



FDP: One Week Online Faculty Development Programme on Recent Advances & Trends in Mechanical Engineering & Material Science.

BROCHURE




IN ASSOCIATION WITH



THE INSTITUTE OF INDIAN FOUNDRYMEN

ONE WEEK ONLINE FDP ON
"RECENT ADVANCES & TRENDS IN MECHANICAL ENGINEERING & MATERIAL SCIENCE"
ON
27th to 31st JULY 2020
ORGANIZED BY
DEPARTMENT OF MECHANICAL ENGINEERING



K. S. INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Recognized by AICTE & Accredited by NAAC)
 No. 14, Raghuvanahalli, Kanakapura Road (Bangalore - 560109)

REGISTER
<https://forms.gle/QX5YLL5YTQ2EAbGk9>

ONLINE PLATFORM: GOOGLE MEET

ABOUT THE INSTITUTION

The Kammavari Sangham, a multi-activity non-profit oriented voluntary service organization, was established in the year 1952 with the sole objective of providing charitable service to community and society. The Sangham has diversified its activities since its establishment over five decades ago. With a firm belief that quality and meaningful education only can lay the strong foundation for bringing about economic and social changes to the lives of thousand, the Sangham went about establishing educational institutions, starting with K.S. Polytechnic in 1992. Enthusiastic with this success of its foray into technical education, the Sangham moved forward by starting the K.S. Institute of Technology (KSIT). Its Engineering College in the year 1999. In the following years both these institutions have carved for themselves an enviable niche through academic excellence achieved in a very short span of time. By providing FREE hostel accommodation and scholarship to the deserving students in the community, it has furthered its Commitment to education.

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering is one among the senior and old branches in the institution with many prides to its feather. A faculty of repute, excellent faculty and a good student community has contributed to make the Department vibrant and striving hard to achieve excellence in the area of academics and research. In keeping with the continued efforts for upgradation and advancement of knowledge, the Department has successfully completed the establishment of various labs as per the University requirements and care has been taken to procure specialized equipment to inculcate an aptitude for research in faculty as well as students. The faculty and students are actively involved in the Research and Development and have many International journal publications to their credit. The Department is recognized as a Research centre from VTU and 13 research scholars are carrying out their research in the various fields of Mechanical Engineering. The Department is running a departmental Library. The Department has taken the leading role in the IPR activities, IEDC activities, NSS, sports and cultural activities of the institution.

ABOUT THE FDP







Advancement in health care, energy, computing and numerous other fields depends on new findings in material science; hence the world is always looking for new discoveries and inventions around materials. Whether it is the lightest materials for space shuttles, superconductors to transmit electricity, foldable electronics or bio-sensors that are compatible with the human body, materials science touches every aspect of our day to day lives. One could apply materials science to any application in healthcare, renewable energy, aviation or mechanical engineering. Materials Scientists, Engineers, Academicians and Researchers look at different groups of materials like metals and alloys, polymers, ceramics and composites. The program provides in-depth knowledge of Advanced Materials, their fundamental characteristics, synthesis, characterization and applications in the advancement of Science and Technology in different domains. The program focuses to create a platform between Academia and Industry to fill the gap between research in laboratory and its industrial applications. The training program will contribute towards building up an immense knowledge on the state-of-the-art techniques used worldwide in the area of Functional Materials and Materials Science. It also provides a platform for the participants to interact with the leading researchers and technologists which will benefit from their vast experience in the area. This program is, therefore, aimed to cover a wide range of topics starting from fundamentals of different classes of materials, their synthesis and characterizations for usage in different applications. This program further emphasizes the development of relevant skills and understanding the capabilities, opportunities, global trends, gaps and challenges of the industry. The FDP will be very helpful for all level of Research scholars, academicians, technologists and industry personnel who are working in the area of Materials, their synthesis, characterization and applications. The program will provide scope to the faculty to undertake multi disciplinary research in materials science using emerging trends of advance materials.

WHO CAN ATTEND?

The program is open for the Faculty members of science and engineering streams, Research Supervisors, Research scholars, PG Students and the persons from industry, R&D organizations.

CERTIFICATION:

E-Certificate will be provided to all the registered participants attending the program on all the days after submission of feedback form.

	Session 1 @ 10:00 am To 11:30 am	Session 2 @ 12:00 pm To 1:30 pm	CHIEF PATRONS	
	 <p>Dr. Amaranath M. Assistant Professor Indian Institute of Information Technology & Manufacturing Keynote Address & Session on Topic: Enhancement in the performance of journal bearing using microwave irradiation method</p>		<p>Sri. Y Ramachandra Naidu Hon. President K.S. Group of Institutions</p>	
Day1 27-07-2020 Monday			<p>Sri. K Venkatesh Naidu, B.E. Hon. Secretary K.S. Group of Institutions</p>	<p>Sri. D Rukmangada, B.E, M.A.B.A. Hon. Treasurer K.S. Group of Institutions</p>
	 <p>Mr. B V Venugopal Technical Expert Central Manufacturing Technology Institute (CMTI)-Bangalore Topic: Machine Tool Testing</p>		PATRON	
Day2 28-07-2020 Tuesday			<p>Dr. K V A Balaji Principal & Director, K. S. Institute of Technology</p>	
	 <p>Mr. Ravi Payanur Sripathi Principal Engineer QUEST Global Engineering Services Private Limited Topic: Advances in Aero Engine Design</p>		ADVISORY COMMITTEE	
Day3 29-07-2020 Wednesday			<p>Prof. Umashankar M HOD, Department of Mechanical Engineering, KSIT</p>	<p>Dr. Girish T R Associate Professor, Department of Mechanical Engineering, KSIT</p>
	 <p>Dr. C S Ramesh Dean, Research & Innovation, Presidency University, Bangalore Topic: Research opportunities in Materials</p>		CHIEF CO-ORDINATOR	
Day4 30-07-2020 Thursday			<p>Prof. Anilkumar A Email: anilkumara@ksit.edu.in Mob: 8197975168</p>	
	 <p>Dr. I Siddhar Professor & Head, Department of Mechanical Engineering, SDM College of Engineering & Technology Topic: Natural Composites & Its Applications</p>		CO-ORDINATORS	
Day5 31-07-2020 Friday	 <p>Dr. K Rama Narasimha Principal & Director K.S. School of Engineering & Management Topic: Computational Fluid Dynamics & Its Applications</p>		ORGANIZING COMMITTEE	
			<p>Prof. Nagabhushana M M Prof. K. Prasad Dr. Nagaprasad K S Dr. L. Nirmala Prof. Manjunath B R Prof. Harish U Prof. Parashuram A K</p>	<p>Prof. N. Sreesudha Prof. Kaushik M M Prof. Gautham S Prof. Tejeshwini M L Prof. Amruth K Prof. Saleem Khan Prof. Rajesh G L</p>

One Week Online Faculty Development Programme on Recent Advances & Trends in Mechanical Engineering & Material Science.

This One Week Online Faculty development programme (FDP-2020) was successfully conducted by Department of Mechanical Engineering, K.S.Institute of Technology in association with Indian Institute of Foundry Men (IIF), from 27th – 31st July 2020. The FDP programme received an overwhelming response with 250 participants from Faculty, Academicians, and Research Scholars, Industrialist from Various Institutions.

Opening remarks for the FDP were given by Dr. K V A Balaji, Principal / CEO KSIT, which was followed by an introduction to the programme by Prof. Umashankar M, HOD, MED. He also gave a glimpse of the activities going on in K.S.Institute of Technology.

The programme progressed with the inaugural lecture at 10:30 am by Dr. Amarnath M, in which he mainly focussed on the material research going on in Journal Bearing and he also gave few glimpses of the test facilities available at Indian Institute of Information Technology & Manufacturing, Jabalpur.

The speaker for session one of second Day was Mr. B V Venugopal from Central Manufacturing Technology Institute (CMTI)-Bangalore. He mainly talked about the research in the area of Machine tool testing and test facilities at CMTI. After the first session, Dr. Ranganath.R mainly talked about his research in the area of Heat Treatment of High Strength Aluminum Alloys and its applications.

The next lecture on session 1 of Day-3 was given by Mr. Ravi Payanur Sripathi, Principal Engineer from QUEST Global Engineering Services Private Limited in which he gave highlights of the advances in Aero-Engine Design & Gas turbines. Discussions with the speakers also continued post session-1 with another speaker Dr. Bharath K N, Post-Doctoral Fellowship, Washington State University, where emphasized on the Research opportunities in the field on Natural Composites and its Applications. This marked the end on Day-3 programme.

The Fourth day started off with the lecture of Dr. C Ramesh, Dean, Research & Innovation from Presidency University, Bangalore. His talk was based on the funding opportunities in the area of Material Characterization. Participants discussed over various aspects with the speaker. The next lecture was given by Dr. P S Shiva Kumar from SDM College of Engineering & Technology, Darwad on Green Composites and its application.

The final day started off with a very informative lecture Dr. K Rama Narasimha, Principal & Director, K.S.School of Engineering & Management from Bangalore on Computational Fluid Dynamics & its Applications. This led to the end of the series of lectures in the Five days programme.

Most of them talked about their enriching experience at the FDP. Thereafter Prof. Umashankar M, gave his concluding remarks. In the end Dr. Girish T R gave the vote of thanks and concluded the three days faculty development programme.

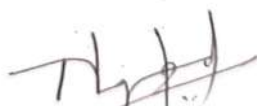
Analysis and evaluation of the FDP

This One Week Online FDP helped to stimulate thought process, arousing interest and motivating further inquiry and discussion among faculties. The FDP provided a platform for faculty members to enrich their teaching skill and research in the field of Engineering Materials. The One Week Online FDP provided a better insight into the recent trends in the field of Advanced Materials and its application in various fields. The program broadly focused on enhancing functional area expertise, improving one's classroom performance in latest subjects and enriching the abilities for

conducting meaningful research. The FDP focused on the latest technologies and systems in the field of Material Science.

SUBMITTED BY:

Mr.NAGAPRASAD .K.S



Mr.PARASHURAM.A.K



Mr.NAGABHUSAN.M

Neei



Mr.BHARAT KUMAR.K.R

Bharath



Mr.UMASHANKAR.M



Mr.GIRISH.T.R

Girish



Mr. PRASAD.K



Dr.RENUKA .C



KAVYA.T.N

Maya



Ms.NEELAM PATIL RADHIKA

Radhika



SIGNATURE OF HOD

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

SIGNATURE OF PRINCIPAL

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



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF MECHANICAL ENGINEERING

FDP: ADDITIVE MANUFACTURING

Report

Title: FDP: ADDITIVE MANUFACTURING

Organizer: PRESIDENCY UNIVERSITY

DATE: 29-08-2020 to 02-09-2020

Program Highlights:

Day One:Innaguration and basics of additive manufacturing

- **Day Two:** sessions on materials for additive manufacturing and advanced tools. The day culminated with engaging hands-on sessions.
- **Day Three:** importance of metallurgy, advancements in additive manufacturing, and the intriguing world of reverse engineering. The day concluded with hands-on experiences in cutting-edge additive manufacturing technologies.
- **Day Four:** industrial visit to witnessing 3D printing machines in action on live projects was an awe-inspiring experience.
- **Day Five:** research and innovation in AM, the future of additive manufacturing, and its applications in biomedical fields. The afternoon session, graced by our Principal and a team of doctors from GIMS, explored the remarkable possibilities in additive manufacturing for orthopaedic, dental, and other medical applications. The program concluded on a high note with the distribution of well-deserved certificates.

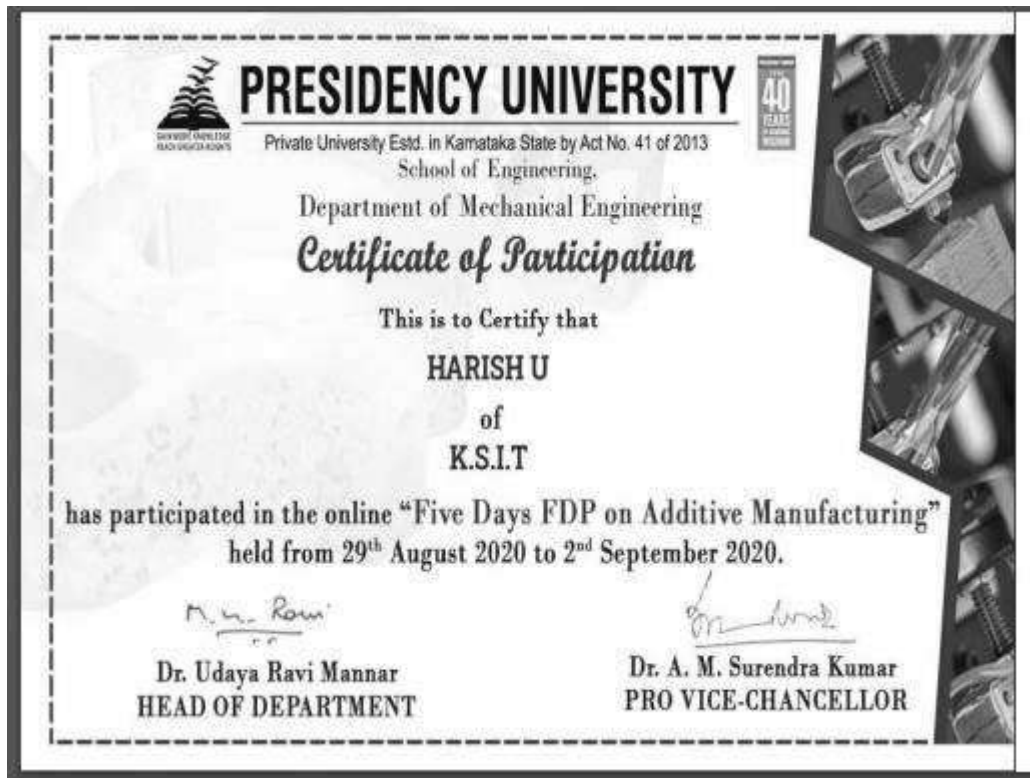
Objectives of Additive manufacturing

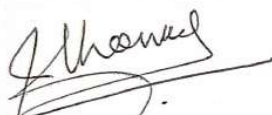
It aims to coordinate the creation of standards related to materials, processes, equipment and finished-part properties while also supporting specific standards for aerospace, medical devices, automotive and other industries.

OUTCOMES OF FDP

- Describe additive manufacturing and explain its advantages and disadvantages
- Explain the processes used in additive manufacturing for a range of materials and applications
- Understand the role of additive manufacturing in the design process and the implications for design
- Describe the effects of surface finish and microstructural properties on behaviour for components produced using additive manufacturing
- Display an awareness of residual stresses that may occur during additive manufacturing and their effects

SUBMITTED BY :
HARISH U




SIGNATURE OF HOD

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


SIGNATURE OF PRINCIPAL

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



K S INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14,Raghuvanahalli, Kanakapura Main Road,Bengaluru-5600109

DEPARTMENT OF MECHANICAL ENGINEERING

**REPORT OF FDP: ‘Building Emotional Intelligence and Resilience
Case Method of Experiential Teaching and Learning’**

Report

Faculty Development Program (FDP) Report

Title: ‘Building Emotional Intelligence and Resilience Case Method of Experiential Teaching and Learning’

Date: 10th – 14th May 2021,.

Program Coordinator: Dr. W.G. PRASANNA KUMAR, Chairman, Mahatma Gandhi national council of rural education.

Participant: Tejaswini.M.L from KS Institute of technology

Summary:

The main aim of the FDP was to inculcate experiential teaching and learning process. In developing Asia, learning losses range from eight percent (where schools were able to mostly stay open) to 55% in areas with the longest closures and is estimated to be \$1.25 trillion or 5.4% of the region’s gross domestic product in 2020. School dropout within the year 2020 has also resulted in low numeracy and reading outcomes in low- and lower-middle-income countries. Various speakers spoke about wide range of teaching and learning process. In this rapid growth of technology, experiential learning becomes very essential. In order to have expertise learning, one must learn in dealing with practical problems. Any discipline in education must include the process of resolving realistic issues. There are various sectors like surveying, mining, agriculture, industries, navy, army etc., under which people work in the nation to bring out prosperity in life, some among them are really challenging. Youths must come forward to knock such issues.

Objectives of the FDP

There is a need to provide directions for studies that could help enhance the education systems capable of overcoming adversities and are resilient to disruptions. Resilience should be part of the continuous quality improvement processes of education systems subject to environmental dynamicity.

SUBMITTED BY:

Tejaswini

TEJASWINI.M.L



[Signature]
SIGNATURE OF HOD

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

[Signature]
SIGNATURE OF PRINCIPAL

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



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF MECHANICAL ENGINEERING

FDP: Strength of Materials – An Effective Teaching Methodology

Brochure

<p align="center">REGISTRATION FORM</p> <p align="center">AICTE - ISTE Sponsored One Week Online Refresher Programme on "STRENGTH OF MATERIALS - AN EFFECTIVE TEACHING METHODOLOGY"</p> <p>Name: _____ Designation: _____ Department: _____ Organization: _____ Address: _____ Phone: _____ Select the Phase (Please tick one phase) Phase-I : 05-04-2021 to 10-04-2021 <input type="checkbox"/> Phase-II : 26-04-2021 to 01-05-2021 <input type="checkbox"/> Phase-III : 17-05-2021 to 22-05-2021 <input type="checkbox"/> Signature of the Candidate _____ Dr./Mr./Ms./Mrs. _____ is a faculty/research scholar of our institution and is hereby permitted to attend One Week Online Refresher Programme on "Strength of Materials - An Effective Teaching Methodology" at Nalla Narasimha Reddy Education Society's Group of Institutions, Hyderabad during the above-mentioned dates. Place: _____ Date: _____ HOD / PRINCIPAL (With SEAL) *mail the scan copy of the registration form to anrgmech2009@gmail.com</p>	<p align="center">Organizing Committee</p> <p>Chief Patron Shri Nalla Narasimha Reddy, Secretary, NNRG.</p> <p>Patron Dr. C. V. Krishna Reddy, Director, NNRG.</p> <p>Convener Dr. G. Janardhana Raju, Dean-SoE, Chairman-ISTE Chapter, NNRG.</p> <p>Coordinator Dr. S. Surendarnath, Assoc. Professor, MED, NNRG.</p> <p>Co - Coordinators Mr. A. Venkata Vishnu, Assoc. Professor, MED, NNRG Mr. G. Guruviah Naidu, Assoc. Professor, MED, NNRG Mr. K. Suresh Kumar, Assoc. Professor, MED</p> <p>Organizing Members Mr. T. Pavan Kumar, Assoc. Professor, MED Mr. P. Sriharish, Assoc. Professor, MED Mr. L. Sunil Kumar, Assoc. Professor, MED Mr. T. Savitha, Asst. Professor, MED Mr. Y. Narsa Reddy, Asst. Professor, MED Mr. T. Mahesh, Asst. Professor, MED Mr. N. Chandra Karthi, Asst. Professor, MED Mr. G. Kiran Kumar, Asst. Professor, MED Mr. Ragham Kumar Chandra, Asst. Professor, MED Mr. M. Pojitha, Asst. Professor, MED Mr. G. Gopi, Asst. Professor, MED</p>	<p align="center">AICTE - ISTE Sponsored One Week Online Refresher Programme on "STRENGTH OF MATERIALS - AN EFFECTIVE TEACHING METHODOLOGY"</p> <p align="center">Phase I : 05.04.2021 to 10.04.2021 Phase II : 26.04.2021 to 01.05.2021 Phase III : 17.05.2021 to 22.05.2021</p> <p align="center">Coordinator Dr. S. SURENDARNATH Associate Professor, MED</p> <p align="center">NALLA NARASIMHA REDDY EDUCATION SOCIETY'S GROUP OF INSTITUTIONS (INTEGRATED CAMPUS) (Approved by AICTE, PCI, New Delhi. Affiliated to JNTU-Hyderabad)</p> <p align="center">Accredited by & </p> <p align="center">Chowdarguda(V), Korramula 'X' Road, Ghatkesar (M), Medchal (D), Hyderabad. - 500 088, T.S. www.nnrg.edu.in</p>
<p>About the Institution Nalla Narasimha Reddy Education Society's Group of Institutions (NNRG) - an Integrated Campus was established in the year 2009 with sole objective of providing world class technical education. From the time of its initiation, the Integrated Campus including School of Engineering, School of Pharmacy and School of Management Sciences has been striving to scale the heights of excellence through the consistent efforts of the management headed by Sri Nalla Narasimha Reddy, Secretary and the dedicated members of the faculty and staff. The Institute is accredited by the National Assessment and Accreditation Council (NAAC) with A+ Grade and National Board of Accreditation (NBA) for CSE, ECE, ME. The UGC has recognized the Institution under section 2(f) of the UGC Act 1956 and ISO 9001:2015 certified. NNRG aims at being one of the most premier educational institutions in Telangana.</p> <p>About the Department Mechanical Engineering Department is a part of School of Engineering (SOE), was established in 2009, with the prime motto to offer surreal education to the aspirants. The department has highly qualified and experienced faculty members with the state-of-the-art laboratories enable the students to participate in the practical sessions effectively. The department is equipped with the Robotics laboratory, High end CNC Milling Machine, Design and Simulation Software's such as Pro-E, CATIA, ANSYS, MATLAB etc., to improve the practical skills of the students.</p> <p>About the Programme The aim of this refresher program is to impart the knowledge of Strength of Materials among the young budding teachers through experienced professionals from academia and industries. This Program for sure will bring good potential for the teachers to improve the teaching learning process. It helps the faculty members to take the concepts of strength of material to the students in a lucid way and make the understandable to get in to real time problems. It enhances the ability of the faculty members to apply their minds to apply the fundamental concepts strength of material in all real time design engineering problems. Also, the program is aimed to identify and fulfill the basic requirements faculty members for analyzing structural designs failures.</p>	<p>Topics of STTP</p> <ul style="list-style-type: none"> Stress, Strain and Deformation of Solids Principal stresses and principal planes Transfer of Loads and Stresses in Beams Bending Theory Deflection of Beams, SFD and BMD Torsion - Solids and Hollow Circular Shafts Columns and Struts Springs Unsymmetrical bending of beams Analysis and design of thin and thick shells <p>Resource Persons Eminent speakers from premier institutes like IIT's, NIT's, State Universities and Industries will deliver the lectures.</p> <p>Eligibility Criteria This programme is open to all AICTE approved Engineering college faculty Members. Selection of participants will be FIRST-CUM-FIRST-SERVE basis.</p> <p>Application Process Applicants are required to submit the Google form. After the registration of the candidates A TEMPORARY IDENTIFICATION NUMBER (TIN) will be allotted to the candidates and will be intimated to all through WhatsApp groups one day before. All participants should attend sessions using their TIN only and should use that for any reference.</p>	<p>No Registration Fee Faculty members can register using the following link. https://forms.gle/KNMn6M338VA3azaHA</p> <p>Other Information</p> <ul style="list-style-type: none"> Submission of day-wise feedback is mandatory. A Test will be conducted at the end of the Programme. The certificate shall be issued to the participants who have minimum 80% attendance and 60% marks in the Test. Maximum number of participants allowed is 100 per program and minimum should be 40. Priority should be given to ISTE Life Members. Last Date for Submission of Google form 02.04.2021 <p align="center">Contact Dr. S. SURENDARNATH, Associate Professor Email: anrgmech2009@gmail.com Phone: 8667025422 Mr. A. VENKATA VISHNU, Associate Professor Email: venkat66vishnu@gmail.com Phone: 9985652237</p> <p align="center"> NALLA NARASIMHA REDDY EDUCATION SOCIETY'S GROUP OF INSTITUTIONS (INTEGRATED CAMPUS) Chowdarguda(V), Korramula 'X' Road, Ghatkesar (M), Medchal (D), Hyderabad. - 500 088, T.S.</p>

Report

Title: One Week Online Refresher Programme on "Strength of Materials - An Effective Teaching Methodology."

Organizer: Nalla Narasimha Reddy Education Society's Group of Institutions, Hyderabad, Telangana.

Phases:

- Phase I: 05.04.2021 to 10.04.2021
- Phase II: 26.04.2021 to 01.05.2021
- **Phase III: 17.05.2021 to 22.05.2021**

Organizing Committee:

- **Chief Patron:** Shri Nalla Narasimha Reddy, Secretary, NNRG.
- **Patron:** Dr. C.V. Krishna Reddy, Director, NNRG.
- **Convenor:** Dr. G. Janardhana Raju, Dean-SoE, Chairman-ISTE Chapter, NNRG.
- **Coordinator:** Dr. S. Surendarnath, Assoc. Professor, MED, NNRG.

Program Highlights:

- No registration fee was required.
- The program was conducted in three phases.
- The focus was on strengthening teaching methodologies related to Strength of Materials.
- The faculty members were expected to have a minimum of 80% attendance and 60% marks in the test to receive a certificate.
- Resource persons were eminent speakers from premier institutes like IITs, NITs, and state universities.

Participant Details:

- **Name:** MR. MANJUNATHA B.R, Asst Professor, KSIT
- Successfully completed the programme during Phase III (17.05.2021 to 22.05.2021).

Program Objectives:

To impart knowledge of Strength of Materials among young academic teachers.

To ensure the program would bring good potential for teachers to improve the teaching-learning process

To enable the faculty to tackle the concepts of strength of material members in a lucid way and make the students in real-time problems

Additional Information:

- The program was open to a maximum of 100 participants with a minimum requirement of 40.
- Priority was given to ISTE Life Members.
- A test was conducted at the end of the program.

Topics Covered:

- Stress, Strain, and Deformation of Solids
- Principal stresses and principal planes
- Transmission of Loads and Stresses in Beams
- Bending Theory
- Torsion of Beams, SFD and BMD
- Deflection of Beams and Hollow Circular Shafts
- Columns and Struts
- Springs
- Unsymmetrical bending of beams
- Analysis and design of thin and thick shells

Outcomes: The program aimed to enhance the understanding and teaching efficiency of faculty members in the field of Strength of Materials. By covering a comprehensive list of topics, from basic stress and strain concepts to more complex analysis of beams and design of structural elements, participants were expected to:

- Gain an in-depth understanding of the mechanical behavior of materials under various loading conditions.
- Improve pedagogical strategies for effectively conveying complex engineering concepts to students.
- Apply new techniques and methodologies in classroom and laboratory settings.
- Develop the ability to solve real-world problems related to the strength of materials.
- Integrate modern educational tools and software in teaching, such as CNC Milling Machines, Design and Simulation Software's like PRO-E, CATIA, ANSYS, MATLAB, etc.
- Network with eminent resource persons from renowned institutions, fostering professional development and collaboration opportunities.
- Meet the necessary competency requirements to take on current and future academic challenges in the engineering field.

