MANJUNATH REDDY T A	8970821221	RADHA R	9606813019	
23	1KS19ME024	R DEEPAK A RAO	6360680115	A RAJESH RAO	9945598549	R MURALI BAI	9945598549	
24	1KS19ME025	R MANOJ REDDY	7829868894	RAMACHANDRA REDDY	9945567696	NAGARATHNA		
25	1KS19ME026	RAHUL R	9108412200	RAVIKUMAR	9844644428	RAMYA	9743011888	
26	1KS19ME027	RAKSHITH NAGESH	9380131170	R. NAGESH	7760771996	RENUKA	9886090941	
27	1KS19ME028	RAMACHANDRA S	7259179545	SHIVA SHANKAR M	8147893945	LOKAMANI		
28	1KS19ME029	SANJAY.V	7353990892	K. VEERENDRA	9845447763	INDUMATHI G	9880264973	
29	1KS19ME030	SHREYAS B	8431565536	BETTASWAMY	9242765204	RENUKA	9141139182	
30	1KS19ME031	SHREYAS H VASIST	8884642255	HARISH	8971220055	POORNIMA	9972326755	
31	1KS19ME032	SRIKRISHNA SANTHOSH K	9538337254	VENU MADHAV K (Late)		USHA KIRAN K	9741616212	
32	1KS19ME033	SUJAY ADITHYA	8722203441	NARAYANA G	8951838268	KUSUMADEVI B R	9986915062	
33	1KS19ME034	SYED ASMA ASHEER	7349080491	SYED ATHAULLA	9880336931	FARHANA TAJ	8951871575	

Sl. No.	USN	NAME OF THE STUDENT	STUDENT CONTACT NUMBER	FATHER NAME	FATHER CONTACT NUMBER	MOTHER NAME	MOTHER CONTACT NUMBER	NAME OF THE MENTOR & CONTACT NUMBER
34	1KS19ME035	THEJAS V R	9606208449	RAVI V (Late)		SARASWATHI S	9880468917	Mr. Rajesh G L 9916468891
35	1KS19ME036	TILAK P	9483447557	HARIPRASAD .P	9945523937	BHAGYALAKSHMI	7899647557	
36	1KS19ME037	VAISHNAV H	7483100803	HANUMATHA RAJU.S	9980070537	LAKSHMI		
37	1KS19ME038	VENKANGOUDA MALIPATIL	9591873555	DANANAGOUDA MALI PATIL	9449422745	SHARANAMMA MALI PATIL	9591873555	
38	1KS19ME039	VENKATRAMANA G BHAT	9480057128	GIRISH V BHAT	9448465672	MUKTA V BHAT	9481026428	
39	1KS19ME040	ZAFFAR ABDULLAH SHEIKH	7889412311	MUHAMMAD ABDULLAH	7889412311	MUMTAZA BEGUM		
40	1KS18ME001	ABHISHEK MANIKUMAR	9980963475	MANI V A	9880939815	PUSHPAT P	8050511869	Mr. Bharath Kumar K R 8861961392
41	1KS18ME008	ANUSH S	6361679432	SHANKAR NARAYAN V	8792647754	MAMATHA K	8792309403	
42	1KS18ME010	ATIF MANSOOR SHAIK	9535191031	MANSOOR AHMED	9980551004	FARZANA M	8317388797	
43	1KS18ME024	KARTHIK G S	9901275577	M GOVINDA RAJ	9036613677	SUMATHI	9620259955	Mr. Parashuram A K 9620365016
44	1KS18ME048	PRAJWAL NIKAM	8792468025	JYOTIRAN NIKAM	9731220028	ROHINI NIKHAM	7795363127	
45	1KS18ME056	ROHITH S	9148859580	SANTHOSH	9480321996	SRIPRIYA	9481456480	
46	1KS18ME057	ROJA G NAIK	8050536229	GOVINDA H NAIK	7259328471	GEETHA G NAIK	7026160620	


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

MENTOR BOOK



KSIT
K.S. INSTITUTE OF TECHNOLOGY

Kannuvuri Sangham (R) 1952
K.S. GROUP OF INSTITUTIONS
ಕೆ.ಎಸ್. ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ
K.S. INSTITUTE OF TECHNOLOGY
(Approved by AICTE & Affiliated to VTU)

CBCS

STUDENT REGISTER

Name of the Student : BHARATH KUMAR.G


Branch : ME

USN :

1	K	S	I	T	M	E	0	1	4
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Batch :

2	0	1	7
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www.ksit.ac.in



DEPARTMENT OF MECHANICAL ENGINEERING

MENTOR DETAILS

Sl. No	Name of the Mentor	Designation	Department	Mentor Period		Signature of the Mentor
				From	To	
1.	Sunil Kumar N	Asst Prof	Physics	7/8/2017	28/2/18	
2.	ANANTHA M. S	Asst. Prof.	CHEMISTRY	11/2/18		
3.	Nisimalel	Asst prof	Mechanical	3rd Aug 2019		
4.						
5.						
6.						
7.						
8.						

(To be filled with Block Letters only)

Name of the Student : BHARATH KUMAR.G

University Seat Number : 1 K S I T M E C I A

College ID No. :

Date of Birth (DD/MM/YYYY) : 08 04 1999

Religion / Community / Caste :

Year of Admission : 2017

Nature of Admission : CET ☒ COMED-K ☐ Management ☐

Hostelite (H) / Day Scholar (D) : I Year ☐ II Year ☐ III Year ☐ IV Year ☐



Passport No. : Driving Licence No. :

Bank Details :- 1) Bank : A/C No. :

2) Bank : A/C No. :

Degree / Branch : B.E / MECHANICAL

Languages Known :

Name	Qualification / Occupation / Designation	Office Address with Phone No.	Mobile No./ E-mail ID	Stamp Size Photo
Name of the Father <u>BIOVINDARAJU.G</u>	<u>COOLIE</u>		<u>+91 7740366893</u>	
Name of the Mother <u>MAHESHWARI.G</u>	<u>HOUSE WIFE</u>		<u>+91</u>	
Guardian Name (Relationship)			<u>+91</u>	

KS Institute of Technology
Bengaluru - 560 109

I SEMESTER

Student Name : BHARATH KUMAR G
USN : 1KS17ME014

Attendance & Performance in Internal Assessment Test:

Max Marks:40

Sl. NO	Sub. Code	Subject Name	I.A. Test-I				I.A. Test-II				Improvement Test				Marks	Remarks
			CT	CA	AP	MO	CT	CA	AP	MO	CT	CA	AP	MO		
1	17 MAT - 11	Engineering Maths - I	30	30	100	30	47	47	100	48	66	66	100	29	10	29 39
2	17 PHY - 12	Engineering Physics	29	29	100	30	47	47	100	30	70	69	99	30	10	30 40
3	17 CIV - 13	Elements of Civil Engg. & Engg. Mechanics	28	28	100	26	38	38	100	30	63	63	100	28	10	28 38
4	17 EME - 14	Elements of Mechanical Engg.	31	31	100	29	47	47	100	30	74	74	100	30	10	30 40
5	17 ELE - 15	Basic Electrical Engg.	28	28	93	23	44	41	93	26	69	66	96	25	10	25 35
6	17 WSL - 16	Workshop Practice	5	5	100	-	8	8	100	-	13	13	100	-	10	30 40
7	17 PHYL - 17	Engg. Physics Lab	5	5	100	-	9	9	100	-	13	13	100	-	10	30 40
8	17 ENG - 18	English	11	11	100	-	17	16	94	-	26	25	96	-	1	

Note :CT= Number of Classes Taken

CA= Number of classes attended

AP= Attendance in percentage

MO= Marks Obtained

Overall percentage of attendance in I Semester: 97.875 %

Bharath Kumar G
Student


MO


MO


Principal

Counseling After Internal Assessment Test

Date of Counseling	Time	Discussed the shortfalls in the Academic performance	Adherence to the suggestions given by the faculty (To be filled by student)	Remarks
22.10.17	10:30	Students performed well & improvement is suggested in the next internal	I will try to get better marks in next internal	

Bharath Kumar. G
Student

Mentor


Principal

Principal

KS Institute of Technology
Bengaluru - 560 109

I SEMESTER

Student Name : BHARATH KUMAR - G
USN : 1KS17ME014

University Results

Sub Code	17 MAT - 11			17 PHY - 12			17 CIV - 13			17 EME - 14			17 ELE - 15			17 WSL - 16			17 PHYL- 17			17 ENG - 18			Remarks			
Sub Name	Engineering Maths - I			Engineering Physics			Elements of Civil Engg. & Engg. Mechanics			Elements of Mechanical Engg.			Basic Electrical Engg.			Workshop Practice			Engg. Physics Lab			English						
Month & Year	INT	EXT	GL	INT	EXT	GL	INT	EXT	GL	INT	EXT	GL	INT	EXT	GL	INT	EXT	GL	INT	EXT	GL	INT	EXT	GL				
DCC 1st 2018	39	45	84	40	46	86	38	41	79	40	43	83	35	46	81	40	54	94	40	53	93							

Note: INT= Internal Marks obtained

EXT: Credit Points Obtained

GL = Grade Letter Obtained

Total Credit Points = 216

Total Credits = 24

SGPA = 9.0

Bharath Kumar - G
Student

[Signature]
Mentor

[Signature]
HOD

[Signature]
Principal

Type of Mentoring System

Professional Guidance:

Coding Proficiency- Motivates students to participate in various coding competitions organized by Industries, Academia, and Institutes of Higher Learning's thus enhancing the technical competency and confidence.

Internships- Support, Encouragement, and Guidance are provided for students to undergo an internship program to understand the work culture of the industry, the latest tools, technology and expectations of the Industry. The affiliating university has made internship a mandatory part of the curriculum.

Career Advancement:

Career Guidance: Any student studying in a technical institution will confront many paths to build a career for himself/herself. The role of the mentor is to expose his mentees to the various options in terms of career paths. The mentor, having known his mentees at a one-to-one level will have a good idea about the right path that each mentee should take. Thus, the mentor is quite competent to show this particular path to the mentee so that he/she can take this path and build a successful career.

Placement Guidance: Communication Skills and Technical Skills: Communication skills specially oral, written and presentation skills are continuously imparted from the 1 semester to seventh semester covering topic such as Communication Skills, Interpersonal Skills, Presentation skills and Body language, Self introduction and E-Mail writing, Group Discussion, Public Speaking, Resume Writing & Presentation Skills.

Technical Training: In the 7 semester, the students are given a recap of all the technical subjects to reinforce the fundamentals they have learnt and prepare to perform better in the campus selection process.

Course Work Specific: Smart Study and writing Examinations: The mentor has to guide his mentees with regards to the sources of study material available, the smart approach to study, the ways and means to remember the knowledge acquired and organize their learning in a proper schema so as to retrieve this knowledge and apply the same whenever they are confronted with a problem. This smart learning along with some pointers to effectively write the answers will help all the mentees to write smart and perform better in their examinations. Selection of electives, internships, projects & seminar: Every student who enters the portals of a technical institution is confronted with certain crucial decisions with regards to electives, internships, seminar topics and project and guide selection. The role of the mentor attains its pinnacle during the mentor/mentee interaction while the former helps the latter to take decisions on these academic matters.

Laboratory specific: Laboratory manual: Provide students with customized laboratory manual based on the experiments of the course. PPT Explanation: Students are given PPT explanation before commencement of the experiment to make them understand working procedure. Student Counseling: Counsel irregular students to attend laboratory classes regularly.

All round Development: Personal Development: Since the students join the professional institution from their higher secondary education they need to be reoriented towards the new environment. Thus, the mentors have the responsibility of putting their mentees in to a comfort zone and help them to overcome the culture shock which they may probably face.

Every first year student as well as parent will have certain apprehensions regarding the presence of ragging on the campus. The mentor has to give the courage to both of them that the campus is ragging free and safe. The mentor interacts with his mentee on a one-to-one basis and tries to understand the strengths, weaknesses, interests, hobbies and his/her likes & dislikes and tries to know each of his mentees at personal level. The mentor uses all the above information to encourage the personal development of each mentee during their four years of stay on the campus. Motivating the students for Extracurricular activities: The students are encouraged to participate in various co - curricular and extracurricular activities which give them an exposure to managerial skills, team skills, interpersonal skills, leadership & decision making etc.,

Efficacy of Mentoring: Students who enter the portals of KSIT go through a rigorous training program under the strict monitoring of their mentors. This has resulted in the students developing themselves into very proficient and competent individuals. This is in tune with the vision the institute in developing quality technical manpower with ethical values and employable skill

9.2 Feedback analysis and reward /corrective measures taken, if any Total Marks:10


Institute Marks:10

A. Methodology being followed for analysis of feedback and its effectiveness


- The scale for faculty feedback rating is from 1 to 10 (10 point scale).
- The feedback collected from students is first analyzed by an Assessment Committee headed by the Principal.
- Principal can only access the feedback given by students and give away to respective Head of the Departments. Further, respective Head of the Departments will circulate individual subject feedback as well as consolidated class feedback to each faculty.

Faculty scoring less than the Institution Standard (80%), necessary corrective actions is followed. The comments are analyzed by the Head of the Department and are discussed with the concerned faculty individually. Suggestions for improvement in teaching performance are given if required.

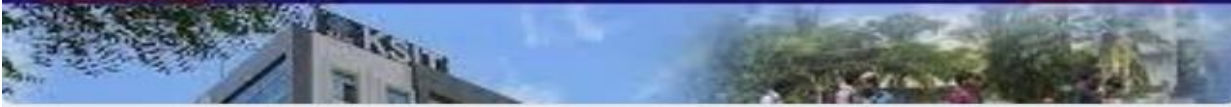
FACULTYFEED BACK FORM





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K.S INSTITUTE OF TECHNOLOGY



Student Feedback Form – 8th Semester

 librarianksit@gmail.com (not shared) [Switch account](#) 

* Required

DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2020-21 (EVEN)

Email ID *

Your answer

MOBILE NUMBER *

Your answer

SEMESTER & SECTION *

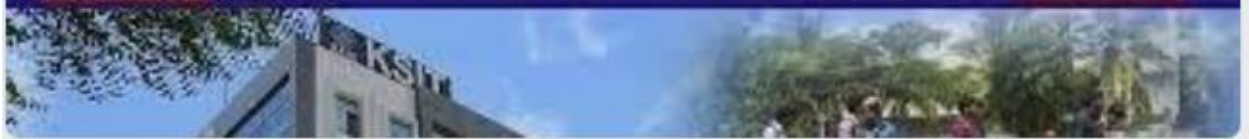
☐ Eighth Semester - A

☐ Eighth Semester - B



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K.S INSTITUTE OF TECHNOLOGY



Student Feedback Form - 8th Semester



librarianksit@gmail.com (not shared) [Switch account](#)



* Required

Course Title : Operation Research

Course Code : 17ME81

Faculty Name *

☐

Dr Nagaprasad K S

☐

Mr Harish U

1) Effective planning & organization of lecture by faculty *

☐

Excellent

☐

Good

☐

Fair

2) Ability of faculty to teach effectively using ONLINE portal. *

☐ Excellent

☐ Good

☐ Fair

3) Subject knowledge of the faculty *

☐ Excellent

☐ Good

☐ Fair

4) Effective distribution of study materials *

☐ Excellent

☐ Good

☐ Fair

5) Communication skills of the faculty & clarity of communication *

☐ Excellent

☐ Good

☐ Fair

6) Syllabus coverage by the faculty *

- ☐ Excellent
- ☐ Good
- ☐ Fair

7) Evaluation of Test & Assignments *

- ☐ Excellent
- ☐ Good
- ☐ Fair

8) Effectiveness in conduction of teaching pedagogy activities *

- ☐ Excellent
- ☐ Good
- ☐ Fair

9) Interaction of faculty with students *

- ☐ Excellent
- ☐ Good
- ☐ Fair

10) Punctuality in taking ONLINE classes *

☐ Excellent

☐ Good

☐ Fair

Back

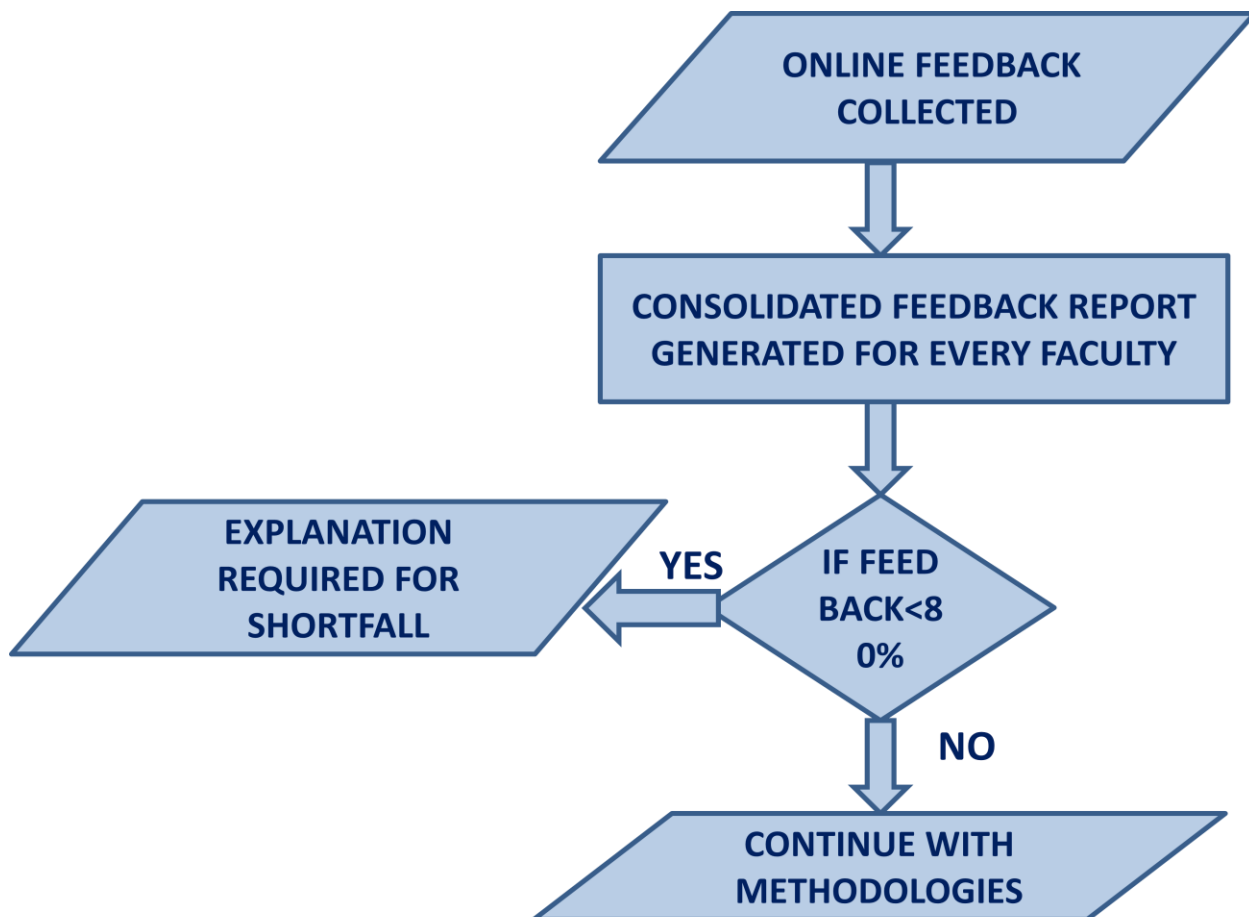
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FEEDBACK FLOWCHART



FEEDBACK PROCESS

Feedback collected for all courses: YES

Specify the feedback collection process: Through web portal

Average Percentage of students who participate: 85%

K S INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
STUDENT FEEDBACK SURVEY (ONLINE-TEACHING) - June 2020 - 2021 (EVEN SEMESTER)

- 1) Effective planning & organization of lecture by faculty
- 2) Ability of faculty to teach effectively using ONLINE portal.
- 3) Subject knowledge of the faculty
- 4) Effective distribution of study materials
- 5) Communication skills of the faculty & clarity of communication
- 6) Syllabus coverage by the faculty
- 7) Evaluation of Test & Assignments
- 8) Effectiveness in conduction of teaching pedagogy activities
- 9) Interaction of faculty with students
- 10) Punctuality in taking ONLINE classes

4th Semester														
Sl No	Faculty Name	Course	Course Code	1	2	3	4	5	6	7	8	9	10	Avg
1	Dr P Jalaia	MATHEMATICS - IV	18MAT41	9.63	9.38	9.38	9.38	9.50	9.50	9.38	9.00	9.63	9.50	94.25
2	Mr Venkataramana	MATHEMATICS - IV	18MAT41	9.24	9.24	9.24	9.10	9.24	9.33	9.33	9.10	9.19	9.24	92.24
3	Mr Parashuram A K	APPLIED THERMODYNAMICS	18ME42	9.27	9.11	9.22	9.22	9.11	9.14	9.30	9.19	9.19	9.19	91.92
4	Dr Saleem Khan	FLUID MECHANICS	18ME43	8.95	8.76	8.97	8.78	8.73	8.97	9.11	8.97	8.86	9.11	89.22
5	Dr L. Nirmala	KINEMATICS OF MACHINES	18ME44	9.03	9.03	9.38	8.95	8.97	9.08	9.22	9.11	8.68	9.00	90.43
6	Mr Harish U	METAL CASTING AND WELDING	18ME45B	9.41	9.35	9.41	9.27	9.24	9.35	9.38	9.30	9.35	9.22	93.27
7	Mr Bharath Kumar K R	MECHANICAL MEASUREMENT & METROLOGY	18ME46B	9.46	9.57	9.57	9.32	9.43	9.46	9.38	9.32	9.38	9.46	94.35
6th Semester - A section														
1	Mr Ranganath N	FINITE ELEMENT METHOD	18ME61	9.22	8.92	9.06	8.89	9.14	8.92	8.92	8.78	9.00	9.08	89.92
2	Dr Girish T R	DESIGN OF MACHINE ELEMENTS II	18ME62	8.92	8.86	9.11	8.72	8.89	8.86	9.00	8.92	9.03	8.89	89.19
3	Dr Nagaprasad K S	HEAT TRANSFER	18ME63	9.00	8.78	9.19	8.83	8.97	8.89	8.81	8.97	8.97	8.94	89.36
4	Dr L. Nirmala	NON TRADITIONAL MACHINING	18ME641	9.08	9.04	9.32	8.84	9.02	9.04	9.02	9.06	8.88	9.00	90.30
5	Mr Anil Kumar A	THEORY OF ELASTICITY	18ME643	9.16	9.16	9.16	9.00	9.05	9.16	9.05	9.05	9.05	9.16	91.00
6	Mrs Sougandika	INTRODUCTION TO OPERATING SYSTEM	18ME654	9.17	9.03	9.17	8.83	9.17	9.03	9.03	9.00	9.08	9.11	90.61

Sl No	Faculty Name	Course	Course Code	1	2	3	4	5	6	7	8	9	10	Avg
6th Semester - B section														
1	Mr Nagabhushana M	FINITE ELEMENT METHOD	18ME61	8.48	8.29	8.88	8.62	8.38	8.60	8.86	8.45	8.57	8.74	85.86
2	Mr Anil Kumar A	DESIGN OF MACHINE ELEMENTS II	18ME62	9.57	9.79	9.95	9.64	9.50	9.90	9.71	9.57	9.64	9.71	97.00
3	Mr Prasad K	HEAT TRANSFER	18ME63	9.02	8.67	9.19	8.98	8.81	8.88	9.10	8.76	8.90	8.86	89.17
4	Dr L. Nirmala	NON TRADITIONAL MACHINING	18ME641	8.93	8.96	9.22	8.70	8.93	8.85	8.93	8.81	8.63	8.85	88.81
5	Mr Anil Kumar A	THEORY OF ELASTICITY	18ME643	9.60	9.70	9.80	10.00	9.90	9.70	9.70	9.55	9.70	9.90	97.55
6	Mr Prashanth	INTRODUCTION TO OPERATING SYSTEM	18ME654	8.71	8.64	8.83	8.64	8.69	8.69	8.83	8.62	8.67	8.71	87.05
8th Semester - A section														
1	Dr Nagaprasad K. S	OPERATION RESEARCH	17ME81	9.52	9.31	9.53	9.25	9.42	9.25	9.08	9.33	9.45	9.50	93.64
2	Dr Girish T R	ADDITIVE MANUFACTURING	17ME82	9.48	9.42	9.48	9.41	9.45	9.42	9.48	9.33	9.52	9.41	94.41
3	Mr Prasad K	PRODUCT LIFE CYCLE MANAGEMENT	17ME835	9.81	9.63	9.78	9.69	9.69	9.72	9.75	9.59	9.75	9.72	97.13
8th Semester - B section														
1	Mr Harish U	OPERATION RESEARCH	17ME81	9.10	8.90	9.14	9.22	9.05	9.12	9.25	9.12	9.22	9.14	91.25
2	Mr Manjunath B R	ADDITIVE MANUFACTURING	17ME82	9.44	9.37	9.44	9.36	9.41	9.37	9.44	9.27	9.47	9.36	93.93
3	Mr Nagabhushan M	PRODUCT LIFE CYCLE MANAGEMENT	17ME835	9.20	9.15	9.36	9.39	9.31	9.25	9.37	9.31	9.29	9.36	92.98

[Signature]
HOD 5/7/2024

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

B. Record of corrective measures taken

- If feedback is < 80%, remedial measures are proposed for improvement and are documented.
- Concerned faculty will be counseled by HOD and Principal.
- Promoting and encouraging faculty to attend the Faculty Development Programs (FDP) related to effective teaching methodologies.

Reward: If Faculties gets 100% results, they are rewarded with certificates during Orientation Day Function.

9.3 Feedback on facilities**Total Marks:5****Institute Marks:5****A. Feedback collection, analysis and corrective action**

Every year feedback on college facilities is collected from the students. Necessary actions are taken based on the feedback. The students have freedom of expressing their views/suggestions about the facilities. Head of the Institution in consultation with the management, corrective actions has been taken after discussions. Assessment is based on student feedback collection, analysis and corrective actions taken.

Feedback on facilities is taken as per the following steps:

- 1) Feedback collection process
- 2) Feedback analysis
- 3) Corrective actions

Feedback collection process

Items	Description
• Feedback collected on all facilities provided by the college.	• YES
• Feedback collection process	• Google Forms
• Feedback receiver	• Head of the Institution
• Frequency of feedback collection	• Once in an academic year
• Metrics used for calculation	• 5 Point Likert Scale • (Excellent, Very Good, Good, Satisfactory, Not Satisfactory)
• Purpose	• For improving the quality of facilities

QUESTIONNAIRES FEEDBACK ON FACILITIES

Rating Scale :

5	4	3	2	1
Excellent	Very Good	Good	Satisfactory	Not Satisfactory

1. The upkeep of class rooms, common areas, corridors and others instructional areas are:
2. The Laboratories and workshops are fully equipped and provides a good learning environment:
3. The Library is adequate with ample no. of titles and volumes of text and reference books and other learning materials including e-resources:
4. The location and landscaping of the campus is :
5. The internet connectivity that is provided in the labs / On-line exam centre in the campus is:
6. The institution provides for adequate co-curricular and extra curricular activities:
7. The institution has adequate no. of student chapters of professional bodies that aids my professional development;
8. The Placement & Training Office is very active and gives adequate training and prepares me for campus recruitment:
9. The office is accessible and student friendly and always willing to give me any information and guidance:
10. The exam section in the office is very courteous and always willing to help me in all the exam related tasks like filing applications, issuing admission tickets and marks cards.
11. Drinking water accessibility is:
12. The Canteen is adequate, hygienic and offers a variety of food.
13. The maintenance and upkeep of wash rooms are:
14. The sports amenities provided by the institution are:
15. The transportation infrastructure of the institute is quite adequate and student friendly while the buses are punctual and the transportation staff are very courteous:
16. Amenities like staff and student parking, lift and ramps that are adequately provided are
17. The hostel facility provided for both boys and girls is:
18. The food served in the hostel is sumptuous, nutritious and hygienic
19. The ladies room and boys' common area are adequately furnished and well equipped:
20. The first aid room and immediate attention that the students get in case of medical emergencies are

Feedback analysis

The feedback given by the students is consolidated and analyzed. The Principal discusses about the consolidated report with the management and comes out with necessary action plan.

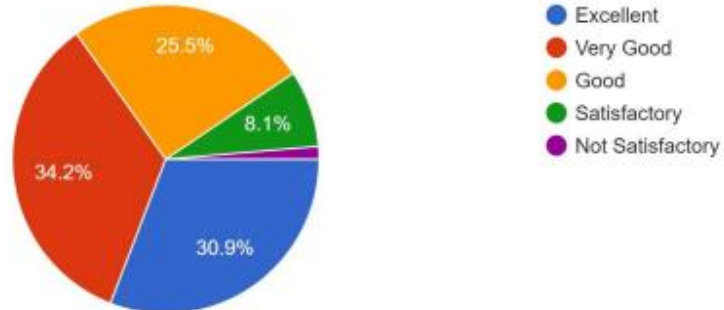
Rating of scale is from 1 to 5 (5 - Excellent, 4 - Very Good, 3 - Good, 2 - Satisfactory, 1 - Not Satisfactory)



STUDENT FEEDBACK ON FACILITIES 2020-21

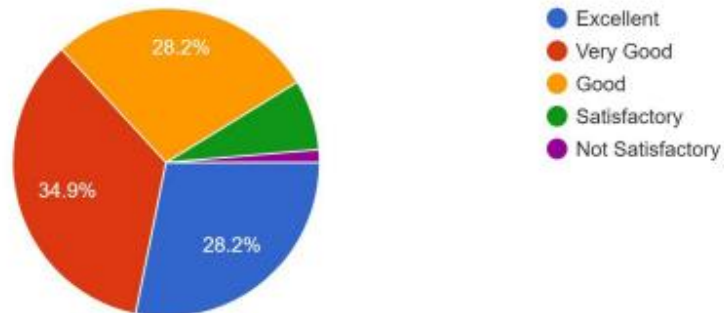
1. The upkeep of class rooms, common areas, corridors and others instructional areas are:

149 responses



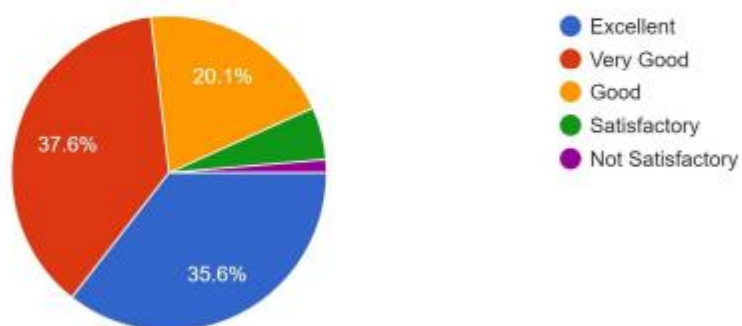
2. The Laboratories and workshops are fully equipped and provides a good learning environment:

149 responses



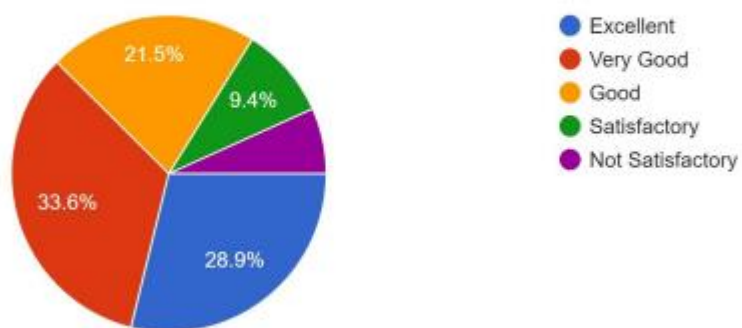
3. The Library is adequate with ample no. of titles and volumes of text and reference books and other learning materials including e-resources:

149 responses



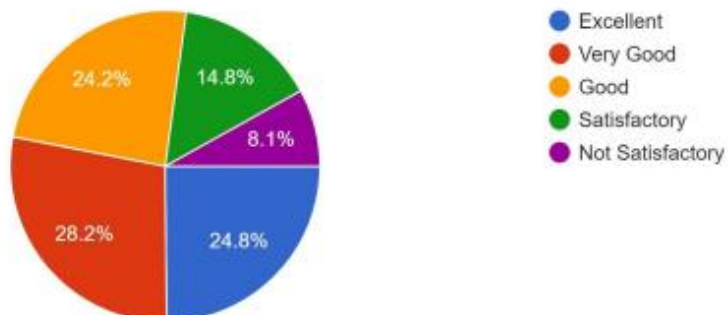
4. The location and landscaping of the campus is :

149 responses



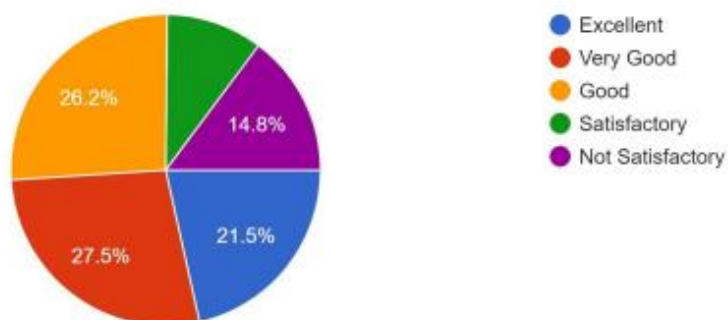
5. The internet connectivity that is provided in the labs / On-line exam Centre in the campus is:

149 responses



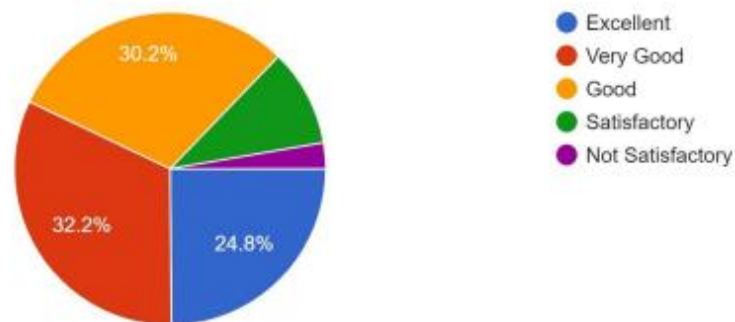
6. The institution provides for adequate co-curricular and extra curricular activities:

149 responses



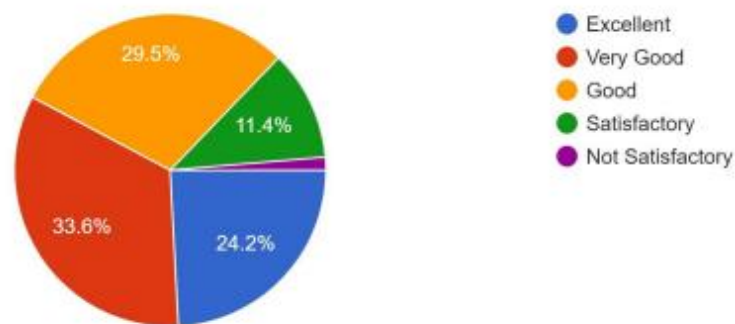
7. The institution has adequate no. of student chapters of professional bodies that aids my professional development;

149 responses



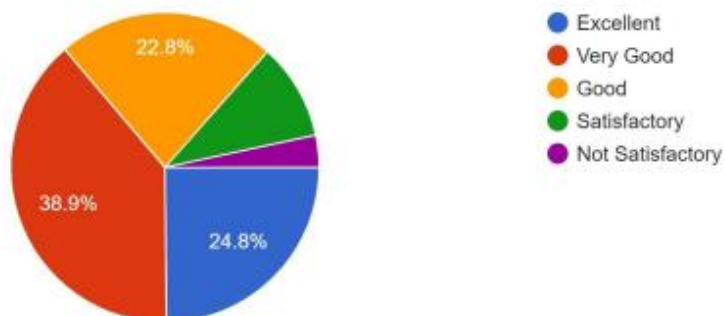
8. The Placement & Training Office is very active and gives adequate training and prepares me for campus recruitment:

149 responses



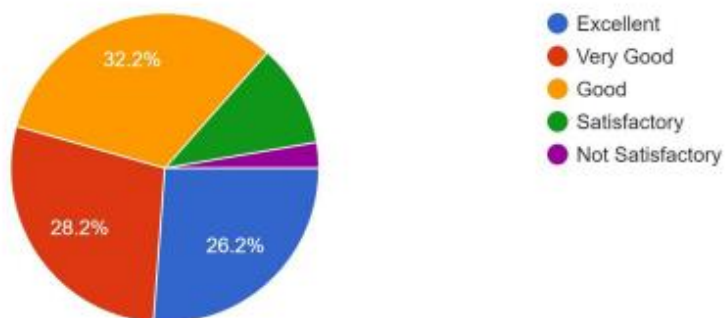
9. The office is accessible and student friendly and always willing to give me any information and guidance:

149 responses



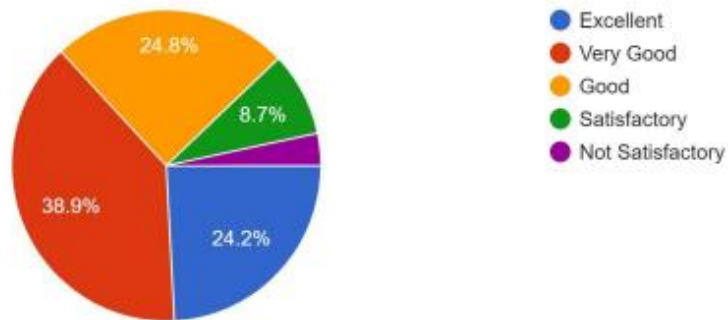
10. The exam section in the office is very courteous and always willing to help me in all the exam related tasks like filing applications, issuing admission tickets and marks cards.

149 responses



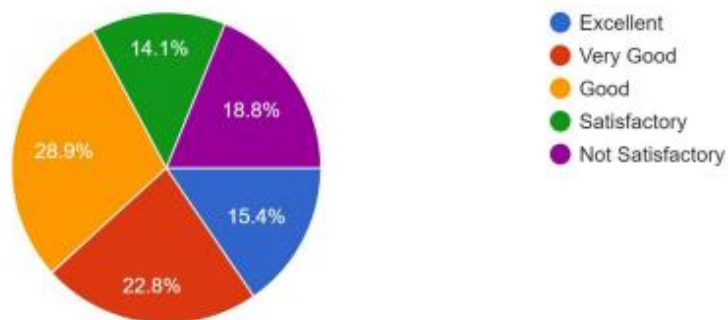
11. Drinking water accessibility is:

149 responses



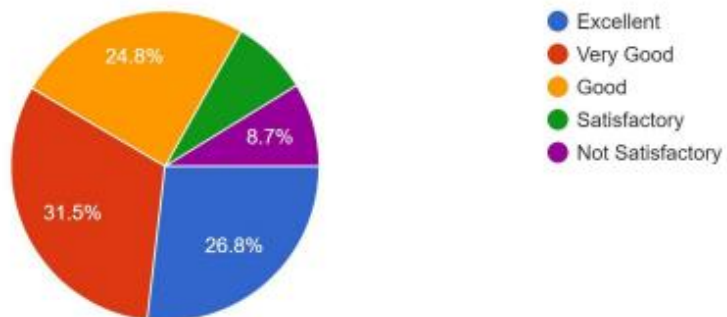
12. The Canteen is adequate, hygienic and offers a variety of food

149 responses



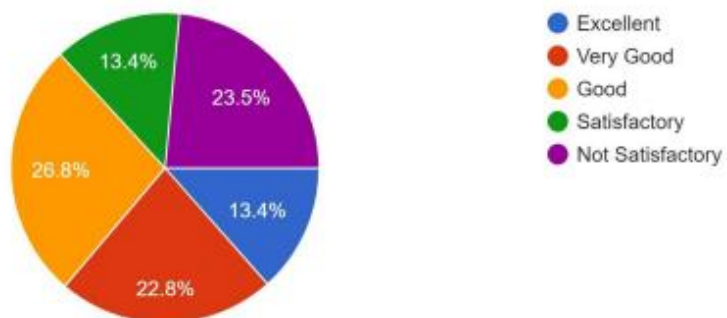
13. The maintenance and upkeep of wash rooms are:

149 responses



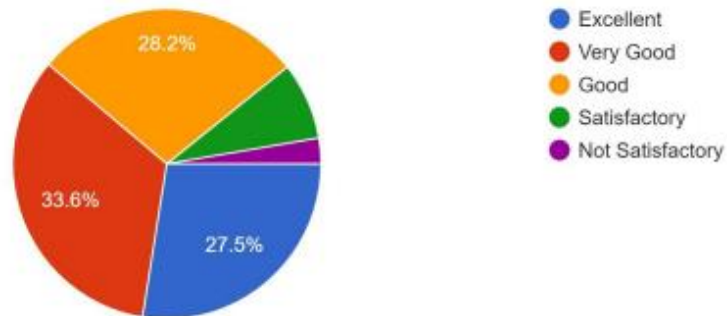
14. The sports amenities provided by the institution are:

149 responses



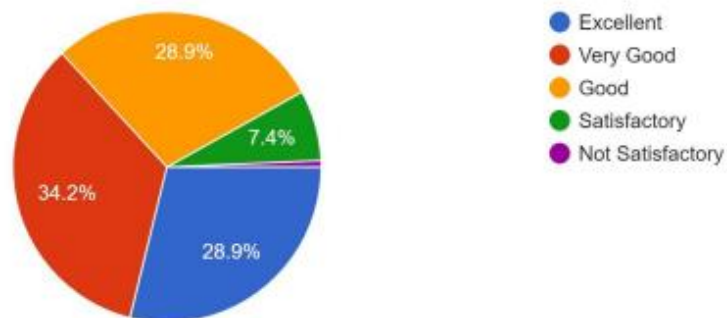
15. The transportation infrastructure of the institute is quite adequate and student friendly while the buses are punctual and the transportation staff are very courteous:

149 responses



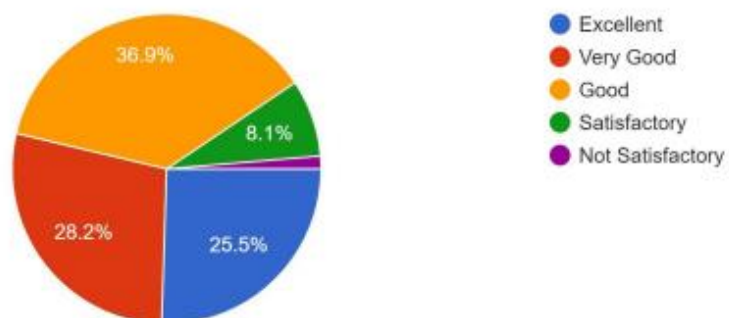
16. Amenities like staff and student parking, lift and ramps that are adequately provided are :

149 responses



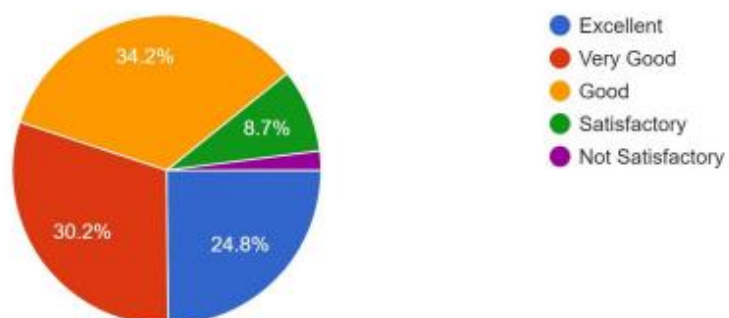
17. The hostel facility provided for both boys and girls is:

149 responses



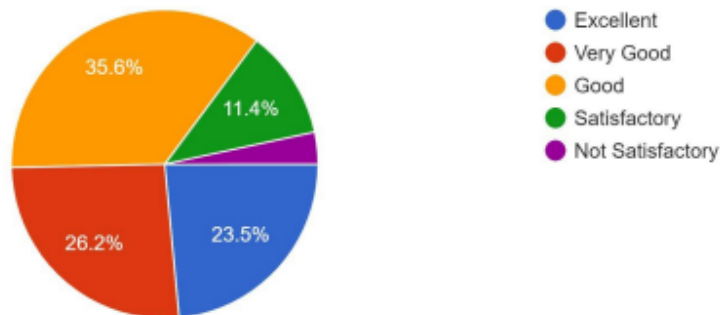
18. The food served in the hostel is sumptuous, nutritious and hygienic.

149 responses



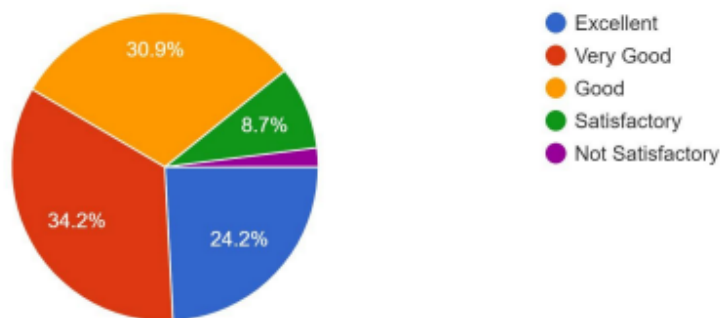
19. The ladies room and boys' common area are adequately furnished and well equipped:

149 responses



20. The first aid room and immediate attention that the students get in case of medical emergencies are

149 responses



Corrective actions:

Grievance Committee headed by Mr. Sanjoy Das, Assistant Professor, CSE to take care of students Grievances. These Grievances are brought to the notice of higher authorities and necessary action will be taken.

9.4 Self-Learning

Total Marks: 5

Institute Marks: 4

Scope for Self-Learning:

Course Assignments help students in getting a better exposure to the subject.

Internships:

Students are facilitated by providing list of companies /Industries, where they can undergo 4 weeks of Internship/ Professional practice. College took initiative to organize in house internship by calling resource persons from industry. Student shall report to the department internship coordinator in which company/ industry he/she is doing their internship. The internship coordinator will allot a guide to each student. Student will be in touch with their guide, informing about their learning. Student cumulates their learning in a report on their internship/ professional practice and gives a presentation in front of internship coordinator and the guide.

Mini Projects: Students are encouraged to do mini projects using their domain knowledge in order to expose them to real life problems. These projects are done on their own initiative but in consultation with the faculty. After completing these mini projects the students are encouraged to demonstrate the same to the faculty in their departments who would advice to improve upon them and take it forward to their final year project work.

Technical Seminar: Students are encouraged to choose their seminar topic from the latest published papers. Students will ensure that the topics are of IEEE/IET/Springer/ Elsevier Journal publications/ similar standards of recent years. The seminar coordinators freeze the topics for the student based on ‘first cum first served’ and also ensure no duplication of topics will happen. A seminar report has to be prepared as per university guidelines. The report will include introduction, literature analysis, proposed methodology by the author, hardware & software requirements, applications, conclusion and future scope. The presentation schedule is prepared by seminar coordinator and displayed on the notice board. Per Week four hours are made available for students to present their technical seminar as per the schedule.

Project Work: Students will choose their project from the list of synopsis posted on the department notice board. The list of synopsis is prepared by project coordinator, in which each faculty proposes two or three project titles of their area of research/interest. Students shall go through the list and report to the coordinator about their choice of project and freeze their project title, project guide and their team. Students shall make their own teams, as per university guidelines. The freezing of topic happens on ‘first cum first served’ basis. Students are also encouraged to come up with their own ideas.

In the zero review, student's project team will present their project objectives and timeline to carry out their project. Students have to meet their guide at least once in a week to report their project status and to seek guidance in their progress. To evaluate project progress, the department conducts three project reviews. In the first review literature survey and problem formulation are evaluated. In the second review experimental observation / theoretical modeling and status of the report are evaluated. In the third review results, conclusion / scope for future work and completion of report are evaluated.



K.S. INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

Journal publications by students (2020-2021):

Sl No.	Name of the student	Title of the paper	Journal Details
1	Molakalu Punith Kiran R Karan C Eshwaran	A REVIEW ON STUDY AND USAGE OF COMBINING AFTER TREATMENT DEVICES INTO EXISTING DIESEL ENGINE	International Advanced Research Journal in Science, Engineering and Technology Vol. 8, Issue 7, July 2021
2	Saiaditya C H Nandish M Praveen LN Pruthviraju M S	Energy Audit and Renewable Energy System-A Review	International Journal of Advances in Engineering and Management (IJAEM) Volume 3, Issue 7 July 2021, pp: 2400-2406 www.ijaem.net ISSN: 2395-5252


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

STUDENT PUBLICATIONS



International Journal of Advances in Engineering and Management (IJAEM)
Volume 3, Issue 7 July 2021, pp: 2400-2406 www.ijaem.net ISSN: 2395-5252

Energy Audit and Renewable Energy System-A Review

Saiaditya C H¹, Nandish M², Praveen Ln³, Pruthviraju M S⁴
Dr. Nagaprasad K S⁶ Dr. Nirmala L⁷

1,2,3,4 final year students and 6,7 associate professor
Department of mechanical engineering
K s institute of technology bengaluru-560109

Submitted: 01-07-2021

Revised: 13-07-2021

Accepted: 16-07-2021

ABSTRACT- Energy conserved is energy generated. Energy plays a pivotal role in our life. The requirement for energy is soaring. The intensifying demand can be met either by furthering the energy generation or by conserving the usage of energy. Generation of energy is an expensive affair; hence it is very important to conserve energy. Electrical energy audit is the process of examining the patterns in consumption of electricity to discover opportunities to conserve energy. Energy audit is a labor-intensive task; therefore, automation is necessary. The Energy Audit and Renewable Energy System (EARES) aims at introducing automation in the process of energy audit and implementation of distributed generation of energy. EARES helps in establishing a better understanding of electrical energy usage tendencies and also create awareness about conservation of electrical energy.
Keywords- Energy Audit, Renewable Energy and Energy Conservation.

1. INTRODUCTION

According to the latest statistics India faces a base load energy deficit of 0.5% and peak shortage of 0.9% respectively for 2019-20 financial year. This imbalance between the demand (1.271 trillion units) and supply (1.275 trillion units) ratio is challenging. This motivated us to conserve the usage of electrical energy and add to the electricity generation by installing distributed generation systems. Electrical energy audit as mentioned before is a cumbersome process.

Following steps are involved in a manual generic electrical energy audit^[1]:

Clearly the process of electrical energy audit is an exacting one. Hence introduction of automation could help in reducing a lot of man hours.

An online system ensures the product reaches the maximum number of potential users. It also eliminates the cryptic

- Collect the load details for electrical equipment with high electricity consumption.
- Calculate the usage load after designing the single line diagram by feeding the values in ETAP^[A].
- Plot real time load curve by using the energy meter and measuring Kw/HR^[B] for 20 days.
- Calculate the connected load with respect to single line diagram.
- Plot a graph between years and tariff.
- Identify and calculate the unnecessary usage and power wastage in the layout with graph.
- Draw the power utilization chart with respect to the layout.
- Calculate the daily utilization of power of all the equipment and convert them to a pie chart.
- Collect data of all the major equipment and find out the performance.
- Interaction about the energy usage with the concerned party along with suitable survey.
- Identify energy conservation opportunity, if any.
- Provide a report on suitable recommendation for existing appliances and suggestions for implementation of energy conservative measures.
- Plot Cost Benefit Analysis with Breakeven Chart.
- Check the earthing resistance and report on the status of earthing in that concern.
- Provide Awareness on Electrical Safety.
- Submission of Suitable Energy Audit Report with Breakeven Analysis and taking the benefits of renewable energy and simulating it in the ETAP software and provide the best recommendation to reduce electrical consumption by renewable sources.

The jargons mentioned above enable a layman to conduct an electrical energy audit and obtain the appropriate recommendations to conserve electrical energy.

The first step towards conserving electricity is conducting an electrical energy consumption

B. The Institution needs to specify the facilities, materials for learning beyond syllabus, Webinars, Podcast, MOOCs etc. and demonstrate its effective utilization

Detailed list of Self – Learning facilities:

Library:


Digital library:

- 18 Computers with i3 processors, 4GB RAM configured with Windows-8 Operating system.
- Systems are enabled with Internet facility up to 50 Mbps speed.

NDL CERTIFICATE



DELNET CERTIFICATE



DELNET
Developing Library Network
New Delhi
www.delnet.in

Certificate of Membership

This certifies that

***K. S. Institute of Technology
Raghuvanahalli, Bengaluru***


is an Institutional Member of

DELNET – Developing Library Network

and is entitled to all benefits and privileges pertaining thereto.

Membership Number ***IM – 906*** has been renewed and next
renewal is due on June 21, 2021

[Faint circular stamp of K. S. Institute of Technology, Bengaluru]


Dr. Sangeeta Kaul
Director
DELNET, New Delhi

Date of Issue: March 23, 2021

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"Jnana Sangama" Belagavi – 590 018
Karnataka State, India.

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This is certifying that, K. S. Institute of Technology, Bengaluru is the member of VTU-Consortium and this institution is licensed to access the following e-Resources for the year 2020-21.

Sl. No.	e-Resources
1.	Elsevier -Science Direct e-Journals
2.	Springer Nature e-Journals
3.	Taylor and Francis e-Journals
4.	Emerald (Management) e-Journals.
5.	Net Analytiks (Sententia-tool)
6.	K-Nimbus (Digital Library Platform and Remote Access Solution)
7.	Turnitin (Similarity check tool)

Note: The Librarian of K. S. Institute of Technology, Bengaluru shall report the undersigned regarding any issues encountered in accessing the above e-Resources. If no issues are reported back, it will be deemed that there are no issues and the institution is accessing all the above resources without any interruptions. However, for further assistance with regard to accessing the databases, the representatives of the respective publishers shall be contacted through a mail with a copy to the coordinator, VTU Consortium.


Co- Ordinator


Registrar

Encouragement to e-shikshana and online courses:


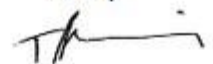
Institute has registered in various portals for providing the platform for the students and faculty to register for various Online courses and certifications through NPTEL, MOOC's,

etc to keep abreast of latest / state of art technological development. SWAYAM NPTEL Local Chapter established in our college.

SWAYAM NPTEL Registered Users: 10 and Enrolled Students: 200 (From January 2020 to April 2020).

Online Course Registered Users: 662 (From January 2020).

NPTEL CERTIFICATE

 NATIONAL PROGRAMME ON TECHNOLOGY ENHANCED LEARNING <small>A JOINT VENTURE BY INDIAN INSTITUTE OF TECHNOLOGY & INDIAN INSTITUTE OF SCIENCE</small> NPTEL	
2019-10-24	
To The Principal K.S. INSTITUTE OF TECHNOLOGY K.S. Institute of Technology, No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109	
Dear Sir/Madam,	
Sub: Establishing SWAYAM NPTEL Local Chapter in your college	
Greetings from the NPTEL office.	
This is to acknowledge the receipt of your letter accepting to host SWAYAM NPTEL Local Chapter in your institution.	
The Single Point of Contact (SPOC) nominated from your college is	
Name of SPOC: DR. BHARATHI V Designation: CHIEF LIBRARIAN Department: CENTRAL LIBRARY Contact No(s): 9880930537 E-mail id: spoc@ksit.edu.in	
We wish to inform you that all future correspondence related to NPTEL contents and online courses will be made to the afore-mentioned SPOC. He/she will be routinely updated with all the latest NPTEL initiatives which then may be circulated among the students.	
We are also happy to share that a dedicated SWAYAM NPTEL Local Chapter web page is being created and your institution will have a separate page on it (http://npTEL.ac.in/LocalChapter).	
Thanking you.	
Sincerely  Prof. Andrew Thangaraj NPTEL Coordinator IIT MADRAS	

Professional bodies /other associations:

Every student is encouraged to be part of at least one professional body among IEEE, CSI, SAE, IETE, IEI and ISTE. Under these professional bodies, Many events like Conferences, workshops, Seminars and Guest Lectures are conducted throughout the year for students.