The successful completion of this program signifies a step forward in the continuing education of faculty members, equipping them with modern methodologies to enhance their teaching capabilities in the field of engineering mechanics.

SUBMITTED BY:

MANJUNATHA.B.R

Manjunath



[Signature]
SIGNATURE OF HOD

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

[Signature]
SIGNATURE OF PRINCIPAL

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



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT OF FDP: TRENDS IN AUTOMOTIVE TECHNOLOGY

Brochure:

INTERNATIONAL FACULTY DEVELOPMENT PROGRAM ON TRENDS IN AUTOMOTIVE TECHNOLOGY

JOINTLY ORGANIZED BY

*WOLLO UNIVERSITY - KOMBOLCHA INSTITUTE OF TECHNOLOGY, ETHIOPIA

*MEDI-CAPS UNIVERSITY, INDORE, INDIA

*SATHYARAMA INSTITUTE OF SCIENCE & TECHNOLOGY, CHENNAI, INDIA

*GALGOTIAS UNIVERSITY, GREATER NOIDA, INDIA

* Date: 17/5/2021 - 22/5/2021

*6 DAYS

*NO REGISTRATION FEE

*OPEN TO ALL

*PARTICIPANTS SHOULD ATTEND PROGRAM FOR THE ENTIRE DURATION THROUGH ONLINE

*E - CERTIFICATE FOR THE PARTICIPANTS

REGISTRATION LINK : <https://forms.gle/5BxGyV9r6VvnQXBGA>

ONLINE PLATFORM - ZOOM MEETING LINK

SESSION-1	INDIAN STANDARD TIME : 11.30 AM - 12.30 PM ETHIOPIA INTERNATIONAL TIME : 9.00 AM - 10.00 AM ETHIOPIA LOCAL TIME : 3.00 - 4.00	Join Zoom Meeting https://zoom.us/j/93973313601?pwd=bGw2dmU2eW11TGwqR0FnYSSGK3kydz09 Meeting ID: 939 7331 3601 Passcode: 819075
May 17, 2021 May 18, 2021 May 19, 2021 May 20, 2021 May 21, 2021 May 22, 2021		
SESSION-2	INDIAN STANDARD TIME : 1.30 PM - 2.30 PM ETHIOPIA INTERNATIONAL TIME : 11.00 AM - 12.00 NOON ETHIOPIA LOCAL TIME : 5.00 - 6.00	Join Zoom Meeting https://zoom.us/j/98601879408?pwd=V2x5WHZrRnRlU3cHcxoldvZ1prUT09 Meeting ID: 986 0187 9408 Passcode: 831710
May 17, 2021 May 18, 2021 May 19, 2021 May 20, 2021 May 21, 2021 May 22, 2021		

GUIDELINES TO THE PARTICIPANTS

1. Log in to the link at least 10 minutes in advance using your name as it appears in the registration form.
2. Participants should attend the program for the entire duration through online.
3. Mute your audio and off your video throughout the program.
4. Kindly refrain from introducing and greeting each other or with the speaker in the chat box.
5. Please write your comments or questions to the speakers with your name and College at any time in the public chat space.
6. This allows publicly-visible chat, keeping your contributions helpful and considerate of the host and other participants.
7. THE PARTICIPATION E-CERTIFICATE SHALL BE ISSUED ONLY UPON SUCCESSFUL SUBMISSION OF THE FEEDBACK FORM WHICH SHALL BE POSTED AT THE END OF THE SIXTH DAY FINAL SESSION ONLY.
8. The feedback form link for the certificate will be active only for 1 hour. Post which it will be deactivated automatically.
9. The certificate will be emailed to the registered email ID.
10. The certificates are auto generated, so take utmost care while filling the feedback form, your name and institution name correctly to avoid mistakes.
11. If you fail to receive your E-certificate, kindly contact us on prabhakaran@ksit.edu.in

FACILITATORS

***Dr. RAVINDRA PATHAK**

Prof. in Charge - Office of International affairs)
Medi-Caps University, Indore, India
Email – ravindra.pathak@medicaps.ac.in
Mobile number - +91 96696 63339(India)

***Dr. RABINDRA NATH SHAW**

Director, International Collaboration,
Galgotias University, Greater Noida, India
Email – r.n.s@ieee.org
Mobile number - +91 98832 66344 (India)

***Mr. J. R. DEEPAK**

Assistant Professor, School of Mechanical Engineering,
Sathyabama Institute of Science and Technology, India
Email – deepak.prod@sathyabama.ac.in
Mobile number - +91 90473 82398 (India)

***Dr. S. PRABHAKAR**

Associate Professor, Motor Vehicle Stream,
Wollo University, Kombolcha Institute of Technology (KIOT), Ethiopia
Email – prabhakar@kiot.edu.et
Mobile number - +91 99403 22437 (India), +251 904664940 (Ethiopia)

FOR ONLINE EVENTS UPDATES PLEASE JOIN

TELEGRAM GROUP LINK: <https://t.me/joinchat/YXJOgO47tahjODZk>
WHATS APP GROUP-1 LINK: <https://chat.whatsapp.com/CCYJi13633UBxswLON2mPy>
WHATS APP GROUP-2 LINK: <https://chat.whatsapp.com/IPmusevtBV7KGclyN4hoXB>
WHATS APP GROUP-3 LINK: <https://chat.whatsapp.com/HVfxLm3N5GAJ5NBrPyqzOa>

Report

Faculty Development Program (FDP) Report

Title: TRENDS IN AUTOMOTIVE TECHNOLOGY

Date: 17th to 22nd May 2021, Wollo University, Ethiopia.

Program Coordinator: Dr. RAVINDRA PATHAK Prof. in Charge - Office of International affairs)

Participant: Mr. Rajesh G.L, KSIT Bengaluru.

Summary:

The main objective of the FDP is to provide awareness for faculty on automotive and energy systems. Automotive technology is the thrust area where heaps of changes being made for improving the overall efficiency of a vehicle. Electric vehicles technology has gained focus of the researchers and industry in recent times. Electric vehicles are expected to increase from 2% of global share in 2016 to 22% in 2030. In this context, it is imperative that we, as engineers and academicians, become well versed in the art of designing and developing EV technology. Currently, the technology is focusing on many new areas like engines and alternative fuels, vehicle safety, advanced electric propulsion, energy storage system, intelligent transportation and vehicular communication systems, autonomous vehicles, vehicle electrification, hybridization, improved battery managements systems and new battery chemistries. The automotive industries are in line with these technological changes. Also, in the current era, computational intelligence and optimization techniques have been employed in various applications of non-conventional energy systems for maximum power extraction.

This FDP intended to address the uncertainties and challenges in EV and associated technologies through knowledge and information exchange. This in due course will lead to

acquiring deep knowledge in the development and implementation of low-cost and eco-friendly electric mobility and charging systems. The academia is yet to change its curricula to cope up with these rapid changes in the technology. The gap between the academia and industry might be reduced by arranging some workshops/ FDP programs to faculty by industry experts in relevant areas. The main aim of this FDP is to expose the faculty to new developments in the above areas of technology and the same may be imparted in the student community.

Objectives of the FDP

- Acquire Knowledge on advances in automobile sector.
- Acquire knowledge on applications of advance control techniques in automobile.
- Gain knowledge on energy systems and its applications.
- Gain knowledge on thermal energy storage systems.
- Gain research exposure on emerging trends in Automobile and energy systems.

SUBMITTED BY:

RAJESH G.L

**International Faculty Development Program on
Trends In Automotive Technology**

Certificate
OF PARTICIPATION

RAJESH GL
KS Institute of Technology, Bengaluru

HAS PARTICIPATED IN THE "INTERNATIONAL FACULTY DEVELOPMENT PROGRAM ON TRENDS IN
AUTOMOTIVE TECHNOLOGY", JOINTLY ORGANIZED BY WOLLO UNIVERSITY - KOMBOLCHA INSTITUTE
OF TECHNOLOGY - ETHIOPIA, MEDI-CAPS UNIVERSITY, INDORE - INDIA, SATHYABAMA INSTITUTE
OF SCIENCE & TECHNOLOGY, CHENNAI - INDIA & GALGOTIAS UNIVERSITY, GREATER NOIDA - INDIA.

Dr. PRABHAKAR SEKAR
Associate Professor
Mechanical Engineering (Automobile Stream)
Wollo University - KfOT, Ethiopia

Mr. J. R. DEEPAK
Assistant Professor
School of Mechanical Engineering
Sathyabama Institute of Science and Technology, India

Dr. RABINDRA NATH SHAW
Director
International Collaboration
Galgotias University, Greater Noida, India

Dr. RAVINDRA PATHAK
Professor Incharge
Office of International Affairs
Medi-Caps University, Indore, India

JOINTLY ORGANIZED BY

**WOLLO UNIVERSITY -
KOMBOLCHA INSTITUTE OF
TECHNOLOGY, ETHIOPIA**

**MEDI-CAPS UNIVERSITY,
INDORE, INDIA**

**SATHYABAMA INSTITUTE
OF SCIENCE & TECHNOLOGY,
CHENNAI, INDIA**

**GALGOTIAS UNIVERSITY,
GREATER NOIDA, INDIA**

ETHIOPIA INTERNATIONAL TIME:
9.00 AM - 12.00 NOON

INDIAN STANDARD TIME:
11.30 PM - 2.30 PM

DATE : 17/5/2021 - 22/5/2021 (6 DAYS)

CERTIFICATE ID : MDXBB8-CE000092

EMAIL ID : rajeshgli@ksit.edu.in

No part of this E-Certificate can be reproduced or utilized in any form without the permission of the signatories.

SIGNATURE OF HOD

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

SIGNATURE OF PRINCIPAL

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




K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF MECHANICAL ENGINEERING

FDP: Recent Innovation in Design and Manufacturing

Brochure



Six Days Faculty Development Program
on
RECENT INNOVATIONS IN DESIGN & MANUFACTURING
(24th to 29th MAY, 2021)



Organized by
Department of
Mechanical Engineering
MALLA REDDY ENGINEERING COLLEGE
(AUTONOMOUS) MAIN CAMPUS

An UGC Autonomous Institution, Approved by
AICTE & Affiliated to JNTUH-Hyderabad
Reaccredited by NAAC with 'A' Grade (II Cycle)
Maisammaguda, Gundlapochampally,
Medchal - Malkajgiri District
Telangana - 500100, India

About the Institution

Malla Reddy Engineering College (Autonomous) is one of the reputed engineering colleges in Hyderabad, Telangana. MREC (A) is part of Malla Reddy Group of Institutions (MRGI), founded by Sri. Ch. Malla Reddy, currently Hon'ble Minister, Labor and Employment, Factories, Women and Child Welfare and Skill Development, Govt. of Telangana State. The college is situated in a serene, lush green environment in Maisammaguda, Gundlapochampally, Medchal, Malkajgiri District Telangana - 500100.

The college was established in 2002 and is an autonomous institution approved by UGC and affiliated to JNTUH. The college is re-accredited by NAAC with 'A' Grade (II Cycle) and was conferred autonomous status by JNTUH in 2011 and by UGC in 2014 for a period of 6 years. Our eligible UG and PG programs received NBA accreditation and some of them received reaccreditation too. The college caters to wide ranging aspirations and goals of student communities by offering new courses in UG- Cyber Security, Artificial Intelligence and Machine Learning, Data Science and IOT along with programs in various streams of Engineering & Technology and Management. It boasts of world-class infrastructure and well-equipped laboratories all departments and is skillfully and smartly

guided by Dr. A. Ramaswamy Reddy, Director, MREC(A) & Dr. A. Raveendra, Principal, MREC(A) who have a rich teaching and industrial experience.

Advisory Committee:

Chief Patron: Sri. Ch. Malla Reddy,
Minister, Telangana State, India.
Founder & Chairman
Malla Reddy Group of
Institutions, MRGI

Patrons: Sri. Ch. Mahender Reddy
Secretary, MRGI
Dr. Ch. Bhadra Reddy
President, MRGI

Co-Patrons: Dr. A. Ramaswamy Reddy
Director, MREC (A)
Dr. A. Raveendra
Principal, MREC (A)

Convener: Dr. N. Rishi Kanth
Professor & HOD - ME
E-Mail: mehod@mrec.ac.in

Coordinators: Dr. A. Paul Praveen
Associate Professor, ME
E-Mail: a.paulpraveen@mrec.ac.in
Dr. Sape Udaya Bhaskar
Professor & Dean Academics, ME
E-Mail: deanaacademics@mrec.ac.in

Co-Coordination:

Dr. T. Zahoor Ahmed, Prof., ME
Dr. ISNV Prashanth, Assoc. Prof., ME
Dr. N. Tulasi Radha, Assoc. Prof., ME
Dr. T. Venkata Deepthi, Assoc. Prof., ME
Dr. Jabeer Hussain, Assoc. Prof., ME
Dr. I. Satish, Assoc. Prof., ME

About the Department:

The Department of Mechanical Engineering has been established since the inception of the institution in the year 2002. The Department has good infrastructure facilities and is equipped with full-fledged laboratories to fulfill the curriculum needs. The Department has well experienced faculty. Around one-third of the faculty members in the department are Doctorate. The department has good number of sanctioned projects, funded by different agencies/industries. The Department is intended to be allotted a Research Centre by JNTU Hyderabad.

Course Objective:

The main objective of our program is to educate engineers on all aspects of product realization from product design to manufacturing technologies and operations, and to provide students with the ability to provide students with the ability to integrate various design and manufacturing processes into an effective system.

Topics Covered:

- Additive Manufacturing
- Surface Engineering
- Rotor Dynamics

- Future Manufacturing Systems
- Product designer's responsibility in smart manufacturing scenario
- Tribological aspects of coatings

Course Outcomes:

On completion of this course, participants are expected to gain better understanding on various types of manufacturing systems, concepts of rotor dynamics and knowledge on responsibilities of product designer. The participants will also gain knowledge on aspects of coatings.

Resource Persons:

- ❖ Dr. R. L. Narayan
Assistant Professor, IIT Delhi
- ❖ Dr. Ravi Kumar Dumpala
Assistant Professor, VNIT Nagpur
- ❖ Dr. Rajasckhara Reddy Mutra
Sr. Assistant Professor, VIT Vellore
- ❖ Dr. M. Vijay Kumar
Assistant Professor, NIT Wrangal
- ❖ Dr. Boorla Srinivas Murthy
General Manager, Group Antolin
India Pvt. Ltd.
- ❖ Dr. Nitesh Vashishtha
Joint Manager, NBC Bearings
Ltd. Jaipur

Who should attend?

- The participants to the course will be Faculties, Ph.D. Scholars and PG Students.

Selection and Certification Criteria:

- Selection is made based on the first-come, first-serve basis.
- Minimum 80% of attendance and 60% of marks in the online test at the end of each day session of the FDP are compulsory for certification.

How to Apply?

- The participant can register through the link given below:
<https://forms.gle/ZiRgLiAlktdzUXb9>
- No Registration Fee!

Mode: Online

Platform: Zoom with 500 Participants only.

For query contact:

Name: Dr. N. Rishi Kanth
Cell no: +91 7780726746

Name : Dr. A. Paul Praveen
Cell no: +91 9345777727

Name: Dr. Sape Udaya Bhaskar
Cell no: +91 6303622066

Report

Title: Recent Innovations in Design & Manufacturing

Organized By: Department of Mechanical Engineering, Malla Reddy Engineering College (Autonomous)

Duration: 24th to 29th May, 2021

Objective: To provide educators with an in-depth understanding and teaching capacity in cutting-edge design and manufacturing practices, focusing on additive manufacturing, surface engineering, and rotor dynamics.

Program Highlights:

- Emphasis on future manufacturing systems and product design responsibility.
- Insight into smart manufacturing and technological aspects of coatings.

Course Outcomes: Participants gained knowledge on various manufacturing systems, design principles, and the role of a product designer in innovation.

Around 400 enthusiastic learners from academia and research have enrolled for the FDP. The following eminent faculty and industry experts agreed to act as resource persons.

- Dr. R. L. Narayan, Assistant Professor, IIT Delhi
- Dr. Ravi Kumar Dumpala, Assistant Professor, VNIT Nagpur
- Dr. Rajasekhara Reddy M, Sr. Assistant Professor, VIT Vellore
- Dr. M. Vijay Kumar, Assistant Professor, NIT, Warangal
- Dr. Boorla Srinivas Murthy, General Manager, Group Antolin India Pvt. Ltd.
- Dr. Nitesh Vashishtha, Joint Manager, NBC Bearings Ltd., Jaipur.

Methodology: The program utilized interactive lectures, practical workshops, and expert panels conducted online via Zoom.

The following topics are covered in the FDP

- ✓ Additive Manufacturing
- ✓ Surface Engineering
- ✓ Rotor Dynamics
- ✓ Future Manufacturing Systems
- ✓ Product designer's responsibility in smart manufacturing scenario
- ✓ Tribological aspects of coatings

Acknowledgments: The successful organization of the FDP is credited to the coordinators, Dr. A. Paul Praveen and Dr. N. Rishi Kanth, with guidance from the principal, Dr. A. Raveendra, and the director, Dr. A. Ramaswamy Reddy.

Conclusion: This Faculty Development Program has empowered educators with innovative strategies and knowledge on the forefront of design and manufacturing, significantly contributing to the enhancement of technical education quality.

SUBMITTED BY :

Mr.Ranganath.N

Ranganath.N



[Signature]

SIGNATURE OF HOD

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

[Signature]

SIGNATURE OF PRINCIPAL

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



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14,Raghuvanahalli,KanakapuraMainRoad,Bengaluru-5600109

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT OF FDP: “Data Analysis and Artificial Intelligence for Mechanical Engineers”

Brochure



REGISTRATION LINK:
<https://forms.gle/3d4PCm4886WWa2wpm6>

SCHEDULE & TOPIC

E-Certificates will be issued to all participants who successfully attend all online session throughout the FDP program.

Day & Date	10:00 AM to 12:00 PM	2:00 PM to 3:00 PM
28-06-2021 (Monday)	Registration and Session 1 (Introduction to AI in Mechanical Engineering-ITSP and SEAOA) Dr. J. B. Shukla Coordinator NITME/VTET Counseling	Session 2 (Data Processing – cleaning, organizing and coding) Dr. J. B. Shukla Coordinator NITME/VTET Counseling
29-06-2021 (Tuesday)	Session 3 (Temporal Learning-PCA, GDA, SVM and SVM cost) Dr. J. B. Shukla Coordinator NITME/VTET Counseling	Session 4 (Temporal Learning-PCA, GDA, SVM and SVM cost) Dr. J. B. Shukla Coordinator NITME/VTET Counseling
30-06-2021 (Wednesday)	Session 5 (Experimental Learning-Regression modeling, Data classification) Dr. J. B. Shukla Coordinator NITME/VTET Counseling	Session 6 (SPML division from Random Forest, Neural networks, EBN, Rule induction – classification and regression) Dr. J. B. Shukla Coordinator NITME/VTET Counseling
01-07-2021 (Thursday)	Session 7 (Data Analysis in today's business environment) Sagarit Chandrasekhar Data Analyst at Sapient	Session 8 (Data analysis with Python using Pandas Library) Sagarit Chandrasekhar Data Analyst at Sapient
02-07-2021 (Friday)	Session 9 (Experimental Data analysis of Machine learning using statistical methods – smart and challenge) Dr. Jagadeesh Assistant Professor Department of Mechanical Engineering, National Institute of Technology, Rourkela Odisha	Session 10 (12:00 PM to 12:30 PM) Valedictory

Eligibility

Faculty members & industry persons and research scholars, belonging to AICTE approved technical institutions and such Universities can participate in the programme.

Important Dates

Last date for Registration
26th June 2021

Confirmation of Seats
27th June 2021

FDP Platform



Chief Patrons

Sri. N.V. Hegde
 Chancellor, Nitte (Deemed to be University) &
 President, Nitte Education Trust

Prof. N.R. Shetty
 Chancellor, Central University, Kalaburagi
 Advisor, Nitte Education Trust
 Former Vice Chancellor, Bangalore University

Advisory Committee

Prof. L.M. Pattnaik
 Advisor (Technical), NMIT

Prof. K. Sudha Rao
 Advisor (Management), NMIT

Sri. Rohit Punja
 Administrator, Nitte Education Trust(NET)

Dr. H.C. Nagaraj
 Principal, NMIT

Dr. V. Sridhar
 Dean (Academics), NMIT

Convener

Dr. Sudheer Reddy
 Professor & Head, Dept. of ME,
 NMIT

Coordinators

Dr. Vijay Kumar S
 Asst. Professor, Dept. of ME, NMIT

Mr. Vikram Kedambadi Vasu
 Asst. Professor, Dept. of ME, NMIT

Organizing Committee
 Department of Mechanical
 Engineering, NMIT

Address for Correspondence

Dr. Vijay Kumar S
 Asst. Professor, Dept. of Mech-Engg
 Email: vijaykumar.s@nitte.ac.in
 Phone: +91 9863302566

Mr. Vikram Kedambadi Vasu
 Asst. Professor, Dept. of Mech Engg
 Email: vikram.k@nitte.ac.in
 Phone: +91 9384155277



CONTACT US

Department of Mechanical Engineering
 Nitte Meenakshi Institute of Technology,
 P.B.No.6429, Yelahanka, Bangalore 560064, INDIA.
 Ph : +91 80 22167800
 E-mail: admissions@nitte.ac.in, principal@nitte.ac.in



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Report

Faculty Development Program (FDP) Report

Title: Data Analysis and Artificial Intelligence for Mechanical Engineers

Date: 28th June– 2nd July 2021, NITTE Meenakshi Institute of Technology, Bangalore .

Program Coordinator: Dr. Vijay Kumar S, Department of Mechanical Engineering, NMIT.

Participant: Dr. Saleem Khan of KSIT

Summary:

Artificial Intelligence (AI) has attracted interest in recent years due to AI's technological advancements and its increased ability to process large amounts of data. Mechanical engineering faces several challenges today, such as designing systems and components for our future, respectful of sustainability and energy efficiency. Incorporating advanced technologies into their designs can help mechanical engineering. An example of such a technology is AI and data analytics. There has been tremendous progress in AI in areas such as autonomous vehicles. Focusing more specifically on upfront mechanical design, we will see the application of a machine learning algorithm by Neural Concept in a collaborative scenario; taken not from the future, but from the present.

Some of the mechanical engineering challenges are: Sustainability, Energy-efficient systems, Competition between companies and profitability for shareholders, Finally, engineers must keep updated with new technologies and incorporate them into their designs.

To overcome the above challenges, AI & DA helps in the following:

AI simulates human intelligence in devices programmed to think and learn like humans.

AI focuses on making machines perform specialized tasks that usually need human intelligence such as recognizing speech, understanding natural language (NLP) and, in

general, learning from experience.

The most common process to get a usable AI is to use algorithms and statistical models to let a machine learn from data.

This FDP focuses on understanding the concept of making machines perform specialized tasks that usually need human intelligence such as recognizing speech, understanding natural language (NLP) and, in general, learning from experience.

Objectives of the FDP

The FDP is aimed at imparting knowledge on the fundamentals of Artificial Intelligence with a insight to machine learning and its applications.

The main objective is to make the participants familiar with machine learning and information retrieval techniques

SUBMITTED BY:



Dr. Saleem Khan



SIGNATURE OF HOD

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



SIGNATURE OF PRINCIPAL

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



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT OF FDP: Recent Trends In Mechanical Engineering

Broucher



The brochure features a background image of mechanical gears and a clock. The text is arranged in a structured layout with various fonts and sizes to emphasize key information.

Last Date for Registration
18th July, 2021

**Five Day Online
Faculty Development Program (FDP)**

Topic
**Recent Trends in
Mechanical Engineering**

**July 20 - 24,
2021**

Jointly organized by

IET The Institution of Engineering and Technology
Delhi Local Network

IcfaiTech
Faculty of Science & Technology (FST)

About The ICFAI University, Jaipur

The ICFAI University, Jaipur has been established under The ICFAI University, Jaipur Act, 2011 (Act No. 26 of 2011) passed by Legislative Assembly of Rajasthan. The University has been notified under Notification No. F. 2(26) Vidhi/2/2011 dated September 22, 2011. The University is sponsored by The ICFAI Society - a not-for-profit educational society established in 1984, who has made a significant mark in the Indian educational field with a pan-Indian network and established 11 Universities across India.

About the Course

Field of mechanical engineering requires an understanding of core areas which includes mechanics, dynamics, thermodynamics, materials science, structural analysis, and electricity. In addition to these core moralities, mechanical engineers use tools such as computer-aided design (CAD), computer-aided manufacturing (CAM), and product life cycle management to design and analyze manufacturing plants, industrial equipment and machinery, transport systems, aircraft, cooling and heating systems, robotics, weapons medical devices, and others. It is the branch of engineering that involves the design, production, and operation of machinery.