Club Activities

Garut Aerobotic Club encourages students to explore technicalities of both Aero-modeling and Robotics. Several events were organized to facilitate self-learning. As a result, **GARUT** team comprising of 3 members took part in prestigious “**National Level Boeing Aero-Modeling Competition- 2019**” held at **IIT**, Kanpur.

Telecom Engineers Forum encourages students to take part in various technical events to enhance their skill set. The forum also facilitates students to carry out their mini projects.

The **Firefox Club** well known as **Equinox** started on 23rd of September 2016. The Equinox encourages the technical enthusiasts, who strive to make an impact on the student life and the society.

Emanation Club gives a platform for students to showcase their hidden talents, develop the ability to work in a team, attain leadership & communication skills and also acquire logical/analytical skills. The club identifies and facilitates students, who have excelled in academics.

Events conducted details for the Academic Year 2020-21

Sl. No.	Type of the event (FDP/ workshop / seminar/ lecture etc.)	Date	Organized under professional societies/ Chapters	Title of event/ talk	Resource Person and Details	No. of participants
1	Inter-collegiate Technical Event	19-12-2020	SAE-INDIA	TECHNOSTAV	Dr. Gopalkrishna K	70
2	Workshop	10-08-2020	ME & SAE	The DecaTrait – Approach to Success	Dr. P R Mukund	143
3	Competition	9/04/2021 to 13/04/2021	SAE	Mega ATV Championship	-	25
4	In plant Training	30/08/2021 To	SAE	Design and Development of ATV	-	40

		16/08/2021				
5	Inter-collegiate Technical Event	19-12-2020	SAE-INDIA	TECHNOSTAV	Mr. Seshnath B	20

Events conducted details for the Academic Year 2019-2020

Sl. No.	Type of the event (FDP/ workshop/ seminar/ lecture etc.)	Date	Organized under professional societies/ Chapters	Title of event/ talk	Resource Person and Details	No. of participants
1	Lecture	13/08/2019 To 17/08/2019	ME & SAE	Technical Training Program	, Dr. K Rama Narasimha, Dr. B S Ajaykumar, Dr. P N Jyothi	190
2	Lecture	19/09/2019	IIF	Technical talk on Advances in Foundry Technology	Dr. P Raghothama Rao	75
3	Lecture	18/10/2019	IIF	Technical Talk on Innovation, motivation and Entrepreneurship in Foundry Industries	Dr.K Shamsundar	75
4	Workshop	31/10/2019	ME & SAE	Electric motor development	Mr. Piyush Verma	25
5	Competition	25/03/2020 To	SAE	MEGA ATV CHAPIONSHIP 2019		20

		29/03/2020				
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Events conducted details for the Academic Year 2018-2019

Sl. No.	Type of the event (FDP/ workshop / seminar/ lecture etc.)	Date	Organized under professional societies/ Chapters	Title of the event/ talk	Resource Person and Details	No. of participants
1	Workshop	01/04/2019	ME	ROBOTICS	Mr. Malav Thacker	75
2	Workshop	04/04/2019	ME & SAE	Training on Ansys	Mr. Nagabhushan	70
3	Workshop	22/02/2019	ME & SAE	Microsoft Technology Associate	Mr. Yradav K Mahendra	80
4	Seminar	31/10/2018	ME & SAE	Scope for mechanical engineers in the field of HVAC and Plumbing	Mr. Muneer & MrAsif	75
5	Seminar	4/10/2018	ME & SAE	HVAC Designing	Mr. Muneer & MrAsif	60
6	Competition	6/03/2019 To 11/03/2019	SAE	BAJA SAE INDIA 2019		25
7	Competition	14/02/2019 To 17/02/2019	SAE	Prodigy racers		25

Seminars, Workshops, Symposiums and Project Exhibitions:


- Every department conducts Project Exhibition annually.

- Experts from Industry and Academia are called to evaluate our student's projects. Best 3 projects of each department are awarded with certificates.
- Best 3 projects of each department are awarded with certificates.
- Every department organizes Seminars & Workshops to facilitate students to upgrade their knowledge.

Industrial Visits:

It's a practice followed across the departments to organize at least one Industrial visit per semester.

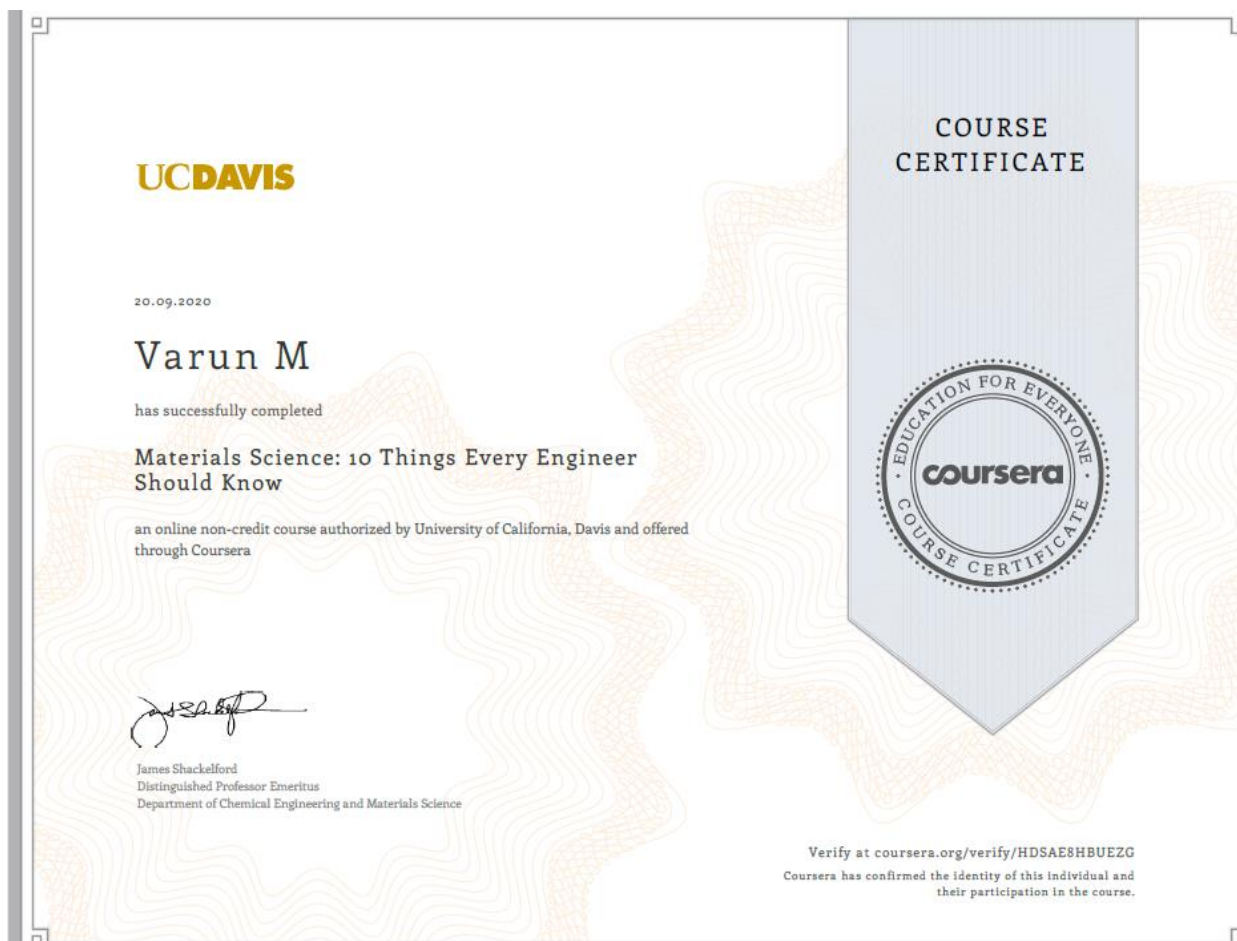
Online Course Details:

 K.S. INSTITUTE OF TECHNOLOGY, BENGALURU- 560 109 DEPARTMENT : MECHANICAL ENGINEERING ONLINE COURSES-MOOC/COURSERA/UDEMY/NPTEL ETC.. CERTIFICATIONS COMPLETED BY STUDENTS						
Sl. No.	YEAR	Name	USN	Details of Certification	Duration/Date	Platform
1	2020-21	Satwik Shivaram Bhat	1KS17ME067	Materials Science: 10 Things Every Engineer Should Know	17/09/2020	COURSERA
2	2020-21	Satwik Shivaram Bhat	1KS17ME067	Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360	1/8/2020	COURSERA
3	2020-21	Yashas G V	1KS17ME097	eCARS2x:Electric CarsTechnology	–	DELFTX
4	2020-21	Yashas G V	1KS17ME097	Autodesk CAD/CAM/CAE for Mechanical Engineerin	4/2/2021	COURSERA
5	2020-21	Yashas G V	1KS17ME097	Google IT Automation with Python	31/08/ 2020	COURSERA
6	2020-21	Mr. Rahul BN	1KS18ME052	Master In Pressure Vessels Heads	5/9/2020	LETSFABB
7	2020-21	Mr . Syed A li FaiZan KhadrI	1KS18ME075	Master In Pressure Vessels Heads	5/9/2020	LETSFABB
8	2020-21	Nithin.L	1KS17ME046	CATIA V5	28/12/2020	Karnataka german training institute
9	2020-21	ashish vilas jadhav	1KS18ME009	AI For Everyone	1/08/ 2020	COURSERA
10	2020-21	ashish vilas jadhav	1KS18ME009	Introduction to Virtual Reality	1/8/2020	COURSERA
11	2020-21	ashish vilas jadhav	1KS18ME009	Introduction to Self-Driving Cars	31/07/2020	COURSERA
12	2020-21	ashish vilas jadhav	1KS18ME009	Programming for Everybody (Getting Started with Python	24/07/2020	COURSERA

13	2020-21	vasunidhi s	1KS17ME092	Intro to Digital Manufacturing with Autodesk Fusion 360	7/10/2020	COURSERA
14	2020-21	Ravi.K.V	1KS17ME062	Materials Science: 10 Things Every Engineer Should Know	22/03/ 2021	COURSERA
15	2020-21	VASUNIDHI S	1KS17ME092	Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360	21/06/2021	COURSERA
16	2020-21	VASUNIDHI S	1KS17ME092	Code Yourself! An Introduction to Programming	8/8/2020	COURSERA
17	2020-21	Shashankh M G	1KS17ME074	Python Data Structures	13/08/2020	COURSERA
18	2020-21	Manoj.H.S	1KS17ME039	Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360	13/08/2020	COURSERA
19	2020-21	Sujay Aditya	1KS19ME033	Design thinking and UX/UI design	24/06/2021	QUICKSTART
20	2020-21	Vinay.Y	1KS18ME438	Programming for Everybody (Getting Started with Python)	12/05/ 2021	COURSERA
21	2020-21	Shashankh M G	1KS17ME074	Programming for Everybody (Getting Started with Python)	8/9/2020	COURSERA
22	2020-21	Ashish Vilas Jadhav	1KS18ME009	Finite Element method	1/7/2020	VCET
23	2020-21	Rahul.B.N	1KS18ME052	Pressure Vessel Fabrication	10/9/2020	UDEMY
24	2020-21	Rahul.B.N	1KS18ME052	MSOFFICE	10/10/2020	UDEMY
25	2020-21	Anupama Venkatesh,	1KS18ME007	AutoCad	26/05/2021	INTERSHALA TRAININGS
26	2020-21	Kushal Rao R	1KS17ME038	Introduction to Programming with MATLAB	8/10/2020	COURSERA
27	2020-21	Kushal Rao R	1KS17ME038	Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360	7/12/2020	COURSERA

28	2020-21	Kushal Rao R	1KS17ME038	Electric motor design and development	27 /08/ 2020	internship
29	2020-21	Varun M	1KS18ME079	Digital Thread: Components	10/8/2020	COURSERA
30	2020-21	Varun M	1KS18ME079	Digital Manufacturing & Design	28/07/2020	COURSERA
31	2020-21	Varun M	1KS18ME079	Digital Thread: Implementation	24/08/2020	COURSERA
32	2020-21	Varun M	1KS18ME079	Advanced Manufacturing Process Analysis	30/08/2020	COURSERA
33	2020-21	Varun M	1KS18ME079	Materials Science: 10 Things Every Engineer Should Know	20/09/2020	COURSERA
34	2020-21	Prithvi B	1KS17ME052	Advanced Styling with Responsive Design	9/10/2020	COURSERA
35	2020-21	Prithvi B	1KS17ME052	Cameras, Exposure, and Photography	21/07/2020	COURSERA
36	2020-21	Prithvi B	1KS17ME052	Introduction to HTML5	3/8/2020	COURSERA
37	2020-21	Prithvi B	1KS17ME052	Introduction to CSS3	8/8/2020	COURSERA
38	2020-21	Prithvi B	1KS17ME052	Interactivity with JavaScript	8/12/2020	COURSERA
39	2020-21	Prithvi B	1KS17ME052	UX Design Fundamentals	9/7/2020	COURSERA
40	2020-21	Prithvi B	1KS17ME052	Visual Elements of User Interface Design	8/14/2020	COURSERA
41	2020-21	R.Manoj Reddy	1KS19ME025	CORE JAVA AND ADVANCED JAVA	24/08/2021	JUST TRAIN ME


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



Online Certificate Sample

Utilization and its effectiveness:

The overall aim of this review is to evaluate the effectiveness of self-directed learning on the professional development of students.

- Students have expressed satisfaction in the self learning content that is encouraged.
- Students have also expressed that self learning has helped them in discovering their aptitude and liking for specific areas in their domain. This has helped them to select their electives.
- Self learning enable the students to research for material that is available for referencing and also comparison and emulate the best reference found.
- Self learning promotes self development and gives the student the confidence to find any material that is required for any purpose from the open domain of resources available.

- Self learning promotes self confidence and encourages the students to appear for competitive examinations and perform better in recruitment drives.
- Self learning has enabled students to participate in National level events like Hackathon, Boeing Aero-Modeling Competition, Project Exhibitions etc.
- Students are able to improve their academic grades.

9.5 Career Guidance, Training, Placement

Total Marks: 10

Institute Marks: 10

A. Availability of Career Guidance Facilities

KSIT offers the Integrated and Sustained Skill Development across 8 semesters for the Engineering students.

The objectives of the Integrated and Sustained Skill Development across 8 semesters for the Engineering students of KSIT are to ensure the all-round development of the students to make them industry-ready during the course of their B.E. program.

- To make students industry ready.
- To help the recruiting partners hire our students and start their careers on a sound footing.
- To ensure that each student receives intensive training in each year based on the inputs from the recruiting companies and training partners of the institution.

CONFERENCE HALL



GROUP DISCUSSION ROOM



INTERVIEW ROOM



ONLINE LAB



SEMINAR HALL



Training Details



K S INSTITUTE OF TECHNOLOGY BANGALORE

DEPARTMENT OF TRAINING AND PLACEMENT

LIST OF MODULES FOR PERSONALITY DEVELOPMENT

TRAINING PROGRAM-LIFE SKILL @ KSIT

Academic Year : 2020-2021

Semester: 5th & 7th

Branch: ECE, CSE, MECH & TCE

S.No	Sem	Name of Modules		No of Hours	No of Days
1	5th	Personality development Modules with complete description	1. Youth development leadership skills	12 Hours	5 Days
			2. Problem Solving		
			3. Creative thinking		
			4. Decision Making		
			5. Negotiation skills		
		Verbal aptitude modules with complete description	1. Sentence Correction	6 Hours	
			2. One word Substitutes		
			3. Vocabulary Building		
		Quantitative Aptitude Modules with complete description	1. Time and Work	6 Hours	
			2. Pipes and Cisterns		
			3. Mixtures and Alligations		
		Logical reasoning modules with complete description	1. Coding and Decoding	6 Hours	
			2. Blood Relations		
			Total		30 Days
S.No	Sem	Name of Modules		No of Hours	No of Days
4	7th	Company Specific modules with complete description	1. Group Discussion	8 Hours	5 Days
			2. Interview Skills		
			3. Email writing		
			4. Resume writing		
		Logical reasoning modules with complete description	1. Statements and conclusions	8 Hours	
			2. Analytical Puzzles		
			3. Data Sufficiency		
			4. Cubes		
			5. Venn diagrams		
		Quantitative aptitude modules with complete description	1. Simple Interest and Compound Interest	7 Hours	
			2. Time, Speed and Distance		
			3. HCF and LCM		
			4. Menstruation		
			5. Number Systems		

		Verbal aptitude modules with complete description	1. Reading Comprehension	7 Hours	
			2. Closet Test		
			3. Synonyms and Antonyms		
			4. Active Voice Passive Voice		
5	7th	Company Specific Training	Infosys	18 Hours	3 Days
			TCS	18 Hours	3 Days
			NTT DATA	12 Hours	2 Days
			Total	78 Hours	13 Days


Head of the Department
Placement Division
K.S.I.T., Bangalore

Placed Details of Academic Year 2020-21

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>KAMMAVARI SANGHAM (R) - 1952 K S GROUP OF INSTITUTIONS K. S. INSTITUTE OF TECHNOLOGY #14, Raghuvanahalli, Kanakapura Main Road, Bangalore - 560062 Tel : 080 - 28435722 / 24 Web : www.ksit.ac.in</p> </div> <div style="text-align: center;">  </div> </div>							
PLACED LIST OF 2021 BATCH							
S.No	NO OF ELIGIBLE STUDENTS	81	89	26	71	267	Salary Package
	NAME OF COMPANIES	CS	EC	ET	MECH	TOTAL	
1	INFOSYS	11	12	3	5	31	3.60 LPA
2	NTT DATA	22	11	NA	NA	33	3.25 LPA
3	TCS Ninja	14	11	4	1	30	3.96 LPA
4	ACCENTURE	19	7	2	1	29	4.50 LPA
5	AVAALI SOLUTION	8	6	4	NA	18	3.00 LPA
6	KPMG	11	6	NA	NA	17	5.00 LPA
7	GARUDA AEROSPACE	NA	3	1	9	13	1.80 LPA
8	JARO EDUCATION	2	6	2	2	12	6.60 LPA
9	CAPGEMINI	5	1	3	NA	9	3.80 LPA
10	FIS	6	NA	NA	NA	6	5.00 LPA
11	WIPRO	5	1	0	NA	6	3.50 LPA
12	MIND TREE	4	1	1	NA	6	4.00 LPA
13	QUINNOX	4	NA	NA	NA	4	3.50 LPA
14	SUBSCRIBEIT	4	0	0	NA	4	4.00 LPA
15	VERZEO	1	3	NA	NA	4	3.00 LPA
16	TECHNOLOGICS	1	1	0	1	3	2.14 LPA
17	DEVTOOLS	1	0	0	1	2	3.00 LPA
18	UNIPHORE	2	0	0	NA	2	4.50 LPA
19	INTEGRA CONNECT	2	0	NA	NA	2	7.50 LPA
20	INTELLIPAAT	0	1	0	0	2	3.84 LPA
21	HASHEDIN TECHNOLOGIES	1	0	0	NA	1	8.00 LPA
22	CRMIT SOLUTIONS	1	NA	NA	NA	1	5.00 LPA
23	LIDO	2	0	0	0	2	7.00 LPA
24	EMBTech INNOVA	NA	0	1	NA	1	3.00 LPA
25	PEOL TECHNOLOGIES	1	NA	NA	NA	1	3.50 LPA
26	APISERO INC	1	0	0	NA	1	5.10 LPA
27	VIRTUSA	1	NA	NA	NA	1	4.00 LPA
28	IBM	1	0	0	NA	1	7.25 LPA
29	DESK NINE	1	NA	NA	NA	1	3.00 LPA
30	RUDDER ANALYTICS	0	0	1	NA	1	4.00 LPA

31	UFABER	0	1	0	NA	1	5.00 LPA
32	MOOLYA SOFTWARE TESTING PVT LTD	0	1	NA	NA	1	3.00 LPA
33	IBM	1	0	0	NA	1	4.25 LPA
34	MICROCHIP	1	NA	NA	NA	1	6.00 LPA
35	TCS Digital	0	0	0	0	0	7.00 LPA
36	SAP LABS	0	NA	NA	NA	0	3.00 LPA
37	JUSPAY	0	0	0	0	0	8.00 LPA
38	KALGUDI	4 S	0	0	0	4 S	5.00 LPA
39	SONATA SOFTWARE	3	4	2	NA	9	3.50 LPA
40	PLANET SPARK	10 S	5 S	1 S	6 S	22 S	6.50 LPA
41	GOLDMAN SACHS	RA	RA	RA	RA	RA	
42	MAVENTIC	RA	RA	RA	RA	RA	4.50 LPA
43	MCAFFEE	RA	NA	NA	NA	NA	9.00 LPA
44	PUMA	RA	RA	RA	RA	RA	2.64 LPA
45	LEMNISK	RA	RA	RA	NA	RA	3.00 LPA
46	L & T TECHNOLOGY	RA	RA	RA	NA	RA	4.00 LPA
47	HIGH SPEAK SOFTWARE	RA	RA	RA	NA	RA	3.20 LPA
48	CODE YOUNG	NA	NA	NA	RA	RA	7.00 LPA
49	ANORA SEMI CONDUCTOR LAB	RA	RA	RA	NA	RA	5.50 LPA
50	EXCEL CRAFT	NA	NA	NA	RA	RA	3.00 LPA
51	IT WEB WORLD	NA	1	NA	RA	1	2.50 LPA
52	CERNER	2	NA	NA	NA	2	5.78 LPA
53	BRILLIO	3	NA	NA	NA	3	4.50 LPA
54	CELSTREAM	1	NA	NA	NA	1	4.00 LPA
55	DELL	2	NA	NA	NA	2	7.00 LPA
56	COGNIZANT	3	4	2	NA	9	4.00 LPA
57	GRASSROOTS	0	1	1	2	4	3.00 LPA
58	HUAWEI	1	0	0	0	1	3.50 LPA
GRAND TOTAL		148	82	27	22	280	

*Note: Placement is under progress

"S" - S is for Shortlisted Candidates

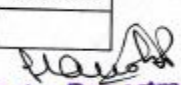
NA	Not Applicable
RA	Result Awaited
BOP	Based on Performance

Placed Details of Academic Year 2019-20





PLACED STUDENTS LIST OF 2020 BATCH

S.NO.	No of ELIGIBLE STUDENTS	62	54	24	51	191	Salary Package
	NAME OF COMPANIES	CS	EC	TC	MECH	TOTAL	
1	TCS NINJA	21	9	0	5	35	3.60 LPA
2	TCS Digital	1	0	0	0	1	7.00 LPA
3	HUDL	13	9	4	24	50	3.00 LPA
4	Infosys	21	11	4	8	44	3.60 LPA
5	Infosys (Tq Certification)	1	0	0	0	1	5.00 LPA
6	NTT DATA	11	15	NA	NA	26	3.25 LPA
7	Advent Global Solutions	0	2	4	1	7	2.80 LPA
8	[24]*7.ai	1	1	0	3	5	2.69 LPA
9	Cognizant	1	0	2	1	4	4.00 LPA
10	Youngman India	NA	NA	NA	4	4	2.64 LPA
11	QSPIDERS	0	1	3	NA	4	3.00 LPA To 4.00 LPA
12	ABC TECHNOLOGY	3	1	0	NA	4	3.00 LPA
13	DXC Technology	0	2	1	NA	3	3.14 LPA
14	Mphasis	2	0	NA	NA	2	3.25 LPA
15	Wipro	0	0	2	NA	2	3.5 LPA
16	MORLING GLOBAL	1	0	1	NA	2	2.70 LPA
17	All Blue Solutions	0	1	0	NA	1	4.00 LPA
18	ANORA LABS	NA	1	0	NA	1	3.85 LPA
19	CGI	0	0	1	NA	1	3.39 LPA
20	CLOUDTHING	1	0	NA	NA	1	3.75 LPA
21	Covalense Digital Solutions Private Limited	1	0	0	NA	1	3.00 LPA
22	DELHIVERY	1	0	0	NA	1	3.00 LPA
23	TATA ELXSI	0	1	0	NA	1	3.50 LPA
24	VERZEO	0	0	1	NA	1	3.00 LPA
25	JARO Education	0	0	0	1	1	12.00 LPA
26	M/S SMART BRAINS	0	0	1	NA	1	2.46 LPA
27	QUINNOX	1	0	NA	NA	1	3.00 LPA
28	SAP Labs	1	NA	NA	NA	1	3.00 LPA
GRAND TOTAL		81	54	24	47	206	


 Head of the Department
 Placement Division
 K.S.I.T., Bangalore

Placed Details of Academic Year 2018-19

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>K S IT</p> </div> <div style="text-align: center;"> <p>KAMMAVARI SANGHAM (R) - 1952 K S GROUP OF INSTITUTIONS</p> <p>K. S. INSTITUTE OF TECHNOLOGY</p> <p>#14, Raghuvanahalli, Kanakapura Main Road, Bangalore - 560062 Tel : 080 - 28435722 / 24 Web : www.ksit.ac.in</p> </div> <div style="text-align: center;">  <p>62</p> </div> </div>						
LIST OF STUDENTS PLACED IN THE ACADEMIC YEAR 2018-19						
SL NO	NAME OF COMPANIES	CS	EC	TC	MECH	TOTAL
1	SAP LABS	1	0	NA	NA	1
2	TCS	6	7	0	4	17
3	MU-SIGMA	4	0	0	1	5
4	INFOSYS	12	8	2	6	28
5	MPHASIS	0	0	1	NA	1
6	VTIGER	3	NA	NA	NA	3
7	ADVENT GLOBAL SOLUTIONS	3	0	0	0	3
8	Q-SPIDERS	1	2	0	0	3
9	L & T INFOTECH	8	6	2	NA	16
10	NTT DATA	4	14	NA	NA	18
11	WIPRO	1	4	3	RA	8
12	MIND TREE	1	0	0	0	1
13	6D TECHNOLOGY	0	1	0	0	1
14	DOT BALL	0	0	0	1	1
15	COGNIZANT	4	1	2	0	7
16	AGILE POINT	3	NA	NA	NA	3
17	ABC TECHNOLOGY	0	0	2	NA	2
18	ALL BLUE SOLUTIONS	2	1	1	NA	4
19	PATHFRONT	5	2	2	0	9
20	CAPGEMINI	0	0	1	NA	1
21	SYNTEL	1	NA	NA	NA	1
22	SHRIRAM	0	0	0	1	1
23	AMAZON	0	0	1	0	1
24	RAZORPAY	0	0	0	1	1
25	QUINNOX	1	0	0	0	1
26	TECH MAHINDRA	0	2	0	0	2
GRAND TOTAL		60	48	17	14	139


 Head of the Department
 Placement Division
 K.S.I.T., Bangalore

Offer letter



July 26, 2021

HRD/3T/21-22/1001727294

Mr. Gokul R
Candidate ID: 1001727294
Ff103, Mahalaxmi Melody
Mla Layout, Kalena Agrahara, Bg Road
Bangalore - 560076
Karnataka
India
Ph: (91) 78920 89843

Dear Gokul,

SUB: LETTER OF INTENT TO HIRE

Congratulations! Further to your application for Employment with Infosys Limited ('Company') and the subsequent selection process, we are delighted to communicate to you our intent to make you an offer for the position of Systems Engineer in Job Level 3 with the company. Your DoJ is November 8, 2021 and you will receive the Letter of Appointment with all the elaborates soon.