THE ICFAI UNIVERSITY JAIPUR

IcfaiTech

Minute to Minute Program Schedule of

Five Days Faculty Development Program (FDP) on Recent Trends in Mechanical Engineering
In Association with IET (UK) Delhi Local Network

Venue- Virtual
(July 20 – July 24, 2021)

Day 1 20th July, 2021

Time (in IST)	Function
02:35 PM – 02:38PM	Welcome:
02:39PM-02:40 PM	Saraswathi Vandana
02:41PM-02:44 PM	Video, Introducing The ICFAI University Jaipur by Host
02:45PM-02:50 PM	Introduction of Faculty Development Program by Dr. A. K. Saini , Associate Dean, IcfaiTech
02:51 PM-02:56 PM	Welcome Note by Hon'ble President, Dr. H P Singh, VSM
02:57 PM-03:12 PM	Introduction of Guest of Honor – Mr. Mahtab Singh , Chairman, IET(UK) , Delhi Local Network followed by his message
03:13 PM-04:15 PM	Introduction of Keynote Speaker Dr. N. N. Sharma , Pro-President , Manipal University , Jaipur followed by his deliberation
04:16 PM–05:16 PM	Speaker 1. Dr. Inturi Vamsi , Chaitanya Bharathi Institute of Technology, Hyderabad
05:17 PM-05:19 PM	Vote of Thanks by Dr. Jyotsna Verma

Day 2 21st July, 2021

Time(in IST)	Function
12:55PM-01:00 PM	Event Descriptions Day 2 by host
01:00 PM-02:00 PM	Speaker 1 Mr. Arvind Tomar , Scientific officer-D, Engineer at Institute For Plasma Research, Gandhinagar
02:00 PM-03:00 PM	Speaker 2. Dr. Dungali Sreehari , NIT, Uttarakhand
03:00 PM-04:00 PM	Speaker 3. Dr. Manoj Kumar Gupta ,MNNIT Allahabad
04:00PM-04:02 PM	Vote of Thanks by Dr. P. K. Arya

Day 3
22nd July, 2021

Time(in IST)	Function
01:55PM-02:00 PM	Event Descriptions Day 3 by host
02:00 PM-03:00 PM	Speaker 1, Dr. Nevine Makram Labib Global Forum for Higher Education and Scientific Research Cairo, EGYPT
03:00 PM-04:00 PM	Speaker 2, Prof. Vijay Kumar , Govt. Engineering College , Azamgarh
04:00 PM-05:00 PM	Speaker 3, Dr. R K Gupta , Professor, Manipal University , Jaipur
5:00PM-5:02 PM	Vote of Thanks by Dr. Narendra Kumar

Day 4
23rd July, 2021

Time(in IST)	Function
01:55PM-02:00 PM	Event Descriptions Day 4 by host
02:00 PM-03:00 PM	Speaker 1 Dr. Arvind Kumar Verma Professor , Production and Industrial Engineering , JNV University, Jodhpur, Rajasthan, India
03:00 PM-04:00 PM	Speaker 2 Dr. Srikanta Routroy Professor, Mechanical Engineering Department Birla Institute of Technology & Science, Pilani
4:00PM-4:02 PM	Vote of Thanks by Dr. R. K Chaurasia

Day 5
24th July, 2021

Time(in IST)	Function
11:25AM-11:27 AM	Event Descriptions Day 5 by host
11:27 AM-11:30 AM	Welcome Note by President Sir
11:30AM-12:45 PM	Speaker 1. Dr Rajeev Nayan Gupta , NIT, Silchar ,Assam
12:45PM-02:00 PM	Speaker 2. Dr. Tej Pratap , MNNIT, Allahabad
02:00PM-03:00 PM	Speaker 3. Mr. Pradeep Chaturvedi , Chairman, Integrated Coordination Committee of The Institution of Engineers
03:00PM-03:07 PM	Vote of Thanks by Dr. Rana Mukherji

Report

Faculty Development Program (FDP) Report

Title: Recent Trends In Mechanical Engineering

Date: 20th to 24th July 2021 online

Program Coordinator: Programme Convener: Dr. P K Arya, IcFAi TECH, Jaipur

Programme President: Prof. H P Singh , IcFAi TECH university, Jaipur

Participant: Dr. Nirmala L, KSIT

Summary:

The FDP dealt with the interdisciplinary nature of modern mechanical engineering, which integrates principles from physics, materials science, computer science, and other fields to

address complex challenges and drive innovation in diverse industries. The topics discussed were about green engineering, additive manufacturing, automation, IOT, IOE and various other topics. The FDP effectively gave insight about various sectors advanced in mechanical field and also fostering a deeper understanding and teaching capability of modern mechanical engineering technologies amongst participants.

Objectives of the FDP

To enhance the knowledge of latest technologies used in manufacturing sector.

To create awareness of IOT and IOE

SUBMITTED BY:

Dr.Nirmala L

Nirmala L



SIGNATURE OF HOD

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

SIGNATURE OF PRINCIPAL

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



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, RaghuvanaHalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT OF FDP:

Short term course on, “Enduring Trends in Hydraulic Control Systems: Past, Present & Future”,

Broucher

BACKGROUND AND SCOPE

The field of fluid power technology is assuming increasing importance in every sphere of industry. Two of the most important advantages of fluid power transmission are the ability to multiply force and the flexibility to change direction quickly without damage to the system. The importance of the fundamental knowledge of hydraulic components in various fields like aerospace, production, and system controls has been widely felt.

The latest trend in hydraulic component development is the energy and weight saving technologies for hydraulic drives that are favorable in many industrial applications. With the complexity of today's industrial processes, the early fault identification and diagnosis through electro hydraulic control system is gaining importance. With the advent of electronics integration to hydraulic valves, most of the operations are carried out through proportional and servohydraulics precisely. Similarly, computational tools are applied for analysis and optimization of various parameters in hydraulic system. The latest is the use of MEMS (Micro Electro Mechanical Systems) application in the fluid power technology. Keeping in view the above developments, a one week short term training module is developed for faculty and practicing engineers who wish to have an insight into the components and operation of hydraulic and pneumatic systems. The mathematical content has been kept simple with the aim of making the course good rather than rigorous.

COURSE OBJECTIVES

The proposed STC is aimed to make the participants aware of the Fluid Power Technology globally prevailing in the area of Industries/Defense in general and multi domain applications in particular.

COURSE CONTENTS

The course will deal with the fundamentals and diversified industrial /Defense applications. Course would also cover demonstration of the existing know-how and facilities in the lab. The major contents are as follows -

- Enduring trends in Fluid Power Technology-Past and Present
- Introduction to Fluid Power Technology- Components, Application and Basic Laws
- Pumping Theory, Construction and Operational features of Hydraulic pumps and Efficiencies

- Constructional features, selections and Applications of Control Elements - Direction Control, Pressure Control and Flow control Valves
- Construction and Operational features of Fluid Power Actuators and Their Efficiencies
- Design and Analysis of Fluid Power Circuits
- Electro-pneumatics
- Proportional and Servohydraulics
- Modeling of Fluid Power Components
- Accessories- Filters Accumulators, Seals and Maintenance

DELIVERY MODE

Online through Google Meet. Link will be shared upon acceptance.

RESOURCE PERSONS

The experts from the R&D Labs, Industry and Faculty from Department of Mechanical Engineering IIT Madras.

ABOUT THE DEPARTMENT OF MECHANICAL ENGINEERING, IIT Madras

Mechanical Engineering is one of the major activities in the engineering profession and its principles are involved in the design, study, development and construction of nearly all of the physical devices and systems. Continued research and development have led to better machines and processes helping the mankind.

The Department of Mechanical Engineering at IIT Madras is as old as the Institute itself. Its impact on the institute and on society is easily demonstrated by noting the alignment of the department's evolution with key events and technological advances in the India and elsewhere. Today, the department of Mechanical engineering of IIT Madras attracts and features an extraordinary rich diversity and quantity of talented individuals, with nearly 700 undergraduates, 500 graduate students and over 60 faculty members. The impressive array of students makes the department as the largest in the country and one of the largest in Asia.

In addition to teaching undergraduate and graduate students, the faculty of Mechanical Engineering actively pursues research through graduate students. The current graduate students include nearly 150 Master of Technology students (M.Tech), 170 Master of Science (by research) students (M.S.) and 300 students pursuing their doctoral programme (Ph.D).

AICTE Sponsored

Short Term Course (STC) on

“Enduring Trends in Hydraulic Control Systems: Past, Present and Future”

Co-Sponsored by FPSI, Madras Chapter

March 22-27, 2021

Registration Form

1. Name
2. Designation
3. Educational Qualification
4. Department
5. Organization
6. Teaching Experience
7. Favorite Subjects
8. No. of STCs attended so far
At IIT Madras ____ At other places ____ Total ____
9. Mailing Address
10. Telephone
11. E-mail

Date: Signature of the Applicant

Activate Windows

SPONSORSHIP CERTIFICATE

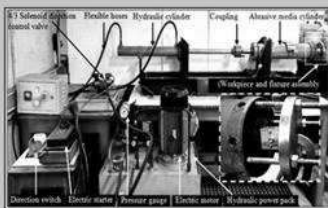
Certified that Dr/Mr/Ms _____
_____ is being sponsored hereby
for attending the AICTE Sponsored Short Term Course
(STC) on "Enduring Trends in Hydraulic Control
Systems: Past, Present and Future" to be conducted
at Indian Institute of Technology Madras, Chennai from
March 22-27, 2021, if selected. Also this is to certify that
this institute is recognized by AICTE.

Signature and seal of Sponsoring Authority
(Head of the Institution)

Place:
Date:

PLEASE SEND THE SCANNED SOFT COPIES TO

Mr. Ishwar Bhiradi: me17d025@small.iitm.ac.in
WhatsApp Contact: 8497040087



ABOUT THE MANUFACTURING ENGINEERING SECTION

The Manufacturing Engineering Section is spread over three laboratories, one housed in Ranganathan Building, one in the Machine Tool Laboratory and third one Precision Engineering and Instrumentation laboratory in Mechanical Sciences Block. Faculty members, technical staffs and research scholars are focused on the development of next generation advanced manufacturing processes and cutting tools, machining of difficult-to-machine materials, machining and forming at micro and nano scales, friction and laser based surface engineering, microstructural alterations to improve the material properties, infusing smartness into the processes and machines, automation of processes at different levels, high precision measurement and characterization at all length-scales

ELIGIBILITY & ENTITLEMENT

Faculty of Mechanical, Industrial Production, Mechatronics, Automobile, Ocean Engineering, Aerospace and ECE departments from AICTE recognized Engineering Colleges only are eligible to apply.

Participation certificate will be issued on successful completion of the course.

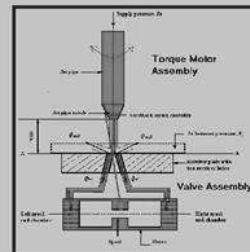
DATES TO REMEMBER

• **Registration Form** duly signed by the Head of the Institution should reach the organizers before 18th March 2021.

• **Notification of Acceptance:** 18th March 2021 (through email only).



AICTE Sponsored
Short Term Course (STC) on
"Enduring Trends in Hydraulic Control
Systems: Past, Present and Future"
Co-Sponsored by FPSI, Madras Chapter
March 22-27, 2021



Course Coordinator

Dr Somashekhar S Hiremath

Organized by



Department of Mechanical Engineering
Indian Institute of Technology Madras
Chennai-600 036 India
www.iitm.ac.in

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One Week AICTE Sponsored Short Term Course (STC) on Enduring Trends in Hydraulic Control Systems: Past, Present and Future 22 - 27 March 2021

Coordinator: Dr Somashekhar S Hiremath

Time / Day	09:00 - 11:00	11:00 - 11:30	11:30 - 1:30	1:30 - 2:30	2:30 - 4:30
	Inauguration		Lecture - 2		Lecture - 3
Monday (22-03-2021)	Lecture - 1 Topic – Introduction to fluid power systems Speaker – Dr. S. S. Hiremath		Topic – Fluid Power Systems-Status and Development Trends in Hydraulics Speaker – Dr. M. Singaperumal		Topic – Acousto-microfluidics - handling of small objects using sound waves Speaker – Dr. A. K. Sen
Tuesday (23-03-2021)	Lecture - 4 Topic – Effects of system parameters in series hydraulic hybrid system with hydrostatic regenerative braking Speaker – Dr. R. Ramakrishnan		Lecture - 5 Topic – Surface topography and wettability of the metallic surface machined through abrasive flow finishing Speaker – Dr. Santhosh Kumar		Lecture - 6 Topic – Digital Hydraulics Speaker – Dr. M. Singaperumal
Wednesday (24-03-2021)	Lecture - 7 Topic – The role of fluid power in machine tools Speaker – Dr. G. L. Samuel	Tea Break	Lecture - 8 Topic – Open surface microfluidics: controlling droplets motion Speaker – Dr. Pallab Sinha Mahapatra	Lunch Break	Lecture - 9 Topic – Investigation on the performance evaluation of EHA Speaker – Dr. Navatha Alle
Thursday (25-03-2021)	Lecture - 10 Topic – Pressure measurements in the IC engines Speaker – Dr. J. M. Mallikarjuna		Lecture - 11 Topic – Hydraulic circuits development and analysis Speaker – Dr. S. S. Hiremath		Lecture - 12 Topic – IoT implementation on Hydraulic systems Speaker – Dr. K. R. Prakash
Friday (26-03-2021)	Lecture - 13 Topic – Role of system simulation-modelling in fluid power systems Speaker – Dr. S. S. Hiremath		Lecture - 14 Topic – Generation, characterization of Nanoparticle using micro-EDM Speaker – Dr. R. K. Sahu		Interaction with Research Scholars (Micromachining Facilities)
Saturday (27-03-2021)	Lecture - 15 Topic – Role of Smart Material Actuators in Hydraulic Control Valves Speaker – Dr. Karunanidhi		Lecture - 16 Topic – Bond graph modelling of hydraulic components Speaker – Dr. T. Asokan		Lecture - 17 Topic – Experimental investigation on cryogenic tank pressurization system Speaker – Dr. A. Manimaran
					Valedictory

Report

Faculty Development Program (FDP) Report

Title: Short term course on, “Enduring Trends in Hydraulic Control Systems: Past, Present & Future”,

Date: 22-03-2021 to 27-03-2021 online

Participant: Mr .Anil Kumar. A

SUMMARY

In field of fluid power technology is assuming increasing importance in every sphere of industry. Two of the most important advantages of fluid power transmission are the ability to multiply force and the flexibility to change direction quickly without damage to the system. The importance of the fundamental knowledge of hydraulic components in various fields like aerospace, production, and system controls has been widely felt. The latest trend in hydraulic component development is the energy and weight saving technologies for hydraulic drives that are favorable in many industrial applications. With the complexity of today's industrial processes, the early fault identification and diagnosis through electro hydraulic control system is gaining importance. With the advent of electronics integration to hydraulic valves, most of the operations are carried out through proportional and servo hydraulics precisely. Similarly, computational tools are applied for analysis and optimization of various parameters in hydraulic system. The latest is the use of MEMS (Micro Electro Mechanical Systems) application in the fluid power technology. Keeping in view the above developments, a one week short term training module is developed for faculty and practicing engineers who wish to have an insight into the components and operation of hydraulic and pneumatic systems. The mathematical content has been kept simple with the aim of making the course good rather than rigorous.

COURSE OBJECTIVES:

The proposed STC is aimed to make the participants aware of the Fluid Power Technology globally prevailing in the area of Industries/Defense in general and multi domain applications in particular

COURSE CONTENTS

The course will deal with the fundamentals and diversified industrial / Defense applications. Course would also cover demonstration of the existing know-how and facilities in the lab. The major contents are as follows - Enduring trends in Fluid Power Technology-Past and Present Introduction to Fluid Power Technology Components, Application and Basic Laws Pumping Theory. Construction and Operational features of Hydraulic pumps and Efficiencies Constructional features, selections and Applications of Control Elements - Direction Control, Pressure Control and Flow control Valves Construction and Operational features of Fluid Power Actuators and Their Efficiencies Design and Analysis of Fluid Power Circuits Electro-pneumatics Proportional and Servo hydraulics Modeling of Fluid Power Components Accessories- Filters Accumulators, Seals and Maintenance

DELIVERY MODE Online through Google Meet. Link will be shared upon acceptance.

RESOURCE PERSONS The experts from the R&D Labs, Industry and Faculty from Department of Mechanical Engineering IIT Madras

SUBMITTED BY:

Mr .Anil Kumar. A




SIGNATURE OF HOD

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


SIGNATURE OF PRINCIPAL

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BENGALURU - 560 109.



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

REPORT OF FDP:

“Orienting Applications & Conceptualized Aspects of Sciences & Humanities”

Brochure:

Balaji Institute of Technology & Science
Affiliated to JNTU, Hyderabad. Approved by AICTE, New Delhi.
Accredited by NBA (UG-CE, ME, ECE, CSE) & NAAC.
Certified by ISO 9001-2015.
Laknepally, Narsampet, Warangal Rural-506331, Telangana.

Department of Humanities and Sciences
Organizing

Date: 21st – 25th July 2020

**National
Level
FDP**

on

**Orienting Applications & Conceptualized
Aspects of Sciences & Humanities**

Report

Faculty Development Program (FDP) Report

Title: Orienting Applications & Conceptualized Aspects of Sciences & Humanities

Date: 21st July 2020 to 25th July 2020, Balaji Institute of Technology, Telangana

Participants: 1) Dr. Jalaja P

Summary:

The topic "Orienting Applications & Conceptualized Aspects of Sciences & Humanities" in the context of an FDP (Faculty Development Program) seems to delve into the intersection of practical applications and theoretical concepts within both the sciences and humanities fields.

In this FDP, educators and researchers likely explore how to bridge the gap between theoretical knowledge and real-world applications across various disciplines. They may discuss strategies for integrating practical, hands-on experiences with conceptual understanding to enhance learning outcomes.

Objectives of the FDP

The objective of the Faculty Development Program (FDP) on "Orienting Applications & Conceptualized Aspects of Sciences & Humanities" is to provide educators with the tools, strategies, and interdisciplinary perspectives necessary to effectively bridge theoretical knowledge with practical applications in both the sciences and humanities.

Submitted by



Balaji Institute of Technology & Science

Affiliated to JNTU Hyderabad, Approved by AICTE, New Delhi

Accredited by NBA (UG-CE, ME, ECE, CSE) & NAAC

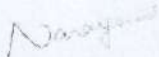
Certified by ISO 9001-2015.


Laknepally, Narsanipet, Warangal Rural-506331, Telangana



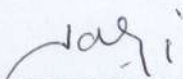
Certificate of Participation


This is to certify that Mrs. JALAJA P, Assistant Professor, Mathematics, K.S. INSTITUTE OF TECHNOLOGY has successfully completed the National Level One Week Confederated Online Faculty Development Program on "Orienting Applications & Conceptualized Aspects of Sciences & Humanities" organized by Dept. of Humanities & Sciences from 21 to 25 July, 2020.


CONVENER
Dr. V. Narayana
Assoc. Prof & HoD


PRINCIPAL
Dr. V. S. Hariharan

Dr. Jalaja P


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


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#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

REPORT OF FDP:

“Advanced Manufacturing Techniques for Medical and Precision Engineering”

Brochure:



(Affiliated to VTU, Belagavi, Approved By AICTE, New Delhi,
Recognized by UGC under 2(f) & 12(B)
Accredited By NBA and NAAC)

AICTE Sponsored STTP

**"Advanced Manufacturing Techniques for
Medical and Precision Engineering"**

Organized by

Department of Mechanical Engineering, IIC and IQAC

Guest Speaker

Dr. J. Ram Kumar

Professor, Department of Mechanical Engineering, IIT Kanpur

Presided by

Dr. P. Mahabaleswarappa

Principal,
MVJCE, Bangalore

Prof. Vaman B. Gudi
Registrar & COE
MVJCE, Bangalore

Prof M. Brindha
Vice Principal
MVJCE, Bangalore

Report

Faculty Development Program (FDP) Report

Title: Advanced Manufacturing Techniques for Medical and Precision Engineering

Date: 4th January 2021 to 9th January 2021, MVJ College of Engineering, Bangalore.

Participants: 1) Dr. Kiran Kumar S.R

Summary:

The training program "Advanced Manufacturing Techniques for Medical and Precision Engineering" is designed to provide participants with specialized knowledge and skills in the application of advanced manufacturing methods within the fields of medical and precision engineering.

Through a series of interactive workshops, hands-on training sessions, and expert-led lectures, participants will explore cutting-edge manufacturing technologies and techniques tailored specifically for the production of medical devices and precision-engineered components.

Objectives of the FDP

The objective of the "Advanced Manufacturing Techniques for Medical and Precision Engineering" training program is to provide participants with specialized knowledge, practical skills, and industry insights necessary to excel in the application of advanced manufacturing methods within the domains of medical device manufacturing and precision engineering.

Submitted by



An Autonomous Institute
(Affiliated to VTU, Belagavi, Approved By AICTE, New Delhi,
Recognized by UGC with 2(f) & 12(B) Status
Accredited By NBA and NAAC)

Participation Certificate

This is to certify that Dr. DR. KIRAN KUMAR S.R from ksit has attended A One Week AICTE Sponsored Short Term Training Program titled "Advanced Manufacturing Techniques for Medical and Precision Engineering", organized by the Department of Mechanical Engineering in association with IIC and IQAC, MVJ College of Engineering Bengaluru, from 04 - 09 January 2021.

Dr. G. Anand
HOD ME, MVJCE

Dr. P. Mahabaleswarappa
Principal, MVJCE

Dr. Kiran Kumar S. R

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Head of the Department
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Institute of Technology
Bengaluru - 560 109

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DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

REPORT OF FDP:

“Application of Mathematics in Engineering”

Brochure:



**KPR Institute of
Engineering and
Technology**
Learn Beyond (Autonomous, NAAC "A")



**Department of
Civil Engineering**
Born to Build

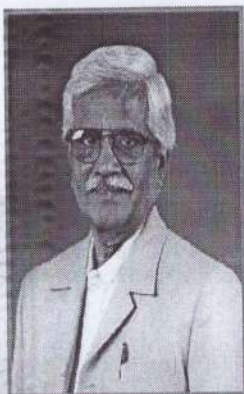


Organizes

Six Days Faculty Development Programme

on

"Applications of Mathematics in Engineering"



Chief Guest

Dr. S. Jeyachandran

**Vice President Marutham
Groups**

20-07-2020 to 25-07-2020

The Legend, KPRIET

Convenors:

Dr. V. Rajesh Kumar AP(SI.G)

Mr. S. Yuvaraj AP (Sr.G)



kpriet.ac.in/ **KPRIETonline**

Report

Faculty Development Program (FDP) Report

Title: Application of Mathematics in Engineering

Date: 20th July 2020 to 25th July 2020, KPR Institute of Engineering & Technology, Coimbatore

Participants: 1) Mr. Venkataramana B S

Summary:

The Faculty Development Program (FDP) on "Application of Mathematics in Engineering" is designed to explore the vital role of mathematics in various engineering disciplines and equip educators with the knowledge and skills to effectively integrate mathematical concepts into engineering curricula.

Throughout the program, participants will delve into the diverse applications of mathematics in engineering, ranging from fundamental concepts such as calculus, linear algebra, and differential equations to advanced topics such as numerical methods, optimization, and mathematical modeling. They will gain insights into how mathematical principles underpin engineering theories, design methodologies, and problem-solving approaches across fields such as mechanical, civil, electrical, and chemical engineering.

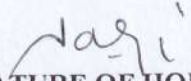
Objectives of the FDP


The objective of the Faculty Development Program (FDP) on "Application of Mathematics in Engineering" is to enhance the pedagogical and practical understanding of mathematics among engineering educators, enabling them to effectively integrate mathematical concepts into engineering curricula and prepare students for successful careers in engineering practice.

Submitted by

 <p>KPR Celebrating Knowledge</p>	<p>KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY (Autonomous) Avinashi Road, Arasur, Coimbatore - 641 407 +91 422 2635800 info@kpriet.ac.in www.kpriet.ac.in</p>	 <p>INSTITUTIONAL INNOVATION COUNCIL (GOVERNMENT OF INDIA)</p>
<p>ONLINE WEBINAR</p>		
<p>Certificate Of Participation</p>		
<p>This is to certify that</p>		
<p>Venkataramana B.S of K.S. Institute of Technology</p>		
<p>has participated in the</p>		
<p>SIX DAY FACULTY DEVELOPMENT PROGRAMME ON</p>		
<p>"APPLICATIONS OF MATHEMATICS IN ENGINEERING"</p>		
<p>conducted by DEPARTMENT of MATHEMATICS</p>		
<p>KPRIET held from 20-07-2020 to 25-07-2020</p>		
<p> HoD, Mathematics Dr.K.S.Ramaswami</p>		<p> Principal Dr.M.Akila</p>

Mrs. Venkataramana B.S


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K.S. Institute of Technology
Bengaluru - 560 109


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#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

REPORT OF FDP:

“New generation solar cells”

Brochure:



B. N. M. Institute of Technology

Affiliated to V.T.U., Belgaum | Approved by A.I.C.T.E., New Delhi

Department of Physics

Organizing

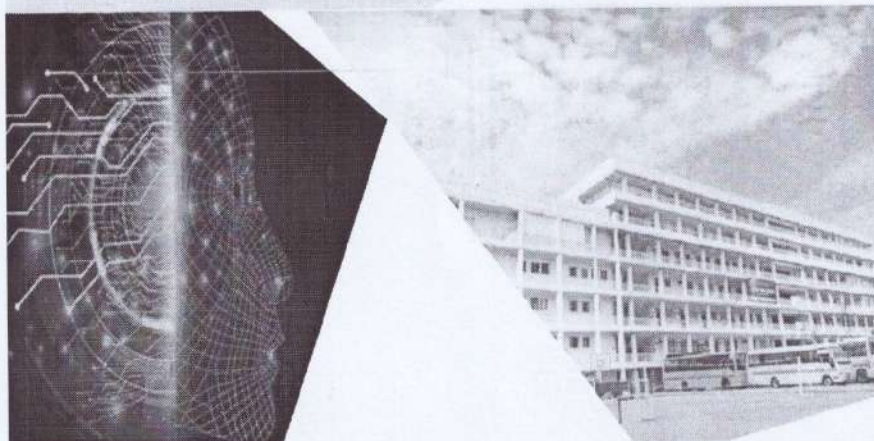
Five Days online

FACULTY DEVELOPMENT PROGRAM

on

“New Generation Solar Cells”

Date: 19th – 25th October 2020



Report

Faculty Development Program (FDP) Report

Title: New generation solar cells

Date: 19th October 2020 to 23rd October 2020, BNM Institute of Technology, Bangalore.

Participants: 1) Mr. Sunil Kumar N

Summary:

The Faculty Development Program (FDP) on "New Generation Solar Cells" aims to explore cutting-edge advancements in solar cell technology and equip participants with the knowledge and skills to integrate these innovations into their research and teaching practices.

Throughout the program, participants will delve into the latest developments in solar cell materials, designs, and manufacturing techniques that characterize the new generation of solar cells. This may include emerging technologies such as perovskite solar cells, tandem solar cells, organic photovoltaics, and quantum dot solar cells.

Objectives of the FDP

The objective of the Faculty Development Program (FDP) on "New Generation Solar Cells" is to provide participants with a comprehensive understanding of cutting-edge advancements in solar cell technology and equip them with the knowledge and skills to effectively integrate these innovations into their research, teaching, and professional practice.

Submitted by



B. N. M. Institute of Technology


27th Cross, 12th Main, Banashankari 2nd Stage, Bengaluru - 560 070, INDIA
Ph: 91-80-26711780/81/82 E-mail: principala@bmit.in, www.bmit.org




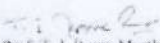
DEPARTMENT OF PHYSICS

Certificate

This is to certify that Dr./Mr./Mrs./Ms. **SUNIL KUMAR N**
of **K S INSTITUTE OF TECHNOLOGY** has participated in Online Five-Day Faculty
Development Program on "New Generation Solar Cells", organized by the Department of Physics,
B.N.M. Institute of Technology, Bengaluru from 19th to 23rd October 2020.


Dr. Deepa H. R.
HOD, Dept. of Physics
BNMIT, Bengaluru


Dr. Krishnamurthy G. S.
Principal
BNMIT, Bengaluru


Prof. T. J. Rama Murthy
Director
BNMIT, Bengaluru



National Institutional Ranking
Framework Ministry of Human
Resource Development, Govt. of India
has ranked BNMIT at the 181st of all India among under
Engineering Category (including B.Tech, B.E and B.Tech)



NBA
All 16 branches
of Engineering, B.Tech, B.E, B.Arch
Mechanical, EEE
accredited by NBA for Academic
years 2016-19 to 2020-21



Distance Education
Council has awarded BNMIT
with A Grade



BNMIT has been
recognized by All
IGADT Universities
in Academic, Administrative and
Online Education



BNMIT has secured
150th rank in All
India Engineering
2020 among top 150 engineering
institutions in India



BNMIT has secured
200th rank in All
India IMPACT
Ranking at top 100
institutions, Education Post

Mr. Sunil Kumar N


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Head of the Department

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


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BENGALURU - 560 109.



KSIT
K. S. INSTITUTE OF TECHNOLOGY

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

REPORT OF FDP:

“Recent trends in Applicable Mathematics”

Brochure:



Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

MoE, UGC & AICTE Approved

NAAC A++ Accredited

Department of Mathematics

Organizing

Five Days online

**FACULTY DEVELOPMENT
PROGRAM**

on

“Recent Trends in Applicable Mathematics”

Date: 27th – 31st July 2020

Report

Faculty Development Program (FDP) Report

Title: Recent trends in Applicable Mathematics

Date: 27th July 2020 to 31st July '2020, Karunya Institute of Technology & Sciences, Coimbatore.

Participants: 1) Mr. Chowdappa M. R


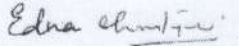

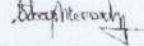
Summary:

The Faculty Development Program (FDP) on "Recent Trends in Applicable Mathematics" focuses on exploring and understanding the latest advancements and applications of mathematics in various fields, such as science, engineering, economics, and data analysis. Throughout the program, participants will delve into cutting-edge research topics and practical applications where mathematics plays a crucial role. This may include areas such as mathematical modeling, optimization techniques, machine learning, cryptography, and computational methods.

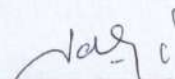
Objectives of the FDP

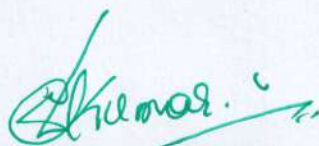
The objective of the Faculty Development Program (FDP) on "Recent Trends in Applicable Mathematics" is to provide participants with a comprehensive understanding of the latest advancements and applications of mathematics in diverse fields, and to equip them with the knowledge and skills necessary to leverage these trends in their research, teaching, and professional practice.

Submitted by

	Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES (Declared as Deemed to be University under Sec.3 of the UGC Act, 1956) A CHRISTIAN MINORITY RESIDENTIAL INSTITUTION AICTE Approved & NAAC Accredited Karunya Nagar, Coimbatore 641 114, Tamil Nadu, India.	
Certificate of Participation		
This is to certify that Mr. CHOWDAPPA M R has participated in the five days online Faculty Development Programme on Recent Trends in Applicable Mathematics organized by the Department of Mathematics, Karunya Institute of Technology and Sciences, Coimbatore held from 27 July 2020 to 31 July 2020.		
 Dr. K. Rebecca Jebaseeli Edna Organizing secretary	 Dr. A. Hepzibah Christinal Programme Coordinator	 Dr. C. Joseph Kennedy Dean SSAMM

Mr. Chowdappa M. R


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


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



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#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

REPORT OF FDP:

“Being a Super Teacher”

Brochure:



Department of Management Studies

Organizes

One Week Online FDP

on

Being a Super Teacher



Date

6th – 12th July 2020

Report

Faculty Development Program (FDP) Report

Title: Being a Super Teacher

Date: 6th July 2020 to 12th July 2020,

Participants: 1) Mrs. Lakshmi C

Summary:

The Faculty Development Program (FDP) on "Being a Super Teacher" is designed to empower educators with the knowledge, skills, and mindset to excel in their teaching roles and positively impact student learning outcomes.

Throughout the program, participants will explore various aspects of effective teaching and pedagogy, focusing on strategies and techniques that elevate their teaching practices to the level of a "super teacher."

Objectives of the FDP

The objective of the Faculty Development Program (FDP) on "Being a Super Teacher" is to empower educators with the knowledge, skills, and mindset necessary to excel in their teaching roles and positively impact student learning outcomes.

Submitted by



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

SCHOOL OF MANAGEMENT STUDIES

C E R T I F I C A T E

OF PARTICIPATION

This certificate is awarded to Mr./Ms./Dr. LAKSHMI C, Assistant professor, K.S.Institute of technology, Bengaluru for participating in the one week online FDP on "Being a Super Teacher" from July 6 to July 12, 2020

DIRECTOR (SMS), BIT

PRINCIPAL, BIT

, Mrs. Laksmi C

SIGNATURE OF HOD
Head of the Department

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

SIGNATURE OF PRINCIPAL

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K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

REPORT OF FDP:

“Material Synthesis and Characterization for Device Applications”

Brochure:



NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

An Autonomous Institution With A+ Grade By NAAC UGC | Approved By UGC / AICTE / Govt. of Karnataka | Bengaluru

Dept. of Physics and Chemistry

Organizes

on

One Week FDP

Carrier Opportunities/Future in Clinical Research

Date: 31st August – 5th September 2020

Report

Faculty Development Program (FDP) Report

Title: Material Synthesis and Characterization for Device Applications

Date: 31st August 2020 to 5th September 2020, NMIT, Bangalore.

Participants: 1) Mrs. Shylaja K.R

Summary:

The Faculty Development Program (FDP) on "Material Synthesis and Characterization for Device Applications" is designed to provide participants with a comprehensive understanding of the processes involved in synthesizing materials and characterizing their properties for use in various device applications.

Throughout the program, participants will explore the principles, techniques, and methodologies used in material synthesis and characterization, with a focus on their relevance to the development of devices in fields such as electronics, optoelectronics, energy storage, and biomedical engineering.

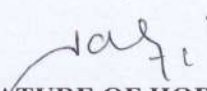
Objectives of the FDP

The objective of the Faculty Development Program (FDP) on "Material Synthesis and Characterization for Device Applications" is to equip participants with the knowledge, skills, and practical expertise required to effectively synthesize materials and characterize their properties for use in various device applications.

Submitted by



Mrs. Shylaja K. R


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


SIGNATURE OF PRINCIPAL
PRINCIPAL
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DEPARTMENT OF BASIC SCIENCE AND HUMANITIES

5 Day FDP on the theme “Inculcating Universal Human Values in Technical Education”

Date and Time of FDP: 18th October to 22nd October 2020.

Organized by: All India Council for Technical Education (AICTE)

Through: Online .

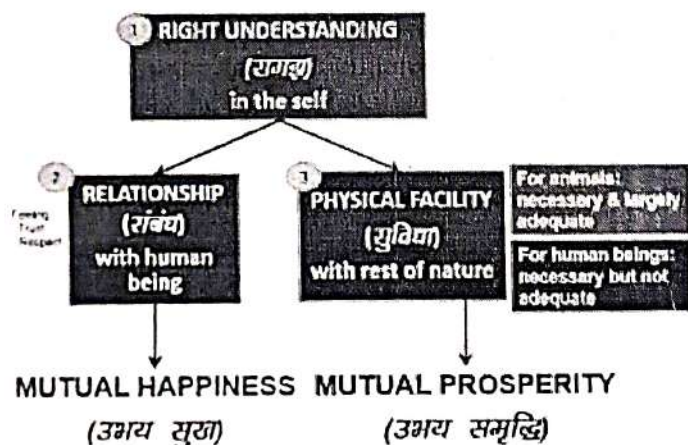
Scope and Objectives: This workshop is about living with fulfillment in our practical day-to-day life. Education is expected to facilitate this aspiration by helping the student to develop a holistic world view as well as the practical skills for living with fulfillment, i.e., living in harmony as an individual as well as with family, society and the natural environment.

Day 1: Introduction for value education

Need for Value Education

Content of Value Education: The value of an entity is its participation in the larger order of which it is a part. The context is always the larger order. Value has to do with the participation of a unit in the larger order. E.g. a piece of chalk is a unit. The classroom is the larger order for this unit. The value of chalk is that it can be used to write on the blackboard for the desired functioning of the classroom.

Priority: Right Understanding, Relationship & Physical Facility



Understanding Natural Acceptance – the basis for Right Understanding

Right understanding obtained through self-exploration can be recognised as follows:

- It is assuring
- It is satisfying
- It is universal

Self-exploration is a process of seeing the reality on our own right, by our own investigation, observation and analysis. It is a process of dialogue between “what I am” and “what is naturally acceptable to me”. It includes verifying the proposals on the basis of natural acceptance (which is not

the same as acceptance) and validating experientially in living.

Exploring the Meaning of Happiness and Prosperity

Happiness is to be in a state of harmony. The expanse of our living is at four levels (individual human being, family, society and nature/existence), and thus the program for continuity of happiness is to be in harmony at all these levels. Prosperity is the feeling of having more than required physical facility.

Day 2 : Understanding the Human Being (As Co-existence of Self and Body)

The Needs of the Self and the Body

The need of the Self is happiness (e.g. feeling of respect leading to happiness) while the need of the Body is physical facility (e.g. food). All the needs related to the Self are continuous in time while all the needs related to the Body are required for a limited time. This is one way we can differentiate between the need of the Self and the need of the Body.

The Activities of the Self and the Body

The Self has the activity of desire, thought and expectation which are continuous. On the other hand, any activity of the Body, like eating, walking, etc. is temporary in time.

The Response of the Self and the Body

The response of the Body is based on recognizing and fulfilling whereas the response of the Self is based on knowing, assuming, recognizing and fulfilling. The recognition and fulfilment of the Body is definite, while that of Self is determined by the activity of assuming. As assumption changes, the recognition and fulfilment by the Self also changes. The conduct of the human being basically depends upon the response of the Self, as all decisions are made by the Self. Only with the assumptions set right, i.e. assuming based on knowing (which is definite), can recognising and fulfilling be set right; and only then, the conduct can become definite.

Day 3: Understanding Harmony in the Family

Feeling of Relationship as the Basis for Harmony in the Family

The harmony in the family has primarily to do with the fulfilment of relationship between one human being and the other human being. In order to fulfil relationship, it is necessary to understand relationship.

Feelings (values) in relationship:

1. Trust (foundation value)
2. Respect
3. Affection
4. Care
5. Guidance
6. Reverence
7. Glory
8. Gratitude
9. Love (complete value)

Relationship already exists – we don't have to create it; rather we only have to recognise and fulfil it. The family is the basic unit of human-human interaction. The basic issue in family is that of relationship. In relationship, there are nine feelings (values) that can be clearly understood and lived with. There is harmony in the family, mutual happiness in the family, when we understand the feelings and ensure in our living.

Respect is right evaluation at the level of the Self. The complete content of respect is to see that the other is similar to me in terms of purpose, programme and potential; and we are complementary to each

...ther in terms of competence. Over evaluation, under/otherwise evaluation and discrimination are disrespect.

The other feelings in relationship include affection, care, guidance, reverence, glory, gratitude and love. Love is the feeling of acceptance of all; it is the complete value. Justice is ensuring these feelings in oneself and expressing them to the other, leading to mutual happiness. Justice begins from family and extends to the world family, leading to undivided society.

Day 4: Understanding Harmony in the Society

Education is to develop right understanding of the harmony at all levels of being – from self to the entire existence (individual, family, society, and nature/existence). And Sanskar is to develop the basic acceptances of the harmony at various levels.

At the level of society, the human goal is right understanding and right feeling (happiness) in every individual, prosperity in every family, fearlessness (trust) in society and co-existence (mutual fulfilment) in nature/existence. This goal is fulfilled by human order, i.e. systems for education-sanskar, health-self regulation, production-work, justice-preservation and exchange-storage. These systems start with the family order, and are interconnected right up to world family order, leading to universal human order. The natural process of development of a child in an environment of relationship needs to be understood and fulfilled so that the child grows into a human being who can have the competence to participate in the universal human order.

Day 5 :Understanding Harmony in the Nature and Existence

Existence is co-existence, which is in the form of units submerged in space. Units are energised, they are self-organised and they recognise their relationship with other units and participate with them in a mutually fulfilling manner (except for human beings without right understanding).

Existence is co-existence, and the role of human being is to realise co-existence in the Self and live in co-existence in nature/existence, extending up to universal human order. In this way, the unfolding of the co-existence will be completed through human being – resulting into universal order.

Report Submitted By



Anuradha MV
Assistant Professor
Department of BSH , KSIT



Prof Jalaja P
Professor & Head
Department of BSH, KSIT
Head of the Department
Dept. of Science and Humanities
K.S. Institute of Technology
Bengaluru - 560 109



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

Certificate of Participation

This is to certify that Mrs. Anuradha Mv from KSIT, Bangalore has participated and successfully completed the online workshop on Universal Human Value on the theme "Inculcating Universal Human Values in Technical Education" during 19-23 October, 2020 as organized by All India Council for Technical Education(AICTE).

Dr. Rajneesh Arora
Chairman
National Coordination Committee for Induction Program

Prof. Rajive Kumar
Member Secretary, AICTE



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Department of Computer Science& Engineering

FDP REPORT
ON
ADVANCE CONCEPTS ON NETWORKING AND LINUX

Venue: IIT Kanpur

Date: 31-05-2021 to 05-06-2021

I, Mrs. Sougandika Narayan Assistant Professor, Department of CSE, KSIT, attended a Five Days Faculty Development Programme on "Advance Concepts on Networking and Linux" in Online Mode.

Brochure:

Description	Curriculum	Enquiry	Sample Certificate
<p>To further the objectives of EICT Academy under the Ministry of Electronics & Information Technology (MeitY), IFACET brings you various courses in Emerging Technologies, Computer Sciences, Entrepreneurship, Business and many more. This course is curated and delivered by Industry Experts equipped with a wealth of experience and an in-depth understanding of the subject matter.</p> <p>Red Hat Linux (RHEL-8) Essentials and Administration is your gateway to mastering Linux system administration. This course covers hands-on customization and scripting of command line tools, along with fundamental tasks like installation, package management, and user administration for Enterprise Linux.</p> <p>What you will Learn :</p> <ul style="list-style-type: none">• Get hands-on with Linux, mastering installation, customization, and scripting.• Dive deep into Linux's core with expert knowledge on files, command line tools, and system management.• Become a pro at user and group management, task scheduling, and RPM package handling.• Unlock the secrets of Linux permissions and become a Vi Editor expert.• Navigate Linux with confidence, seamlessly sharing files with other Linux users. <p>How this Course Benefits you :</p> <ul style="list-style-type: none">• Become a Linux pro, supercharging your tech career with expert system administration skills.• Elevate your Linux expertise and become a sought-after asset in the world of Enterprise Linux.• Master vital Linux skills to streamline system management, boosting your productivity.• Connect with a supportive community of Linux enthusiasts and professionals, guiding you on your Linux journey.• Enhance your resume with a prestigious IIT Kanpur certification, giving your CV a remarkable edge. <p>Who this course is for :</p> <ul style="list-style-type: none">• Great for IT pros and system admins aiming to shine in the Linux world.• Ideal for tech lovers who want to dive deep into Linux and its administration.• Perfect for businesses and organizations keen to train their teams in Linux system management and customization.• A must for Linux enthusiasts ready to unleash its potential in personal or professional projects.• No prior experience required - this course is your perfect starting point for Linux success!			

About FDP

The Five-Day Online Faculty Development Programme on "Advanced Concepts in Networking and Linux" provided an intensive and comprehensive exploration of key principles and technologies in the fields of networking and Linux operating systems. Through a series of structured sessions, participants



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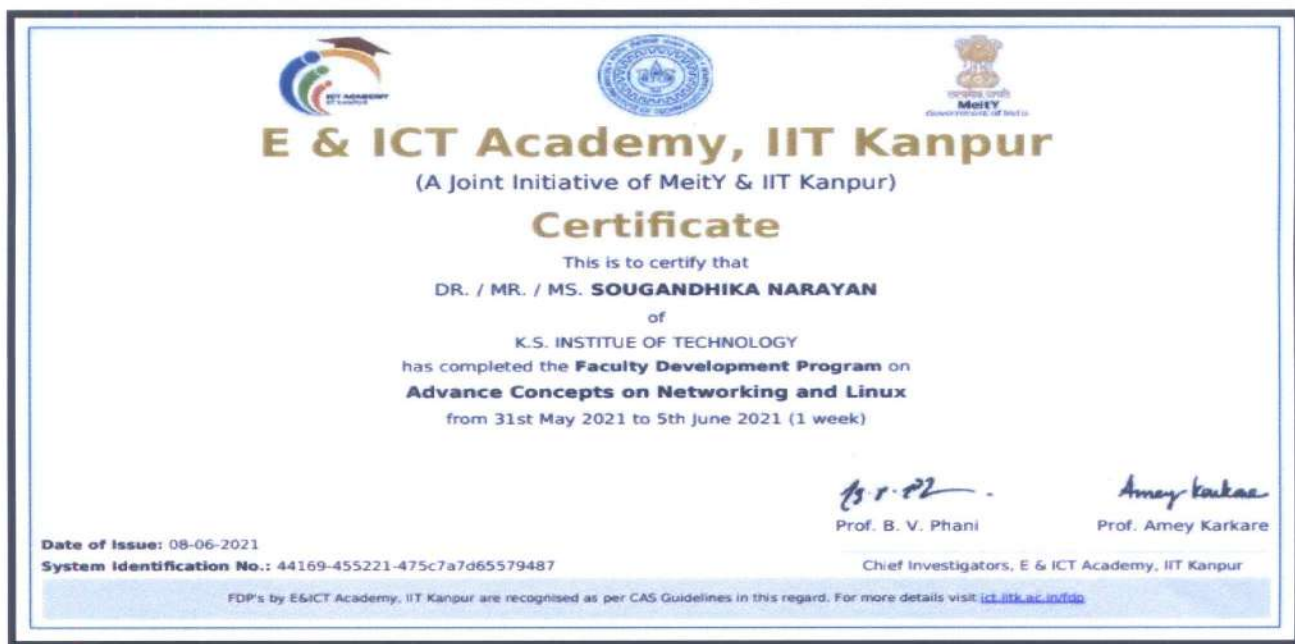
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delved into advanced topics such as network security, virtualization, cloud computing, and advanced Linux administration techniques.

The programme fostered a dynamic learning environment, blending theoretical discussions with hands-on practical exercises and demonstrations. Expert instructors shared their insights and experiences, equipping participants with valuable knowledge and skills to navigate complex networking environments and harness the power of Linux-based systems effectively. Overall, the programme served as a platform for professional development, empowering faculty members to stay abreast of the latest advancements in networking and Linux technology, ultimately enhancing their teaching capabilities and contributing to the academic excellence of their institutions.

Certificate:



SUBMITTED BY: MRS. SOUGHANDHIKA NARAYAN

SIGNATURE OF THE FACULTY

Amey Karkare

HOD

Head of the Department
Dept. of Computer Science
K.S. Institute of Technology
Bengaluru - 560 100

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FDP REPORT
ON
Android Development

Venue: IIT Kanpur

Date: 26-04-2021 to 01-05-2021

I, Mr. Harshavardhan J R Associate Professor, Department of CSE, KSIT, attended a Five Days Faculty Development Programme on "Android Development" in Online Mode.

Brochure

Debugging Tips and Tricks for Android App Development

Debugging plays a crucial role in the development of Android applications. It helps developers identify and fix errors, ensuring that the app runs smoothly and delivers an optimal user experience. In this article, we will explore various debugging tips and tricks that can enhance your efficiency and effectiveness as an Android app developer.

Table of Contents

1. Introduction to Debugging
2. Setting Up the Development Environment
3. Logging and Debugging Statements
4. Using Breakpoints
5. Analyzing Stack Traces
6. Debugging with the Android Studio Debugger
7. Inspecting Variables and Expressions
8. Profiling and Performance Optimization
9. Emulator and Device Debugging
10. Remote Debugging
11. Debugging Network Issues
12. Using Third-Party Debugging Tools
13. Dealing with Memory Leaks
14. Debugging UI and Layout Issues
15. Best Practices for Effective Debugging

About FDP

The Five-Day Faculty Development Programme on "Android Development" in an online mode was an enriching and immersive experience. Throughout the duration of the program, participants were introduced to the fundamental concepts and advanced techniques in Android app development. The curriculum covered various aspects such as user interface design, data storage, networking, and



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security, providing a comprehensive understanding of the Android platform. Through interactive lectures, practical demonstrations, and hands-on coding sessions, participants gained practical experience in building and deploying Android applications.


Expert instructors shared valuable insights, best practices, and real-world examples, equipping participants with the knowledge and skills needed to develop high-quality Android apps. The online mode of delivery facilitated flexible learning, allowing participants to engage with the material at their own pace and from any location. Overall, the Faculty Development Programme served as a valuable platform for professional growth, enabling faculty members to enhance their expertise in Android development and better prepare students for the rapidly evolving field of mobile app development.

Certificate:



SUBMITTED BY: MR. HARSHAVARDHAN J R


SIGNATURE OF THE FACULTY


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


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FDP REPORT
ON
Artificial Intelligence

Venue: Model Engineering College.

Date: 22-02-2021 to 26-02-2021

I, Dr. Deepa S R Associate Professor, Department of CSE, KSIT, attended a Five Days Faculty Development Programme on “successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Artificial Intelligence" at Model Engineering College.

Brochure:

Applications of Artificial Intelligence in Healthcare

The FDP is planned to give an exposure to the recent trends in AI for health care and their areas of applications.

The power of Artificial Intelligence or Machine Intelligence to mimic human cognition is utilized to provide a well-defined user output by analyzing and processing patient data. The primary aim of health-related AI applications is to analyze relationships between prevention or treatment techniques and patient outcomes. AI programs have been developed and applied to practices such as diagnosis processes, treatment protocol development, drug development, personalized medicine, and patient monitoring and care.

The objective of the FDP is to introduce fundamentals of AI and ML, to impart an exposure to the recent trends in AI for health care and their area of application.

AICTE Training and Learning (ATAL)
Academy Sponsored
Online Faculty development program
On

**APPLICATIONS OF ARTIFICIAL
INTELLIGENCE IN HEALTHCARE**
(22nd to 26th February 2021)

Organized by
Department of Biomedical Engineering
Govt. Model Engineering College
Thrikkakara, Kochi
Kerala

Coordinators
Asst. Prof. Ms. Suja Markose
Asst. Prof. Ms. Vijayalakshmi.K
Asst. Prof. Ms. Sincy P.S



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AICTE TRAINING AND LEARNING (ATAL) Academy

AICTE is committed for the development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development.

Council understands that there is a need of the day to train the young generation in skill sector and having faculty technicians to be trained in their respective disciplines.

It was felt that Training with latest tools and technologies is vital to keeping an institute competitive and more productive. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies.

It also transforms them to harmonize with society and most importantly to make them a good citizen of the country. Accordingly, it was decided to the opening of AICTE Training and learning, [ATAL] Academies. As a part of its activities, AICTE Training and learning [ATAL] Academy will conduct a Faculty development programme on Applications of Artificial Intelligence in Health care at Govt. Model Engineering College, Thrikkakara from 22nd to 26th February 2021.

Govt. Model Engineering College

For the past 28 years Govt. Model Engineering College has empowered its students to pave the way for excellence and innovation in the field of Engineering & Technology. The Institute is affiliated to APJ

Abdul Kalam Technological University (KTU), and was the first Engineering college to be established by the Govt of Kerala under the aegis of the Institute of Human Resource Development (IHRD). The college was previously affiliated to Cochin University of Science & Technology (CUSAT) and has witnessed record breaking placements year after year.

Department of Biomedical Engineering

The Department of Biomedical Engineering is one of the pioneer departments started when Govt. Model Engineering College was established in the year 1989 and the first in Kerala to offer an engineering course in Electronics and Biomedical Engineering. The department offers undergraduate programme in Electronics and Biomedical Engineering with an intake of 60 students. The Department was accredited thrice by NBA in the years 2003, 2008 and 2019.

Course Content

- NN and its applications in Bio signal analysis
- AI for Biomedical Image Analysis
- AI for Treatment planning & diagnosis
- Healthcare without borders through AI
- Real world AI implementation in healthcare
- Clinical data inference using machine learning algorithm
- Neural Networks for diagnostic ultrasonic imaging
- Confluence of deep learning in histopathology images

Resource Persons

The sessions will be handled by the experts on the subject from industry and other institutions of repute.

Who can Apply

Registration is open to Faculty from all disciplines /Research scholars/PG students from AICTE approved Institutions

Guidelines

- Course registration is free for all participants.
- Eligible participants will be selected based on first come first serve basis and will be intimated by mail.
- An assessment test will be conducted on the last day of the program for all the participants
- A digital certificate by the ATAL academy will be issued to the participants who have an attendance of minimum 80% and score more than 60% in the test.