This letter of intent would be superseded by a formal employment contract. The employment contract will detail out the scope, terms and conditions of your employment with the company, break up of your salary, proposed location of posting, date of joining etc.

Please be advised that our offer to you will be conditional upon you having successfully completed your graduation / post-graduation qualification and having completed all course requirements and examinations required for the award of the educational qualification mentioned by you in your application for employment with the Company. You are required to submit all marks sheets and other relevant documents (if any), on the day you join the Company. Further, you should have been declared as passed by the relevant examination authority. Please note that the determination of the adequacy or authenticity of all or any of the proofs and any condoning delay in submission of the same will be at the Company's absolute and sole discretion.

Should you meet the conditions of employment, your Total Gross Salary includes a Performance Incentive and will be INR 360000 per annum. The complete breakdown of the compensation and increment will be provided in the Letter of Appointment.

This is a letter of intent only. It is not intended to be, and shall not constitute in any way a binding or legal agreement, or impose any legal obligation or duty on either you or the Company. Should you have any questions regarding the above, please do not hesitate to write to us at offer_update@infosys.com.

Welcome to Infosys Ltd. We are confident you will be able to make a significant contribution to the success of Infosys Limited. We wish you a long, rewarding and fulfilling career and look forward to working with you.

Yours sincerely,



RICHARD LOBO
EVP and Head Human Resources – Infosys Limited

24th September, 2019

To,
Mr. Pavan Kumar L,
 Tel No.9036283976

Dear Pavan,

This has reference to the interview and discussions you had with us. We are pleased to appoint you as "Graduate Trainee". You would be on probation for a period of one year. On successful completion of probation period your services would be confirmed and you would be re-designated as "Career Development Officer".

Find below your compensation details.

		(Amount in Rupees.)	
		Per Month	Per Annum
Basic Salary	:	21,500	2,58,000
House Rent Allowance	:	1,400	16,800
Additional HRA	:	3,000	36,000
Transport Allowance	:	1,600	19,200
Telephone Allowance	:	500	6,000
Daily Travel Reimbursement (Only for the days of field work @ Rs.150/-)	:	3,000	36,000
Performance Incentive (Payable based on the achievement of Monthly targets)	:	10,000	1,20,000
Performance cum Continuity Bonus (Annual) (Payable based on the achievement of targets for the year and continuity in the organization for at least 1 year)	:	2,000	24,000
Total Rs: Five Lakh Sixteen Thousand Only pa.	:	43,000	5,16,000

Regards,
Jaro Education

Sushant Maliya
General Manager – Human Resource

I agree to the above and attached terms & conditions _____ Dated _____

18-19

1K315ME038



Mu Sigma

Mu Sigma - Offer of Intent

Date: 8th Sep 2018

College: KJIT, Bangalore

Dear Krishna Moondal,

We, Mu Sigma Business Solutions Pvt. Ltd. are pleased to inform you of our intent to extend you an offer of employment for the post of **Trainee Decision Scientist**. Subject to the company's performance, your performance, your adherence to Mu Sigma employment contractual obligations and other relevant factors, your total compensation with Mu Sigma at the end of three jumps could be ₹2,100,000/- (inclusive of variable pay).

The above mentioned compensation will be governed by the rules of Income Tax Act of Govt. of India and shall be subject to all statutory deduction and contributions.

This offer stands withdrawn with due communication and employment will be terminated without notice if the offered candidate or employee has not completed the entire course i.e. has been unable to clear / pass every subject of the course successfully before joining.

Sincerely,

Deepa S. Mahesh

Deepa S Mahesh
Global Head Strategic Hiring
On behalf of Mu Sigma Business Solutions Pvt. Ltd.

B. Counseling for higher studies (GATE/GRE, GMAT, etc.)

The library have a separate rack in the reference section that contains the following books.

LIBRARY AND INFORMATION CENTRE			
BOOKS AVAILABLE TO PREPARE FOR HIGHER STUDIES			
SL No.	Acc. No	Title	Author and Publisher
1	19608	GATE Electronics and Communications Engineering 2020	Trishna Knowledge Systems
2	19607	Gate Mechanical Engineering 2020	Trishna Knowledge Systems
3	19281	Gate-2018 and ESE-2018 Preliminary Examination	Made Easy Publications
4	19263	Gate-2018 Instrumentation Engineering	Made Easy Publications
5	19262	Gate-2018 Computer Science and Information Technology	Made Easy Publications
6	19261	Gate-2018 Civil Engineering	Made Easy Publications
7	19260	Gate-2018 Mechanical Engineering	Made Easy Publications
8	19259	Gate-2018 Electrical Engineering	Made Easy Publications
9	19258	Gate-2018 Electronics Engineering	Made Easy Publications
10	18530	GATE: Electronics and Communication :Electromagnetics	Kanodia R.K Ashish Murolia
11	18529	GATE Electronics and Communication: Control Systems Volume-8	Kanodia R.K and Ashish Murolia
12	18528	GATE:Electronics and Communication : Analog Circuits Volume -5	Kanodia R.K And Ashish Murolia
13	18527	GATE Electronics and Communication Volume-3	Kanodia R.K and Ashish Murolia
14	18526	GATE Electronics and Communication Volume-2	Kanodia R.K and Ashish Murolia
15	18525	GATE Electronics and Communication : Signals and Systems Volume-7	Kanodia R.K and Ashish Murolia

16	18524	GATE Electronics and Communication Volume-1	Kanodia R. K Ashish Murolia
17	18523	GATE Electronics and Communication System Volume-9, 7th Ed	Kanodia R.K & Ashish Murolia
18	18522	Gate Mentor 2015 Electrical Engineering	Naveen Babu G and Sandeep Joshi
19	18521	Gate Mentor 2015	Sandeep Joshi
20	18520	Gate Mentor 2015 Civil Engineering	Anbu kumar S
21	18105	GATE: Electronics and Communication Engineering -2015	Gupta J.B
22	15935	Gate 2011: Electronics and Communication Engineering	G.K. Publishers
23	15934	Gate 2011: Electronics and Communication Engineering	G.K. Publishers
24	15933	Gate 2011: Mechanical Engineering	G.K. Publishers
25	15932	Gate 2011: Mechanical Engineering	G.K. Publishers
26	15931	Gate 2011: Mechanical Engineering	G.K. Publishers
27	15930	Gate 2011: Mechanical Engineering	G.K. Publishers
28	15929	Gate 2011: Mechanical Engineering	G.K. Publishers
29	15911	Gate 2011: Computer Science and Information Science	G.K. Publishers
30	15910	Gate 2011: Computer Science and Information Science	G.K. Publishers
31	15909	Gate 2011: Computer Science and Information Science	G.K. Publishers
32	15595	Gate 2011: Computer Science and Information Science	G.K. Publishers
33	15594	Gate 2011: Electronics and Communication Engineering	G.K. Publishers
34	15593	Gate 2011: Mechanical Engineering	G.K. Publishers
35	13188	Gate2007 Question Papers	Indian Institute of Science, Bangalore

36	11374	Gate 2006 Question Paper	Indian Institute of Science, Bangalore
37	11045	Gate 2005 Question Papers	Indian Institute of Science, Bangalore
38	8978	The Best Test Preparation for GATE for Computer Science - 2005	Mittal, Rakesh Ed By
39	8975	The Best Test Preparation for GATE for Electronics & Communication Engineering -2005	Mittal, Rakesh Ed By
40	7722	GATE 2004	Indian Institute of Science, Bangalore
41	6372	Gate Question Papers 2003	Indian Institute of Science, Bangalore
42	6371	Gate Question Papers 2003	Indian Institute of Science, Bangalore
43	5654	Electronics & Communications Engineering GATE 2000 set -2	Brilliant Tutorials
44	5653	Electronics & Communications Engineering GATE 2000 set -2	Brilliant Tutorials
45	5652	Electronics & Communication Engineering GATE 2000 Set- 1	Brilliant Tutorials
46	5651	Electronics & Communication Engineering GATE 2000 Set- 1	Brilliant Tutorials
47	1358	How to Prepare for TOFEL Test -2000	Sharpe, Pamela J.
48	9518	Delta Skey to the TOFEL Test-2005	Gallagher, Nancy
49	4922	Barrons How to Prepare for the Graduate Management Admission-2002	Jaffe, Eugene D., Galgotia Publishing
50	7768	Barrons How to Prepare for the Graduate Management Admission-2004	Jaffe, Eugene D., Galgotia Publishing
51	7769	Barrons How to Prepare for the Graduate Management Admission-2004	Jaffe, Eugene D., Galgotia Publishing
52	7770	Barrons How to Prepare for the Graduate Management Admission-2004	Jaffe, Eugene D., Galgotia Publishing
53	7765	Barrons How to Prepare for the Graduate Record Examination-2004	Green, Sharon Weiner, Galgotia Publishing

54	7766	Barrons How to Prepare for the Graduate Record Examination-2004	Green, Sharon Weiner, Galgotia Publishing
55	7767	Barrons How to Prepare for the Graduate Record Examination-2004	Green, Sharon Weiner, Galgotia Publishing

The placement cell organizes seminars on higher studies such as GRE/GMAT/CAT/GATE.TOFEL/IELTS etc.

Awareness on Higher Education Report

K.S. Institute of Technology Bangalore

(Approved by AICTE & Affiliated to VTU)

No. 14 Raghuvanahalli, Kanakapura Main Road, Bangalore-109



DEPARTMENT OF TRAINING AND PLACEMENT

REPORT OF AWARENESS SESSION ON HIGHER EDUCATION

Semester : 7th & 5th (ODD SEMESTER)
Date : 31/10/2019 (1 Day)
Branch : CS/ EC/ TC/ MECH
Topic : Info Session on Higher Education in USA

Yashna Education USA Trust & in Association with BITES



Education USA is the U.S. Department of State's official global network promoting U.S. higher education and has over 450 centers in more than 170 countries. In India, they have a presence across 7 cities. The Education USA center for Bangalore (covering Karnataka as a state) operates out of Yashna Trust. Supported by the U.S. government, Yashna Trust – Education USA offers credible, unbiased and accurate information about the U.S. higher education.

On Thursday 31 Oct, KSIT invited representatives from Yashna Trust – Education USA Bangalore in association with BYTES to deliver an information session for the benefit of interested students from the institute and the neighboring colleges.

The session covered a detailed step-by-step structured model to help them understand the various aspects of Graduate studies in the U.S., including

- U.S. Higher Education System: Applying to accredited institutions
- Graduate Application Package
- Standardized Tests
- Admissions Process and timelines
- Financial assistance for international students
- I-20 and student visa application

Guest Delivered the Session-

Arijita Sanyal, Center Manager, and Anita Bose Natarajan, Adviser represented Education USA and facilitated the session. Dr Jain, responsible for the placement section at KSIT, introduced the session.

This awareness building session was open for all interested students and approximately 104 students were in attendance. The two-hour session was very well received by students and ended with Q&A. With thousands of accredited U.S.

colleges and universities in the United States, the session signposted to free resources and reference materials that can help them find the institute that is right for them.

Special Thanks-

Special thanks to Dr. K.N.B Murthy, Chairman, Bytes for providing the connect and platform to host the event.

Thanks to host-

The team has also met with Prof. KVA Balaji - CEO of KSGL, to thank him and his team for hosting them at the institute and to explore possibilities to offer more specialized sessions for students on components such as SOP writing and Essays, resume writing and completing the university application with KSIT students. This shall benefit students to explore their potential to the fullest and help them give a direction while applying to the U.S. universities of their choice.

Outcome of the Session-

Discussed with Prof Balaji outlining the next steps and ways in which we can explore future collaborations with KSIT.

Feedback from the Students-

Students got exposed to various opportunities available in US to pursue their Higher Education.

colleges and universities in the United States, the session signposted to free resources and reference materials that can help them find the institute that is right for them.

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Outcome of the Session-

Discussed with Prof Balaji outlining the next steps and ways in which we can explore future collaborations with KSIT.

Feedback from the Students-

Students got exposed to various opportunities available in US to peruse their Higher Education.



Welcome speech by Dr. Banashree Jain



Bouquet to Guest by Mr. K.V. Manjunath



Welcome speech by Dr. Ranjana Jain



Students listening to the talk



Students and Faculty listening to the talk



Resource Person Speech

- Attendance and Punctuality: Late coming during the Placement Process shall not be tolerated.
- Students should maintain discipline and show ethical & decent behavior in every action they make during the placement process. Any student found violating the protocol set by the company or defaming the Institute's name would be debarred from the placement for the rest of the academic year and it could lead to strict disciplinary action by the institute.
- Students found cheating or misbehaving in the selection process (PPT/Test/GD/Interview) will be disqualified from the placements for the rest of the academic year.
- Students from streams like Mechanical, TCE & ECE will be allowed to sit for campus drive of core companies even if they have offers from Software/IT Companies.
- If a student has been recruited by a company, the concerned student will not be allowed to appear for any other interview for placement arranged by the college.

However, placed students may be considered to sit for other drives on a visit of Companies offering higher package (more than 5 lakh) or a core stream company.

- Offers received from companies must be collected from T&P Department/Company as per timings in the notice. The responsibility of going through the offer letter and taking further actions such as signing and sending it back to the Company lies entirely on the students. In case offers received directly by the students from the company, the same must be intimated to the Placement office.

C. Pre - placement Training

Apart from the skills development training discussed in section A, the institutes also arrange company specific training using the training agencies. The resource persons for this training will be working professionals who will be better placed to give inputs on what a company looks for in the incumbents, the culture, ethics & other philosophies of modern organizations. This training helps the students to be more comfortable when they appear for any section process

Company Specific Training of Academic Year 2020 – 2021

S.No	Details of Company Specific Training	Dates	Days & Durations	Vendor
1	Infosys company specific training	24, 25 & 26/09/2020	3 & 18	SKILL FACTORY
2	TCS company specific training	19,20 & 21/11/2020	3 & 18	SKILL FACTORY
3	NTT DATA company specific training	12 & 13/12/2020	2 & 12	SKILL FACTORY
4	TCS company specific training	7,8 & 9/09/2021	3 & 18	SKILL FACTORY
5	Infosys company specific training	28, 29 & 30/09/2021	3 & 18	SKILL FACTORY
6	NTT DATA company specific training	07 & 08/10/2021	2 & 12	SKILL FACTORY

Company Specific Training of Academic Year 2019 – 2020

S.No	Details of Company Specific Training	Dates	Days & Durations	Vendor
1	TCS company specific training	27, 28 & 29/07/2019	3 & 18	Seventh Sense
2	TCS company specific training (Special)	13,14 & 15/08/2019	3 & 18	Seventh Sense
3	Infosys company specific training	7,8 & 9/09/2019	3 & 18	Seventh Sense

Company Specific Training of Academic Year 2018 – 2019

S.No	Details of Company Specific Training	Dates	Days & Durations	Vendor
1	Infosys company specific training	6,7 & 8/09/2018	3 & 18	Seventh Sense
2	TCS company specific training	28, 29/08/2018	2 & 12	Seventh Sense
3	Mu - sigma company specific training	30, 31/08/2018	2 & 12	Seventh Sense
4	NTT Data VRD (Virtual Recruitment Drive)	25/09/2018	1 & 6	Seventh Sense



TRAINING REPORT

OF

**TCS SPECIFIC TRAINING
FOR**

7th Semester Engineering students

OF

**Kammavari Sangha Institute of Technology
BENGALURU**

CONDUCTED BY

SEVENTH SENSE TALENT SOLUTIONS,

BENGALURU

WWW.SEVENTHSENSETALENT.COM
WWW.SEVENTHSENSETEST.COM
WWW.FACEBOOK.COM/SEVENTHSENSETALENT
Email: info@seventhsensetalent.com

Dear Respected Dr. Ranjana Jain Madam,

At the outset, warm greetings from me and the entire team at Seventh Sense Talent Solutions. The details of the TCS Specific training, we have conducted for **7th Semester Engineering students of Kammavari Sangha Institute of Technology, Bengaluru** are furnished in this document.

DATES FOR THE PROGRAM:

27th, 28th and 29th of July for the year 2019.

TOPICS COVERED DURING THE TRAINING PROGRAM:

Day	Topics covered	Trainers' names
27/07/2019 + 28/07/2019 + 29/07/2019	C Programming + Coding	Krishna Bhal
	Ratios and Proportions + Percentages + Profit and Loss + Averages + Numbers + Mixtures and Alligations + Geometry	Logeshwaran + Bhargavi
	Probability + Permutation and Combinations + Time and Work + Time, Speed and Distances + Functions + Algebra	Rohit Bushan + Rohit Bhat

PURPOSE OF THE TRAINING PROGRAM:

- Our Training program would assist the students-keeping their placements in mind, by crafting a captivating interpersonal skill, along with strong responses to both behavioural and technical interview questions.
- Fine tuning of the student's attitude to learning, motives, values and deal with different situations responsibly and diligently, also makes them a good predictor of academic success.
- This training program helps them leverage their most marketable-and transferable-skills to new career paths and types of work.
- Our training would help students to set inspiring but realistic goals in their professional life.

PICTURES CAPTURED DURING THE TRAINING SESSIONS





Technical Training Program (IN HOUSE EXPERT) - KSIT has focused an initiative to tap potential students at the 3rd & 4th year level and groom them to the best possible opportunities in Corporate, Government or Higher Education purposes. The following interventions are provided for the selected students.

- Conduct problem solving and troubleshooting sessions by highly accomplished people in industry/institutions.
- Conduct a technical training program on various technologies by Key Resource Person (KRP).

D. Placement process and support

Placement Policy, Rules and Regulation

Eligibility & Registration

- Final year students who are passing out from the Institute by end of this academic year 2018-19 and are seeking employment should register for campus placements with their respective departments. Placement Registration is for ONE ACADEMIC YEAR ONLY.
- Registration of students will be done during the month of August & September only. Campus recruitment is meant for final year students from B Tech, M.Tech. (And passed out students whenever an opportunity comes through).
- Students are advised to read the Announcements made through notices put up on Notice boards, go through the company website and must inform T & P Department if not interested to appear for the same.
- Students shall prepare their Resume under the supervision of the faculty /Trainer by the Institute, Highlighting their achievements, Summer Projects and anything beyond the curriculum which enhances the employability.

Pre-Placements Talks

- Notices of the Pre-Placement Talks (PPT) by the respective company will be published on the Placement Notice Board. Students should occupy the venue 15-minutes before the scheduled start of the PPT by the Company.
- Students registered must attend the Pre-Placement Talks (PPT) without fail.
- Attendance will be taken and only those students who have attended PPT will be allowed to sit for the rest of recruitment process of the said company.
- Students must clarify queries/doubts if any related to package, job profile, place of work, bond details etc with the HR officials of the Company during Pre-Placement Talks (PPT).

Placement Process

- It is the responsibility of the student to check Announcement/Notices/updated information/shortlisted names etc. displayed on the notice boards of Placement Office Department Notice Boards. Students are expected to be on time as per the announcements.
- Failure to read the notice board / emails will not be accepted as an excuse for not participating.
- Students are not meeting the eligibility criteria mandatorily asked by the company, would not be allowed to sit for the same.
- Students are advised to be dressed in Formals for every Recruitment Drive and should must carry a folder comprising of :
 - Multiple copies of Resume.
 - Passport size colored Photographs.
 - Photocopy of the Certificates (10 , 12 , Graduation Mark sheets and certificates etc).
 - College ID card.
 - Govt ID & Address Proof (viz: Driving License, Passport, Pan card, Aadhar card, Voter ID etc)
- Attendance and Punctuality:
- Late coming during the Placement Process shall not be tolerated.

DISCIPLINE:

- Students should maintain discipline and show ethical & decent behavior in every action they make during the placement process. Any student found violating the protocol set by the company or defaming the Institute's name would be debarred from the placement for the rest of the academic year and it could lead to strict disciplinary action by the institute.
- Students found cheating or misbehaving in the selection process (PPT/Test/GD/Interview) will be disqualified from the placements for the rest of the academic year.

Job Offers:

- Each student is eligible for Only one Job offer*
- If a student receives more than one offer owing to delays in the announcements of results by the companies, the student is bound to accept the job offer whose results are declared earlier.
- If the results are declared on the same day, the student may choose from the offers in hand and inform the placement office of his choice, within 24 hours of announcement of results.

- Students from streams like Mechanical, CSE, TCE& ECE will be allowed to sit for campus drive of core companies even if they have offers from Software/IT Companies.
- Every student who is selected by a company is out of placement thereafter i.e. deregistered from the placement office.
- If a student has been recruited by a company, the concerned student will not be allowed to appear for any other interview for placement arranged by the college. However, placed students may be considered to sit for other drives on a visit of Companies offering higher package (approximately double Package*) or a core stream company.

Offer Letters:

Offers received from companies must be collected from T&P Department/Company as per timings in notice. The responsibility of going through the offer letter and taking further actions such as signing and sending it back to the Company rests entirely on the students. In case, if offers are received from the company directly by the students, a Xerox copy of the same must be given to the Placement Office. It is found that the Integrated and Sustained Skill Development across 8 semesters for the Engineering students of KSIT is truly successful after the evaluation against the below metrics and benchmarks- Recruitment numbers: It is found that the recruitment numbers of the students of KSIT grow in its percentage every year. This is the clear feedback from our recruiting partners that they value the hard work and investment made by students of KSIT during their 4 years with the Institute.

Feedback from the Industry: Feedback collected from the industry representatives about the quality of the students performance after their own boarding in the companies speaks volumes about the edge that our students possess compared to any other institution.

Support from the student community: The demand for training by students every semester is a testament for the effectiveness of delivery. This also directly translates to very high participation from the student community across 4 years in any of the initiatives of the Training and Placement department.

Entrepreneurship Cell

Though KSIT does not have a separate entrepreneurship cell, it is continuously striving to promote the concept of entrepreneurship among its students. The essence of entrepreneurship is to spot the students who nurture entrepreneurial ambitions and encourage them to pursue their dreams. The institution has organised a number of programs where eminent resource persons are brought face to face with the students and there is a whole lot of information exchange on various aspects required to become first generation entrepreneurs.

Ideology

- To motivate and inspire students to take up the challenge of entrepreneurship
- To equip them with necessary information and assistance to draw them towards self employment.
- To promote creative thinking and an entrepreneurial mindset among the students
- To convert proto products that have market acceptability.

ED Cell Committee

<u>Entrepreneurship Committee</u>	
Coordinator	Mr. Krishna Gudi (CSE)
Member	Mr. M Nagabhushan (Mech)
Member	Mrs. Jaysudha B S K (ECE)
Member	Mr. Kumar K (CSE) Mr. Kushal Kumar B N (CSE)

A. Entrepreneurship Initiatives:

- Affiliating university (VTU) has introduced a course on management & Entrepreneurship at 5 semester level in order to draw the attention of young minds about the possibilities of self employed.
- To develop management personnel at appropriate levels for non-corporate and unorganized sectors like education, rural development, small-scale industry etc.
- To promote self-employment avenues.
- Guidance is given to prepare project report and proposals having information on various feasibility studies.
- Help with product/service ideation.

- Help with Presentation Skills and Business Etiquette

STUDENT BENEFITTED: 2020-21							
Sl No.	Name of the Student	USN No.	Year of Passing	Name of the Company	Position held in the Company	Nature of Job	Year of Establishment
1.	Abhishek M	1KS16CS001	2020-21	TVAST IT SOLUTIONS	Partner	Managing Partners	2020-21



Government of India
Form GST REG-06
[See Rule 10(1)]

Registration Certificate

Registration Number : 29AAQFT1615G1ZY

1.	Legal Name	TVAST IT SOLUTIONS			
2.	Trade Name, if any	TVAST IT SOLUTIONS			
3.	Constitution of Business	Partnership			
4.	Address of Principal Place of Business	GROUND FLOOR, NO 1236/1, GROUND FLOOR, 7TH MAIN, 7TH BLOCK, 4TH CROSS,, BANASHANKARI 2ND STAGE, HOSAKEREHALLI, Bengaluru (Bangalore) Urban, Karnataka, 560085			
5.	Date of Liability				
6.	Period of Validity	From	25/06/2020	To	Not Applicable
7.	Type of Registration	Regular			
8.	Particulars of Approving Authority	Karnataka			
Signature					
Name		Sunil Kumar T K			
Designation		Assistant Commissioner, LVO			
Jurisdictional Office		LVO 060 - BENGALURU			
9.	Date of issue of Certificate	25/06/2020			
Note: The registration certificate is required to be prominently displayed at all places of business in the State.					




This is a system generated digitally signed Registration Certificate issued based on the approval of application granted on 25/06/2020 by the jurisdictional authority.



Annexure B

GSTIN 29AAQFT1615G1ZY
Legal Name TVAST IT SOLUTIONS
Trade Name, if any TVAST IT SOLUTIONS

Details of Managing / Authorized Partners

1		Name	SRIRANGAPATNA KRISANAKUMAR DARSHAN 1KS15CS024
		Designation/Status	PARTNER
		Resident of State	Karnataka
2		Name	MURTHY ABHISHEK 1KS16CS001
		Designation/Status	PARTNER
		Resident of State	Karnataka
3		Name	MOHAN VIJAYA BOOPATHI
		Designation/Status	PARTNER
		Resident of State	Karnataka

1KS15CS024

ED CELL PROGRAMME: 2019-20				
SL No.	Event	Description	Resource Person	Date
1.	Webinar	“How To Launch Your Own Startup”	Mr. Raghav Naidu G, CEO, G-MART, Co-Founder, Health	21 ST June, 2020

			Shortz	
2.	Panel Discussion	“Career Trends and Skills for Success	Mr. Dave Thakkar, Sr. Program Manager, Amazon (Seattle) Mr. Bracl Haney Sr. Trade Compliance Manager, Amazon (Seattle) Mr. Ankit Bera, Sr. Operations Manager, Global Trade, Amazon, (Seattle), Bengaluru	21 ST January, 2020
3.	Technical talk	Innovation, Motivation & Entrepreneurship in Foundry Industry	Dr. K. Shamsundar (Founder & Chairman, M/s S.S Group of Industries)	18 TH October, 2019
4.	Talk	Technical talk on “Entrepreneur life and Career Opportunities”	Mr. Guru Sharan, CEO- Path Finder NRI	27 TH September, 20 19



IEEE KSIT STUDENT



BRANCH



EVENT: WEBINAR ON HOW TO LAUNCH YOUR OWN STARTUP

IEEE KSIT along with its WIE affinity and SPS KSIT hosted a webinar on 21st June, 2020 with 25 members, including IEEE members, non-IEEE members, the EXECOM, and the staff.

The guest speaker, Mr. Raghav Naidu G is the CEO of G-MART and co-founder of Health Shotz. He addressed the members present in the webinar enlightening the objectives of starting a business, the thinking process that is involved in setting up a business, various types of establishments and costs.

He also briefed about the laws and rules set up by the government that one entrepreneur has to keep in his/her mind while setting up a business. The webinar lasted for one hour.



BRANCH COUNSELLOR

BRANCH CHAIR

A Report on
PANEL DISCUSSION : CAREER TRENDS AND SKILLS FOR
SUCCESS IN BUSINESS INTELLIGENCE AND TRADE
COMPIANCE

Innovation and Entrepreneurship Development Cell (IEDC) and IEEE KSIT Student Branch in collaboration with LAB-X Foundation, US organized a Panel discussion on **“PANEL DISCUSSION ON CAREER TRENDS AND SKILLS FOR SUCCESS IN BUSINESS**

INTELLIGENCE AND TRADE COMPIANCE” on 14th November 2019 from 10am to

11.30 am.

About 200 students actively participated in the event from various departments like Electronics & Communication, Computer Science & Engg, Mechanical Eng and Telecommunication.