Registration details

- All the participants are requested to register using the following link
<https://atalacademy.aicte-india.org/login>

For further information if any required, please contact

Ms.Suja Markose: 9447293687
Ms.Vijayalakshmi K: 9847093300
Ms.Sincy P S: 9809234464

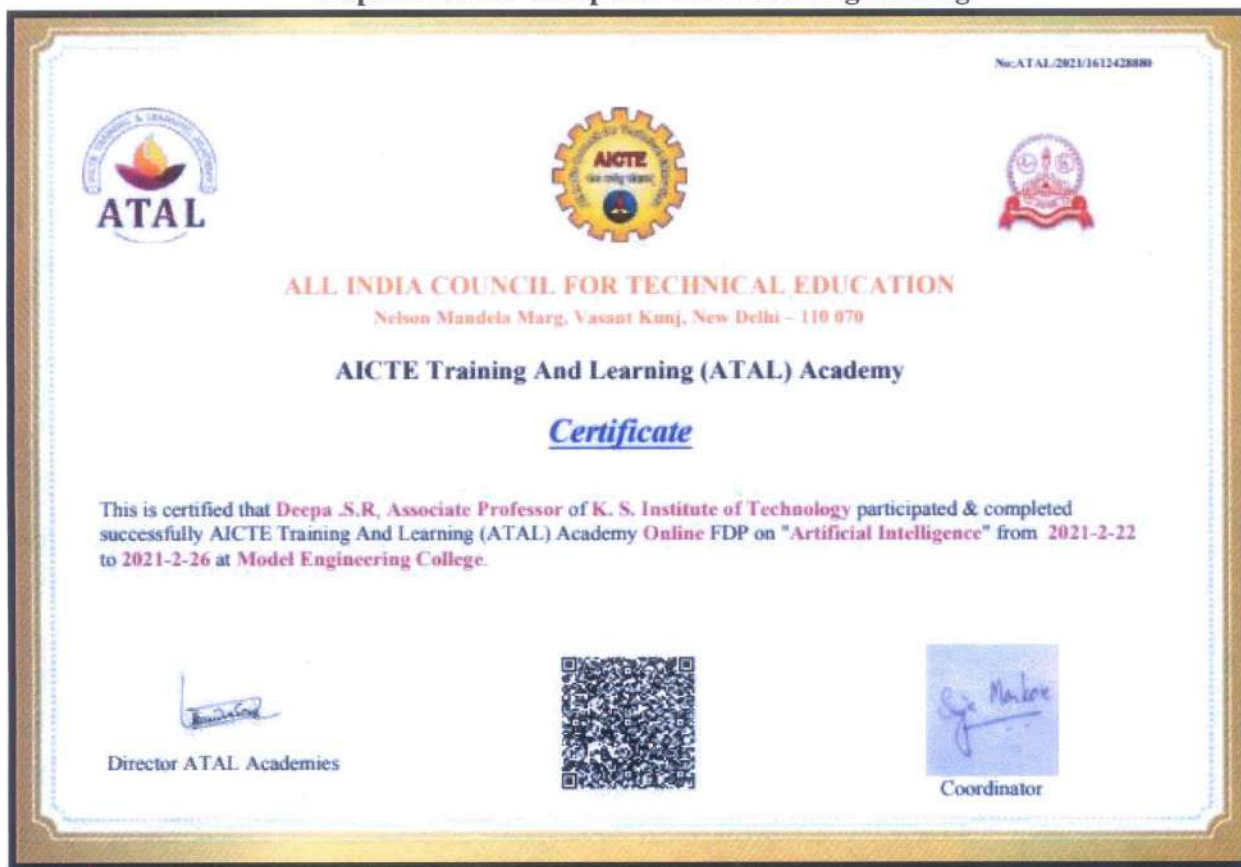
About FDP

The five-day online Faculty Development Programme (FDP) on Artificial Intelligence provided a comprehensive overview of AI concepts, methodologies, and applications. Through a series of interactive sessions, workshops, and lectures, participants gained insights into various aspects of AI, including machine learning, deep learning, natural language processing, computer vision, and robotics. The programme facilitated discussions on emerging trends, best practices, and ethical considerations in AI research and implementation. Participants had the opportunity to collaborate with peers and experts, exchanging ideas and experiences, thereby enhancing their understanding and proficiency in AI. By the end of the FDP, attendees were equipped with the knowledge and skills to leverage AI technologies effectively in their academic pursuits, research endeavors, and professional practices, contributing to advancements in the field and addressing real-world challenges across diverse domains.

Certificate:



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SUBMITTED BY: Dr. DEEPA S R

Deepa

SIGNATURE OF THE FACULTY

N. Narasimha

HOD

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

K. Venkatesh

PRINCIPAL

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



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FDP REPORT
ON
Emerging Trend in Cyber Security & Data Science

Venue: Online Training Program

Date: 15/06/2021 to 19/06/2021

I, Mr. Kumar K Assistant Professor, Department of CSE, KSIT, attended a one week Online Short Term Training Program on "Emerging Trend in Cyber Security & Data Science".

Brochure:

The brochure is for a faculty development program organized by the Department of Computer Science & Engineering at Dr. Rajendra Gode Institute of Technology & Research, Amravati. It features the institute's logo, accreditation details (NAAC, SGBAU), and ISTe approval. The program is a one-week online training. The specific topic for Day 1 is Cyber Crimes, presented by Mr. Sai Satish, Founder & CEO of Indian Servers. Contact information for Prof. N. E. Karale is provided for further details.

Dr. Rajendra Gode Institute of Technology & Research, Amravati
Accredited by NAAC | Affiliated to SGBAU, Amravati

ISTe Approved
One Week Faculty Development Program

"Emerging Trend in Cyber Security & Data Science"
Organized by
Department of Computer Science & Engineering

Day 1 - 15/06/2021, 11.00 AM
Topic - Cyber Crimes

— **Mr. Sai Satish**
Founder & CEO, Indian Servers

<https://drgitr.com>

For details & Queries -
Prof. N. E. Karale
(9370222523)

About FDP: The one-week online faculty development program (FDP) on Emerging Trends in Cyber Security & Data Science provided a comprehensive overview of the evolving landscape in these crucial domains. Participants delved into cutting-edge advancements, including but not limited to, machine learning for threat detection, blockchain for secure transactions, and privacy-preserving techniques in data analytics. Through interactive sessions, workshops, and case studies, attendees gained insights into the latest methodologies and tools essential for addressing contemporary




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challenges in cyber security and data science. The program fostered a collaborative environment for knowledge exchange and skill enhancement, empowering educators to effectively prepare the next generation of professionals in these rapidly evolving fields.

Certificate:

	Dr. Rajendra Gode Institute of Technology & Research, Amravati Accredited by NAAC Affiliated to SGBAU, Amravati Dr. Rajendra Gode Educational Campus, University Road, Amravati - 444602 www.drgitr.com	
CERTIFICATE OF ATTENDANCE This certificate is presented to		
KUMAR K		
has attended One week Online Short Term Training Program on "Emerging Trend in Cyber Security & Data Science" approved by ISTE, New Delhi during 15/06/2021 to 19/06/2021 organized by Department of Computer Science & Engineering.		
 Prof. Nikhil Karale Co-Coordinator	 Dr. Sudhir W. Mohod Coordinator, HoD, CSE	 Dr. Pramod B. Patil Principal

SUBMITTED BY: MR. KUMAR K



SIGNATURE OF THE FACULTY



HOD

Head of the Department
Dept. of Computer Science & Engg
K.S. Institute of Technology
Bengaluru - 560 100



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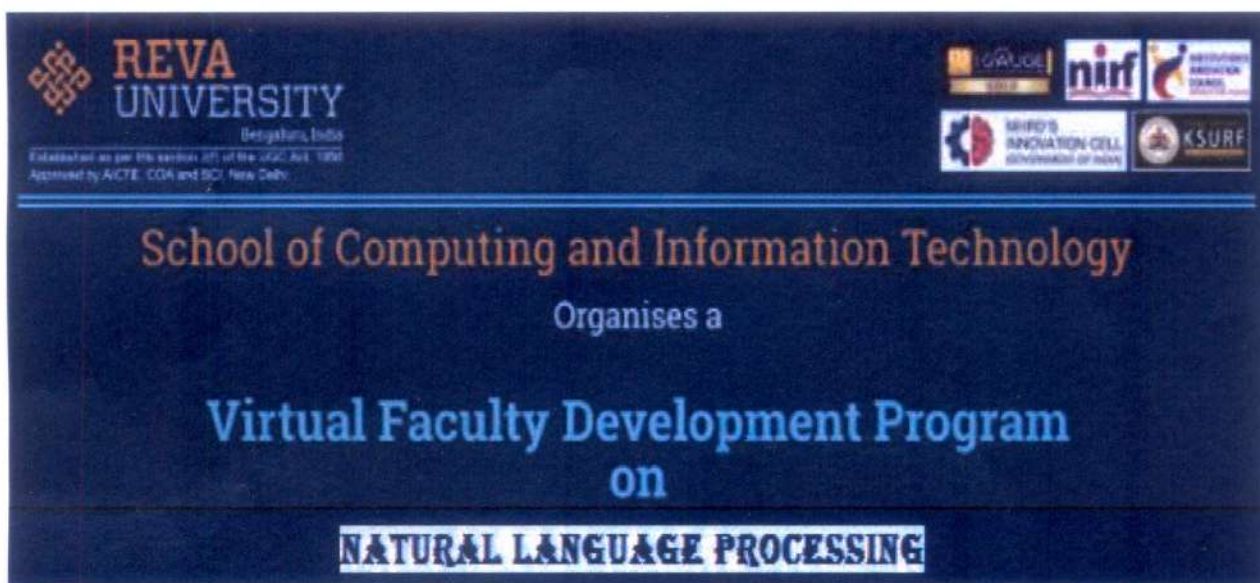
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Department of Computer Science& Engineering
FDP REPORT
ON
Natural Language Processing

Venue: Virtual

Date: 30-06-2020 to 04-07-2020

I, Mrs. Ranjitha K N Assistant Professor, Department of CSE, KSIT, attended a Faculty Development Program on “**Natural Language Processing**”.

Brochure:



About FDP:

The Faculty Development Program on "Natural Language Processing" offered an immersive exploration into the intricate world of computational linguistics. Participants delved into fundamental concepts like syntax, semantics, and pragmatics, gaining a holistic understanding of language comprehension by machines. Through hands-on workshops and lectures by experts, attendees honed their skills in utilizing cutting-edge tools and techniques for text analysis, sentiment analysis, and language generation. Moreover, the program emphasized the practical applications of NLP across various domains, from chatbots and virtual assistants to automated translation and sentiment analysis in social media monitoring. By the end of the program, participants were equipped with not only theoretical knowledge but also practical insights to integrate NLP into their



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teaching methodologies and research endeavors, fostering innovation and advancement in the field of computational linguistics.

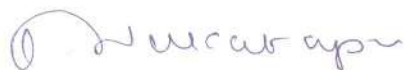
Furthermore, the program fostered a collaborative environment where faculty members could exchange ideas, share best practices, and forge partnerships for future research projects and academic initiatives. Through interactive sessions and group discussions, participants explored emerging trends and challenges in NLP, such as bias detection and mitigation, multilingual processing, and the ethical considerations surrounding language generation models. The program also provided a platform for networking with industry professionals and researchers, facilitating interdisciplinary collaborations that have the potential to drive innovation and address real-world problems through NLP solutions. Overall, the Faculty Development Program on NLP served as a catalyst for advancing both individual expertise and collective knowledge in harnessing the power of natural language processing for academic and societal impact.

Certificate:



SUBMITTED BY: MRS. RANJITHA K N


SIGNATURE OF THE FACULTY



HOD

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


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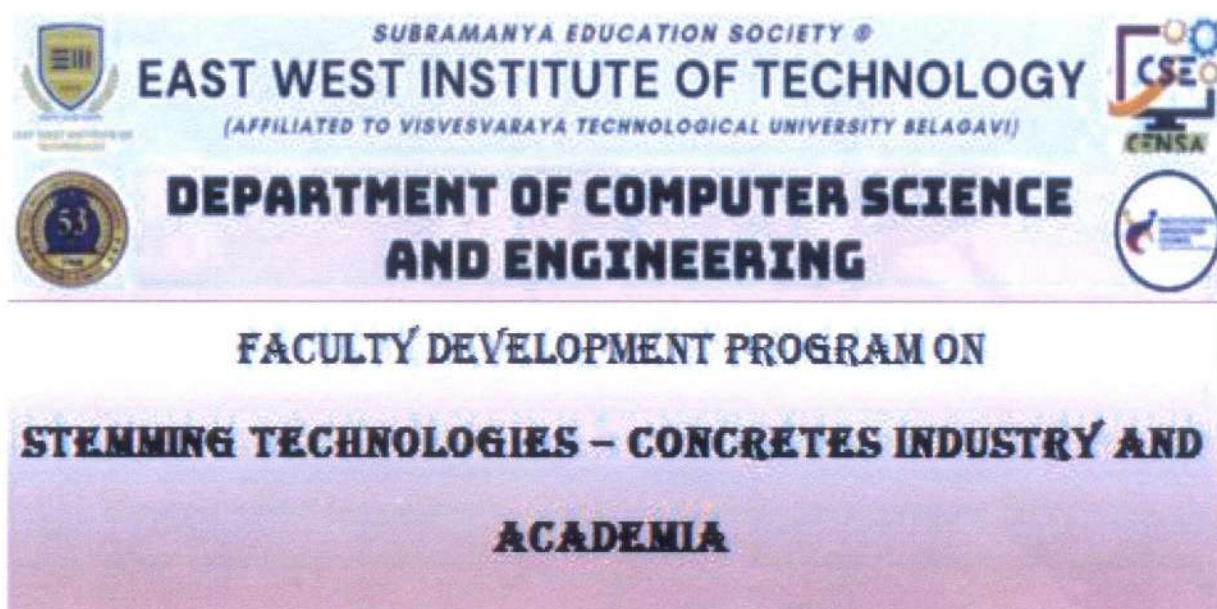
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Department of Computer Science& Engineering
FDP REPORT
ON
Stemming Technologies – Concretes Industry and Academia

Venue: Virtual

Date: 10-08-2020 to 14-08-2020

I, Mrs. Swathi K Assistant Professor, Department of CSE, KSIT, attended a Faculty Development Program on “Stemming Technologies – Concretes Industry and Academia”.

Brochure:



About FDP:

The Faculty Development Program (FDP) focused on Stemming Technologies in the concretes industry and academia provided a comprehensive overview of the intersection between concrete technology and innovative stem-based approaches. Participants explored how advancements in materials science, including nanotechnology and bio-concrete, are reshaping the landscape of construction materials. Through lectures, demonstrations, and practical sessions, attendees gained insights into the latest techniques for enhancing the strength, durability, and sustainability of concrete structures. Moreover, the FDP facilitated discussions on the integration of STEM (Science, Technology, Engineering, and Mathematics) principles into concrete research and education,



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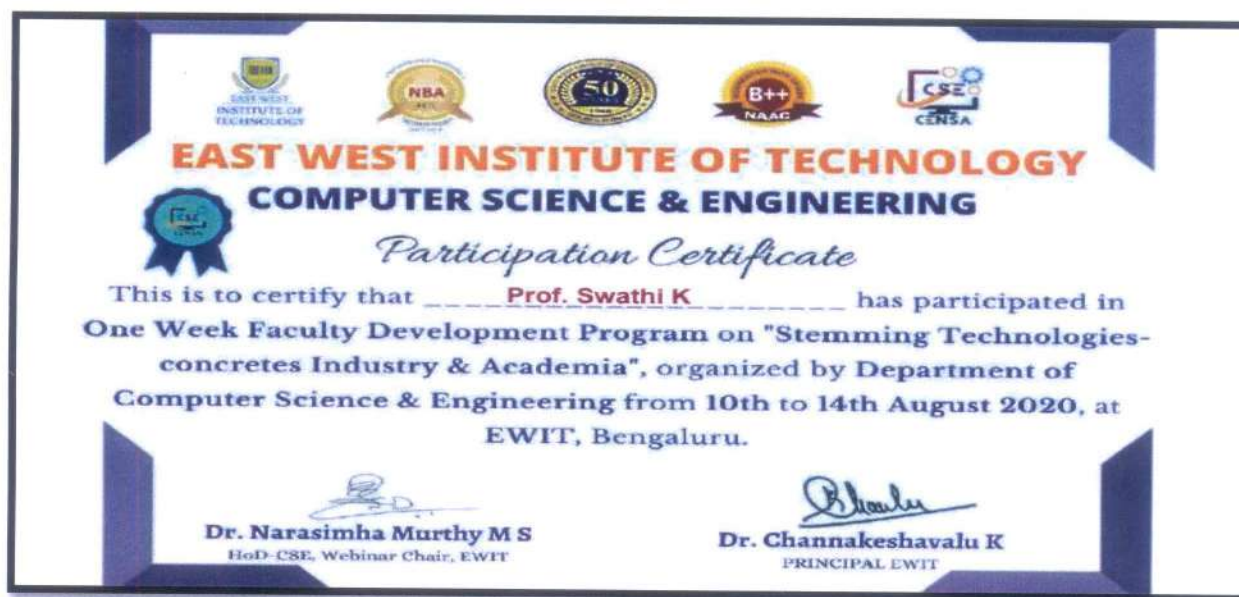
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Department of Computer Science& Engineering

emphasizing the importance of interdisciplinary collaboration in addressing contemporary challenges in the construction sector.

Furthermore, the program fostered collaboration between academia and industry, fostering partnerships that bridge the gap between theoretical research and practical application. Participants had the opportunity to engage with industry experts, exchange ideas, and identify opportunities for collaborative projects and technology transfer. By leveraging cutting-edge stem-based technologies, such as 3D printing and self-healing concrete, participants explored innovative solutions for improving construction processes and infrastructure resilience. Overall, the FDP on Stemming Technologies in the concretes industry and academia served as a catalyst for fostering innovation, driving collaboration, and advancing knowledge in the field of concrete technology.

Certificate:



SUBMITTED BY: MRS. Swathi K

SIGNATURE OF THE FACULTY

HOD

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

PRINCIPAL
- PRINCIPAL

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K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109


#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

Department Of Computer Science & Engineering

REPORT OF FDP:

UNIVERSAL HUMAN VALUES for DEEKSHARAMBH

Brochure:

<p>5 - Day Online Faculty Development Program (FDP) on UNIVERSAL HUMAN VALUES for DEEKSHARAMBH (Student Induction Program) (23 - 27 November 2020) Registration Form</p> <p>1. Name _____</p> <p>2. Designation _____</p> <p>3. Department _____</p> <p>4. Institution/Organization _____</p> <p>5. Address _____</p> <p>6. E-mail Address _____</p> <p>7. Mobile No. _____</p> <p>8. Telephone No. _____</p> <p style="text-align: center;">Signature of Applicant</p> <p style="text-align: center;">Signature of Institute Head</p> <p><small>Note: The interested participants must register online at http://moodle.uhv-fdp.com and get enrolled for this FDP. Alternatively, the scan copies of completely filled registration form may be sent by email to uhv.fdp@nitp.ac.in on or before 20 November 2020 for the final registration.</small></p>	<p>CHIEF PATRON Prof. P. K. Jain Director, NIT Patna</p> <p>PATRON Prof. S. K. Verna Dy. Director, NIT Patna</p> <p>ADVISORS Prof. P. Chandra Dean (SW), NIT Patna Prof. L. B. Roy Dean (R & C), NIT Patna Prof. Fulena Rajak Dean (P & D), NIT Patna</p> <p>CHAIRMAN Prof. Om Prakash Dean (FW), NIT Patna</p> <p>CONVENERS Dr. Amit Kumar Head, MED, NIT Patna Dr. Yogesh Kumar Asstt. Prof., MED, NIT Patna</p> <p>COORDINATORS Dr. Chetan Kumar Hirwani Assistant Professor Department of Mechanical Engineering National Institute of Technology Patna Ashok Rajpath, Patna, Bihar - 800 005, India Email: chetank.me@nitp.ac.in Contact No.: +91-9691406125</p> <p>& Dr. Ambrish Maurya Assistant Professor Department of Mechanical Engineering National Institute of Technology Patna Ashok Rajpath, Patna, Bihar - 800 005, India Email: amaurya.me@nitp.ac.in Contact Number: +91-9410474827 Website: http://www.nitp.ac.in</p> <p>REGISTRATION PORTAL http://moodle.uhv-fdp.com</p>	<p>5 - Day Online Faculty Development Program on UNIVERSAL HUMAN VALUES for DEEKSHARAMBH (Student Induction Program) (23 - 27 November 2020)</p> <p style="text-align: center;">Organized by</p> <p style="text-align: center;"></p> <p style="text-align: center;">NATIONAL INSTITUTE OF TECHNOLOGY PATNA Ashok Rajpath, Patna, Bihar, India - 800 005</p> <p>COORDINATORS Dr. Chetan Kumar Hirwani & Dr. Ambrish Maurya Department of Mechanical Engineering National Institute of Technology Patna Ashok Rajpath, Patna, Bihar - 800 005, India</p> <p style="text-align: center;">REGISTRATION PORTAL http://moodle.uhv-fdp.com</p>
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Report

Online Faculty Development Program (FDP) Report

Title: Universal Human Values for DEEKSHARAMBH(Student Induction Program)

Date: 21st - 27th Nov 2020, NIT, Patna.

Program Coordinator: Dr. Chetan Kumar Hirwani, Assistant Professor, Department of Mechanical Engineering.

Participants: Mr. Krishna Gudi of KSIT, Mr. Satish Kumar B of KSIT.

Summary:

The universal human values for a DEEKSHARAMBH ceremony, it's essential to focus on principles that are universally recognized and respected across cultures and societies. In this they

covered what is DEEKSHARAMBH(SIP)? Current education-Student motivations, achievements, about Holistic education, and Introduction to Universal Human Values & Process of education, assumptions and conditioning, current state of Nature etc.

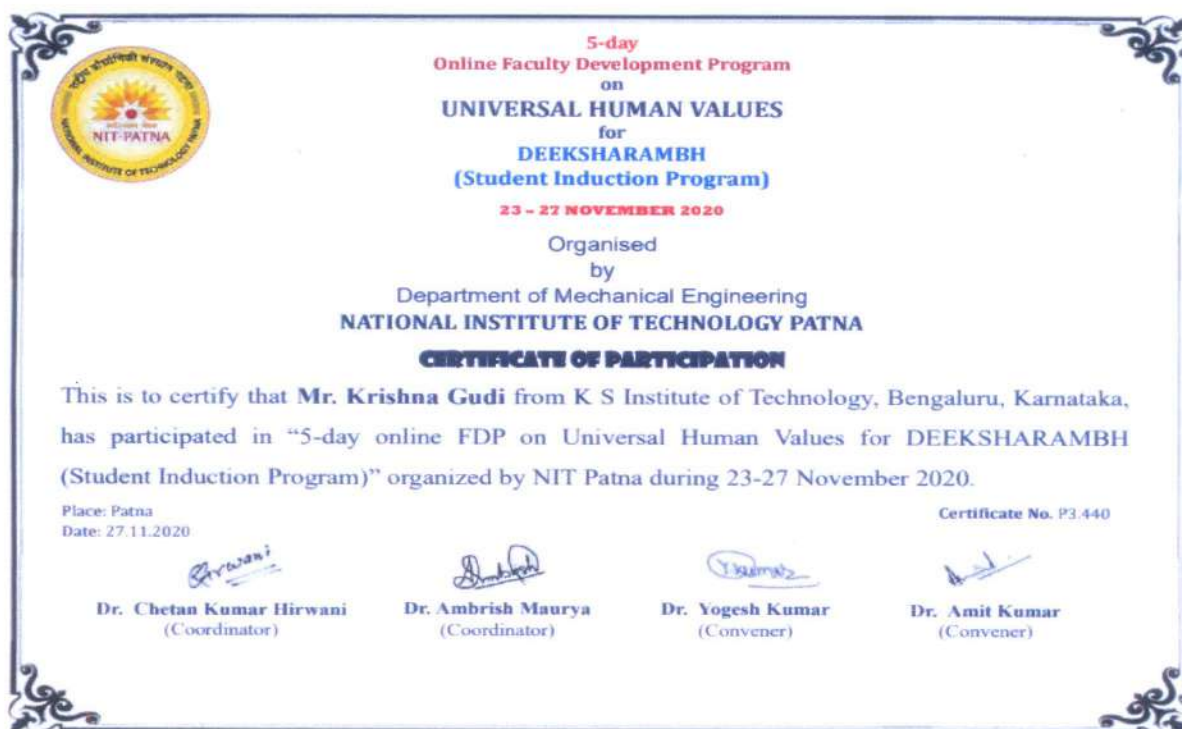
It covers Need for definite human conduct, Role of Self, Role of Money or physical facilities Role of Relationships, Role of Understanding Human desires, Topics student Mentoring, values (mulya) in Relationship respect and Trust and Gratitude.

This FDP focuses on understanding the concept of Human values and Current Education system.

Objectives of the FDP


To Provide awareness of Human Values and Current education System.


To Provide knowledge about the Holistic education.



SUBMITTED BY: Mr. Krishna Gudi


SIGNATURE OF FACULTY


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HOD
Head of the Department
Dept. of Computer Science & Engg
K.S. Institute of Technology
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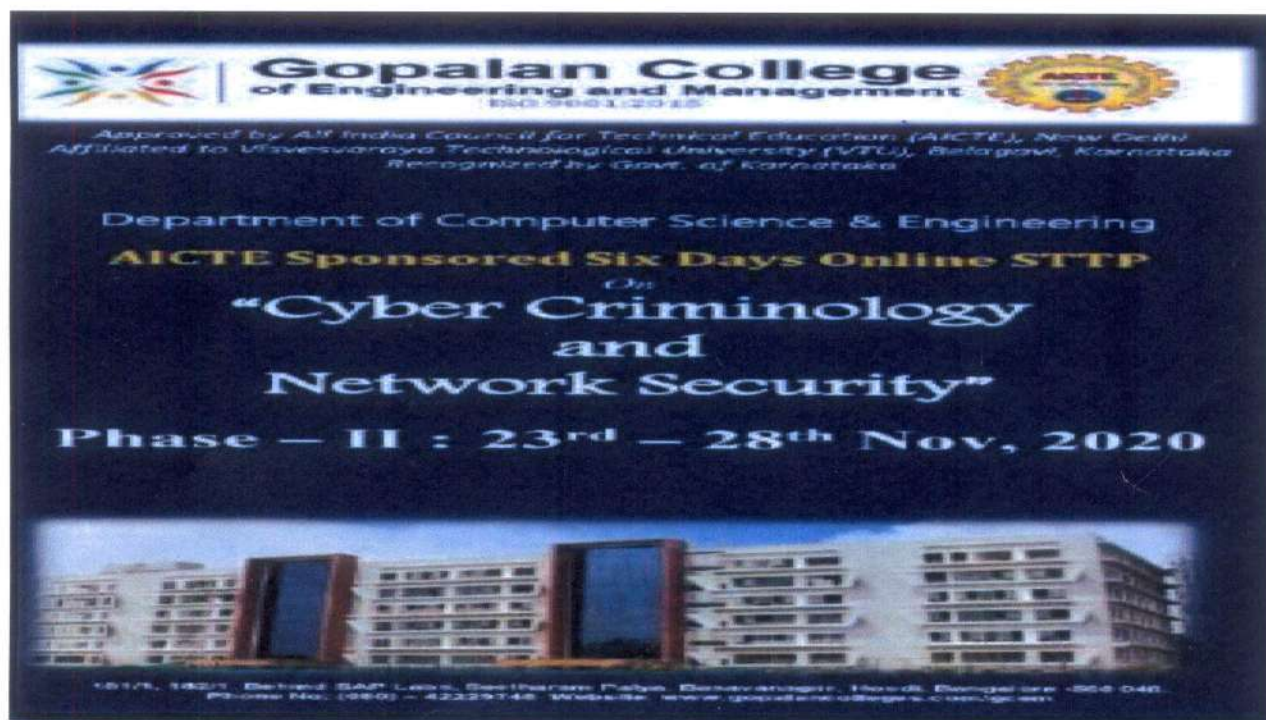
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K.S.INSTITUTE OF TECHNOLOGY
Department of Computer Science & Engineering
FDP REPORT
ON
Cyber Criminology and Network Security

Venue: Gopalan College of Engineering and Management

Date: 23-11-2020 to 28-11-2020

I, Mrs. Vaneeta M Associate Professor, Department of CSE, KSIT, attended a Six Day Faculty Development Programme on “Cyber Criminology and Network Security at Gopalan College of Engineering and Management.