The event provided global exposure to students through interaction with technology leaders. Honored speakers in this program included:

1. Mr. Dave Thakkar, Sr. Program Manager- AMAZON (Seattle)
2. Mr. Brad Haney, Sr. Trade Compliance Manager- AMAZON (Seattle) and
3. Mr. Ankit Bera, Sr. Operations Manager, Global Trade -AMAZON(Bengaluru).



The discussion was about skills required for Trade Compliance and Business Intelligence in the global scenario. The speakers gain valuable insights to the students.

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF MECHANICAL ENGINEERING

**Title of activity: Technical talk on “Innovation, Motivation &
Entrepreneurship in Foundry Industry”**

Type of activity: Lecture

Date/duration of activity: 18/10/2019, 11.00 am
to 12.30 pm

Venue: Seminar Hall, Ground Floor, New
Building, KSIT

Number of participants: 75

Chief Guest: Dr. K. Shamsundar (Founder & Chairman, M/s S.S Group of Industries)

Lecture Presided by (in absentia): Shri. Y Ramachandra Naidu (President,
KammavariSangham)

Lecture Graced by (in absentia): Shri. K Venkatesh Naidu (Hon. Secretary,
KammavariSangham)

Lecture Graced by (in absentia): Shri. D Rukmangada (Hon. Treasurer,
KammavariSangham)

Lecture Graced by (in absentia): Dr. K.V.A. Balaji (CEO, KS Group of Institutions)

Lecture Graced by: Dr. T.V. Govindaraju (Principal\Director, KS Institute of
Technology)

Inauguration Graced by: Prof. Umashankar M (HOD, Department of Mechanical
Engineering KS Institute of Technology)

1. Objective
The main objective is to get the current batch students of the mechanical engineering dept. familiarize with the current engineering trends in the core field of foundry management. This talk is to keep the prospective engineering graduates abreast with foundry industry standards. The talk also focused on innovation, motivation & entrepreneurship in foundry industry.
2. Target Group
Graduate Mechanical Engineers in KSIT
3. About IIF
The Institute of Indian Foundrymen (IIF) was set up in 1950 to promote education, research, training and development to Indian foundrymen and to serve as a nodal point of reference between the customers and suppliers of the Indian foundry industry on a global scale. With its Head Quarter in Kolkata, IIF presently services the entire country through its 26 Chapters under four regional Offices located at Kolkata, Delhi, Mumbai & Chennai. The Institute is a member of the World Foundrymen Organisation (WFO) and Confederation of Indian Industry (CII). Website - https://www.indianfoundry.org
4. Activities of IIF
<ul style="list-style-type: none"> • To publish the monthly Indian Foundry Journal which contains monographs on various aspects of foundry industry • To organize annually the Indian Foundry Congress (along with Indian Foundry Exhibition " IFEX) and publish the transactions thereof. • To serve as a point of reference to the Government of India for the Foundry Industry. • To participate in the preparation of standards for Foundry materials, Products and Test methods by the Bureau of Indian Standards. • To promote export of foundry products and related services. • To provide technical services to member companies. • To co-ordinate Research and Development work on foundry related subjects. • To organize Training and Development of Shop floor personnel. • To maintain and update databank of foundries and their suppliers. • To publish the Foundry Directory every 5 years listing information relevant to the foundry sector. • To conduct examinations leading to the GRAD IIF, recognised by the Government of

India as a graduate level degree in Foundry technology.

- To support foundry related courses in educational institutions.
- To recognize meritorious activity by individuals and body corporates in the field of foundry technology, through the Awards Programme
- To conduct technical meetings, seminars and workshops through Regional Branches and Chapters

Photos of Technical Talk



Welcoming the Speaker



During the Technical Talk



IEEE KSIT STUDENT BRANCH



EVENT: TECHNICAL TALK ON

“Entrepreneur's life & Career Opportunity”

IEEE KSIT, in association with WIE and IEEE Bangalore section organized a Technical Talk on “Entrepreneur's life & Career Opportunity” on 27th September, 2019.


The Speaker was Mr. Guru Sharan who is an alumina of KSIT. He currently is an CEO of the company 'Path Finder NRI'. This Technical Talk was organized for the 5th Semester Students.



The main objective behind organizing a technical talk was to make the students aware about the Life style and difficulties faced by an Entrepreneur in his/her journey. The speaker addressed the students about the topics such as Startup, Entrepreneur Routines, and also he spoke about the benefits of being an IEEE member.

The Students were definitely enlightened and they were motivated after the talk. This event inspired most of the students to become Entrepreneur in future.


BRANCH COUNSELLOR


BRANCH CHAIR

STUDENT BENEFITTED: 2019-20							
Sl No.	Name of the Student	USN No.	Year of Passing	Name of the Company	Position held in the Company	Nature of Job	Year of Establishment
1.	Darshan S K	1KS15CS024	2019-20	TVAST IT SOLUTIONS	Partner	Managing Partners	2019-20



Government of India
Form GST REG-06
[See Rule 10(1)]

Registration Certificate

Registration Number : 29AAQFT1615G1ZY

1.	Legal Name	TVAST IT SOLUTIONS			
2.	Trade Name, if any	TVAST IT SOLUTIONS			
3.	Constitution of Business	Partnership			
4.	Address of Principal Place of Business	GROUND FLOOR, NO 1236/1, GROUND FLOOR, 7TH MAIN, 7TH BLOCK, 4TH CROSS,, BANASHANKARI 2ND STAGE, HOSEKEREHALLI, Bengaluru (Bangalore) Urban, Karnataka, 560085			
5.	Date of Liability				
6.	Period of Validity	From	25/06/2020	To	Not Applicable
7.	Type of Registration	Regular			
8.	Particulars of Approving Authority	Karnataka			
Signature					
Name		Sunil Kumar T K			
Designation		Assistant Commissioner, LVO			
Jurisdictional Office		LVO 060 - BENGALURU			
9. Date of issue of Certificate		25/06/2020			
Note: The registration certificate is required to be prominently displayed at all places of business in the State.					

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Annexure A

GSTIN	29AAQFT1615G1ZY
Legal Name	TVAST IT SOLUTIONS
Trade Name, if any	TVAST IT SOLUTIONS

Details of Additional Places of Business

Total Number of Additional Places of Business in the State	0
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ED CELL PROGRAMME: 2018-19



Annexure B

GSTIN 29AAQFT1615G1ZY
Legal Name TVAST IT SOLUTIONS
Trade Name, if any TVAST IT SOLUTIONS

Details of Managing / Authorized Partners

1		Name	SRIRANGAPATNA KRISHNAKUMAR DARSHAN 1KS15CS024
		Designation/Status	PARTNER
		Resident of State	Karnataka
2		Name	MURTHY ABHISHEK 1KS16CS001
		Designation/Status	PARTNER
		Resident of State	Karnataka
3		Name	MOHAN VIJAYA BOOPATHI
		Designation/Status	PARTNER
		Resident of State	Karnataka

1KS15CS024

SL No.	Event	Description	Resource Person	Date
1	Microsoft Certification course on IoT, CPMA and Robotics	3 rd Year UG students	ATS InfoTech Private Limited	4 Days: 1 st , 4 th , 5 th and 7 th of May 2019

To
The principal
KSIT, Bengaluru

Place Bengaluru
Date : 11.3.2019

sub : regarding conducting Microsoft certification courses in the college in collaboration with
ATS InfoTech. Pvt. Ltd, New Delhi.

Dear Sir,

KSIT has signed an MOU with ATS InfoTech. Pvt. Ltd, New Delhi. As per the MOU, representatives from the ATS InfoTech. Pvt. Ltd gave presentation on the details of Microsoft certification courses and its importance in career development. They presented details like course fees, duration, mode and duration of exam etc. Based on this, totally 123 students from KSIT across the departments have registered for Micro soft Certification course on IOT, CPMA and Robotics.

ATS InfoTech will conduct workshop for registered students to get them prepared for the certification course exam. They need four to five days, preferably on Sundays and holidays, covering at least 6 hours per day for this workshop. We request your permission to allow resource persons from ATS InfoTech. to conduct classes for these students and to use the Laboratory for hands on workshop.

The college will be earning 15% of the total fees the students have paid to ATS InfoTech. The fees per students is Rs 2880/- So per student the college will be getting around Rs 432/-. Also, they provide free workshop for specific number of faculty members as per the MOU.

Thanking you,

Your's faithfully,
Dr. B Sudarshan
IDC co-ordinator
KSIT, Bengaluru

Dues
12/3/19

12/8/19

12/3/19

This arrangement may kindly be permitted as it is highly beneficial to the students. It also helps the institution for Accreditation. A small percentage of revenue collected is shared with the institution for using the facilities. There is a very good response from the students. The Certification will give our students better employment opportunities.

CHIEF EXECUTIVE OFFICER
Member Secretary
Academic Advisory Board



ATS Infotech Pvt. Ltd. Microsoft Partner Network



Workforce
Development Partner



ATS Infotech Pvt Ltd
L-107, 1st Floor, Lalpur Nagar II
New Delhi 110024, INDIA
Tel : (+91) 11 2981 9891
www.atsinfotech.in

23. Cost of certification Exam bundled with free workshop.

Sr no	Certification mapped free Workshop	Certification Exam Cost with one Attempt	College Share 'RUF'	Program Duration
1	Cross Platform Mobile App. Dev Mapped to Microsoft MTA exam 98-735	2880 + 18% GST	15% of the exam fees	20-24hrs
2	Cyber and Mobile Security Mapped to Microsoft MTA exam 98-367	2880 + 18% GST	15% of the exam fees	20-24hrs
3	IOT Mapped to Microsoft MTA exam 98-361	2880 + 18% GST	15% of the exam fees	20-24hrs
4	Robotics Mapped to Microsoft MTA exam 98-361	2880 + 18% GST	15% of the exam fees	20-24hrs
5	Big Data Mapped to Microsoft MTA exam 98-364	2880 + 18% GST	15% of the exam fees	20-24hrs
6	Revit Architecture Mapped to Autodesk Certification	2880 + 18% GST	15% of the exam fees	20-24hrs

Teekhar Singh
06/02/2019



Microsoft
Partner Network



ORACLE
Workforce
Development Partner



ATS Infotech Pvt Ltd
L-107, 1st Floor, Lajpat Nagar II
New Delhi 110024, INDIA
Tel : (+91) 11 2981 9891
www.atsinfotech.in

For

KS Institute of Technology

[Signature]
13.2.19

Dr.T.V. Govinda Raju

(Principal Director)
K.S. INSTITUTE OF TECHNOLOGY

BENGALURU - 560 109

Authorized Signatory

Date: 13.2.19



Witness

Signature *B. Sub*
(Dr. B. Sudarshan)

Date: 13.2.19

For

ATS Infotech Private. Limited.

[Signature]

Mr. Deepak Rajkumar Garg
(Business Development Manager)

Authorized Signatory

Date: 06/02/2019

Witness

Signature *[Signature]* [KUMAR. B]

Date: 18-02-19



STUDENT BENEFITTED: 2018-19

Sl No.	Name of the Student	USN No.	Year of Passing	Name of the Company	Position held in the Company	Nature of Job	Year of Establishment
1.	Dhanush K A	1KS16EC411	2018-19	Ruhm Innovation Pvt. Ltd.	Financial Officer	Business	2019



GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS
Central Registration Centre

Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2013]

I hereby certify that **RUHM INNOVATION PRIVATE LIMITED** is incorporated on this Twenty third day of April Two thousand eighteen under the Companies Act, 2013 (18 of 2013) and that the company is located at:

The Corporate Identity Number of the company is: U74999KA2018PTC112529.

The Permanent Account Number (PAN) of the company is AAICR9101H.

The Tax Deduction and Collection Account Number (TAN) of the company is BLRR1117XK.

Given under my hand at Manesar this Twenty third day of April Two thousand eighteen.

Digital Signature Certificate

Mr SURESH PANDYADOLY 14062018

Deputy Registrar for Companies

For and on behalf of the Jurisdictional Registrar of Companies

Registrar of Companies

Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business in which deposit is involved from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on www.mca.gov.in

Dwelling Address as per record available in Registrar of Companies office:

RUHM INNOVATION PRIVATE LIMITED

52, Sajjanara Beedi, Koratagere Town, Koratagere, Taluk Tumkur,
TUMKUR, Tumkur, Karnataka, India, 572129

Witnessed by the Jurisdictional Registrar of Companies

Certified True Copy

CS Dharendra Shastri

Practising Company Secretary

M. No. A32740



Shot on OnePlus

By Dhanush

Subscriber Details				
Name, Address, Description and Occupation	DIN/PAN/Passport Number	No. of shares taken	DSC	Dated
Sriee Vathsa Nagabhusan Koratageri Korat Nagabhusan Narainbharthy Koratageri Post: Nagavara Str. Dp. Kanulka Mahal, Koratageri, Tumkur - 572129, Karnataka Occ: Self Employed	12QF9624R	5000	Equity	
Chinnay Mangunalla Nonavinskere Son of Mangunath Hornnashetty Nonavinskere Add: #291, Mallaralingeshwara Nitya, Nonavinskere, Tiptur Tq. Tumkur Dist - 572224, Karnataka Occ: Self Employed	BQ8PC7290Q	5000	Equity	
		10,00,000	Equity	
Total Shares taken				

Signed before Me				
	Address, Description and Occupation	DIN/PAN/Passport Number/ Membership Number	DSC	Dated
<p>Dhanush Amaranath Koratagere Son of Amaranath</p>	<p>Opp Shivaganga Taluk, Koratagere Town, Tumkur - 572129, Karnataka Occ - Self Employed</p>	BUMPA4011		

Check Form



Shot on OnePlus

Certified True Copy
CS Dharendra Shastri
Practising Company Secretary
M. No. A32740

9.7 Co-curricular and Extra-curricular Activities

Total Marks: 10

Institute Marks: 10

A. Availability of Sports and Cultural Facilities

Sports Facilities:

Department of Physical Education & Sports is very active in the Campus. The institution strongly believes in the overall development of its students and thus encourages sports activities. Sports are in fact a way of life for the student's physical and mental health and fitness. The institution believes that A well-implemented, comprehensive program is an essential component for the growth of both mind and body.

The available 500 Sq. Mtrs of ground has been effectively developed into a ***Volley ball / Throw ball and Kabaddi*** field. Indoor games like ***Badminton, Carom and Chess*** etc. are also provided and encouraged. The department of sports is vested with the responsibility of organizing and arranging for all the National festivities. All sports activities are opened from 4 pm onwards. ***Mr. Umesh, PED, KSIT*** is responsible for conducting events. Facilities kept open for both students and staff (teaching and Non-Teaching). Register is maintained for sports (both indoor and outdoor) activities. The institution has moderate facilities for sports, games (indoor, outdoor) and cultural activities.

Indoor Games in the Campus

Sl. No.	Name of the sport Facility
1	Carom
2	Chess
3	Table Tennis
4	Gym



Carom



Chess



Table Tennis



Gym

Outdoor Games in the Campus

Sl. No.	Name of the sport facility
1	Volley ball
2	Throw ball
3	Kabaddi
4	Badminton
5	Basketball



Volley Ball



Throw Ball



Kabaddi



Badminton



Basket Ball

Cultural Facilities

Sl. No.	Name of the Cultural facility
1	Practice Room
2	Conference Hall
3	Quadrangle
4	Drum set
5	Music System
6	Public Address System



Practice Room

Apart from this, students organize college cultural fest “*Ananya*” every year. Various cultural competitions such as nail-art, Pencil-Sketching, Mehendi, photography, quiz, Dumb charades, tug of war, counter strike, treasure hunt, minute to win it, Kannada Antyakshari, Collage, Mr. and Miss KSIT, Dub-Smash, Mad-ads, solo-dance, group-dance, solo-singing, Hogothon, Mock IPL Auction, Cooking without fire, Fashion show and Rangoli were conducted to bring out the hidden talents and exhibit the creativity of the students.



Lighting the lamp by Chief Guest, Guest of Honor, Management and Principal



Performance by Student



Felicitation by Principal and Cultural Committee Co-ordinator

B. NCC, NSS and other clubs:

KSIT has a very vibrant NSS wing in which our students actively and enthusiastically participate. This wing has organized NSS Camps, Blood Donation Camps, Social Awareness Camps and Graam Swachh Abhiyaan Camps every year. Students are motivated to register for NSS Unit Every year through registration process by the NSS Faculty Co-ordinator.

List of NSS Events:

EVENTS CONDUCTED UNDER NSS: 2020-21			
SL NO	Event Name	No. of Students Participated	Date
1.	Independence Day	50	15-08-2021
2.	Free Vaccination Drive at KSIT Campus	384	06-07-2021
3.	Elimination of Single use plastic	44	05-04-2021



K.S. INSTITUTE OF TECHNOLOGY
National Service Scheme
ರಾಷ್ಟ್ರೀಯ ಸೇವಾ ಯೋಜನೆ

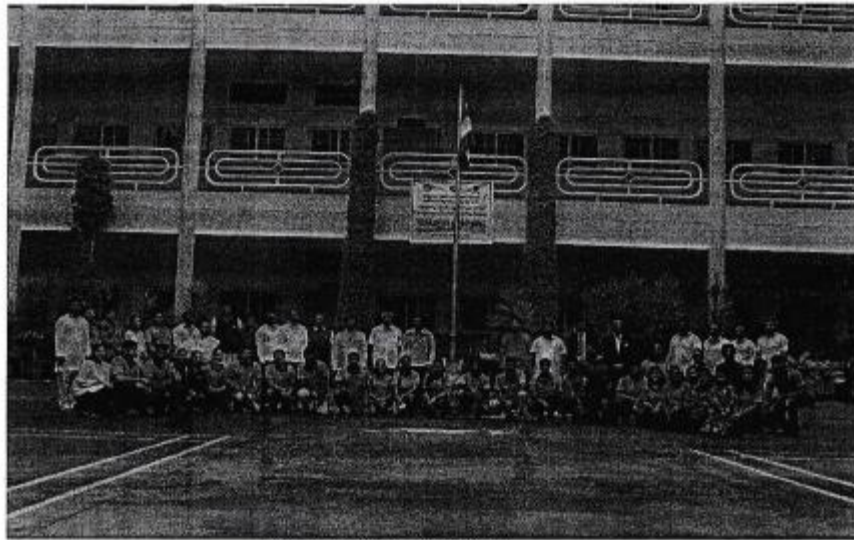
14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560 109.



INDEPENDENCE DAY:15/8/2021

75TH INDEPENDENCE DAY PROGRAMME SHEET

1	ASSEMBLY	8.15AM																														
2	WELLCOME SPEECH	VISHNAVI SRIHARSAN (NSS VOLUNTEER)																														
5	GROUP SONG	NSS VOLUNTEERS																														
5	POOJA	BY Hon. Secretary: SRI. R. LEELA SHANKAR RAO																														
6	FLAG HOISTING	BY Hon. President: SRI. R. RAJAGOPAL NAIDU																														
7	ADDRESS BY PRESIDENT	SRI. R. RAJAGOPAL NAIDU																														
8	ADDRESS BY SECRETARY	SRI. R. LEELA SHANKAR RAO																														
9	INDEPENDENCE DAY GREETINGS	BY CEO : DR. K.V.A .BALAJI																														
10	INDEPENDENCE DAY GREETINGS	BY PRINCIPAL : DR. DILIP KUMAR.K																														
11	DISTRIBUTION OF VTU NSS CERTIFICATES	<table><tr><td>1.PUNITH</td><td>16. VAISHNAVI S</td></tr><tr><td>2.VISHNU TEJAS T M</td><td>17.NIKHIL V</td></tr><tr><td>3.SAI ADITYA C H</td><td>18.NAVIN KUMAR</td></tr><tr><td>4.RAVI K V</td><td>19. RITU PATIL</td></tr><tr><td>5.ADITI R S SINGH</td><td>20.SAHANA M K</td></tr><tr><td>6.YASHAS G V</td><td>21. ANAGHA A</td></tr><tr><td>7.AMOGH R</td><td>22. GANESH B</td></tr><tr><td>8.LOKESH B M</td><td>23. SHRADDA P</td></tr><tr><td>9.P KISHORE</td><td>24.MOHAN PRASANNA</td></tr><tr><td>10.CHENNAKESHAVA</td><td>25. SAHANA R</td></tr><tr><td>11.VYBHAVI J</td><td>26. GOWTHAMI V</td></tr><tr><td>12.VARSHINI N</td><td>27.NAYANA SHREE</td></tr><tr><td>13.VISHAL</td><td>28.SURABHI B</td></tr><tr><td>14.VAISHNAVI SRIHARSHAN</td><td>29.RACHANA GILIYAL</td></tr><tr><td>15. NAGANETRA M</td><td>30.NIVEDITHA.R</td></tr></table>	1.PUNITH	16. VAISHNAVI S	2.VISHNU TEJAS T M	17.NIKHIL V	3.SAI ADITYA C H	18.NAVIN KUMAR	4.RAVI K V	19. RITU PATIL	5.ADITI R S SINGH	20.SAHANA M K	6.YASHAS G V	21. ANAGHA A	7.AMOGH R	22. GANESH B	8.LOKESH B M	23. SHRADDA P	9.P KISHORE	24.MOHAN PRASANNA	10.CHENNAKESHAVA	25. SAHANA R	11.VYBHAVI J	26. GOWTHAMI V	12.VARSHINI N	27.NAYANA SHREE	13.VISHAL	28.SURABHI B	14.VAISHNAVI SRIHARSHAN	29.RACHANA GILIYAL	15. NAGANETRA M	30.NIVEDITHA.R
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15. NAGANETRA M	30.NIVEDITHA.R																															
12	VOTE OF THANKS	CHOWDAPPA . M .R ,NSS P.O																														



Group photo NSS Volunteer



Refreshment in the function

Chowdappa M.R.

CHOWDAPPA.M.R
NSS PROGRAMME OFFICER

~~NSS Programme Officer~~

K S Institute of Technology
Kanakapura Main Road
Bengaluru - 560 109

Dr. Dilip Kumar K.

Dr.DILIP KUMAR.K
PRINCIPAL
PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109

INDEPENDENCE DAY:15/8/2021

Page 2

EVENTS CONDUCTED UNDER NSS: 2019-20			
SL NO	Event Name	No. of students Participated	Date
1.	GRAMA SWARAJYA 2020	50	5-02-2020 to 11-02-2020
2.	Yoga Day	50	07-02-2020
3.	Republic Day	150	26-01-2020
4.	Sevathon	100	15-12-2019
5.	Flasiru Abhiyana	50	21-09-2019
6.	Swacha Bharat Abhiyana	50	16-09-2019
7.	Nutritional Diet Awareness	100	14-09-2019
8.	Cauvery Calling-Action Now	100	31-08-2019
9.	Independence Day	200	15-08-2019

EVENTS CONDUCTED UNDER NSS: 2018-19			
S1. No.	Event Name	No. of students participated	date
1	Republic day celebration (NSS)	150	26/01/2019
2	Blood donation camp (Lions blood bank)	222	14/03/2019
3	computer Awareness program (Govt. school)	100	07/03/2019

4	Environment day (plantation)	50	05/06/2018
5	International yoga day (Art of living)	100	21/06/2018
6	NSS 7 days Special camp (SANKALPA)	60	12-18/07/2018
7	Fund collection for Kodagu &Kerala	50	25/08/2018
s	Independence day (NSS)	200	15/08/2018
9	Drug abuse awareness program	250	06/09/2018
10	Golden jubilee of NSS	150	13/10/2018
11	Drug awareness walk(Ciibbon park)	50	10/11/2018
12	Dental awareness &free screening	300	03/11/2018
13	Kannada Rajyothsava	450	30/11/2018
14	Essay competition (DRUG ABUSE)	100	17/12/2018

Sports Activities:

List of Sports Activities from 2018 - 2019

Sl. No .	Tournament/Competition	Held at	Date	No. of Students	Level	Achievement
1	VTU Bangalore South Zone Inter College Badminton (M&W) Tournament 2018-19	SJB IT Bengaluru.	27 th & 28 th August 2018	10	Inter-Colle giate	our college team qualified for Quart finalist
2	VTU Bangalore South Zone Inter College Table Tennis (M&W) Tournament 2018-19	JSSATM Bengaluru	3 rd & 4 th Septemb er 2018	10	Inter-Colle giate	
3	39 th Annual Y Nagesh Rao Maanay Memorial Inter College throw ball (Men) Tournament 2018.	BNMIT Bengaluru	7 th & 8 th Septemb er 2018	12	Inter-Colle giate	our college team qualified for Quart finalist

4	2 nd bhavana memorial Throw ball (Women) tournament 2018	GAT Bengaluru	7 th & 8 th September 2018	12	Inter-Colle giate	Our College secured Runners
5	VTU Inter College single zone Taekwondo competition 2018	VKIT Bengaluru	10 th & 11 th September 2018	02	Inter-Colle giate	
6	VTU Bangalore south zone Cricket (M) team selections trails 2018-19	DBIT Bengaluru	21 st & 22 nd September 2018	04	VTU Team selecti ons trails	1 Student selected VTU inter zone
7	VTU inter zone Cricket (M) team selections trails 2018-19	RYMEC Bellary	24 th to 25 th September 2018	01	VTU Team selecti ons trails	
8	VTU Cricket (W) team selections trails 2018	SVIT Bengaluru	26 th September 2018	03	VTU Team selecti ons trails	
9	VTU Inter College swimming competition 2018-19	BMSCE Bengaluru	3 rd October 2018	05	Inter-Colle giate	1 silver & 3 Bronze Medal
10	VTU bengaluru zone Inter College soft ball tournament 2018-19	Sir MVIT Bengaluru	4 th & 5 th October 2018	16	Inter-Colle giate	
11	State level Inter College throw ball Tournament 2018-19	Jyothi IT Bengaluru.	5 th & 6 th October 2018	24	Inter-Colle giate	our college(W) team qualified for Semi finalist
12	VTU Soft ball Team selections Trails 2018-19	SJMIT Chitradurg a	6 th to 7 th October 2018	04	VTU Team selecti ons trails	
13	VTU Bangalore South zone Throw ball Tournament 2018	GAT Bengaluru.	9 th & 10 th October 2018	12	Inter-Colle giate	
14	All India Inter University Swimming Championship 2018-19	Jain University Bengaluru	22 nd to 30 th October	02	Inter Unive rsity	2 Student Represented VTU

			2018			
15	21 st VTU Inter Collegiate Athletic meet 2018-19	SJCIT Chickballpur	25 th October to 29 th October 2018	11	Inter-Collegiate	

Sl. No.	Tournament/Competition	Held at	Date	No. of Students	Level	Achievement
16	All India Inter University Softball Championship 2018	SRTM University Nanded (MS)	25 th October 2018 to 4 th November 2018	02	Inter University	2 Student Represented VTU
17	VTU Weight lifting & Best Physique (Men)	GAT Bengaluru	30 th & 31 st October 2018	03	Inter-Collegiate	
18	19 th VTU Inter Collegiate Youth Festival (M&W) 2018-19	BKIT Bhalki Bidar	2 nd to 4 th November 2018	04	Inter-Collegiate	
19	All India Inter University South Zone Kabaddi Tournament 2018-19	Bangalore North University Bengaluru	6 th November 2018 to 15 th November 2018	01	Inter University	1 Student Represented VTU
20	VTU Netball (M) team selections trails 2018	KNSIT Bengaluru	9 th & 10 th November 2018	02	VTU Team selections trails	
21	VTU Baseball (M) team selections trails 2018-19	Sir MVIT Bengaluru	14 th & 15 th November 2018	04	VTU Team selections trails	
22	Inter Collegiate Sports Fest SPHYGMUS Soft ball Tournament 2019	Jyoti Nivas College Bangalore	12 th to 14 th February 2019.	16	Inter-Collegiate	Our College secured Runners Up
23	South zone inter-university Cricket (W)	VTU Belagavi	14 th to 23 rd	01	Inter Univer	1 Student Represented VTU

	Tournament 2018-19		January 2019		sity	
24	South zone inter-university Cricket (W) Tournament 2018-19	Andra University Visakhapatnam (AP)	9 th February 2019 to 14 th February 2019	03	Inter University	3 Student Represented VTU
25	VTU Bangalore South Zone Inter College Volley ball (M) Tournament 2018-19	RVCE Bengaluru.	9 th & 10 th march 2019	12	Inter-Collegiate	Participated
26	VTU Bangalore South Zone Inter College Cricket (M) Tournament 2018-19	SJBIT Bengaluru	6 th to 14 th march 2019	16	Inter-Collegiate	Participated
27	Sports Day – 2017-2018	UCPE Ground Bangalore university	16 th march 2019	700	Inter - Department	
28	VTU Bangalore South Zone Inter College Football (M) Tournament 2018-19	RNSIT Bengaluru	21 st & 22 nd March 2019	16	Inter-Collegiate	Participated
29	All India Inter University Base ball Championship 2018-19	Kurukshetra University Kurukshetra	27 th March 2019 to 30 th March 2019	02	Inter University	2 Student Represented VTU
30	VTU Handball (M) team selections trails 2019	NCEIT Bengaluru	8 th & 9 th April 2019	03	VTU Team selections trails	Participated
31	11 th sai leo trophy kabaddi Tournament 2018-19	Sairam CE Anekal	24 th April 2019	12	Inter-Collegiate	Participated
32	Throw ball (Women) tournament 2018-19	GAT Bengaluru	26 th April 2019	12	Inter-Collegiate	Our College secured Winners
33	Kabaddi (men) tournament 2018-19	GAT Bengaluru	26 th April 2019	12	Inter-Collegiate	Participated

34	VTU Bangalore South Zone Inter College Kabaddi (M) Tournament 2018-19	KSIT Bengaluru	29 th & 30 th April 2019	12	Inter-Collegiate	our college team qualified for Semi finalist
35	VTU Kabaddi (M) team selections trails 2019	Angadi IT&M Belagavi	6 th & 7 th May 2019	04	VTU Team selections trails	Participated

Achievements from 2018 - 2019



Karthik Narayan L 5th sem Dept of TCE secured one silver medal, two bronze medal in the VTU inter collegiate swimming Competition 2018 at BMSCE bengaluru 3rd October 2018



Suhas Y 5th sem Dept of MEC secured one bronze medal in the VTU inter collegiate swimming Competition 2018 at BMSCE Bengaluru 3rd October 2018





Throw ball Team (Women): Our College secured **Runners Up 2nd** bhavana memorial Throw ball (Women) tournament 2018 held on 7th & 8th September 2018 at GAT Bengaluru.