Brochure:



About FDP:

The Six-day Faculty Development Programme (FDP) on Cyber Criminology and Network Security provided an insightful exploration into the multifaceted realm of cybercrime and cyber security. Hosted online, this intensive programme brought together experts and participants from various academic and professional backgrounds to delve into the intricacies of cyber threats, digital forensics, and protective measures. Throughout the FDP, attendees, including academics, researchers, and industry professionals, engaged in interactive sessions, workshops, and case studies,



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gaining a comprehensive understanding of cybercrime trends, attack vectors, and mitigation strategies.

The programme emphasized the importance of proactive approaches to network security, ethical hacking, and incident response, while also highlighting the legal and ethical considerations surrounding cyber investigations and law enforcement. By the conclusion of the FDP, participants were equipped with the knowledge, skills, and tools necessary to analyze, prevent, and respond to cyber threats effectively, poised to contribute to the safeguarding of digital assets and the protection of online communities.

Certificate:



SUBMITTED BY: MRS. VANEETA M

Vaneeta M

SIGNATURE OF THE FACULTY

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[Signature]

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Head of the Department
Dept. of Computer Science & Engg
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K.S.INSTITUTE OF TECHNOLOGY
Department of Electronics & Communication Engineering

Report

on

6 Days Faculty Development Program
on

Advances In Signal Processing and Wireless Communication
From

24th to 29th August 2020

held at

Rajeev Institute of Technology Hassan.

Submitted by:

Dr P N Sudha

P. N. Sudha
1/10/2020

K. Gurus
2/11/21

The FDP on Advances in Signal Processing was conducted by the Dept of Electronics & Communication Engg. On 24th Aug in the first session brief introduction to various generations was explained by the experts from the industry. In the afternoon session introduction Signal Processing was done.

On 25th explained about 3G Radio Interfaces. The UMTS 3G architecture is required to provide a greater level of performance to that of the original GSM network. However as many networks had migrated through the use of GPRS and EDGE, they already had the ability to carry data. Accordingly many of the elements required for the WCDMA / UMTS network architecture were seen as a migration. This considerably reduced the cost of implementing the UMTS network as many elements were in place or needed upgrading.

On 26th He explained about basics of WSN and where all we are using and presented one demo of their own developed sensor .He also gave an introduction to iSense and its architecture was explained.

On 26th He explained about basics of WSN and where all we are using and presented one demo of their own developed sensor .He also gave an introduction to iSense and its architecture was explained

On 27th Wireless Protocols for IoT: Zigbee, Zwave, 6LowPAN, WiFi, THREAD, Cellular 4G/5G .In the second session, resource person discussed very basics and advanced writing ways of research proposal writing. He highlighted the importance of project funding and gave information about different funding agencies. He shared his knowledge with participants by power point presentation and by giving various examples.

On 28th & 29th Aug various application and advances were discussed. The subject experts also indicated various research areas for pursuing research.

Rajeev Institute of Technology, Hassan

Department of Electronics & Communication Engineering



Certificate



This is to certify that Dr P N Sudha of KSIT participated in the online Faculty Development Program on **"Advances in Signal Processing and Wireless Communication"** organized by the Department of Electronics and Communication Engineering, Rajeev Institute of Technology, Hassan from 24 - 29 August 2020.

Dr. Aravind B N
Convener (HOD, ECE)

Dr. A N Ramakrishna
Principal



PHASE -3

A REPORT ON

6 DAYS AICTE — ISTE INDUCTION / REFRESHER PROGRAM



ON

FUTURE WIRELESS COMMUNICATION: STANDARDS &

TECHNOLOGIES

ORGANIZED BY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.INSTITUTE OF TECHNOLOGY, BENGALURU

A 6 Days AICTE-ISTE Induction / Refresher Program on **FUTURE WIRELESS COMMUNICATION: STANDARDS & TECHNOLOGIES** inaugural function was held on 24th May 2021 in Zoom online platform.

The Induction program was inaugurated by Chief Guest Dr. Rangaswamy .B.E, Registrar (Evaluation), Visvesvaraya Technological University, Belgavi, graced by **Sri.R.Rajagopal Naidu**, President, Kammavari Sangham, **Sri. R. Leela Shankar Rao**, Hon.Secretary, Kammavari Sangham, **Sri.T. Neerajakshulu Naidu**, Treasurer, Kammavari Sangham .The function was presided by **Dr. KVA Balaji** CEO, KSGL, **Dr. Dilip Kumar K**, Principal / Director ,KSIT, **Dr. P. N. Sudha**, Prof & HOD-ECE, Program chair, **Dr.Sangappa S. B.** Director (Adm & PR),KSGL, National Executive Council Member, ISTE, New Delhi, Chief coordinator of induction program,. The function was coordinated by Prof. Santhosh Kumar B R, Prof. Jayasudha S. B. and Prof. Sangeetha V. The 3rd phase Inaugural event and six days induction program was conducted through zoom online platform.



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Web: www.ksit.ac.in

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6 Days AICTE-ISTE FUNDED INDUCTION / REFRESHER PROGRAM

(3rd Phase)

On

FUTURE WIRELESS COMMUNICATION: STANDARDS & TECHNOLOGIES

Organized by

Department of Electronics & Communication Engineering

24th - 29th May 2021

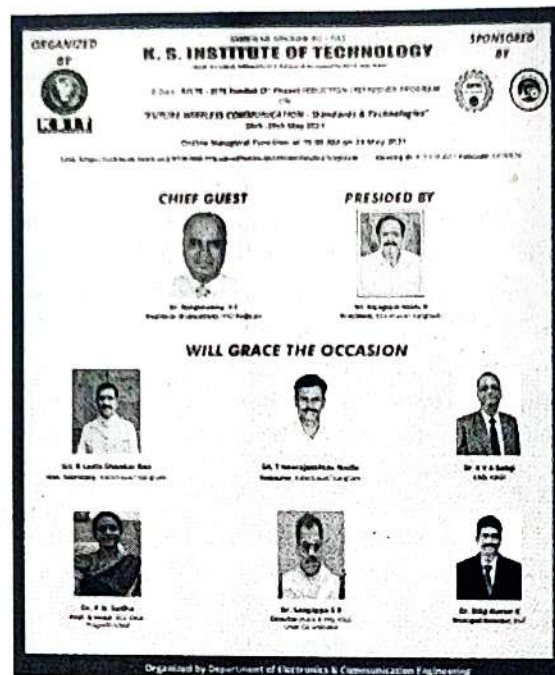


Fig: Chief Guest and Dignitaries of Inaugural Function

The welcome speech was given by Dr .Sangappa S. B. Director (Adm. & PR),KSGI, National Executive Council Member, ISTE, New Delhi, Chief coordinator, and he briefed about KSGI achievement from beginning to till date , highlighted KSIT is one among five colleges to conduct this AICTE-ISTE sponsored induction programme and around 320 participants registered from all over India.



Fig: Welcome Speech by Dr.Sangappa S.B, Director (Adm & PR),KSGI

Dr. P. N. Sudha, Prof & HOD-ECE, Program chair briefed about 6 days each session Resource person and title of the talk of the third phase of Induction/ Refresher program.



Fig: Dr.P.N.Sudha , Program Chair speech

The event was anchored by Mrs.Sangeetha.V ,Asst.Prof., dept., of ECE ,Invocation song was rendered by Sahana V,VII Sem student of ECE Dept., followed by the introduction of chief guest by Mr. Santhosh Kumar B.R, Associate Professor, Dept. of ECE,KSIT.

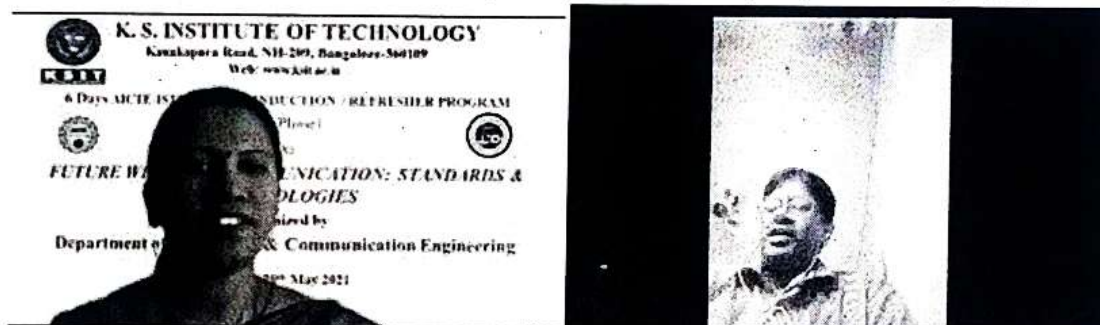


Fig: Anchor by Mrs.V.Sangeetha and Chief Guest Introduction by Mr.Santhosh kumar .B.R

The Chief Guest Dr. Rangaswamy .B.E, Registrar (Evaluation), Visvesvaraya Technological University, Belgaavi, how new technologies like Machine Learning, IoT have overpowered the numerous other outdated technologies. He spoke about one of the largest digital career all over world is wireless technologies and every entrepreneur highly depends on it. He highlighted GDP is measure on how much spectrum are there and currently everyone are relying upon it and about edge artificial technologies. By the end of year 2021 expected to show us major technological advancement & innovation.



Fig: Chief Guest Speech

Sri.R.Rajagopal Naidu, President, Kammavari Sangham spoke about how technology has progressed and how it has impacted all of us in our daily lives. He appreciated the entire team work and congratulated the participants from various places from India. He highlighted the quote "Coming together is a beginning; keeping together is a progress; working together is a success".

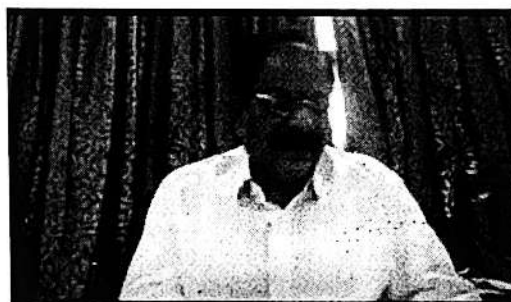


Fig: Sri.R.Rajagopal Naidu, President, Kammavari Sangham speech

Sri.T. Neerajakshulu Naidu, Treasurer, Kammavari Sangham, spoke about KSGI follows four important mantras as Discipline, Dedication, Hardwork and Commitment .He also told that the endeavors will be successful only when all the stake holders: students, parents, faculty and Institution are aligned and moving in the same direction.



Fig: Sri.T. Neerajakshulu Naidu, Treasurer, Kammavari Sangham ,Treasurer Speech

Sri.D.Rukmangada, Ex-Treasurer, Kammavari Sangham spoke about the successful completion of two phases and third phase which brought many more participants from various places from India. He also mentioned this Induction program will give wide depth knowledge on 5G and 6G standards and technologies.



Fig: Sri.D.Rukmangada, Ex-Treasurer, Kammavari Sangham Speech

Dr. KVA Balaji CEO,KSIG addressed the gathering and wished all the participants happy learning for all the six days.He spoke about if the world was not slow down by the current pandemic, the implementation and adoption of this technology would be for ahead of where it is now in our country.



Fig: Dr. KVA Balaji CEO,KSIG speech

Dr. Dilip Kumar K, Principal / Director ,KSIT, spoke about Teaching is called Nobel Profession and Teacher willingness shows then everything will be converted. The best of country is young generation ,hence need to train student in a better way with discipline. He also appreciated the vey well planned organization of this event.

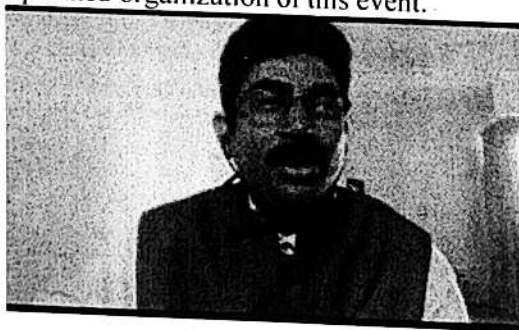


Fig: Dr. Dilip Kumar K, Principal / Director ,KSIT speech

The program was concluded by expressing gratitude to all those people who were part of this inaugural function of AICTE-ISTE sponsored program by Mr. Sunil Kumar G R. Asst. Professor Dept. of ECE,KSIT.

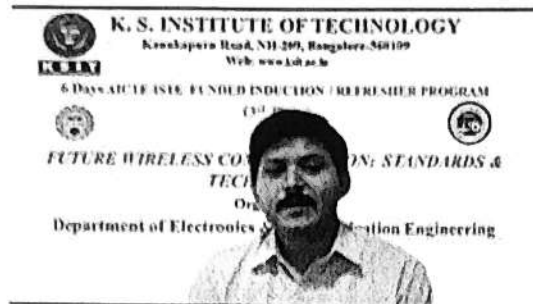
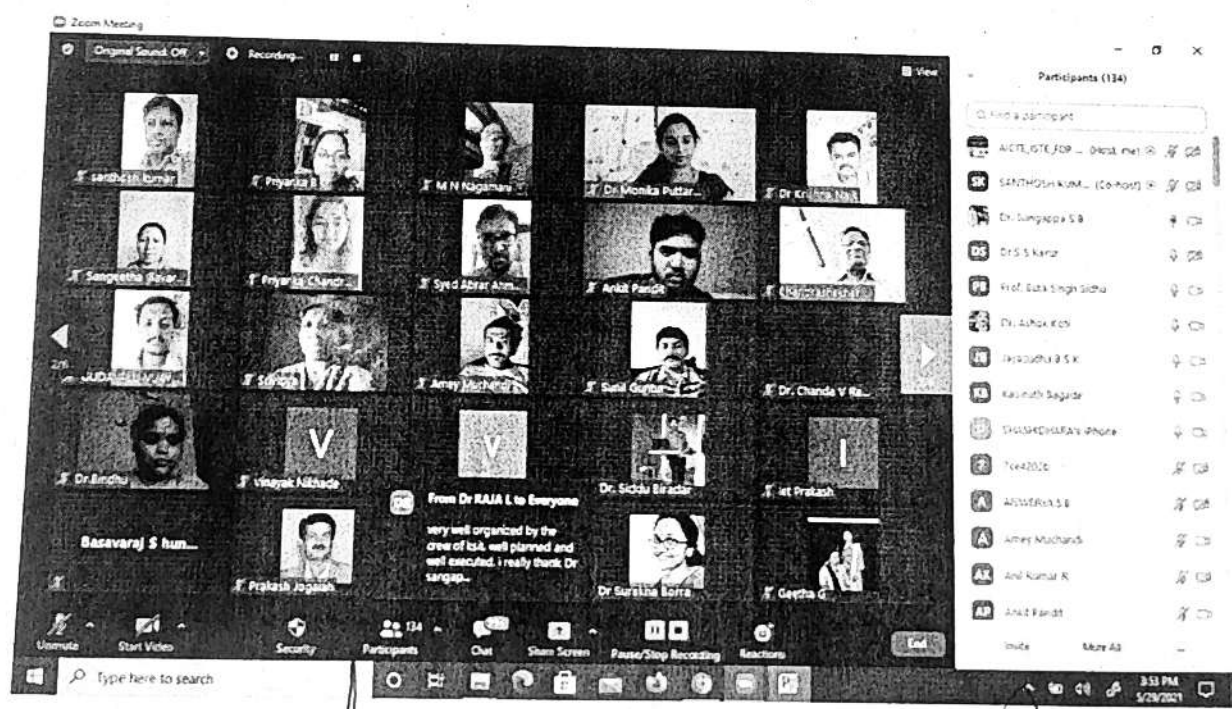


Fig: Vote of Thanks by Mr.Sunil Kumar



Fig: Management, Chief Guest, Participants in 3rd Phase online Inaugural Function



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Dept. of Electronics & Communication Engg
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CERTIFICATE OF PARTICIPATION

This is to Certify that **Dr.Chanda V Reddy** from **KSIT** has participated in 6-days AICTE-ISTE funded Induction / Refresher program (3rd - Phase) on **“Future Wireless Communication: Standards & Technologies”** organized by the Department of Electronics & Communication Engineering between 24th - 29th May 2021.

Dr P N Sudha
Prof.& Head ECE Dept
Program Chair

Dr.Sangappa.S.B
Director (Adm & PR), KSGI
Chief Coordinator

Dr.Dilip Kumar.K
Principal/ Director
KSIT



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CERTIFICATE OF PARTICIPATION

This is to certify that **Sanjoy Das** from **KSIT** has participated in 6-days **AICTE-ISTE** funded Induction / Refresher program (3rd - Phase) on **“Future Wireless Communication: Standards & Technologies”** organized by the Department of Electronics & Communication Engineering between 24th - 29th May 2021.

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This is to certify that **Roopesh Kumar B. N** from **KSIT** has participated in 6-days **AICTE-ISTE** funded Induction / Refresher program (3rd - Phase) on **“Future Wireless Communication: Standards & Technologies”** organized by the Department of Electronics & Communication Engineering between 24th - 29th May 2021.

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This is to certify that **Kushal Kumar B N** from **KSIT** has participated in 6-days **AICTE-ISTE** funded Induction / Refresher program (3rd - Phase) on **“Future Wireless Communication: Standards & Technologies”** organized by the Department of Electronics & Communication Engineering between 24th - 29th May 2021.

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This is to certify that **Dr.P Joy Prabhakaran** from **KSIT** has participated in 6-days **AICTE-ISTE** funded Induction / Refresher program (3rd - Phase) on **“Future Wireless Communication: Standards & Technologies”** organized by the Department of Electronics & Communication Engineering between 24th - 29th May 2021.

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This is to certify that **Dr.B Sudharshan** from **KSIT** has participated in 6-days **AICTE-ISTE** funded Induction / Refresher program (3rd - Phase) on **“Future Wireless Communication: Standards & Technologies”** organized by the Department of Electronics & Communication Engineering between 24th - 29th May 2021.

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This is to certify that **Mr.Sampath Kumar S** from **KSIT** has participated in 6-days **AICTE-ISTE** funded Induction / Refresher program (3rd - Phase) on **“Future Wireless Communication: Standards & Technologies”** organized by the Department of Electronics & Communication Engineering between 24th - 29th May 2021.

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This is to certify that **Ms. Bhargavi Ananth** from **KSIT** has participated in 6-days **AICTE-ISTE** funded Induction / Refresher program (3rd - Phase) on **“Future Wireless Communication: Standards & Technologies”** organized by the Department of Electronics & Communication Engineering between 24th - 29th May 2021.

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This is to certify that **Ms. Smitha Mallya** from **KSIT** has participated in 6-days **AICTE-ISTE** funded Induction / Refresher program (3rd - Phase) on **“Future Wireless Communication: Standards & Technologies”** organized by the Department of Electronics & Communication Engineering between 24th - 29th May 2021.

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This is to certify that **Ms.Yeshwini V** from **KSIT** has participated in 6-days **AICTE-ISTE** funded Induction / Refresher program (3rd - Phase) on **“Future Wireless Communication: Standards & Technologies”** organized by the Department of Electronics & Communication Engineering between 24th - 29th May 2021.

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Program Chair

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Director (Adm & PR), KSGI
Chief Coordinator

Dr.Dilip Kumar.K

Principal/ Director
KSIT



K.S.INSITUTE OF TECHNOLOGY

Department of Telecommunication Engineering

Report on

One-week webinar on "Advanced Antenna Design and Development for RF Communication Systems" scheduled during 20th to 25th July 2020

The Institution of Electronics and Telecommunication Engineers (IETE), Bangalore Centre & ATMS (Antenna Test and Measurement Society) ORGANISED one-week webinar on "Advanced Antenna Design and Development for RF Communication Systems"

DURATION: 06 Days (20th to 25th July 2020)

OBJECTIVE OF PROGRAM:

During this program, the participants were able to acquire the knowledge about various concepts like

- Uncommon uses of Microwave
- Aspects of Antenna wrt Polarization and Noise
- Microwave Antenna Measurement Technology
- Space Technologies which changed our lives
- Spacecraft Antenna
- Antennas for wireless / mobile communications - with emphasis on 5
- Compact Multiband antennas and Numerical Modeling
- Metamaterial based antenna designs and applications: Prospects and Challenge
- 5G and Beyond
- Different types of antenna such as Microstrip Antenna, Wearable Antenna and Liquid Antenna

The details of sessions in 6 days Webinar is as follows:

Day-01

Morning Session

Welcome Address: Dr. S G Shivaprasad Yadav & Dr. Swetha Amit

Address by : Sri C Satyanandan, Chairman, IETE Bangalore

Guest of Honor: Shri. Raj Kumar Malaviya, Secretary, ATMS

Chief Guest: Dr. Surendra Pal, Former Vice Chancellor, DIAT, Pune, Senior Adviser- ISRO

Keynote address: Prof. OPN Calla, Director, ICRS

Day-01

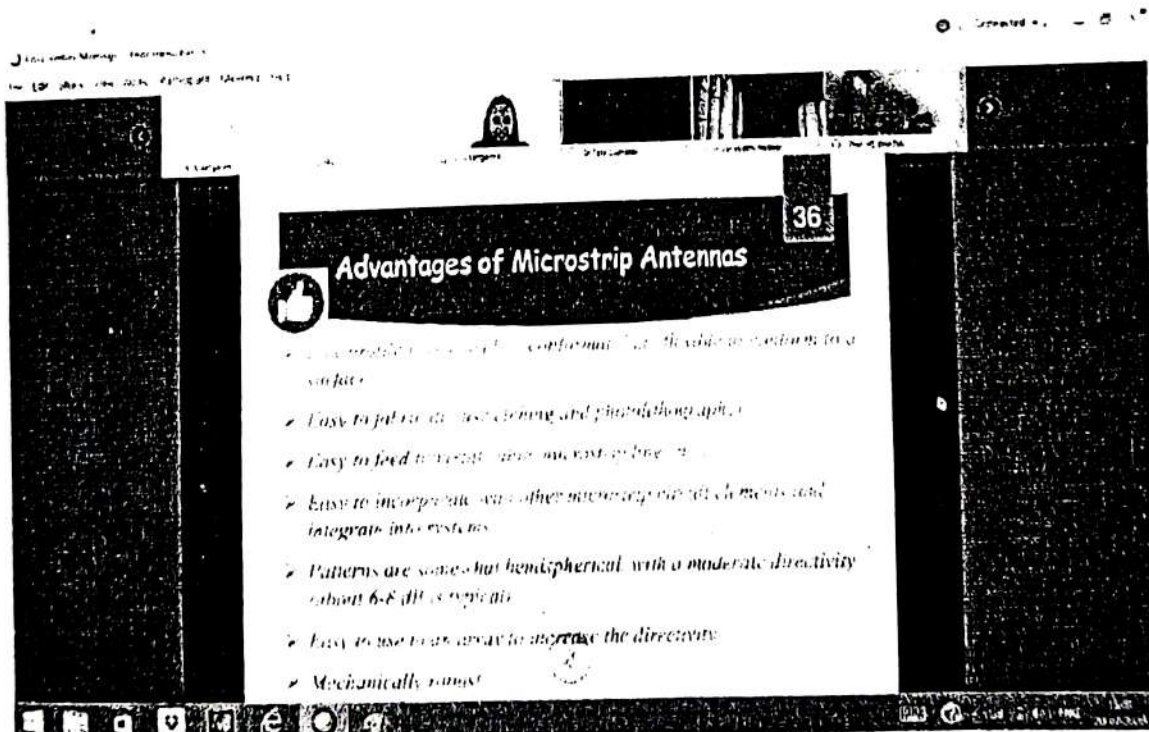
Afternoon Session

Topic : Antenna fundamentals, Design and analysis of Microstrip Antennas

Resource Person : Dr. Swetha Amit, Assistant Professor, Ramaiah Institute of Tech, Bangalore

The speaker discussed about :

- Polarization of electromagnetic wave and a receiving antenna
- Power transfer problem between two antennas
- Antenna noise temperature
- Antennas for aerospace applications



Day-02

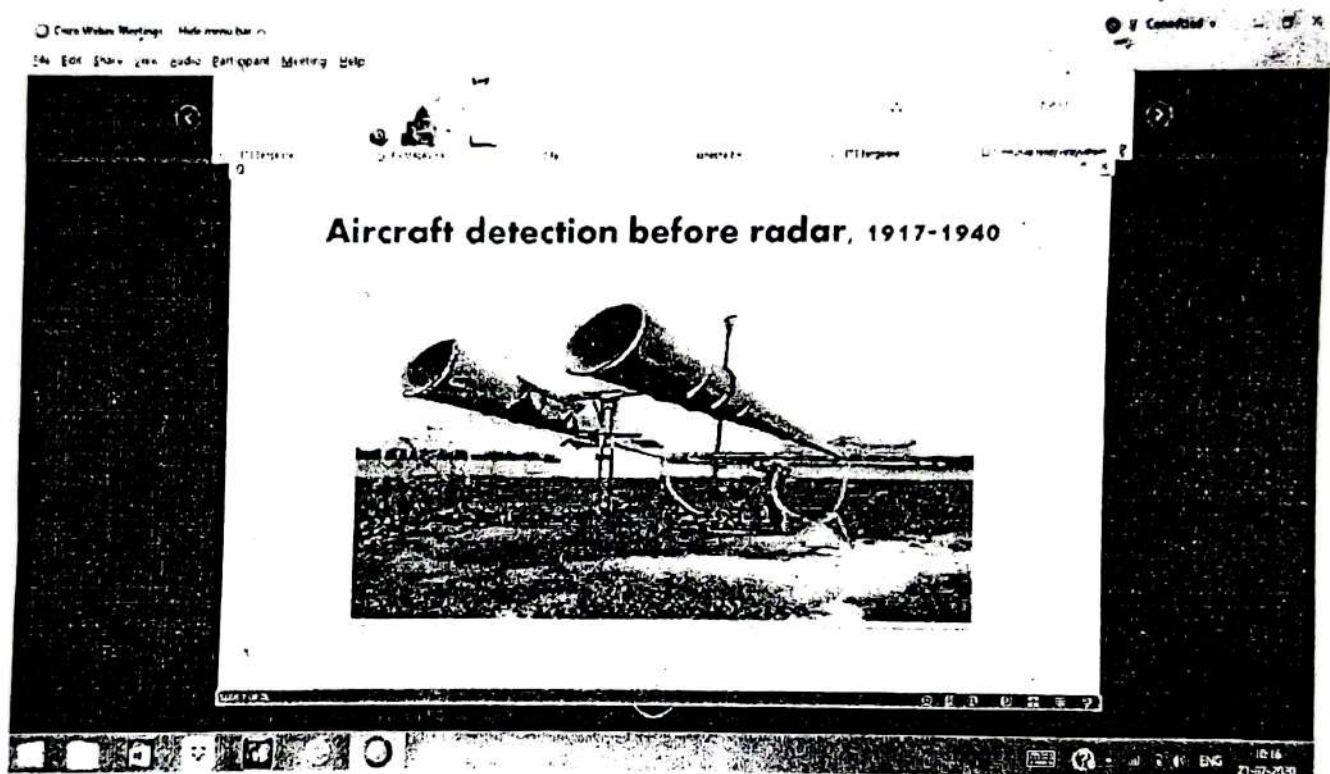
Morning Session

Topic : Microwave Antenna Measurement Technology

Resource Person : Shri. Raj Kumar Malaviya, Secretary, ATMS

The speaker discussed about:

- Compact range principles
- Technical data of CCR 75/60
- Planar near field range
- Multi probe near field range



Day-02

Afternoon Session

Topic : Antennas for Wireless/ Mobile Communications – with Emphasis on 5G

Resource Person : Dr. M. H. Kori, Distinguished Fellow IETE, Technical Director (Retd.), Alcatel-Lucent Technologies

The speaker discussed about:

- Adaptive antenna technologies
- Evolution of LTE- Advanced
- 5G-Three principle Dimensions
- Reconfigurable Antenna

5G - Three Principle Dimensions

eMBB

Enhanced Mobile Broadband

mMTC

Massive Machine Type Communications and

URLLC

Ultra-Reliable and Low Latency
Communications

Day-03

Morning Session

Topic : Spacecraft Antennas

Resource Person : Prof Mahadevan, Scientist ISRO(R)/ Professor PESUniv, Bangalore

The speaker discussed about :

- Space craft subsystems overview
- Altitude and Orbit control systems(AOCS)
- Fine Positioning
- Orbit insertion & maintenance

Day-03

Afternoon Session

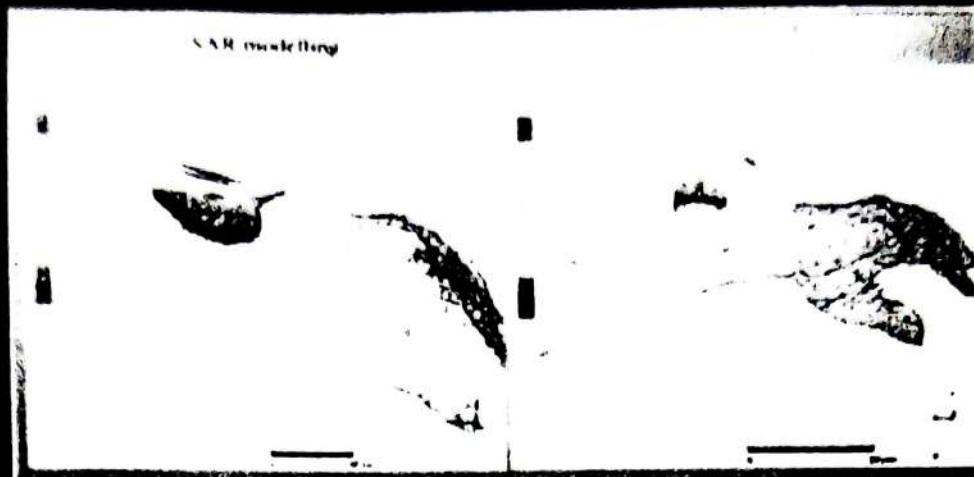
Topic : Challenges in design and analysis of Active and Passive Wearable Antennas

Resource Person : Dr. Swetha Amit, Assistant Professor, Ramaiah Institute of Tech, Bangalore

The speaker discussed about :

- Challenges f wearable antenna
- Antenna detuning & impedance matching
- Analysis required for wearable antenna
- Factors influencing the performance of Textile antenna

Analysis required for wearable antennas



Day-04

Morning Session

Topic : Compact Multiband antennas and Numerical Modelling

Resource Person : Dr. B. Manimegalai, Professor, Thiagarajar College of Engineering, Madhurai

The speaker discussed about :

- Wireless connectivity technologies
- Challenges in wireless RF frontend
- FRACTALS as antenna
- New trend in antenna design techniques

Metamaterial antennas

- Metamaterials are artificial materials exhibiting useful attractive and unusual properties. The use of metamaterial in the antenna provides the means to alter the near-field boundary conditions, resulting in achieving a compact size while retaining better radiation performance.
- Metamaterial-loaded antennas aid in achieving compact antennas. Metamaterial loading can be Epsilon-negative (ENG), Mu-negative (MNG), periodic elements,

Day-04

Afternoon Session

Topic : Metamaterial based antenna designs and applications: Prospects and Challenges
Resource Person : Dr. Malay Ranjan Tripathy, Professor, Amity University Uttar Pradesh,
Noida, U.P., India

The speaker discussed about :

- Potentials in Antenna Engineering
- Challenges in Antenna Engineering
- Metamaterial devices
- Antipodal tapered slot antenna

The screenshot shows a presentation slide from Amity University. The slide title is 'Challenges in Antenna Engineering: Analysis'. It compares the challenges of Antennas and Metamaterials across several parameters: Bandwidths, Gain, Size, Integration, Cost, and Overall. The slide is presented in a software window titled 'ETE Bangalore'.

Antennas	Metamaterials
Bandwidths: impedance/gain	Difficult but Possible
Gain: directivity & efficiency	Yes & Difficult
Size: volume/conformal/low-profile	Promising
Integration: with other circuits	Promising
Cost: mass production (fabrication & materials)	Possible
Overall	Promising

Day-05

Morning Session

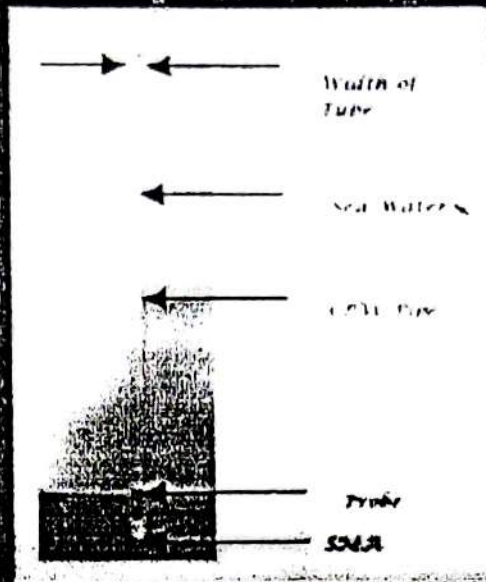
Topic : Research ideas on Liquid Antennas

Resource Person : Dr. Swetha Amit, Assistant Professor, Ramaiah Institute of Tech, Bangalore

The speaker discussed about :

- Sea water antenna
- Sea water conductivity
- Salt water antenna as a fountain
- Salt water concentration to distance covered

Liquid Antenna @ FM



Day-05

Afternoon Session

Topic : Space Technologies which changed our lives

Resource Person : Shri. Kali Shankar Shukla, Retd. Senior Scientist ISRO

The speaker discussed about :

- Medical applications of Space technology
- Examples of space technology in day today life
- Applications of space technology in fitness & gym clubs
- Search & rescue service

SPACE TECHNOLOGIES WHICH HAVE CHANGED OUR LIVES

Kali Shankar, Retd Sr Scientist, ISRO
K-1058, Aashiana Colony, Kanpur Road, Lucknow-
226012 (U.P.)
T.No. 09935793961,
Email: ksshukla@hotmail.com

The speaker discussed about :

- How to improve cellular networks
- Massive MIMO & beam forming
- Challenges of manufacturer for small cell radio
- Issues related to limitations of spectral efficiency

Deployment of Antennas in Massive MIMO for Sub 6 GHz

3 sectors
16 antennas LTE-A

1 site

One dual-polarized antenna element

Number of Antennas

- $8 \times 8 = 64$ per sector
- 192 antennas per site

LTE: One input/output per polarization
Massive MIMO: One per antenna element

Upgrade Existing Sites to Massive MIMO

- No sectorization (achieved by beamforming)
- Equipment size similar to top-of-the-line LTE
- Massive in numbers, not in size

Program	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
Webinar on "Advanced Antenna Design and Development for RF Communication Systems"	3	3	2	2	2	2	1	-	1	1	1	1	3	1

- PO1: Staff gained the knowledge of mathematics, science and engineering fundamentals
- PO2: Staff can able to analyze complex engineering problems
- PO3: Staff can able to design and develop model
- PO4: Staff can identify complex problems for research work
- PO5: Staff can utilize modern tools for research work
- PO6: Staff can understand the consequent responsibilities relevant to the professional engineering practice.
- PO7: Staff can demonstrate the knowledge of, and need for sustainable development.
- PO9: Staff can function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings
- PO10: Staff can communicate effectively by gaining knowledge
- PO11: Staff can apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments
- PO12: Staff can engage in independent and life-long learning in the broadest context technological change.
- PSO1: It provided an ability to understand and analyze basic concepts & systems relating to the field of communication
- PSO2: It provided an ability to apply the understandings & publish literature.

Participants:

Dr. Chanda V Reddy

Ms. Rekha N

Ms. Devika B

Ms. Srividya R

Dr. Chanda. V. Reddy

HOD, TCE
HEAD OF THE DEPARTMENT
Dept. of Telecommunication Engg
K. S. Institute of Technology
Bengaluru - 560 109

Principal

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




CERTIFICATE OF PARTICIPATION




DEVIKA B


Assistant Professor of K. S. Institute of
Technology

For participating in the One Week Webinar on ***“Advanced Antenna Design and Development for RF Communication Systems”*** held during 20th to 25th July 2020, Jointly Organized by The Institution of Electronics and Telecommunication Engineers (IETE) Bangalore and Antenna Test & Measurement Society of India (ATMS)


Dr. Swetha Amit
Coordinator &
Member, ATMS


Dr. S G Shivaprasad Yadav
Coordinator &
Hon. Secretary, IETE Bangalore


Shri C Satyanandan
Chairman
IETE Bangalore


Shri R K Malaviya
Secretary
ATMS, India



K S Institute of Technology, Bengaluru- 109

Department of Telecommunication Engineering

Report on FDP titled "Image and Signal Processing"

Date and Time of webinar: 04/01/2021 to 08/01/2021 from 10.30AM to 12.30PM

Through : Google Meet online Application.

Organized by: Department of Electronics & Communication Engineering and Civil Engineering, JSSATE, Bengaluru in Association with Indian Society for Technical Education & Association of Consulting Civil Engineers

Scope and Objectives:

This FDP focused on importance of Image and Signal Processing in the current scenario. This FDP on Image and Signal Processing was organized for Research scholars, Faculties and working professionals. Research scholars, working professionals and faculties were benefited learning about different types of image and signal processing systems available in the market.

Schedule:

DATE AND TIME	SPEAKER	TOPIC
04-01-2021 10:30 AM – 12:30PM(IST)	Dr. P.M. Shivakumaraswamy	Image Processing in Remote Sensing
05-01-2021 10:30 AM – 12:30PM(IST)	Dr. Sudarshan Patil kulkarni	Image Processing using Wavelets
06-01-2021 10:30 AM – 12:30PM(IST)	Dr. Karthik Upadhyaya	Signal Processing for Wireless Communications : Challenges and Opportunities
07-01-2021 10:30 AM – 12:30PM(IST)	Dr. Raju AEDLA	UAV- Based Smart Agricultural Management system using Image Processing
08-01-2021 10:30 AM – 12:30PM(IST)	Dr. Ganasri B P	Digital Image Processing and image classification

Day-1:

Resource Person: Dr. P M ShivakumaraSwamy, Professor, Department of Electronics & Communication Engineering, JSSATE, Bengaluru.

Speaker discussed about the topic titled "Remote Sensing and Image Processing". Speaker informed about Characteristics of satellite communication, Data processing and preprocessing steps of GIS workflow, spectral image processing types, image processing softwares used in current scenario. He discussed about active and passive components in remote sensing.

Speaker informed that, RADAR is the best example of active remote sensing. Speaker also discussed about Electromagnetic radiation spectrum and Difference between general images and satellite images. Speaker also discussed about importance of Color composites and hyperspectral image. Speaker also illustrated about Multispectral imaging and its frequency ranges. Speaker also discussed about multispectral and hyper spectral image sensing. Speaker also illustrated about applications of hyper spectral image sensing.

Day-2:

Resource Person: Dr. Sudarshan Patil Kulkarni, Professor, Department of Electronics & Communication Engineering, JSSSTU, Mysuru.

Orthogonality

Inner vector

Orthonormal basis sets

Introduction to wavelet transforms

Applications of wavelet transforms

Level of decomposition affecting compression ratio

How to apply wavelets to images and audio signals

Day-3:

Resource Person: Dr. Karthik Upadhya, Espoo, Finland.

Day-4:

Resource Person: Dr. Raju AEDLA, Research Scientist, Kumamoto University, JAPAN.

Day-5:

Resource Person: Dr. Ganasri B. P, GIS Analyst, DALLAS, TEXAS, USA

Mapping of webinar with PO'S and PSO'S

Program	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1
FDP	2	2	2	1	1	-	-	-	-	1	-	2	2

- PO1: Participants gained the knowledge of engineering fundamentals on Image processing and sensors.
- PO2: Participants can be able to analyze complex engineering problems.
- PO3: Participants can be able to apply the knowledge in using various programming tools like Keras and Tensorflow.
- PO4: Participants can identify complex problems for research work.
- PO5: Participants can utilize modern tools for research work (Keras and Tensorflow).
- PO10: Participants can communicate effectively by gaining knowledge.
- PO12: Participants can apply the basic knowledge in lifelong learning of new programming languages.
- PSO1: Participants are able to understand and apply programming tools to various fields of signal processing problems.

Report Submitted By


Dinish Kumar DS


Mr. Dileep J


HOD

HEAD OF THE DEPARTMENT
Dept. of Telecommunication
K.S. Institute of Technology
BANGALORE



JSS MAHAVIDYAPEETHA
JSS ACADEMY OF TECHNICAL EDUCATION

Dr.Vishnuvardhana Road,Bengaluru-560060

Affiliated to VTU, Belagavi, Karnataka, INDIA, Approved by AICTE, New Delhi, Accredited by NBA

Department of Electronics and Communication Engineering

&

Department of Civil Engineering

CERTIFICATE OF PARTICIPATION

This Certificate is Awarded to

Mr.Dileep J

K S INSTITUTE OF TECHNOLOGY

for successfully completing the one week online FDP on **"Image and Signal Processing"**
from 4th - 8th January 2021, jointly organized by the Department of Electronics & Communication Engineering
and Department of Civil Engineering, JSS Academy of Technical Education, Bengaluru - 60.

Mr. Manohar B.S
Coordinator

Dr. Santhosh Kumar
HOD, Civil Engg.

Dr. Siddesh G.K
HOD, ECE

Dr. Mrityunjaya V Latte
Principal
JSSATE,Bengaluru.





JSS MAHAVIDYAPEETHA
JSS ACADEMY OF TECHNICAL EDUCATION

Dr.Vishnuvardhana Road,Bengaluru-560060

Affiliated to VTU, Belagavi, Karnataka, INDIA, Approved by AICTE, New Delhi, Accredited by NBA

Department of Electronics and Communication Engineering

&

Department of Civil Engineering

CERTIFICATE OF PARTICIPATION

This Certificate is Awarded to

Mr.Dinesh Kumar D S

KS Institute of Technology

for successfully completing the one week online FDP on **"Image and Signal Processing"**
from 4th - 8th January 2021, jointly organized by the Department of Electronics & Communication Engineering
and Department of Civil Engineering, JSS Academy of Technical Education, Bengaluru - 60.

Mr. Manohar B.S
Coordinator

Dr. Santhosh Kumar
HOD, Civil Engg.

Dr. Siddesh G.K
HOD, ECE

Dr. Mrityunjaya V Latte
Principal
JSSATE,Bengaluru.





20-21

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Faculty Name: Dr. Surekha Borra

FDP Title: Machine Learning with Python

Organized by: Department of Computer Science & Engineering, KKR&KSRT

Duration: 13th Jul to 18th Jul 2020

About FDP:

FDP on Machine Learning with Python provided educators with a comprehensive understanding of machine learning concepts, techniques, and applications using the Python programming language. Through a series of lectures, hands-on workshops, and collaborative discussions, participants gained insights into fundamental machine learning algorithms, practical implementations, and real-world applications. The FDP aimed to equip educators with the knowledge, skills, and resources necessary to integrate machine learning with Python into academic curricula, foster research collaborations, and prepare students for careers in this rapidly growing field. Participants gained a solid understanding of Python programming fundamentals, including data types, control flow, functions, and object-oriented programming. They learned how to write clean, efficient, and modular Python code for machine learning applications. The FDP covered fundamental machine learning concepts, including supervised learning, unsupervised learning, and reinforcement learning. Participants learned about algorithms such as linear regression, logistic regression, decision trees, k-nearest neighbors, support vector machines, clustering algorithms, and neural networks.

The FDP on Machine Learning with Python provided a valuable platform for educators to deepen their understanding of machine learning concepts and develop practical skills in Python programming. By incorporating insights gained from the FDP into their teaching and research activities, participants are well-equipped to prepare students for careers in machine learning and data science. The program emphasized the importance of hands-on learning, continuous practice, and lifelong learning in mastering machine learning with Python and driving innovation in this rapidly evolving field.

 **Signature of faculty**


HOD ECE

KITS/CSE/FDP/ 299

KITS



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Vinjanampadu, Vatticherukuru Mandal, Guntur, Andhra Pradesh-522017

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

www.kitsguntur.ac.in



Certificate of Participation

This is to certify that **Surekha Borra** from **K.S.Institute of Technology** participated & completed the one week online Faculty Development Program on **Machine Learning With Python** from **13-07-2020** to **18-07-2020** organized by Department of Computer Science & Engineering, **KKR&KSR Institute of Technology & Sciences**, Vinjanampadu, Guntur, Andhra Pradesh, India.

Coordinator
Dr. G. Murali

Coordinator
Dr. S.V. Appaji

HOD
Prof. R. Ramesh

Director
Dr. K. Hari Babu

Principal
Dr. P. Babu



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Faculty Name: Mr. Santhosh Kumar

FDP Title: Machine Learning Using Python Programming

Organized by: Department of ISE,CSE & ECE,AJIT

Duration: 01st Jun to 05th Jun 2021

About FDP:

FDP on machine learning with Python are instrumental in equipping educators with the knowledge and skills necessary to integrate this powerful combination into academic curricula effectively. These programs offer a comprehensive exploration of machine learning concepts, techniques, and algorithms using the Python programming language, which has become a leading choice for data analysis and machine learning applications due to its simplicity, versatility, and rich ecosystem of libraries. Participants in FDPs on machine learning with Python delve into a wide range of topics, including but not limited to supervised learning, unsupervised learning, reinforcement learning, deep learning, natural language processing, and computer vision. Through lectures, hands-on workshops, coding exercises, and real-world projects, educators gain practical experience in applying machine learning algorithms to solve diverse problems across various domain

By engaging in FDPs on machine learning with Python, educators enhance their expertise, expand their professional network, and stay updated with the latest developments in machine learning technology and research. These programs empower faculty members to inspire and educate the next generation of data scientists and machine learning practitioners, driving innovation, and societal impact through their teaching, research, and outreach efforts.


Signature of faculty


HOD ECE



A. J. Institute of Engineering & Technology

(A Unit of Laxmi Memorial Trust)
Kottara Chowki, Mangaluru-575006



Certificate of Participation

This is to certify that

Mr SANTHOSH KUMAR. B. R

of

KSIT

Bangalore

has participated in 5 days Faculty Development Programme on “Machine Learning Using Python Programming” organised by Department of Information Science and Engineering in association with Department of CSE and Department of ECE from 01-06-2021 to 05-06-2021

Dr Nagesh H R
Convenor, HOD & Vice Principal

Dr Shantharama Rai
Principal



K. S. INSTITUTE OF TECHNOLOGY



PHASE - I
A REPORT ON

6 DAYS AICTE – ISTE INDUCTION / REFRESHER PROGRAM

ON

NEXT GENERATION WIRELESS COMMUNICATION: 5G & IT'S IMPLEMENTATION

ORGANIZED BY

THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.INSTITUTE OF TECHNOLOGY, BENGALURU

Sponsored By

AICTE



ISTE



Inaugural Function

Date:21-12-2020

Time: 9.30am – 11.00am

The Inaugural Function of 6 Days AICTE-ISTE Induction / Refresher Program on **Next Generation Wireless Communication: 5G and its Implementation** was held on **21st December 2020** in Mechanical seminar hall, KSIT, Bangalore at 9.30 am

The Induction program was Inaugurated by Chief Guest Dr. Pratapsinh Kakasaheb Desai, President, ISTE New Delhi, graced by Sri. **Y. Ramachandra Naidu**, Hon. President- Kammavari Sangham, **Sri. K. Venkatesh Naidu**, Hon. secretary- Kammavari Sangham, and **Sri. D. Rukmangada** Hon. Treasurer- Kammavari Sangham. The function was presided by **Dr. KVA Balaji Principal /CEO- KSIT**, **Dr .Sangappa S. B.** Prof & Dean, KSIT, National Executive Council Member, ISTE, Chief coordinator of induction program, **Dr. P. N. Sudha**, Prof & HOD-ECE, Program chair. The function was coordinated by Prof. Santhosh Kumar B R, Prof. Jayasudha S. B. and Prof. Sangeetha V. The Inaugural event was conducted offline where as participants joined through both offline and online mode.



Fig: Dignitaries of the Induction program after Lighting the Lamp



Fig: Dignitaries Management , Principal, Chief Coordinator, Program chair

The welcome speech was given by **Dr .Sangappa S. B. Prof & Dean, KSIT**; invocation song was rendered by **Prof. Vishalini Divakar**, then lighting the lamp by the dignitaries followed by the introduction of chief guest by **prof. Saleem S. Tevarmani**.



Fig: Invocation Song



Fig: Welcome Speech by Dr.Sangappa S.B

The Chief Guest **Dr. Pratapsinh Kakasaheb Desai**, spoke about the challenges faced by Technical Institutes. He gave inputs to upcoming engineers about the advantages of being inter-disciplinary. Mere knowledge of a particular discipline is not sufficient in today's competitive world, one should develop attitude of being inter-disciplinary to succeed in his career.

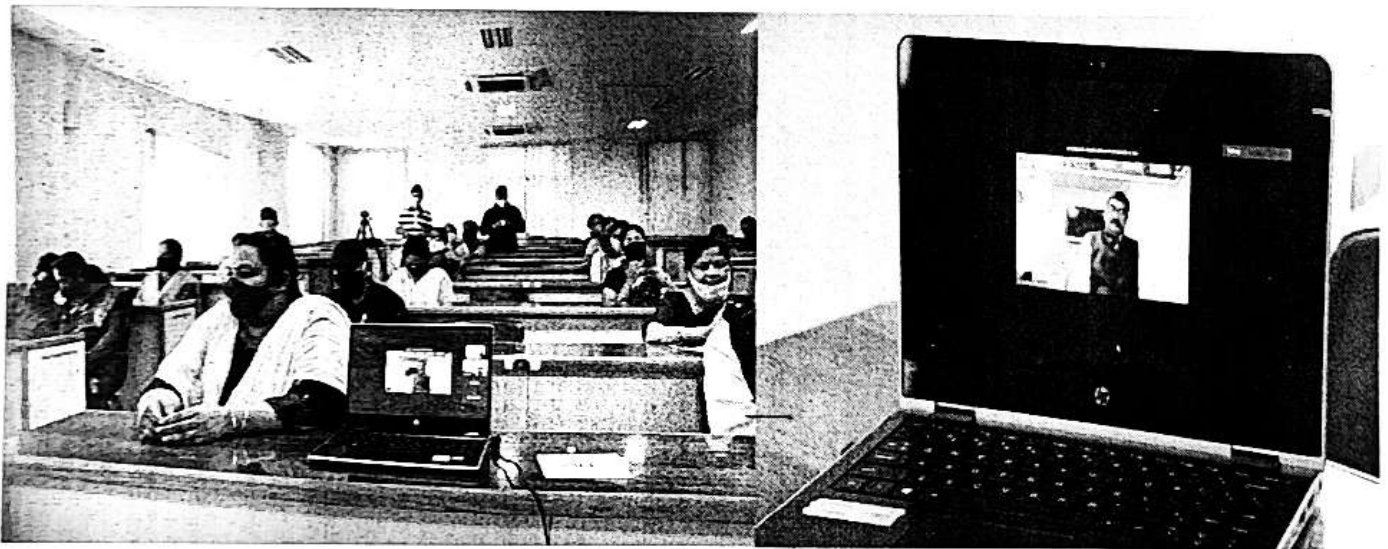


Fig: Chief Guest Speech

Sri. K. Venkatesh Naidu, Hon. secretary- Kammavari Sangham spoke about the endeavors will be successful only when all the stake holders: students, parents, faculty and Institution are aligned and moving in the same direction. **Sri. D. Rukmangada** Hon. Treasurer- Kammavari Sangham spoke about how technology has progressed and how it has impacted all of us in our daily lives.