Priyanka S of 7th Sem Dept of CSE Represented VTU Kabaddi team in South zone inter-university Kabaddi Tournament 2018-19 held at **Bangalore North University Bengaluru** From 12th November 2018 to 15th November 2018 & Coaching camp will be held from 6th November 2018 to 11th November 2018 in CIT Gubbi.



Karthik Narayan L of 3rd sem Dept of TCE Represented All India Inter University Swimming Championship 2018-19 which is scheduled to be held at **Jain University Bengaluru** from 26th October 2018 to 30th October 2018 & Coaching camp will be held from 22nd October 2018 to 25th October 2018 in BMSCE Bengaluru.



Suhas Y of 5th sem Dept of TCE Represented All India Inter University Swimming Championship 2018-19 which is scheduled to be held at **Jain University Bengaluru** from 26th October 2018 to 30th October 2018 & Coaching camp will be held from 22nd October 2018 to 25th October 2018 in BMSCE Bengaluru.



Nischal.V.Chadaga 3rd Sem Dept of MEC Represented VTU Softball Team in All India Inter University Softball Championship 2018-19 which is scheduled to be held at **SRTM University Nanded (MS)** from 31st October 2018 to 4th November 2018 & Coaching camp will be held from 25th to 30th October 2018 in Sir MVIT Bengaluru.



Rohith R 3rd Sem Dept of CSE Represented VTU Softball Team in All India Inter University Softball Championship 2018-19 which is scheduled to be held at **SRTM University Nanded (MS)** from 31st October 2018 to 4th November 2018 & Coaching camp will be held from 25th to 30th October 2018 in Sir MVIT Bengaluru.



Priyanka S of 8th Sem Dept of CSE Represented VTU Cricket team in South zone inter-university Cricket Tournament 2018-19 held at **Andra University Visakhapatnam (AP)** From 9th February 2019 to 14th February 2019 & Coaching camp will be held from 6th February 2019 to 8th February 2019 in VTU Regional Office Mysuru.



Sadhika Chandra R of 6th Sem Dept of ECE Represented VTU Cricket team in South zone inter-university Cricket Tournament 2018-19 held at **Andra University**

Visakhapatnam (AP) From 9th February 2019 to 14th February 2019 & Coaching camp will be held from 6th February 2019 to 8th February 2019 in VTU Regional Office Mysuru.



Shreyashwini V of 6th Sem Dept of ECE Represented VTU Cricket team in South zone inter-university Cricket Tournament 2018-19 held at **Andra University Visakhapatnam (AP)** from 9th February 2019 to 14th February 2019 & Coaching camp will be held from 6th February 2019 to 8th February 2019 in VTU Regional Office Mysuru.



Prajwal Krishna 6th Sem MEC Represented VTU Cricket team in South zone inter-university Cricket Tournament 2018-19 held at **VTU Belagavi** from 14th January 2019 to 23rd January 2019 & Coaching camp will be held from 5th January 2019 to 13th January 2019 in JNNCE Shivamogga.



Priyanka S of 8th Sem Dept of CSE, Sadhika Chandra R & Shreyashwini V of 6th Sem Dept of ECE Represented VTU Cricket team in South zone inter-university Cricket Tournament 2018-19 held at **Andra University Visakhapatnam (AP)** from 9th February 2019 to 14th February 2019 & Coaching camp will be held from 6th February 2019 to 8th February 2019 in VTU Regional Office Mysuru.



Our College Soft Ball Team Secured Runners Up In The Inter Collegiate Sports Fest SPHYGMUS Soft ball Tournament 2019 Held at Jyoti Nivas College Bangalore 12th to 14th February 2019.





Prajwal Krishna 6th Sem MEC Represented VTU Cricket team in South zone inter-university Cricket Tournament 2018-19 held at **VTU Belagavi** from 14th January 2019 to 23rd January 2019 & Coaching camp will be held from 5th January 2019 to 13th January 2019 in JNNCE Shivamogga.

Annual Activities



K.S.Group Of Institutions
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Tel: +91-80-28435722/24 Fax: +91-80-28435723 Email- principal.ksit@gmail.com Website: www.ksit.ac.in

Sports Day 2019-20 Report

Department of Physical Education & Sports organized the Annual Sports Day- 2019-20 held on 07th March 2020, UCPE Stadium Bangalore University Jnana Bharathi. it was inaugurated The Chief Guest Mr Vidyamani Puttanna in his address emphasized the importance of sports in every student's life. The Guest of Honour Dr Rajesh Y H Director of physical Education VTU Belagavi, Dr Jayram Asst Commissioner Police Ex- Prime Minister security force Bangalore & Mr Rakesh Rudra Alumni of KSSEM, Dept of CIVIL as Guest of honor has advised the students to give importance to academic and sports as well to excel in the career. President Ramachandra Naidu, Secretary Venkatesh Naidu, Dr. T.V. Govindaraju, Principal/Director, & All the dept HOD's, Staff Members & students were present on the occasion. In his Inaugural Address highlighted the importance to the sports extended by Treasurer Rukhumangada Naidu KSGI gave a note on facilities available in the college and encouragement given by Kammavari Sangham.

Sl. No .	No. of Events	No. of Students Participated	Individual championship	Overall team championship For Department
1	10 (Men) 8(women)	850	1.Sadhvika Chandra R 8 th Sem ECE 2. Prajwal Krishnna 8 th Sem MEC	Dept of Mechanical



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14, Raghuvannahalli, Kanakapura Main Road, Bengaluru - 560 109.

Tel: 080-28435722/24, Fax: +91 -080-28435723, E-mail: principal.ksit@gmail.com, Web: www.ksit.ac.in



The Management, Principal, Staff & Students
Solicit your gracious presence for the Inauguration of
ANNUAL ATHLETIC MEET 2019-20

On Saturday, 7th March 2020, at 9-30 a.m.

Chief Guest

Sri. Puttanna, MLC

Ex - Deputy Chairman
Karnataka Legislative Council
Bangalore Teachers Constituency

Guest of Honour

Dr. Jayaram

Asst. Commissioner Police
Ex - Prime Minister Security force.

Dr. Rajesh Y H

Director of Physical Education
VTU Belagavi.

Sri. Rakesh Rudra

National Athlete
Alumni of KSSEM

Sri. Y Ramachandra Naidu

President, Kammavari Sangham

Will preside over the function

Sri. K Venkatesh Naidu, B.E (Mech)

Hon. Secretary, Kammavari Sangham

Will deliver inaugural address

Sri. D Rukmangada, B.E, MBA

Treasurer, Kammavari Sangham

Will grace the occasion

Dr. K.V.A. Balaji

Chief Executive Officer
K S Group of Institutions

Mr. Umesh. S

Physical Education Director
KSIT

Dr. T.V. Govindaraju

Principal / Director
KSIT

Venue: UCPE Ground, Jnana Bharathi Campus, Bangalore University

Managing Committee

Sri. Y. Ramachandra Naidu

President

Sri. T. Ramachandra Naidu

Vice President

Sri. K. Shiva Rao

Vice President

Sri. K. Venkatesh Naidu

Hon. Secretary

Sri. B. Lokanadha Naidu

Joint. Secretary

Sri. R. Leela Shankar Rao

Joint. Secretary

Sri. D. Rukmangada

Treasurer

Sri. L. Krishnamoorthy

Internal Auditor

Sri. M. Yogamurthy

Chairman, Finance Committee

Sri. T. Neerajakshalu Naidu

Chairman, Hostel Committee

Sri. N. Krishnama Naidu

Chairman, Building Committee

Sri. D. Jagadish Kumar

Chairman, Hospital Committee

Sri. M. Sudhakar

Chairman, Legal Cell

Sri. P.B. Prakash Kumar

Chairman, Transport Committee

Sri. M.N. Padmanabha

Director

Sri. T. Kumar

Director

Sri. N.M. Krishnamurthy

Director

Sri. A.V. Nagaraj

Director

Sri. M.C. Varadaraja

Director

Advisory Committee

Sri. K. Krishna

Chairman

Sri. K. Subramanyam Naidu

Member

Sri. Y. Ramakrishna

Member

Sri. H. Ramanjaneya

Member

Sri. C N Govindaraju

Member

Sri. Prathipati Anjaneyalu

Member

Sri. Reddi Veeranna

Member

Sri. Yalamanchili Vasudeva Rao

Member

Academic Advisory Board

Dr. H. P. Khincha

Chairman

Dr. K. N. Balasubramanya Murthy

Member

Dr. Y. N. Srikanth

Member

Dr. Shyam Vasudeva Rao

Member

Dr. K.V.A. Balaji

Chief Executive Officer



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All the staff & Students are hereby informed that our College Annual Athletic Meet 2019 - 20 will be held on 7th March 2020, at **UCPE, Ground Jnana Bharathi Bengaluru University**, from 8 am to 4 pm. All the staff & Students are informed to participate & make Athletic Meet a grand success.

List of Events

Sl. No.	MEN	WOMEN	Events for Staff	
01	100 Meters Running	100 Meters Running	100 Meters Running	Men & Women (Above 40 years age category)
02	200 Meters Running	200 Meters Running	100 Meters Running	Men & Women (Below 40 years age category)
03	400 Meters Running	400 Meters Running	Shot Put	Men & Women
04	800 Meters Running	800 Meters Running	Discus Throw	Men & Women
05	1500 Meters Running	4 x 100 Meters Relay	Tug of war	Men & Women (10 members of a team KSIT V/S KSSEM)
06	4 x 100 Meters Relay	Shot Put		
07	Shot Put	Discus Throw		
08	Discus Throw	Long Jump		
09	Long Jump			

NOTE:

1. The inauguration of the athletic meet shall be at 9 am .
2. Interested students should register their names with Physical Education Director
3. For further clarifications contact Physical Education Department..



K. S. INSTITUTE OF TECHNOLOGY

#14, Raghunathalli, Kanakapura Main Road, Bengaluru-560109

DEPARTMENT OF PHYSICAL EDUCATION & SPORTS

Date: 17/02/2020

CIRCULAR

Following faculty members are requested to continue as Sports committee members. They are requested to attend the meeting & execute their responsibilities.

Sports committee

Co-ordinator:

Umesh S

Members:

- | | |
|----------------------|--------------|
| 1. Manjunath B R | Dept of MED |
| 2. Dhinesh Kumar D S | Dept of TCE |
| 3. Christo Jain | Dept of ECE |
| 4. Roopesh Kumar B N | Dept of CSE |
| 5. Kiran Kumar S R | Dept of BS&H |

Diwal
[Signature]
[Signature]

Meeting will be held on 18th February 2020 at 11.00am.
Venue: PED Room.

[Signature]
ಉಪಾಧ್ಯಕ್ಷ. ಎಸ್. ಉಮೇಶ್. ಎ.ಎಂ.ಸಿ.ಇಡಿ.
ದೈಹಿಕ ಶಿಕ್ಷಣ ನಿರ್ದೇಶಕರು
ಕೆ.ಎಸ್. ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜು
ಬೆಂಗಳೂರು - 560 109



K. S. INSTITUTE OF TECHNOLOGY

#14, Raghunathalli, Kanakapura Main Road, Bengaluru-560109

DEPARTMENT OF PHYSICAL EDUCATION & SPORTS

Date: 18/02/2020

Agenda

1. To induct new student member to sports committee.
2. Uniform for new students.
3. Hire Stadium.
4. Qualified officials.
5. Working lunch, medical facility, certificates & medals.
6. Chief Guest.
7. Sports day date & Time.

Members presented

- | | |
|----------------------|--------------|
| 1. Umesh S | PED |
| 2. Manjunath B R | Dept of MED |
| 3. Dhinesh Kumar D S | Dept of TCE |
| 4. Christo Jain | Dept of ECE |
| 5. Roopesh Kumar B N | Dept of CSE |
| 6. Kiran Kumar S R | Dept of BS&H |

Signature

[Signature]
Diwal
[Signature]
[Signature]

Minutes of Meeting

- ✓ Discussed to issue uniform to all new students.
- ✓ To hire sports ground of InanaBharathi.
- ✓ To hire qualified officials from University itself for the smooth conduction of program.
- ✓ To provide working lunch, medical facility and also issue certificates, medals to the winners.
- ✓ To invite is Sri Pottanna MLC chief guest to inaugurate annual Athletic meet.
- ✓ Committee decided to invite Mr.Dr Jayram ACP & Dr.Rajesh Y H DPE VTU & Rakesh R (Alumni of KSSEM) guest of honour.
- ✓ To organise sports day we decided the date that 7th March 2020,at 9.30am

[Signature]
ಉಪಾಧ್ಯಕ್ಷ. ಎಸ್. ಉಮೇಶ್. ಎ.ಎಂ.ಸಿ.ಇಡಿ.
ದೈಹಿಕ ಶಿಕ್ಷಣ ನಿರ್ದೇಶಕರು
ಕೆ.ಎಸ್. ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜು
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**Sports Day 2018-19 Report**

Department of Physical Education & Sports organized the Annual Sports Day- 2018-19 held on 16th March 2019, UCPE Stadium Bangalore University Jnana Bharathi. it was inaugurated The Chief Guest Mr Rudresh B -Journalist (Senior Producer TV-9)Kho-Kho Player in his address emphasized the importance of sports in every student's life. The Guest of Honour Mr Hemanth Kumar R Kabaddi Player, Alumni of KSIT, Dept of CSE 2012-15 & Miss.Bhavya P Kabaddi Player, Alumni of KSIT, Dept of ECE 2013-17 as Guest of honor has advised the students to give importance to academic and sports as well to excel in the career. President Ramachandra Naidu, Secretary Venkatesh Naidu, Dr. T.V. Govindaraju, Principal/Director, & All the dept HOD's, Staff Members & students were present on the occasion. In his Inaugural Address highlighted the importance to the sports extended by Treasurer Rukhumangada Naidu KSGI gave a note on facilities available in the college and encouragement given by Kammavari Sangham. Principal of KSIT delivered few words on the occasion.

Sl. No .	No. of Events	No. of Students Participated	Individual championship	Overall team championship For Department
1	10 (Men) 8(women)	680	1.Sadhvika Chandra R ECE 2. Prajwal Krishnna MEC	Dept of ECE



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K.S. GROUP OF INSTITUTIONS
K.S. INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)
P.H. Raghuvanahalli, Kanakapura Main Road, Bangalore - 109
Tel: 080-28372224, Fax: 080-28372225, E-mail: info@ksit.edu.in, www.ksit.edu.in



*The Management, Principal, Staff & Students
Solicit your gracious presence for the Inauguration of*

ANNUAL ATHLETIC MEET 2018-19

On Saturday, 16th March 2019, at 9-30 a.m.

Chief Guest
Sri. Rudresh B
Journalist (Senior Producer TV-9)
Kho-Kho Player

Guest of Honour
Miss. Bhavya P
Programmer Analyst Cognizant Technology Solutions
Kabaddi Player (Alumni of KSIT)

Mr. Hemanthkumar R
Q.A Engineer (ITI Limited)
Kabaddi Player (Alumni of KSIT)

Sri. Y Ramachandra Naidu
President, Kamavari Sangham
Will preside over the function

Sri. K Venkatesh Naidu B.E (Mech)
Hon. Secretary, Kamavari Sangham
Will deliver inaugural address

Sri. D Rukmangada B.E, MBA
Treasurer, Kamavari Sangham
Will grace the occasion

Dr. K.V.A. Balaji
Chief Executive Officer
K.S Group of Institutions

Mr. Umesh. S
Physical Education Director
KSIT

Dr. T.V. Govindaraju
Principal / Director
KSIT

Venue: UCPE Ground, Jnana Bharathi Campus, Bangalore University

Managing Committee

Sri. Y. Ramachandra Naidu
President

Sri. T. Ramachandra Naidu
Vice President

Sri. K. Shiva Rao
Vice President

Sri. K. Venkatesh Naidu
Hon. Secretary

Sri. B. Lokanadha Naidu
Joint. Secretary

Sri. R. Leela Shankar Rao
Joint. Secretary

Sri. D. Rukmangada
Treasurer

Sri. L. Krishnamoorthy
Internal Auditor

Sri. M. Yogamurthy
Chairman, Finance Committee

Sri. T. Neerajakshala Naidu
Chairman, Hostel Committee

Sri. N. Krishnama Naidu
Chairman, Building Committee

Sri. D. Jagadish Kumar
Chairman, Hospital Committee

Sri. M. Sudhakar
Chairman, Legal Cell

Sri. P.B. Prakash Kumar
Chairman, Transport Committee

Sri. M.N. Padmanabha
Director

Sri. T. Kumar
Director

Sri. N.M. Krishnamurthy
Director

Sri. A.V. Nagaraj
Director

Sri. M.C. Varadaraja
Director

Advisory Committee

Sri. K. Krishna
Chairman

Sri. K. Subramanyam Naidu
Member

Sri. Y. Ramakrishna
Member

Sri. H. Ramanjaneya
Member

Sri. C. N. Govindaraju
Member

Sri. Prathipati Anjaneyala
Member

Sri. Reddi Veeranna
Member

Sri. Yalamanchilli Vasudeva Rao
Member

Academic Advisory Board

Dr. H. P. Khincha
Chairman

Dr. K. N. Balasubramanya Murthy
Member

Dr. Y. N. Srikanth
Member

Dr. Shyam Vasudeva Rao
Member

Dr. K.V.A. Balaji
Chief Executive Officer



KAMMAVARI SANGHAM (R) 1952
K.S. GROUP OF INSTITUTIONS
K.S. INSTITUTE OF TECHNOLOGY
14, Raghuvanahalli, Kanakapura Main Road, Bangalore-109



Hearty welcome

Annual Athletic Meet 2018-19

Date: 16th March 2019 **Time:** 9.00 am

Venue: UCPE STADIUM, Jnana Bharathi Campus, Bangalore University






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K.S. INSTITUTE OF TECHNOLOGY

14, Raghuvanshalli, Kanakapura Main Road, Bangalore-560109



All the staff & Students are hereby informed that our College Annual Athletic Meet 2018-19 will be held on 16th March 2019, at **UCPE, Ground Jnana Bharathi Bengaluru University**, from 8 am to 4 pm. All the staff & Students are informed to participate & make Athletic Meet a grand success.

List of Events

Sl. No.	MEN	WOMEN	Events for Staff	
01	100 Meters Running	100 Meters Running	100 Meters Running	Men & Women (Above 40 years age category)
02	200 Meters Running	200 Meters Running	100 Meters Running	Men & Women (Below 40 years age category)
03	400 Meters Running	400 Meters Running	Shot Put	Men & Women
04	800 Meters Running	800 Meters Running	Discus Throw	Men & Women
05	1500 Meters Running	4 x 100 Meters Relay	Tug of war	Men & Women (10 members of a team KSIT V/S KSSEM)
06	4 x 100 Meters Relay	Shot Put		
07	Shot Put	Discus Throw		
08	Discus Throw	Long Jump		
09	Long Jump			

NOTE:

1. The inauguration of the athletic meet shall be at 9 am .
2. Interested students should register their names with Physical Education Director
3. For further clarifications contact Physical Education Department..



Cultural Activities:



K.S.INSTITUTE OF TECHNOLOGY, BENGALURU

REPORT ON ANANYA CULTURAL FEST – 2019

Date:1/4/2019

The first meeting was held on 28/9/2018 by cultural committee and sixteen students' coordinators to conduct auditions for college fashion and dance team, the auditions were held for the same on 4/10/2018, the identified faculty members from all departments were invited as judges. A total of 36 students (19 for fashion and 17 for dance) took part in auditions and 26 students (14 for fashion and 12 for dance) were shortlisted based on the marks from the judges. The results were displayed on the college notice board. Subsequently, regular meeting were held to progress and finalize the date for conduction of ANANYA-2019. Finally on 19/3/2018 date for organizing college fest was finalized as 30th March 2019, Saturday, in the meeting with Principal, all department HODs, Cultural committee and student coordinators.

The complete blueprints about the events were designed by the cultural committee members in consultation with students' coordinators and the same was submitted to the principal for approval. The budget requirement was prepared separately by the cultural committee and was submitted to the principal for approval. A sum of around Six Lakh was approved by the higher-ups. To carry on the work a total of eighty students from all departments were identified who worked as coordinators, in creative team, and as volunteers. Sixteen students worked in core committee and fourteen students worked in creative team, both for about a month, and fifty students worked for about one week as volunteers.

"Media" was the theme of Ananya cultural fest 2019 was conducted on 30th March 2019 in the college premises. It was a weeklong programme started from 25th March 2019.

The name Ananya means different which is synonym to different spheres of life like music, sculpture, dance, painting and other art forms. Ananya provides an opportunity to bring out talents and also in developing the personality of the students. It was also about bringing out and celebrating the art and cultural heritage of the country.

The programme was inaugurated by eminent personalities from the field of theater, film industry and Media, Mr. Gaurish Akki, a well-known TV anchor, producer, actor, Ms. Sonu Gowda, a popular multi-lingual film actor, Mr. Kari Subbu, Kannada film producer, theatre and film actor, Mr.

SubramanyaS Hadige, Power TV anchor, Mr.G.D. Naidu, Auditor KammavariSangham, Mr. Ramachandra Naidu, Ex-President KammavariSangham.

The president of KammavariSangham Sri Y.Ramachandra Naidu presided over the function, Hon Secretary SriK.Venkatesh Naidu graced the occasion and other directorsKammavariSangham, also graced the occasion and Principal/Director Dr.T.V.Govindaraju welcomed the gathering.

The main attraction was the film actor Garuda Ram who has enacted as one of the villain in KGF a kannada blockbuster movie.His dialogue delivery from the same movie on the dais evoked a great applause from the cheering crowd.

Students from various departments were felicitated for their outstanding performance at national level competitions like "Smart India Hackathon",organized by MHRD, AICTE, Inter Institutional Inclusive Innovation Center (i4C), and Persistent Systems and "Baja", an intercollegiate design competition run by the Society of Automotive Engineers (SAE). The college magazine was releasedby the dignitaries.

A total of around 24 plus events were organized spread over five days from 10.30 AM to 4.00 PM so as to motivate and facilitate students to participate in events in large number and win cash prizes. Some events like Mr. and Miss KSIT, Gulley Cricket, Treasure hunt, Hogathon, Tug of War, Mehendi, Cooking without Fire, NFS most wanted, Shuttle cock, Rangoli, Face Painting were instant hit and drew more participants and audiences, which were absolutely fun and entertaining.

As a part of the fest, Ethnic day which was filled with lot of fun and frolic was organized on 28th March, 2019, it was formally inaugurated by HODs of all departments. It was a real celebration day, the mood of the students were ecstatic. Staff and Students wearing different ethnic wear walked on the red carpetcheering the crowd. The crowd swayed and danced to the tamateexhilarating music.

On the D-Day after inauguration,the grand finaleof many onstage events like Kannada Anthakshari, Mr. and Miss KSIT, Group/ Solo Dancing/ Singing were conducted and the event winners were adjudged by distinguished judges. The winners were given away the cash prize and certificates. Various other non-competition events like Fashion show, Mad-ads, Beat boxing, songs from staff and students entertained the cheerful crowd. Lunch was arranged for Guests, Management, Staff and Students.


Around 200 plus students representing various departments took part in the college cultural events and played true to the gallery as well as to their delight. The curtain finally fell on ANAYA-20189

with DJ night where the crowd danced to the hilt. ANANYA-2019 will remain in the hearts of students and make them happy.

In the report it is also worth mentioning about college dance and fashion teams:

The college Fashion team won 2nd Prize in the inter college festival organized at Jyothi Institute of Technology, Bengaluru on 22/3/2019 and Vemana Institute of Technology on 23/3/2019 respectively. The team participated at various other inter college festivals, to name few colleges like BIT, SIT, RVCE, RNSIT, SJBIT.

Cultural Coordinator

 11/4/2019
(HARSHAVARDHAN J.R.)


Cultural Committee Members

Prof. Abhishek, Dept. of ME

Prof. Sstish, Dept. of TCE

Prof. Christo Jain, Dept. of EC

Prof. Praveen Jois, Dept of BSH


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

CRITERION 10	Governance, Institutional Support and Financial Resources	120
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10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

10.1. Organization, Governance and Transparency (40)

10.1.1 State the Vision and Mission of the Institute (5)

Vision

- To impart quality technical education with ethical values, employable skills and research to achieve excellence.

Mission

- To attract and retain highly qualified, experienced and committed faculty.
- To create relevant infrastructure.
- Network with industry and premier institutions to encourage emergence of new ideas by providing research & development facilities to strive for academic excellence.
- To inculcate professional and ethical values among young students with employable skills and knowledge acquired to transform the society.

10.1.2 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)

The Institute is run by Kammavari Sangham (R), which is a multi-activity nonprofit oriented voluntary service organization, providing charitable service to the community and society with a firm belief that quality and meaningful education can lay a strong foundation for bringing about economic and social changes to the lives of many in the society.

The Governing Council that is constituted as per the directives of the Sangham and include the current Office bearers of the Management, four members as nominated by the Management, one nominee each from VTU, DTE and AICTE, CEO as special invitee, and Principal as Member Secretary. The Management includes the President, the Secretary and the Treasurer. The Management has the responsibility of running all the institutions under the Sangham on a day to day basis. They are involved in policy decisions and the approvals in all the financial issues.

The institute has constituted an Academic Advisory Board consisting of a Chairman and three eminent members to advice the Management in all the academic matters. The Chief Executive Officer is also the Member Secretary of the Advisory Board and responsible for implementation of the decisions taken by the board and report to the Board.

The Principal / Director is the functional authority for all the academic activities carried out in the institution and achieve the goals. The institute has various departments with Heads of the Department whose roles are multifold. They are responsible for driving the academic as well as non-academic activities in their departments. The HODs are also responsible for the development of both teaching and non-teaching staff in their respective departments.

The Public Relation Officer has got a prominent role in the institution in terms of dealing with stake holders like parents, students etc. He is also responsible for branding of the institution and promoting admissions. The institute has interactions with the industry to provide required training, and creates placement opportunities for students through the Placement and Training Office.

The institution has a well equipped library with Chief - Librarian and supporting staff. The Office and administrative wing has a Senior Manager guiding the different sections and staff. There is a Staff Hand Book that governs all the HR issues and service rules in the institution. The recruitment of the teaching and non teaching staff members are as per the prevailing regulations of the regulatory bodies like AICTE and VTU.

Governing Council

1	Governing council	1.Sri R.Rajagopal Naidu 2.Sri K.Subramanya Naidu 3.Sri.M Rukmangadha Naidu 4.Sri.B.Lokanadha naidu 5.Sri K.Venkatesh Naidu 6.Sri R.Leela Shankar Rao 7.Sri T.Neerajakshulu Naidu 8.Regional Officer(EX-Officio) 9.Dr.T.M.Naidu 10.Dr.Manjunath.B 11.DTE(Ex-Officio) 12.Prof.Ranganath 13.Sri Vishwanatham Peddi 14.Dr.Dilip Kumar.K 15.Dr.K.V.A.Balaji
2		1.Sri R.Rajagopal Naidu 2.Dr.M.Rukmangada Naidu 3.Sri B.Lokanadha Naidu

	Kammavari Sangam Management	4.Sri R.Leela Shankar Rao 5.Sri V.Rajendra Naidu 6.Sri S.Venugopal Naidu 7.Sri T.Neerajakshulu Naidu 8.Sri M.Yogamurthy 9.Sri N.M.Krishnamurthy 10.Sri A.V.Nagaraj 11.Sri N.Krishnama Naidu 12.Sri D.Jagadish Kumar 13.Sri T.N.Manjunath 14.Sri M.Sudhakar 15.Sri G.Ramana Babu 16.Sri G.V.Ramesh 17.V.Ramesh kumar 18.Sri J.M.Chandra Shekar(Babu) 19.Sri P.Prabhakar Naidu
3	Chief Exicutive Officer	Dr.K.V.A.Balaji
4	Academic Advisory Board	1.Dr.H.P Khincha 2.Dr.K.N.Balasubramanya.Murthy 3.Prof.Y.N.Srikant 4.Dr.Shyam Vasudevarao 5.Dr.K.V.A.Balaji
5	Principal/Director	Dr.Dilip Kumar.K
6	Head of the Department	1.Dr.Rekha.B.Venkatapur 2.Dr.P N Sudha 3.Dr.Umashankar M 4.Dr.Chanda V Reddy 5.Dr.Ram P.Rustagi 6.Mr.Sunil Kumar N
7	Chief Librarian	Dr.V.Bharathi
8	Placement and Training officer	Dr.Harish.R
9	Public relationship officer	Dr.Sangappa S B
10	Senior Manager	Mr.Y.V.Kesavan
11	Hostel Warden	Mr.Balakrishna
12	Transport Incharge	Mr.B.Ramana Reddy
13	PED	Mr.Umesh S Gowda

Governing Council (New)

Sl. No	Name	Designation	Profession
1	Sri.R.Rajagopal Naidu	Chairman-President Kammavari Sangham	Business
2	Sri.K.Subramanyam Naidu	Member	Business
3	Sri.M Rukmangada Naidu	Member	Business
4	Sri B Lokanadh Naidu	Member	Business
5	Sri.K.Venkatesh Naidu	Member	Business
6	Sri R Leela shankar Rao	Member	Business
7	Sri T Neerajakshulu Naidu	Member	Business
8	Regional Director, AICTE	Ex-officio member	Regional Director
9	Directorate of Technical Education	Ex-officio member	DTE
10	Dr. T M Naidu	Member	DRDO
11	Dr. Manjunath B	Member- VTU Nominee	Principal (NHCE)
12	Prof. Ranganath	Member	Principal (AACE)
13	Sri. Vishwanatham peddi	Member	Director (Mind Tree)
14	Dr.K.V.A.Balaji	Special invitee	CEO, KSGI
15	Dr.K. Dilip Kumar	Member Secretary	Principal/Director, KSIT

Governing Council (old)

Sl. No	Name	Designation	Profession
1	Sri.Y.Ramachandra Naidu	Chairman-President Kammavari Sangham	Business
2	Directorate of Technical Education	Ex-officio member	DTE
3	Regional Director, AICTE	Ex-officio member	Regional Director
4	Sri.B.Venkat Satish	Member- VTU Nominee	Architect

5	Sri.K.Subramanyam Naidu	Member	Business
6	Sri.R.Rajagopal Naidu	Member	Business
7	Sri.S.R.Naidu	Member	Business
8	Dr.G. Ranganath	Member	Business
9	Sri.K.Venkatesh Naidu	Member	Business
10	Sri.D.Rukmangada	Member	Business
11	Dr.K.V.A.Balaji	Special invitee	CEO, KSGI
12	Dr.T.V.Govindaraju	Member Secretary	Principal/Director, KSIT

Kammavari Sangham Management(NEW)

Sl. No	Name	Designation	Category
1	Sri.RajGopal Naidu	President	Member
2	Dr. M Rukmangada Naidu	Vice President	Member
3	Sri.B.Lokanadha Naidu	Vice President	Member
4	Sri.R.Leela Shankar Rao	Hon. secretary	Member
5	Sri V Rajendra Naidu	Joint Secretary	Member
6	Sri S Venugopal Naidu	Joint Secretary	Member
7	Sri.T.Neerajakshalu Naidu	Treasurer	Member
8	Sri.M.Yogamurthy	Internal Auditor	Member
9	Sri N M Krishna Murthy	Chairman, Finance Committee	Member
10	Sri. A.V.Nagaraj	Chairman, Building Committee	Member
11	Sri.N.Krishnama Naidu	Chairman, Hostel Committee	Member
12	Sri D.Jagadish Kumar	Chairman, Transport Committee	Member
13	Sri T.N. Manjunath	Chairman, Environment Committee	

14	Sri.M.Sudhakar	Chairman, Legal Cell	Member
15	Sri G Ramana Babu	Director	Member
16	Sri G V Ramesh	Director	Member
17	Sri V Ramesh Kumar	Director	Member
18	Sri J M Chandra Shekar	Director	Member
19	Sri P Prabhakar Naidu	Director	Member

Kammavari Sangham Management(old)

Sl. No	Name	Designation	Category
1	Sri.Y.Ramachandra Naidu	President	Member
2	Sri.T.Ramachandra Naidu	Vice President	Member
3	Sri.K.Shiva Rao	Vice President	Member
4	Sri.K.Venkatesh Naidu	Secretary	Member
5	Sri.B.Lokanadha Naidu	Joint Secretary	Member
6	Sri.R.Leela Shankar Rao	Joint Secretary	Member
7	Sri.D.Rukmangada	Treasurer	Member
8	Sri.L.Krishnamurthy	Internal Auditor	Member
9	Sri.M.Yogamurthy	Chairman, Finance Committee	Member
10	Sri.T.Neerajakshalu Naidu	Chairman, Hostel Committee	Member
11	Sri.N.Krishnama Naidu	Chairman, Building Committee	Member
12	Sri D.Jagadish Kumar	Chairman, Hospital Committee	Member
13	Sri.M.Sudhakar	Chairman, Legal Cell	Member

14	Sri. P.B.Prakash Kumar	Chairman, Transport Committee	Member
15	Sri. M.N.Padmanabha	Director	Member
16	Sri. T.Kumar	Director	Member
17	Sri. N.M.Krishnamurthy	Director	Member
18	Sri. A.V.Nagaraj	Director	Member
19	Sri. M.C.Varadaraja	Director	Member

Management Committee Meeting details (few recent meeting samples):

Date of the meeting	Members present
15-02-2020	Sri.Y.Ramachandra Naidu Sri.T.Ramachandra Naidu Sri.K.Subramanyam Naidu Sri.B.Lokanadha Naidu Sri.R.Leela Shankar Rao Sri.R.Rajagopal Naidu Sri.S.R.Naidu Sri.K.Venkatesh Naidu Sri.D.Rukmangada Sri.L.Krishnamurthy Sri.T.Neerajakshalu Naidu Sri.N.Krishnama Naidu Sri D.Jagadish Kumar Sri. A.V.Nagaraj Sri. M.C.Varadaraja
28-02-2019	Sri.Y.Ramachandra Naidu Sri.T.Ramachandra Naidu Sri.B.Lokanadha Naidu Sri.R.Leela Shankar Rao Sri.R.Rajagopal Naidu Sri.S.R.Naidu Sri.K.Venkatesh Naidu Sri.D.Rukmangada Sri.M.Yogamurthy Sri.L.Krishnamurthy Sri.T.Neerajakshalu Naidu Sri.N.Krishnama Naidu Sri D.Jagadish Kumar Sri. A.V.Nagaraj Sri. M.C.Varadaraja

Governing Council Meeting details (Few meeting samples):

Date of the meeting	Members present
05-11-2019	Sri. Y.Ramachandra Naidu Sri.K.Subramanyam Naidu Sri.R.Rajagopal Naidu Sri.S.R.Naidu Sri.K.Venkatesh Naidu Sri.M.Sudhakar Sri. M.N.Padmanabha Sri. A.V.Nagaraj Dr. G Ranganath Sri.D.Rukmangada Sri. P.B.Prakash Kumar Dr.K.V.A.Balaji Dr.T.V.Govindaraju
6-10-2018	Sri. Y.Ramachandra Naidu Sri.B.Venkat Satish Sri.K.Subramanyam Naidu Sri.R.Rajagopal Naidu Sri.S.R.Naidu Sri.K.Venkatesh Naidu Dr.K.V.A.Balaji Dr.T.V.Govindaraju
3-11.2017	Sri. Y.Ramachandra Naidu Sri.K.Subramanyam Naidu Sri.R.Rajagopal Naidu Sri.S.R.Naidu Sri.K.Venkatesh Naidu Sri.D.Rukmangada Dr.T.V.Govindaraju
26-09-2016	Sri. Y.Ramachandra Naidu Sri.K.Subramanyam Naidu Sri.R.Rajagopal Naidu Sri.S.R.Naidu Sri.K.Venkatesh Naidu Sri.D.Rukmangada Dr.T.V.Govindaraju

10.1.3 Decentralization in working and grievance redressal mechanism (10)

Decentralization:

The institution is governed at different levels. The responsibility of the day to day running of the institution is decentralized into the following levels:

1. Governing Council
2. Management
3. Principal
4. Head of the Department
5. Faculty
6. Students

The Governing Council meets as and when required, but at least once in a year to review the progress made and also give a direction to the Management while approving the programs and proposals received from the stakeholders.

The Management after obtaining the approvals for the various programs envisaged, implements the same keeping in view the procedures for such implementation. The Management is vested with the responsibility of taking all the financial decisions and negotiation.

The **Principal/Director** ensures that the college curriculum is academically viable and consistent with college objectives as well as the affiliating University directives. The Principal conducts regular meetings with all the Heads of the departments regarding academic activities, adherence to the university/institute academic calendar, student's progress, placement and training issues, research and extension activities, industry institution interaction, consultancy assignments, alumni interaction etc.

The primary role of the **Head of the Department** is to provide strong leadership. HOD will be responsible for planning academic strategy for the development of the department in line with the strategic plans of the institution. The HOD drives the department on a day to day basis and is responsible for work allotment, Time Table, complying with the academic calendar, teaching, supervising the other staff and assessment.

Faculty are given representation in different committees/cells and required to direct different programs. They are encouraged to develop administration skills by being in control of different scholastic, co-curricular, and extracurricular exercises. They act as a bridge between the administration and students.

Students are the main stakeholders who are encouraged to play an active role in the management through representation as class representatives and as members of various committees.

Anti-Sexual Harassment Committee, Grievance Redressal Committee, Anti Ragging Committee are some of the committees that exists in the college. The names of committee members with their contact numbers are displayed on notice boards/website for the information of stake holders. If any grievance is reported, it is addressed to the convener of the committee who will take up the matter with the Principal and follow up the matter until proper action is taken. Following are the list of various committees.

ASH COMMITTEE COMPOSITION:

Sl.No	Name of the Member	Designation	Category
1	Dr. Chanda.V.Reddy	Professor & Head	Chief.Coordinator
2	Ms. Nirmala L	Asst.Professor,MED Dept	Dept.Coordinator
3	Ms. SreeSudha N	Asst.Professor,MED Dept	Dept.Coordinator
4	Ms. Sangeetha V	Asst.Professor,ECE Dept	Dept.Coordinator
5	Ms. Vijaylaxmi Mekali	Asst.Professor,CSE Dept	Dept.Coordinator
6	Ms, Rekha N	Asso.Professor,TCE Dept	Dept.Coordinator
7	Sridevi. B.R	Asst.Professor,BS&H Dept	Dept.Coordinator
8	Ms. M. Vasantha	Asst.Librarian, Librery Dept	Coordinator
9	Harini B H	Student, CSE	Student Coordinator
10	KirthikaJagannath	Student, CSE	Student Coordinator
11	Pavithra K R	Student, CSE	Student Coordinator
12	Monika K C	Student, CSE	Student Coordinator
13	Rithana N Raj	Student, CSE	Student Coordinator
14	Aakriti	Student, CSE	Student Coordinator
15	Likitha	Student, ECE	Student Coordinator
16	Sadhvika Chandra R	Student, ECE	Student Coordinator
17	Shivani K	Student, ECE	Student Coordinator
18	RishikaRavi	Student, ECE	Student Coordinator
19	Prakruthi.S.H	Student, ECE	Student Coordinator
20	Prathana Amar	Student, ME	Student Coordinator

21	Pavithra.B	Student, ME	Student Coordinator
22	D.Sowjanya	Student, ME	Student Coordinator
23	Tanu shree.c	Student, ME	Student Coordinator
24	Vasunidhi .S	Student, ME	Student Coordinator
25	Harshitha H	Student, TCE	Student Coordinator
26	Ritu Parna A	Student, TCE	Student Coordinator
27	Gowthami V	Student, TCE	Student Coordinator
28	K.Prathibha	Student, TCE	Student Coordinator
29	Sai Shirisha S B	Student, BS&H	Student Coordinator
30	Smirithi Shekar	Student, BS&H	Student Coordinator
31	Monisha B K,	Student, BS&H	Student Coordinator
32	Yashaswini N	Student, BS&H	Student Coordinator
33	Jagruthi pai	Student, BS&H	Student Coordinator
34	Vaishnavi	Student, TCE	Student Coordinator

GRIEVANCE COMMITTEE COMPOSITION:

Sl.No	Name of the Member	Designation	Category
1	Mr. Sanjoy Das	Asst.Professor, CSE Dept	Chief.Coordinator
2	Mr. Parashuram. A . Kutakanakeri	Asst.Professor,MED Dept	Dept.Coordinator
3	Ms. Nithya Kumari	Asst.Professor,ECE Dept	Dept.Coordinator
4	Ms. Veda. B	Asst.Professor,TCE Dept	Dept.Coordinator
5	Ms. Vidhya R	Asst.Professor,TCE Dept	Dept.Coordinator
6	Ms. Neelam Patil Radhika	Asst.Professor,BS&H Dept	Dept.Coordinator
7	Mr. G.Kiran Kumar	Technician,Library Dept	Coordinator
8	Mr. Umesh. S	PED, Dept	Coordinator
9	Ashika H N	Student, CSE	Student Coordinator
10	Sourabh Kamble	Student, CSE	Student Coordinator

11	Anushree J	Student, CSE	Student Coordinator
12	Shantanu Kumar	Student, CSE	Student Coordinator
13	Karthik K	Student, CSE	Student Coordinator
14	Shreyas D R	Student, ECE	Student Coordinator
15	Ritu Patil	Student, ECE	Student Coordinator
16	Shreyaswini	Student, ECE	Student Coordinator
17	Bhavan Kashyap	Student, ECE	Student Coordinator
18	Prerana A M	Student, ME	Student Coordinator
19	Vasunidhi S	Student, ME	Student Coordinator
20	Vinay V P	Student, ME	Student Coordinator
21	Vaishnavi S	Student, TCE	Student Coordinator
22	Sai Spoorthi	Student, TCE	Student Coordinator
23	Madhushree T P	Student, TCE	Student Coordinator
24	Aishwarya R K	Student, TCE	Student Coordinator

ANTI-RAGGING COMMITTEE COMPOSITION:

Sl.No	Name of the Member	Designation	Category
1	Dr. Girish. T. R	Assoc.Professor,MED Dept	Chief.Coordinator
2	Dr.Surekha	Professor,ECE Dept	Dept.Coordinator
3	Dr. Sangappa	Professor,ECE Dept	Dept.Coordinator
4	Mr. K. Venkata Rao	Asst.Professor,CSE Dept	Dept.Coordinator
5	Mr. Harshavardhan. J.R	Asst.Professor,CSE Dept	Dept.Coordinator
6	Dr. Manju V.C, TCE	P rofessor,TCE Dept	Dept.Coordinator
7	Ms. Neelam Patil Radhika	Asst.Professor,BS&H Dept	Dept.Coordinator
8	Ms. M. Vasantha	Ass.Librarian,Library Dept	Coordinator
9	Mr. Umesh S	PED,Dept	Coordinator

10	Mr. A.Balakrishna Naidu	Warden, Boy's Hostel	Coordinator
11	Darshan G	Student, ME	Student Coordinator
12	Sirisha M	Student, ME	Student Coordinator

10.1.4 Delegation of financial powers (10)

Financial powers delegated to Principal and HOD's:

Designation	Facility	Amount
Principal	Imprest amount	Upto 10000/- through cash voucher
HOD's	Imprest amount	Upto 5000/- through cash voucher

Financial powers delegated to the relevant in-charges:

Dept.	Faculty	Activity Type	Bank Account No.	Bank Name
CSE	Principal & Mrs.Deepa .S.R	CSI account	149010100059322	Andhra Bank
CSE	Principal & Mr.Pradeep Kumar.G.H	Smart India Hackathon	149010100070875	Andhra Bank
ECE	Principal & Dr.Santosh Kumar.B.R	IEEE Account	149010100054576	Andhra Bank
MECH	Principal & HOD	SAE Account	149010100038709	Andhra Bank
TCE	Principal & Dr.Chanada.V.Reddy	IETE Account	149010100074011	Andhra Bank

10.1.5 Transparency and availability of correct/unambiguous information in public domain (5)

(Information on policies, rules, processes and dissemination of this information to stakeholders is to be made available on the web site)

Code of Conduct: http://ksit.ac.in/img/about/code_of_conduct.pdf

KSGI Staff Handbook: http://ksit.ac.in/img/about/staff_handbook_2018.pdf

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30)

Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years.

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3

For 2020-21

Total Income: 1572.08 (In Lakhs)				Actual expenditure : (In Lakhs) 981.75			Total No. of students: 1393
Fee (Rupees in Lakhs)	Govt.	Grant(s) (Lakhs)	Other Sources (specify)	Recurring including Salaries	Non- recurring	Special Project s/Any other, specify	Expenditure per student
1514.51	NIL	ISTE-1.87	Academic receipts, Bank Interest-55.7	972.12	9.63		0.705

For 2019-20

Total Income: 1725.49 (In Lakhs)				Actual expenditure : (In Lakhs) 1284.05			Total No. of students: 1349
Fee (Rupees in Lakhs)	Govt.	Grant(s) (Lakhs)	Other Sources (specify)	Recurring including Salaries	Non- recurring	Special Project s/Any other, specify	Expenditure per student
1679.77	NIL	ISTE-1.56	Academic receipts, Bank Interest-44.16	1125.45	158.57		0.95

For 2018-19

Total Income: 1710.13 (In Lakhs)				Actual expenditure :1513.72 (In Lakhs)			Total No. of students: 1474
Fee (Rupees in Lakhs)	Govt.	Grant(s) In Lakhs	Other Sources (specify) In Lakhs	Recurring including Salaries In Lakhs	Non-recurring	Special Projects/Any other, specify	Expenditure per student
1661.02	NIL	ISTE/KESC ST= 0.63	FD Interest=48.48	1108.56	405.15	NIL	1.02

For 2017-18

Total Income: 1925.06 (In Lakhs)				Actual expenditure: 1483.36 (In Lakhs)			Total No. of students: 1550
Fee (Rupees in Lakhs)	Govt.	Grant(s)	Other Sources (specify)	Recurring including Salaries	Non-recurring	Special Projects/Any other, specify	Expenditure per student
1875.27	NIL	3.09	Bank interest on F.Ds-46.70	982.43	500.92		0.95

For 2016-17

Total Income: 1749.42 (In Lakhs)				Actual expenditure: 1553.51			Total No. of students: 1586
Fee (Rupees in Lakhs)	Govt.	Grant(s)	Other Sources (specify)	Recurring including Salaries	Non- recurrin g	Special Project s/Any other, specify	Expenditure per student
1698.24	NIL	2.94	Bank interest on F.Ds-48.24	993.14	560.34	NIL	0.97

Items	Budg eted in 2020 2021	Actual expen ses in 2020- 2021	Budge ted in 2019- 2020	Actual expen ses in 2019- 2020	Budgete d in 2018- 2019	Actual Expens es 2018- 2019	Budg eted in 2017 2018	Actual Expens es 2017 2018	Budg eted in 2016 2017	Actua l Expe nses 2016 2017
Infrast ructur e Built- Up	2.85	.385	5.0	131.5	400.60	349.82	300. 3	440.0 5	505. 056	539. 49
Librar y	13.7	12.01	13.80	12.54	14.0	12.60	13.2	11.64	10.5	8.23 6
Labor atory equip ment	62.5 7	8.81	74.40	12.21	63.38	37.06	62.6 5	46.26	49.5 8	6.65
Labor atory consu mable s	5.51	4.08	3.75	7.9	3.98	8.06	2.56 5	4.20	3.39	7.06
Teachi ng and non-	950	769.9 0	936.0	853.7	836.00	847.32	836.	749.1	736	722

teaching staff salary										
Maintenance and spares	25.43	22.95	41.76	36.65	14.4	48.86	28.48	17.76	13.62	35.045
R&D	2.02	.53	5.0	2.23	5.0	5.67	5.0	2.97	5.0	5.971
Training and Travel	22.23	8.8	30.26	24.68	38.65	31.97	22.895	13.47	32.84	35.47
Miscellaneous expenses *	233.02	36.35	179.80	62.81	142.45	69.31	139.54	72.89	108.48	57.05
Others	120.65	117.83	139.51	139.70	130.95	103.04	145.95	124.94	166.25	135.32
Total	1437.98	981.75	1429.27	1284.05	1649.41	1513.72	1556.57	1483.35	1630.71	1553.51

10.2.1 Adequacy of budget allocation (10)

(The institution needs to justify that the budget allocated during assessment years was adequate)

Financial year	Requested budget (in Lakhs)	Approved budget (in Lakhs)	Adequate / Not adequate
2020-21	1437.98	1200.00	Adequate
2019-20	1429.27	1400.00	Adequate
2018-19	1649.41	1600.00	Adequate
2017-18	1556.57	1550.00	Adequate
2016-17	1630.71	1600.00	Adequate

Allocated budget for the assessment years is found adequate in meeting the academic and other requirements of all the branches in the institution.

10.2.2 Utilization of allocated funds (15)

(The institution needs to state how the budget was utilized during assessment years)

Financial year	Approved budget (in Lakhs)	Actual expenditure (in Lakhs)	Percentage of utilization	Justification
2020-21	1200	981.75	81.8%	Budget has been utilized within the sanctioned fund meeting the requirement by all the departments and institutional requirement
2019-20	1400.00	1284.05	91.71%	Budget has been utilized within the sanctioned fund meeting the requirement by all the departments and institutional requirement
2018-19	1600.00	1513.7	94.61%	Budget has been utilized within the sanctioned fund meeting the requirement by all the departments and institutional requirement
2017-18	1550.00	1483.35	95.7%	Budget has been utilized within the sanctioned fund meeting the requirement by all the departments and institutional requirement
2016-17	1600.00	1553.51	94.59%	Budget has been utilized within the sanctioned fund meeting the requirement by all the departments and institutional requirement

Expenditure made against budget during the assessment years was adequate and departmental requirements are fulfilled.

10.2.3 Availability of the audited statements on the institute's website (5)

(The institution needs to make audited statements available on its website)

Our institution is a private self financing and not received grant from state Government / Central Government / any other sources. All expenditure is managed from the student fees only. However every year the institution will be audited by an auditor and audited statements are available on website and will be made available to the concerned authorities.

Audit statement on the website:

http://ksit.ac.in/img/about/audit_statement_2019-2020.pdf

10.3 Program Specific Budget Allocation, Utilization (30)

Total Budget at program level: For CFY, CFYm1, CFYm2 & CFYm3

Total Budget at program level: For CFY 2020-21, CFYm1 2019-20, CFYm2 2018-19 is shown below.



K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bangalore-560109

Date: 22/01/2020

KSIT/2020-21/No:

DEPARTMENT BUDGET

NAME OF THE DEPARTMENT: MECHANICAL ENGINEERING

BUDGET PERIOD : 2020-21

Budget Head	Amount in INR	Remarks / Justification
<u>Non – Recurring* Expenditure:</u>		
Purchase of new Lab Equipment:	-----	

Furniture	-----	
Computers and support systems	-----	
Software	15,000	Emergency
Large Repairs required (>10k)	-----	
R&D Procurement	-----	
Miscellaneous	10,000	

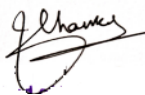
<u>Recurring Expenditure:*</u>		
Departmental Consumables	1,25,000	All lab consumables
R&D Consumables	5,000	C.Ds, material
Stationery	15,000	Papers, files, clips etc.
Participation FDP / Conference/ Workshops/ Seminar/Training (Registration):	24,000	16x1500 (1500/- Per Faculty)
Maintenance/Spares (Class rooms,Staffrooms,Laboratories)	50,000	Maintenance of labs Maintenance of class rooms,
Guest Lectures/Tech-talks:	9000	3*1*1* 3000 (Rs 3000 per talk)

1. Remuneration&TA/DA to Resource Persons Industrial /Educational Visits/Travel	16,000	3*2*1000=6000 Industrial visits for students + Travel allowances for faculty to participate in events like BAJA etc.
Conduction of FDP/workshops/Conference/FDP/ Training	80,000 +10,000 =90,000	2 FDPs/Workshops per year (1FDP/Workshop-40,000) Training for Nonteaching staff - 10,000)
Club/forum activities	24,000	Emanation & SAE club activities
Project Exhibition/ Project Participation	1,24,000	Development of product and participation in competitions
Printer maintenance 1. Refilling of Printer Cartridges 2. Replacement of drums 3. Replacement of Cartridges	9000 7000 20 ,000 4000	
Miscellaneous	10,000	
TOTAL	5,37,000	

*Append Working Sheets where ever necessary

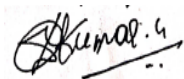
TOTAL AMOUNT SOUGHT :5,37,000/-

Head of the department

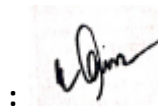


TOTAL AMOUNT RECOMMENDED : 5,30,000/-

Principal :



AAB/CEO

: 



K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bangalore-560109

Date: 22/05/2019

KSIT/2019-20/No:

DEPARTMENT BUDGET

NAME OF THE DEPARTMENT: MECHANICAL ENGINEERING

PERIOD : 2019-20

Budget Head	Amount in INR (Budget)	Remarks / Justification
<u>Non – Recurring*</u> <u>Expenditure:</u>		
Purchase of new Lab Equipment:	12,000+4,000 =16,000	
Furniture	-----	
Computers and support systems	-----	
Software	-----	
Large Repairs required (>10k)	12,000	
R&D Procurement& Fee	1,20,000	

Miscellaneous	-----	
<u>Recurring Expenditure:*</u>		
Departmental Consumables	1,20,000	All lab consumables
R&D Consumables	5,000	Papers, files, clips etc.
Stationery	15,000	Paid Rs 3000 to twofaculty.
Participation FDP / Conference/ Workshops/ Seminar/Training (Registration):	30,000	
Maintenance/Spares (Class rooms,Staffrooms,Laboratories)	50,000	Maintenance of labs
Guest Lectures/Tech-talks:		
1. Remuneration &TA/DA to Resource Persons	9,000	
Industrial /Educational Visits/Travel	13,000	
Conduction of FDP/workshops/Conference/FDP/Training	80,000	3 days FDP conducted on24/07/19-26/07/19.
		IIF Chapter inauguration & Technical talk.


Club/forum activities	20,000	Final year students project exhibition on 20/05/19
Project Exhibition/ Project Participation	30,000	Refilling of Cartridges, replacement of drums, Replacement of Cartridges.
Printer maintenance <ul style="list-style-type: none"> 1. Refilling of Printer Cartridges 2. Replacement of drums 3. Replacement of Cartridges 	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> 7000 5000 3000 </div> <div style="font-size: 2em; margin-right: 10px;">}</div> <div>15000</div> </div>	Imprest amount given to HOD.
Small Repairs(<5k)	5000	
Miscellaneous	12,000	
TOTAL	5,52,000	

***Append Working Sheets where ever necessary**

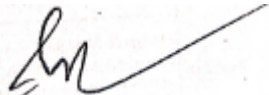
TOTAL AMOUNT SOUGHT : 5,52,000/-

Head of the department

:



TOTAL AMOUNT RECOMMENDED : 5,25,000/-

Principal : 

AAB/CEO : 

TOTAL AMOUNT SANCTIONED :



K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bangalore-560109

Date: 10/04/18

KSIT/2018-19/No:

DEPARTMENT BUDGET

NAME OF THE DEPARTMENT: MECHANICAL ENGINEERING

PERIOD : 2018-19

Budget Head	Amount in INR	Remarks / Justification
<u>Non – Recurring* Expenditure:</u>		
Purchase of new Lab Equipment:	1,00,000	Lab equipment for Machine shop & EC lab
Furniture	-----	
Computers and support systems	1,50,000	Total is 4 projectors ,3 desktops, 2printers.
Software	4,50,000	Ansys software
Large Repairs required (>10k)	-----	
R&D Procurement& Fee		

Miscellaneous	2,50,000 -----	Development of product and participation in competitions
<u>Recurring Expenditure:*</u>		
Departmental Consumables	80,000	All lab consumables
R&D Consumables	5,000	C.Ds, indirect material
Stationery	15,000	Papers, files, clips etc.
Participation FDP / Conference/ Workshops/ Seminar/Training (Registration):	40,000	Rs2000 for faculty (20*2000)per year
Maintenance/Spares (Class rooms,Staffrooms,Laboratories ,R&D)	30,000+20000 =50,000	Maintenance of labs
Guest Lectures/Tech-talks: 2. Remuneration&TA/ DA to Resource Persons	36,000	Institute has provided the transportation and mementos to resource persons.
Industrial /Educational Visits/Travel	6000 +20,000 =26,000	Institute has provided the transportation for industrial visits. Travel allowances for faculty to participate in the BAJA - 2019.
Conduction of FDP/workshops/Conference/FDP/Training	1,00,000 +10,000=1,10,000	All the departments together conducted the two FDPs at institute level.(Details are in office)
Club/forum activities	10,000	

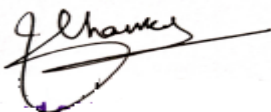
Project Exhibition/ Project Participation	20,000	Final year students project exhibition.
Printer maintenance		
4. Refilling of Printer Cartridges		
5. Replacement of drums	3000	
6. Replacement of Cartridges	1000	
	3000	7,000
Small Repairs(<5k)	5000	Small repairs (Emergency)
Miscellaneous	10,000	
TOTAL	13,64,000	

***Append Working Sheets where ever necessary**

TOTAL AMOUNT SOUGHT : 13,64,000/-

Head of the department

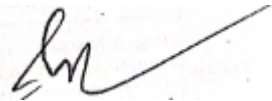
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TOTAL AMOUNT RECOMMENDED :13,00,000/-

Principal

:



AAB/CEO

:



TOTAL AMOUNT SANCTIONED

:-

Total Marks 20.00

Institute Marks: 10.00

Availability of relevant learning resources including e-resources and Digital Library Zero Deficiency Report: Received for all the assessment years.

All India Council for Technical Education
 (An Autonomous Organization, Under Ministry of HRD, Govt. of India)
 Nelson Mandela Marg,Vasant Kunj, New Delhi-110067 Website: <https://www.aicte-india.org>

APPROVAL PROCESS 2020-21
Application Deficiency Report

DEFICIENCY REPORT AS PER APPLIED INTAKE (Applicable for Existing Institutions only)

Regional Office	South-West	Overall Deficiency of Institution:	No
Application ID	1-7007431574	Permanent ID	1-4653721
Name of the Institution	K.S.Institute Of Technology	Address	#14,Raguvanahalli, Kanakapura Main Road,Bangalore - 560 062.
City/Village	Bangalore	District	Bangalore Urban
State	Karnataka	PIN	560062

Director/Principal Details

Designation	Name	Appointment Type	Qualification	PhD	Qualified as per AICTE Norms (YES/NO)
Director/Principal	Govindaraju T.V	Regular	B.E, M.E,	Yes	Yes

Other Details

Sr. No.	Particulars	Status Provided by the Institution	Deficiency
1.	List of Faculty Member and Data Uploaded on the Institution Web Portal	Yes	No
2.	Are all Approved Teaching Faculty Member being Paid as per Present Pay Scale/Commission?	Yes	No
3.	Whether Institution Is Operating from Permanent Site?	Yes	No
4.	Fee to be Charged, Reservation Policy, Admission Policy and Document Retention Policy are Uploaded In Institution's Website?	Yes	No
5.	Courses/Approved Intake Displayed at the Entrance of the Institution?	Yes	No

Anti-Ragging Related Deficiency Status

Sr. No.	Particulars	Status Provided by the Institution	Deficiency
1.	Constitution of Anti-Ragging Committee	Yes	No
2.	Constitution of Anti-Ragging Squad	Yes	No
3.	Undertaking Obtained from all Students	Yes	No
4.	Appointment of Counselors	Yes	No
5.	Undertaking Obtained from Parents of all the Students	Yes	No
6.	Undertaking Obtained from Students Staying In Hostel	Yes	No
7.	Undertaking Obtained from Parents of Students Staying In Hostel	Yes	No

Ombudsman Related Deficiency Status

Sr. No.	Particulars	Status Provided by the Institution	Deficiency
1.	Grievance Committee	Yes	No

Institution Level Faculty Member

Sr. No.	Particulars	Actual No.	Required No. as per CI	Deficiency
1.	Total Faculty(UG+PG+Diploma)	113	113	No

Application Deficiency Report



Application Status: **Submitted**
Application Sub-Status: **Payment Received**

Report Generated on :-09/03/2020

<u>Administrative Area</u>				
Sr. No.	Particulars	Actual Room Area (Sq.m.)	Expected Room Area (Sq.m.)	Deficiency
1.	Board Room	48	20	No
2.	Department Offices/Cabin for Head of Dept	231	100	No
3.	Central Store	83	30	No
4.	Exam Control Office	112	30	No
5.	Housekeeping	14	10	No
6.	Maintenance	40	10	No
7.	Office All Inclusive	215	150	No
8.	Placement Office	162	30	No
9.	Principal Directors Office	65	30	No
10.	Security	10	10	No
TOTAL		980.00	420.00	

<u>Amenities Area</u>				
Sr. No.	Particulars	Actual Room Area (Sq. m.)	Expected Room Area (Sq. m.)	Deficiency
1.	Boys Common Room	101	75	No
2.	Cafeteria	305.25	150	No
3.	First aid cum Sick Room	83	10	No
4.	Girls Common Room	100	75	No
5.	Stationery Store	63	10	No
TOTAL		652.25	320.00	

<u>Computational Facilities</u>				
Sr. No.	Particulars	Available	Required	Deficiency
1.	Internet Bandwidth	50	48	No
2.	Printers	41	16	No
3.	A1 size Color Printers	0	0	No
4.	Number of PCs in Language lab	20	20	No
5.	Legal Application S/W	27	20	No
6.	Legal System S/W	10	3	No
7.	PCs to Student ratio	565	307	No

<u>Library Facilities</u>				
Sr. No.	Particulars	Available	Required	Deficiency
1.	Volumes	58956	18100	No
2.	Titles	28286	4000	No
3.	Journals	5721	60	No
4.	Library Management Software	1	1	No
5.	Reading Room Seating Capacity	200	150	No
6.	MultimediaPC	25	10	No

2

Date of Signature(dd/mm/yyyy)

Seal of Institution

Name & Signature of Director/Principal



APPROVAL PROCESS 2019-20

Application Deficiency Report

DEFICIENCY REPORT AS PER CURRENT INTAKE (Applicable for Existing Institutes only)

Application Id	1-4261889288	Regional Office	South-West
Name of the Institute	K.S.INSTITUTE OF TECHNOLOGY	Permanent Id	1-4653721
City/Village	BANGALORE	Address	#14,RAGUVANAHALLI, KANAKAPURA MAIN ROAD,BANGALORE - 560 052.
State	Karnataka	District	BANGALORE URBAN
		Pin	560052

Overall Deficiency of Institute: **No**

Designation	Name	Appointment Type	Qualification	PhD	Qualified as per AICTE norms (YES/NO)
Principal/Direct or	GOVINDARAJU T.V	Regular	B.E, M.E,	Yes	YES

Other Details

Sr. No.	Details of Requirement	Status provided by the Institute	Deficiency
1	List of faculty and data uploaded on the Institute web portal	Yes	No
2	Are all approved teaching faculty being paid as per VI pay commission?	Yes	No
3	Whether Institute is operating from Permanent Site/ Temporary Site?	Permanent Site	No
4	Fees to be charged, Reservation policy, Admission policy and Document retention policy are uploaded In Institute's Website?	Yes	No
5	Courses/Approved Intake displayed at the entrance of the Institute?	Yes	No

Anti-Ragging Related Deficiency Status

Sr. No.	Details of Requirement	Status provided by the Institute	Deficiency
1	Constitution of Anti-Ragging Committee	Yes	No
2	Constitution of Anti-Ragging Squad	Yes	No
3	Undertaking obtained from all Students	Yes	No
4	Appointment of Counselors	Yes	No
5	Undertaking obtained from parents of all the students	Yes	No
6	Undertaking obtained from students staying in Hostel	Yes	No
7	Undertaking obtained from parents of students staying in Hostel	Yes	No

Ombudsman Related Deficiency Status

Sr. No.	Details of Requirement	Status provided by the Institute	Deficiency
1	Grievance Committee	Yes	No

Total Number of Students in Institute

(I)	No. of Students UG	1680
(II)	No. of Students PG	144
(III)	No. of Students DIPLOMA	0
	Total Students (CI) (UG+PG+DIPLOMA)	1824

Faculty

Institute Level Faculty

Type	Actual No.	Required No. as per CI	Deficiency
Total Faculty(UG+PG+Diploma)	99	95	No
TOTAL	99.00	95.00	

Administrative Area

Type	Actual Room Area (Sq.m.)	Expected Room Area (Sq.m.)	Deficiency
Principal / Director Office	65	30	No
Board Room	48	20	No
Office All Inclusive	215	150	No
Department Offices/Cabin for Head of Dept	231	80	No
Central Store	83	30	No
Maintenance	40	10	No

Date of Signature(dd/mm/yyyy)

Seal of Institute

Name & Signature of Director/Principal

Application Deficiency Report



Application Status: **Submitted**
Application Sub-Status: **Payment Received**

Report Generated on : 20/02/2019

Security	10	10	No
Housekeeping	14	10	No
Pantry for Staff/Faculty	17	10	No
Exam Control Office	112	30	No
Training Placement Office	162	30	No
TOTAL	997.00	410.00	

Amenities Area

Type	Actual Room Area (Sq. m.)	Expected Room Area (Sq. m.)	Deficiency
Boys Common Room	101	75	No
Girls Common Room	100	75	No
Cafeteria	305.25	150	No
Stationery Store	63	10	No
First aid cum Sick Room	83	10	No
TOTAL	652.25	320.00	

Computational Facilities

Type	Available	Required	Deficiency
Internet Bandwidth	50	48	No
Printers	41	16	No
A1 size Color Printers	0	0	No
Number of PCs in Language lab	20	20	No
Legal Application S/W	25	20	No
Legal System S/W	9	3	No
PCs to Student ratio	594	312	No
TOTAL	739.00	419.00	

Library Facilities

Type	Available	Required	Deficiency
Volumes	49885	18800	No
e-Books Volumes	550	150	No
Titles	19479	4150	No
e-Books Titles	550	525	No
Journals	6178	60	No
Library Management Software	1	1	No
Reading Room Seating Capacity	200	150	No
MultiMediaPC	25	10	No
TOTAL	76868.00	23846.00	

Instructional Area-Common Facilities

Type	Available	Required	Deficiency
Computer Center	317	150	No
Library & Reading Room	937	460	No
Language Laboratory	100	66	No
TOTAL	1354.00	676.00	

Land Area Details

Type	Available	Required	Deficiency
Total Area of Land	4.34	0	No
Maximum number of Pieces	1	1	No
Minimum per Piece of Area	4.34	0	No
TOTAL	9.68	1.00	

ENGINEERING AND TECHNOLOGY / Existing Programme

Type	Level	Actual Room Area (Sq.m.)	Expected Room Area (Sq.m.)	Deficiency
Class Room-Tutorial Room	UNDER GRADUATE	1809	1584	No
Additional Workshop/Labs	UG/PG	446	200	No
Class Rooms - PG	POST GRADUATE	738	165	No
Laboratories-All	UG/PG	2919	2376	No

Date of Signature(dd/mm/yyyy)

Seal of Institute

Name & Signature of Director/Principal

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All India Council for Technical Education

(An Autonomous Organization, Under Ministry of HRD, Govt. of India)



Nelson Mandela Marg, Vasant Kunj, New Delhi-110067 PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 <https://www.alcte-india.org>

APPROVAL PROCESS 2018-19

Application Deficiency Report

DEFICIENCY REPORT AS PER CURRENT INTAKE (Applicable for Existing Institutes only)

Regional Office		South-West	
Application Id	1-3515091279	Permanent Id	1-4653721
Name of the Institute	K.S. INSTITUTE OF TECHNOLOGY	Address	#14, RAGUVANAHALLI, KANAKAPURA MAIN ROAD, BANGALORE - 560 062.
City/Village	BANGALORE	District	BANGALORE URBAN
State	Karnataka	Pin	560062

Overall Deficiency of Institute: No

Designation	Name	Appointment Type	Qualification	PhD
Principal/Director	GOVINDARAJU T.V	Regular	B.E, M.E,	Yes

Other Details

Sr. No.	Details of Requirement	Status provided by the Institute	Deficiency
1	List of faculty and data uploaded on the Institute web portal	Yes	No
2	Are all approved teaching faculty being paid as per VI pay commission?	Yes	No
3	Whether Institute is operating from Permanent Site/ Temporary Site?	Permanent Site	No
4	Fees to be charged, Reservation policy, Admission policy and Document retention policy are uploaded in Institute's Website?	Yes	No
5	Courses/Approved Intake displayed at the entrance of the Institute?	Yes	No

Anti-Ragging Related Deficiency Status

Sr. No.	Details of Requirement	Status provided by the Institute	Deficiency
1	Constitution of Anti-Ragging Committee	Yes	No
2	Constitution of Anti-Ragging Squad	Yes	No
3	Undertaking obtained from all Students	Yes	No
4	Appointment of Counselors	Yes	No
5	Undertaking obtained from parents of all the students	Yes	No
6	Undertaking obtained from students staying in Hostel	Yes	No
7	Undertaking obtained from parents of students staying in Hostel	Yes	No

Ombudsman Related Deficiency Status

Sr. No.	Details of Requirement	Status provided by the Institute	Deficiency
1	Grievance Committee	Yes	No

Total Number of Students in Institute

(I)	No. of Students UG	1680
(II)	No. of Students PG	144
(III)	No. of Students DIPLOMA	0
Total Students (CI) (UG+PG+DIPLOMA)		1824

Faculty

Institute Level Faculty

Type	Actual No.	Required No. as per CI	Deficiency
Total Faculty (UG+PG+Diploma)	102	96	No

Administrative Area

Type	Actual Room Area (Sq.m.)	Expected Room Area (Sq.m.)	Deficiency
Principal / Director Office	65	30	No
Board Room	48	20	No
Office All Inclusive	215	150	No
Department Offices/Cabin for Head of Dept	231	80	No
Central Store	83	30	No
Maintenance	40	10	No
Security	10	10	No
Housekeeping	14	10	No
Pantry for Staff/Faculty	17	10	No
Exam Control Office	112	30	No
Training Placement Office	162	30	No

Amenities Area

Type	Actual Room Area (Sq. m.)	Expected Room Area (Sq. m.)	Deficiency
------	---------------------------	-----------------------------	------------

Application Deficiency Report



Application Status: **Submitted**
Application Sub-Status: **Payment Received**

Report Generated on :-07/02/2018

Boys Common Room	101	75	No
Girls Common Room	100	75	No
Cafeteria	305.25	150	No
Stationery Store	63	10	No
First aid cum Sick Room	83	10	No

Computational Facilities

Type	Available	Required	Deficiency
Internet Bandwidth	48	32	No
Printers	38	16	No
A1 size Color Printers	1	0	No
Legal Application S/W	25	20	No
Legal System S/W	9	3	No
PCs to Student ratio	630	316	No



Library Facilities

Type	Available	Required	Deficiency
Volumes	41755	20300	No
Titles	6019	3700	No
National Journals	39	39	No
Library Management Software	1	1	No
Reading Room Capacity	200	150	No
MultiMediaPC	25	10	No

Instructional Area-Common Facilities

Type	Available	Required	Deficiency
Computer Center	317	150	No
Library & Reading Room	937	460	No
Language Laboratory	100	66	No

Land Area Details

Type	Available	Required	Deficiency
Total Area of Land	4.34	0	No
Maximum number of Pieces	1	3	No
Minimum per Piece of Area	4.34	0	No

ENGINEERING AND TECHNOLOGY / Existing Programme

Type	Level	Actual Room Area (Sqm.)	Expected Room Area (Sqm.)	Deficiency
Class Room-Tutorial Room	UNDER GRADUATE	1809	1584	No
Additional Workshop/Labs	UG/PG	446	200	No
Class Rooms - PG	POST GRADUATE	738	99	No
Laboratories-All	UG/PG	2919	2430	No
Workshops - Basic	UG/PG	200	200	No
Drawing Halls	UG/PG	148	132	No
Seminar Hall	UG/PG	764	264	No

Other Facilities

Sr. No.	Type	Availability	Deficiency
1	All Weather Approach (Motorised Road)	Yes	No
2	Barrier free Environment	Yes	No
3	Electric Supply	Yes	No
4	General Insurance	Yes	No
5	Institution Web Site	Yes	No
6	Standalone Language Laboratory	Yes	No
7	Medical & Counseling	Yes	No
8	Notice Boards	Yes	No
9	Potable Water Supply	Yes	No
10	Safety Provisions	Yes	No
11	Sewage Disposal System	Yes	No
12	Telephone & FAX	Yes	No

Date of Signature(dd/mm/yyyy)

Seal of Institute

Name & Signature of Director/Principal

Printed By : ae2499711

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Zero Deficiency Report

Library Details

Carpet Area of library	950 sqm.
Reading Space	450 sqm.
Number of seats in reading space	200 No's
Library Timings: Circulation	

○ Monday-Saturday	8.30 am - 4.30 pm
Library Timings: Reading Hall ○ Monday-Friday ○ Saturday	8.30 am - 7.30 pm 8.30 am - 4.30 pm
Computerization for search, Indexing and issue /return records	YES (LIBSOFT 9.8.0 - Lib. Automation Software)
Bar-coding used	YES
Library services on Internet/Intranet	Intranet
Consortium Membership	YES (VTU-Consortium, Belagavi)

Digital library:

- 18 Computers with i3 processors, 4GB RAM configured
- Systems are enabled with Internet facility up to 50 Mbps speed

E-Resources Details

Publisher	E-Portal	No. of e-Resources
e-Journals		
➤ Science Direct	https://www.sciencedirect.com/	296 e- Journals
➤ Springer	https://link.springer.com/	690 e- Journals
➤ Taylor and Francis	https://www.tandfonline.com/	555 e- Journals
e-Books		
➤ Springer	https://link.springer.com/	13004 e-Books
➤ Science Direct	https://www.sciencedirect.com/	436 e- Books
➤ Taylor and Francis	https://www.tandfonline.com/	4950 e- Books
➤ McGraw Hill	http://mcgrawhilleducation.pdn.ipublishcentral.com/	505 e- Books
➤ New Age International	https://digital.elib4u.com/	220 e- Books
➤ Packt	https://ksitb.knimbus.com/#/	5002 e- Books
Technology Platform		
➤ Knimbus	https://ksitb.knimbus.com/#/	5700+ e-Journals 10000+ e- Books
➤ Turnitin	https://www.turnitin.com/	Plagiarism Originality Online Check
➤ Sententia	https://sententia.online/	Writing Grammar Tool



Visvesvaraya Technological University

"Jnana Sangama" Belagavi – 590 018
Karnataka State, India.

VTU-CONSORTIUM FOR E-RESOURCES TO LIBRARIES

License Copy

College Name: K. S. Institute of Technology, Bengaluru-560062.

License No. : KS-B49

This is certifying that, K. S. Institute of Technology, Bengaluru is the member of VTU-Consortium and this institution is licensed to access the following e-Resources for the year 2020-21.

Sl. No.	e-Resources
1.	Elsevier -Science Direct e-Journals
2.	Springer Nature e-Journals
3.	Taylor and Francis e-Journals
4.	Emerald (Management) e-Journals.
5.	Net Analytiks (Sententia-tool)
6.	K-Nimbus (Digital Library Platform and Remote Access Solution)
7.	Turnitin (Similarity check tool)

Note: The Librarian of K. S. Institute of Technology, Bengaluru shall report the undersigned regarding any issues encountered in accessing the above e-Resources. If no issues are reported back, it will be deemed that there are no issues and the institution is accessing all the above resources without any interruptions. However, for further assistance with regard to accessing the databases, the representatives of the respective publishers shall be contacted through a mail with a copy to the coordinator, VTU Consortium.

Co-Ordinator

Registrar

e- Resources License Copy

Library Collections Details

Total No. of Titles: 4980

Total No. of Volumes: 35735

Number of Titles and Volumes added for the assessment years

Year	No. of Titles added	No. of Editions added	No. of Volumes added
CFY 2020-21	47	36	127
CFY1 2019-20	97	86	358
CFY2 2018-19	43	36	165

Library Expenditure details for the assessment years

EXPENDITURE FOR THE ASSESSMENT YEARS				
Year	Books	e-Resources	Periodicals	Total
CFY 2020-21	61,147.00	11,44,000.00	11,857.00	12,17,004.00
CFY1 2019-20	1,49,696.00	11,89,500.00	12,611.00	13,51,807.00
CFY2 2018-19	1,12,743.00	10,61,500.00	80,195.00	12,54,368.00

Accessibility to students

Apart from Print Resources the following e-Resources are also available for the benefit of the staff and students. All these resources are very much relevant to the course curriculum.

E- Journals Package:

1. Elsevier Science Direct e-Journals
2. Springer Nature e-Journals
3. Taylorand Francis e-Journals
4. Net Analytiks (Sententia-tool)
5. K-nimbus (Digital Library Platform and Remote Access Solution)
6. Turnitin (Similarity check tool)

In additions to the above mentioned resources, Library is also providing links to various Open Access resources along with subscribed e-resources through its website. URL: <http://ksit.ac.in>.

For the easy access, all the online resources are subscribed as IP Based access subscription. This will help the users to access any resource mom any computer connected in the KSIT Campus LAN. In addition to this, Institute is providing Federated Search mechanism through which a user can access all the databases through single search box. This willhelp the users for searching multiple databases at a stretch. Remote access facility is available for the users.

DSPACE: Access provided to previous year question papers. (From December- 2010)

<http://202.62.79.41:8080/jspui/>

E-resources Usage Statistics

A campus wide access to various e-Resources through Institute IP address has been facilitated. The usage statisti of relevant e-Resources are demonstrated below.

2020

e- Journals		
Science Direct (Jan-Dec)	T &F (Jan-Dec)	Springer (Jan-Dec)
2274	2422	930

e- Books				
Science Direct (Jan-Dec)	McGraw Hill Education (Jan-Dec)	New Age International (Jan-Dec)	Springer (Jan-Dec)	T & F (Jan-Dec)
496	44	751	329	3260

Technology Platform		
Knimbus	Net Analytiks/ Sententia	Turnitin
564	1401	148

2019

e- Journals		
Science Direct (Jan-Dec)	T &F (Jan-Dec)	Springer (Jan-Dec)
3226	2384	3069

e- Books				
Science Direct (Jan-Dec)	McGraw Hill Education (Jan-Dec)	New Age International (Jan-Dec)	Springer (Jan-Dec)	T & F (Jan-Dec)
61	529	751	1540	1782

Technology Platform		
Knimbus	Net Analytiks/ Sententia	Turnitin
2346	1293	39

2018

e-Journals				
IEEE-IEL	Science Direct	Springer	T & F	Pro-Quest
9007	1082	184	1241	1104

e-Books	
Springer	T & F
360	1128

Technology Platform	
Knimbus	123

Support to students for self-learning activities:

Library & Information Centre is supporting the students for self-learning activities. In this process it is subscribing multiple online resources, through which students will get an access to variety of resources to study and learn on their own.

Following resources are also accessible to the students:

- 9000 NPTEL Videos
- 100+ Subjects NPTEL Text Content
- NDLI hosts 60+ types of learning resources like books, thesis, article, audio lectures, video lectures, manuscripts, question papers, web courses, annual reports, solutions, data set, reports, technical reports, manual, album, monograph, technical manual, law judgments, etc
- 22235 E-Books
- 1493 Project Reports

For the effective use of these self-learning resources Institute Library & Information Centre established an exclusive Digital Library. This centre is having i5 multimedia systems, which helps the users in their self-learning activity by accessing the online lectures of experts of their field.

Availability of an exclusive server	YES (Centralized)
Availability over Intranet /Internet	YES (Intranet)

10.4.2. Internet

Total Marks: 10.00

Institute Marks: 10.00

- Name of the Internet Provider : a) City Online Services Limited:
100MBPS
Leased Line
b)BBNL: 200MBPS
- Availability bandwidth : 300 MBPS
- Wi-Fi Availability : 14 access points
- Internet access in labs, classrooms, Library and offices of all departments : LAN Connectivity:
LABs, Class Rooms, office of all the departments, Seminar Halls , Conference Hall, Digital Library
WLAN Connectivity: Labs of all departments, Dept Office, HOD Rooms
- Security Arrangements : Sonic Firewall

Declaration

The head of the institution needs to make a declaration as per the format given –

- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes hall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Date: 10-11-2021

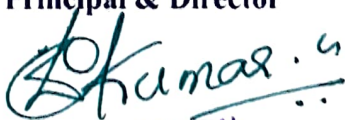
Place: Bangalore

Head of the Institute

Name: Dr. DILIP KUMAR K

Designation: Principal & Director

Signature:


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