Fig: Secretary Speech

Fig: Treasurer Speech

Dr. KVA Balaji Principal /CEO- KSIT addressed the gathering and wished all the participants happy learning for all the six days. **Dr. P. N. Sudha, Prof & HOD-ECE**, Program chair briefed about schedule of the Induction/ Refresher program of six days. The program was concluded by expressing gratitude to all those people who were part of this inaugural function of AICTE-ISTE sponsored program by **Prof. Sunil Kumar G R**.



Fig: Inaugural Function Coordinators and all the staff of ECE department



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K. S. INSTITUTE OF TECHNOLOGY

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(Approved by AICTE & Affiliated to VTU)

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

Ph.28435722 / 24, | Fax: 080 - 28435723 | Email: principal@ksit.ac.in | Web:www.ksit.ac.in

Sponsored by



AICTE & ISTE New Delhi

CERTIFICATE OF PARTICIPATION

This is to Certify that

Ms. Vishalinidivakar

from

KSIT, BANGALORE

has participated in 6-days AICTE-ISTE Induction/Refresher program on 'Next Generation Wireless Communication 5G and its implementation' organized by the Department of Electronics & Communication Engineering from 21st to 26th December 2020.

Dr. Sangappa S. B.
NATIONAL EXECUTIVE COUNCIL MEMBER
ISTE, NEW DELHI
CHIEF COORDINATOR

Dr. P N Sudha
PROF. & HEAD DEPARTMENT OF ECE
PROGRAM CHAIR

Dr. K V A Balaji
PRINCIPAL/CEO
K S INSTITUTE OF TECHNOLOGY
CONVENER



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

Ph.28435722 / 24, | Fax: 080 - 28435723 | Email: principal@ksit.ac.in | Web:www.ksit.ac.in

Sponsored by



AICTE & ISTE New Delhi

CERTIFICATE OF PARTICIPATION

This is to Certify that

Mr.Praveen.A

from

KSIT,BANGALORE

has participated in 6-days AICTE-ISTE Induction/Refresher program on '**Next Generation Wireless Communication: 5G and it's implementation**' organized by the Department of Electronics & Communication Engineering from 21st to 26th December 2020.

Dr. Sangappa S. B
NATIONAL EXECUTIVE COUNCIL MEMBER
ISTE, NEW DELHI
CHIEF COORDINATOR

Dr. P N Sudha
PROF.& HEAD DEPARTMENT OF ECE
PROGRAM CHAIR

Dr. K V A Balaji
PRINCIPAL/CEO
K S INSTITUTE OF TECHNOLOGY
CONVENER



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Faculty Name: Mrs. Jayasudha BSK

FDP Title: Advance topics & applications of Machine Learning

Organized by: Department of ECE, NMAMIT

Duration: 31st Aug to 05th Sep 2020

About FDP:

The Faculty Development Program (FDP) on Advanced Topics & Applications of Machine Learning provided educators with an in-depth exploration of advanced machine learning concepts, techniques, and applications. Through a series of lectures, hands-on workshops, and collaborative discussions, participants gained insights into cutting-edge methodologies, recent research advancements, and practical implementations across diverse domains. The FDP aimed to equip educators with the knowledge, skills, and resources necessary to integrate advanced machine learning topics into academic curricula, foster research collaborations, and prepare students for careers in this rapidly evolving field. The FDP addressed the growing importance of machine learning in various sectors, including healthcare, finance, marketing, and cybersecurity. Participants, comprising faculty members, researchers, and industry professionals, engaged in discussions on recent advancements in machine learning, emerging trends, and the role of educators in preparing students for the AI-driven future.

The FDP on Advanced Topics & Applications of Machine Learning provided a valuable platform for educators to deepen their understanding of advanced machine learning concepts, methodologies, and applications. By incorporating insights gained from the FDP into their teaching and research activities, participants are well-equipped to prepare students for careers in this dynamic and rapidly evolving field. The program emphasized the importance of collaboration, interdisciplinary research, and lifelong learning in harnessing the potential of machine learning to address societal challenges and drive positive impact.

Signature of faculty


HOD ECE



NITTE
EDUCATION TRUST

(An Autonomous Institution affiliated to VTU, Belagavi)
NITTE – 574110, Karkala Taluk, Udupi District, Karnataka, India
ISO 9001:2015 Certified, Accredited by NAAC with 'A' Grade

**NMAM INSTITUTE
OF TECHNOLOGY**



Department of Electronics & Communication Engineering

AICTE Sponsored Short Term Training Program on

**Advanced Topics in Machine Learning and Applications in
Engineering and Technology**

Certificate

is presented to

Mrs. JAYASUDHA B S K

(Assistant Professor, Dept. of ECE, K.S.Institute of Technology, Bengaluru-560109)

for attending and successfully completing the **AICTE Sponsored Online Short Term Training Program** on **"Mathematical Foundations of Machine Learning (Statistics and Neural Basis)"** organized by the Department of Electronics & Communication Engineering, NMAM Institute of Technology, Nitte-574110, Karnataka, India during **14th to 21st August 2020.**

Sbhat

Dr. Subramanya Bhat
Coordinator STTP

[Signature]

Dr. Rekha Bhandarkar
Convener & HoD

[Signature]

Dr. Niranjana N Chiplunkar
Principal

A REPORT ON

6 DAYS AICTE – ISTE INDUCTION

REFRESHER

PROGRAM



ON

NEXT GENERATION WIRELESS COMMUNICATION: 5G & BEYOND

ORGANIZED BY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

K.S.INSTITUTE OF TECHNOLOGY, BENGALURU

A 6 Days AICTE-ISTE Induction / Refresher Program on **Next Generation Wireless Communication: 5G and its Beyond** was held on 3rd May 2021 in Zoom online platform.

The Induction program was inaugurated by Chief Guest **Dr. Mahesh Anant Kakade** Director, Board of Examinations, Pune University, Pune, Maharashtra, graced by **Sri. R. Rajagopal Naidu**, President, Kammavari Sangham, **Sri. R. Leela Shankar Rao**, Hon. Secretary, Kammavari Sangham, **Sri. T. Neerajakshulu Naidu**, Treasurer, Kammavari Sangham. The function was presided by **Dr. KVA Balaji** CEO, KSGI, **Dr. Dilip Kumar K**, Principal / Director, KSIT, **Dr. P. N. Sudha**, Prof & HOD-ECE, Program chair, **Dr. Sangappa S. B.** Director (Adm & PR), KSGI, National Executive Council Member, ISTE, New Delhi, Chief coordinator of induction program. The function was coordinated by Prof. Santhosh Kumar B R, Prof. Jayasudha S. B. and Prof. Sangeetha V. The Inaugural event and six days induction program was conducted through online mode.



Fig: Chief Guest and Dignitaries of Inaugural Function

The welcome speech was given by Dr. Sangappa S. B. Director (Adm & PR), KSGI, National Executive Council Member, ISTE, New Delhi, Chief coordinator, and he briefed about KSGI achievement from beginning to till date and highlighted KSIT is one among five colleges to conduct this AICTE-ISTE sponsored induction programme.



Fig: Welcome Speech by Dr.Sangappa S.B, Director (Adm & PR),KSGI

Dr. P. N. Sudha, Prof & HOD-ECE, Program chair briefed about schedule of the second phase of Induction/ Refresher program of six days. She added quote as “Beautiful thing about Learning is nobody can take it away from us”.



Fig:

Dr.P.N.Sudha
,Programme Chair
speech

Invocation song was rendered by Prof. Vishalini Divakar, Asst.Prof.Dept.of ECE, KSIT ,followed by the

introduction of chief guest by Dr.B.Sudharsan, Professor, Dept. of ECE,KSIT.



Fig: Invocation Song and Chief Guest Introduction

The Chief Guest Dr.Mahesh Anant Kakade Director, Board of Examinations, Pune University, Pune, Maharashtra, spoke about education ecology .He enlighten the necessary tools and weapon of power of knowledge are skills and competencies. Execution of performance can be achieved by making excellence as a habit. This better performance comes from best practice benchmark. Best practice comes from novelty of thoughts and DNA committed for innovation.

He also added set a Himalayan Goal to become a Global academic leader and that can be achieved with constant interaction with Stake holders. Each teacher identity is because of identity of organization. He spoke about students centered education, women centered family, Human Centric development, knowledge centered Society and finally Research centered India. The definition of superpower is only certain words which are buzz words or passwords are Research and Innovation. He encouraged for the new startup of innovation hub in future. He concluded that one should have 360 degree positive approach in each and every activities.



Fig: Chief Guest Speech

Sri.R.Rajagopal Naidu, President, Kammavari Sangham spoke about how technology has progressed and how it has impacted all of us in our daily lives. He told about to achieve anything we all need to look for strong leadership. Teamwork is more important aspect and set clear objectives, create a culture and move forward.



Fig: **Sri.R.Rajagopal Naidu**, President, Kammavari Sangham speech

Sri. R. Leela Shankar Rao, Hon.Secretary, Kammavari Sangham, spoke about KSGI follows four important mantras as Discipline, Dedication, Hardwork and Commitment .He also told that the endeavors will be successful only when all the stake holders: students, parents, faculty and Institution are aligned and moving in the same direction.



Fig: Sri. R. Leela Shankar Rao, Hon.Secretary, Kammavari Sangham Secretary Speech

Dr. KVA Balaji CEO,KSGI addressed the gathering and wished all the participants happy learning for all the six days.He spoke about if the world was not slow down by the current pandemic, the implementation and adoption of this technology would be for ahead of where it is now in our country.



Fig: **Dr. KVA Balaji** CEO,KSGI speech

Dr. Dilip Kumar K, Principal / Director ,KSIT, spoke about Teaching is called Nobel Profession and Teacher willingness shows then everything will be converted. The best of country is young generation ,hence need to train student in a betterway with discipline. He also appreciated the vey well planned organization of this event



Fig: **Dr. Dilip Kumar K**, Principal / Director ,KSIT speech

The program was concluded by expressing gratitude to all those people who were part of this inaugural function of AICTE-ISTE sponsored program by Prof. Sunil Kumar G R. Asst. Professor Dept. of ECE,KSIT.

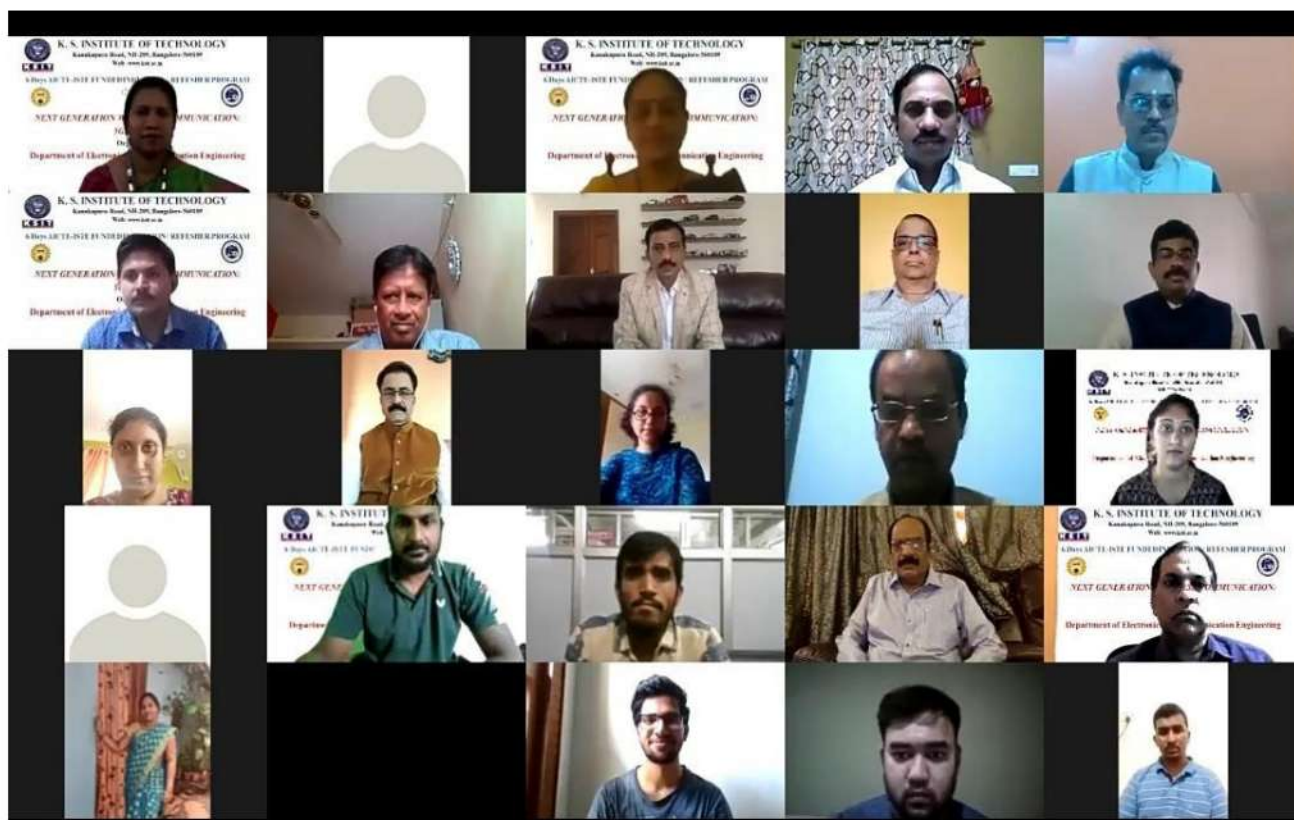


Fig: Management, Chief Guest, Participants in online Inaugural Function

Time 2PM-3.15 PM

Govt of Goa, addressed the gathering and highlighted the importance of such programs conducted for the benefit of teaching fraternity. Then the Management , CEO and Principal addressed the audience with their encouraging words. The program ended with vote of Thanks by Prof. Santhosh Kumar.

The screenshot displays a Zoom meeting interface. The top bar indicates the meeting is titled "Zoom Meeting" and is currently "Recording". The main area shows a grid of 20 participants in a 4x5 layout. The bottom bar contains controls for Mute, Stop Video, Participants, Chat, Share Screen, Remote, and Functions. A list of participants is visible on the right side, showing their names and status (e.g., "On", "Off").

HEAD OF THE DEPT.
Dept. of Electronics & Communication Engg
K.S. Institute of Technology
Bangalore - 560 100



KAMMAVARI SANGHAM(R) - 1952
K S GROUP OF INSTITUTIONS
K. S. INSTITUTE OF TECHNOLOGY

Accredited by NAAC & IEI
(Approved by AICTE & Affiliated to VTU)
#14, Raghuvahall, Kanakapura Main Road, Bengaluru - 560109
Ph. 28435722/24, | Fax : 080 - 28435723 | Email : principal@ksit.ac.in | Web: www.ksit.ac.in



CERTIFICATE OF PARTICIPATION

This is to Certify that Mr.Sunil Kumar.G.R from **KSIT,Bangalore** has participated in 6-days AICTE-ISTE funded Induction / Refresher program (Second Phase) on 'Next Generation Wireless Communication: 5G & Beyond' organized by the Department of Electronics & Communication Engineering between 03rd- 8th May 2021.

Dr P N Sudha
Prof.& Head ECE Dept
Program Chair

Dr.Sangappa.S.B
Director (Adm & PR), KSGI
Chief Coordinator

Dr.Dilip Kumar.K
Principal/ Director
KSIT



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CERTIFICATE OF PARTICIPATION

This is to Certify that **S.CHRISTO JAIN** from **KSIT, Bangalore** has participated in 6-days AICTE-ISTE funded Induction / Refresher program (Second Phase) on 'Next Generation Wireless Communication: 5G & Beyond' organized by the Department of Electronics & Communication Engineering between 03rd- 8th May 2021.

Dr P N Sudha
Prof.& Head ECE Dept
Program Chair

Dr.Sangappa.S.B
Director (Adm & PR), KSGI
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Dr.Dilip Kumar.K
Principal/ Director
KSIT



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Sponsored By



AICTE & ISTE New Delhi

CERTIFICATE OF PARTICIPATION

This is to Certify that **Ms.Aruna Rao.B.P** from **KSIT,Bangalore** has participated in 6-days AICTE-ISTE funded Induction / Refresher program (Second Phase) on '**Next Generation Wireless Communication: 5G & Beyond**' organized by the Department of Electronics & Communication Engineering between **03rd- 8th May 2021**.

Dr P N Sudha
Prof.& Head ECE Dept
Program Chair

Dr.Sangappa.S.B
Director (Adm & PR), KSGI
Chief Coordinator

Dr.Dilip Kumar.K
Principal/ Director
KSIT



K. S. INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Name: Mr. Saleem S Tevaramani

FDP on NAAC Accreditation Process

Organized by B.M.S. College for Women, Basavanagudi, Bangalore

Duration: 23-11-2020 to 30-11-2020

About FDP:

The NAAC (National Assessment and Accreditation Council) accreditation process is a rigorous evaluation aimed at assessing the quality and performance of higher education institutions in India. It involves several sequential steps. Initially, institutions prepare a detailed Self-Study Report (SSR), documenting various aspects such as their mission, infrastructure, academic programs, faculty, and achievements. This SSR is then submitted to NAAC, which assigns a peer team for evaluation. This team conducts an on-site assessment, interacting with stakeholders like faculty, students, and management. The evaluation is based on multiple criteria covering curriculum, teaching methods, research, infrastructure, governance, and innovation. Following the visit, the peer team prepares an assessment report outlining strengths, weaknesses, and recommendations. The institution can respond to this report, addressing any concerns. NAAC's Committee then evaluates the report and response to finalize the institution's accreditation status, assigning a grade ranging from A++ to D. Accreditation is valid for a set period, typically five years, after which reaccreditation is necessary. The process aims to foster a culture of continuous improvement and ensure accountability, ultimately enhancing the quality of higher education institutions.


SIGNATURE OF THE STAFF


HOD - ECE



B.M.S COLLEGE FOR WOMEN

NAAC accredited 'A' – Grade
Basavanagudi, Bengaluru-560 004



ज्ञान-विज्ञान विमुक्तये

**Internal Quality Assurance Cell
UGC-Scheme PARAMARSH**

Certificate of Participation

This is to certify that Saleem S Tevaramani, Assistant Professor, KSIT has participated in the National Level Seven Day Online Symposium on NAAC Accreditation Process organised by *Internal Quality Assurance Cell*, B.M.S College for Women, Bengaluru-04, under the aegis of *UGC Scheme-PARAMARSH* from 23 to 30 November 2020.

Ref.

Accreditation Ambassador,
PARAMARSH, BMSCW

Shobha J

Director, IQAC
BMSCW

N. L. N

Principal,
BMSCW

K S Institute of Technology Bangalore – 109
Department of Electronics and communication Engineering



KSIT

Report on five day online workshop On
“IOT and wireless sensor networks”

Organized by Bridavan College of Engineering, Yelhanka, Bangalore

Date: 27th July -31st July 2020

Scope and Objectives:

The main objective of the programme is to expose PG students and research scholars to discuss the scope and fundamentals of IOT and wireless sensor networks, focusing on various aspects related to defining research problems, designing of research method etc.

Topic coverage:

On 27/7/2020

Workshop was inaugurated by Dr. H. Honegowda, Technical Director, KSTA and guest of honor was Dr. Ashok D. Hanjagi, Senior Professor & chairman, Dept of Geography and Geoinformatics, Bangalore university, Bengaluru. Session I started at 10:30-12:30 and Session II started at 2:00-3:30.

Session I: Dr. Anant kamath , Professor, Azim Premji University gave a talk on Meaning of Research, Research Objectives and Characteristics of IOTs from 10:30-12:30.

Session II: Dr. K N Krishnamurthy, professor, UAS, GKVK gave a introduction to literature of sensors and its applications 2:00-3:30.

On 28/7/2020

Session I: Dr. Jai Asundi, Research Director, CSTEP explained:

- Introduction to mathematical & physical modelling
- Overview of Simulink block library.
- Introduction to solvers
- Introduction to Physical components library
- Hands on: Design of model to generate the waveforms, implementing the mathematical equations in Simulink

Session II: Dr. Yogesh Simmhan, Assistant Professor, Dept of computational and Data Science, IISC discussed:

- To analyze various device parameters necessary for building a image processing system
- To recommend various image enhancement techniques according to the applications

On 29/7/2020

Session I: Dr. U H Acharya, Professor, SQC & OR Unit. Indian Statistical Institute, explained about testing of hypothesis and sample Design, and the idea about choosing the valid data and explained about data analysis.

- To understand the fundamentals of image and video processing and apply the same to security applications.
- To demonstrate the ability to design, develop solutions for Problems in Electronics & Communication Engineering using hardware and software tools with social concerns

On 30/7/2020

Session I: Dr. Yogesh Simmhan, Assistant Professor, Dept of computational and Data Science, IISC discussed about Reading/Writing an image file, Video processing (edge detection and filtering), Face detection in image and Face recognition in image

Session II: Dr. M H Balasubramanya, professor, Dept of Management Studies, IISC gave a talk on Implementation of smart security application, Web interface video streaming using flask, Introduction to AWS (cloud storage).

On 30/7/2020

Session I: Dr. Parameshwar P Iyer, Former Chief Research Scientist, IISC explained about the importance and protection of 5G networks.

Session II: Mrs. Apoorva H R , Consultant gave us the hands on experience about the usage of the software with more examples and taught management Tools.

Enclosure: Certificate Copy of Workshop

Report Submitted By:

Mrs. P Pragati







Brindavan College of Engineering

Dwarakangar, Bagalur Main Rd, Yelahanka, Bengaluru, Karnataka 560063

Affiliated to the Visvesvaraya Technological University, Belgaum

Approved by the AICTE, New Delhi, Govt of Karnataka, Accredited at 'A' Level by NAAC

WWW.BRINDAVANCOLLEGEENGINEERING.COM

Phone: 08028478388 Fax: 08028478366

Email: hodece@brindavancollege.com



ELECTRO-PHOTONICS
ECE Department

Department of Electronics and Communication Engineering *Certificate of Participation*

This is to certify that Mr/Ms/Dr P Pragati, Assistant Professor of
K S Institute of Technology has actively participated in 5 Days

Online FDP through Webinar on "IoT and Wireless Sensor Networks", held from 27th July to 31st July 2020.

Co-ordinator
[Prof. Manjunath B E]

Professor & HOD
[Prof. Venkatesha G]

Principal
[Dr. R. Prabhakara]



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Faculty Name: Mrs. Priyadarshini J Patil

FDP Title: Recent Trends in Electrical Engineering

Organized by: Department of ECE, ASE

Duration: 20th Jul to 26th Jul 2020

About FDP:

The FDP addressed the rapidly evolving landscape of electrical engineering, driven by technological advancements, societal demands, and sustainability concerns. Participants, comprising faculty members, researchers, and industry professionals, engaged in discussions on the importance of staying updated with recent trends and leveraging them to drive innovation and academic excellence. Participants gained insights into the design, analysis, and optimization of renewable energy systems, including solar photovoltaics, wind turbines, hydroelectric power, and energy storage technologies. They explored emerging trends in grid integration, microgrids, smart grids, and distributed energy resources. The FDP covered recent developments in power systems engineering, including power generation, transmission, distribution, and control. Participants learned about advanced techniques for grid stability analysis, fault detection, voltage regulation, and demand-side management. The FDP highlighted interdisciplinary applications of electrical engineering in areas such as biomedical engineering, robotics, autonomous vehicles, smart cities, and sustainable infrastructure. Participants explored case studies and real-world examples illustrating the potential impact of electrical engineering on society.


Signature of Staff


HOD ECE



AMRITA
VISHWA VIDYAPEETHAM



Certificate Of Participation

This is presented to

Priyadarshini J Patil

for attending an FDP on

"Recent Trends in Electrical Engineering : A Research Perspective 2020", from 20.07.20 to 26.07.20, organised by Department of Electrical and Electronics Engineering and IEEE PES & IAS Jt Student Branch Chapter of Amrita School of Engineering -Bangalore.



Dr. P. Surekha,
Coordinator,
RTEeARP - 2020
ASE, Bangalore.

Dr. Deepa. K
Coordinator,
RTEeART - 2020,
ASE, Bangalore

Dr. Navin Kumar
Branch Counsellor, IE
Student Branch, ASI
Bangalore



K.S.INSITITUTE OF TECHNOLOGY

Department of Telecommunication Engineering

Report on

One-week webinar on "Advanced Antenna Design and Development for RF Communication Systems" scheduled during 20th to 25th July 2020

The Institution of Electronics and Telecommunication Engineers (IETE), Bangalore Centre & ATMS (Antenna Test and Measurement Society) ORGANISED one-week webinar on "Advanced Antenna Design and Development for RF Communication Systems"

DURATION: 06 Days (20th to 25th July 2020)

OBJECTIVE OF PROGRAM:

During this program, the participants were able to acquire the knowledge about various concepts like

- Uncommon uses of Microwave
- Aspects of Antenna wrt Polarization and Noise
- Microwave Antenna Measurement Technology
- Space Technologies which changed our lives
- Spacecraft Antenna
- Antennas for wireless / mobile communications - with emphasis on 5
- Compact Multiband antennas and Numerical Modeling
- Metamaterial based antenna designs and applications: Prospects and Challenge
- 5G and Beyond
- Different types of antenna such as Microstrip Antenna, Wearable Antenna and Liquid Antenna

The details of sessions in 6 days Webinar is as follows:

Day-01

Morning Session

Welcome Address: Dr. S G Shivaprasad Yadav & Dr. Swetha Amit

Address by : Sri C Satyanandan, Chairman, IETE Bangalore

Guest of Honor: Shri. Raj Kumar Malaviya, Secretary, ATMS

Chief Guest: Dr. Surendra Pal, Former Vice Chancellor, DIAT, Pune, Senior Adviser- ISRO

Keynote address: Prof. OPN Calla, Director, ICRS

Day-01

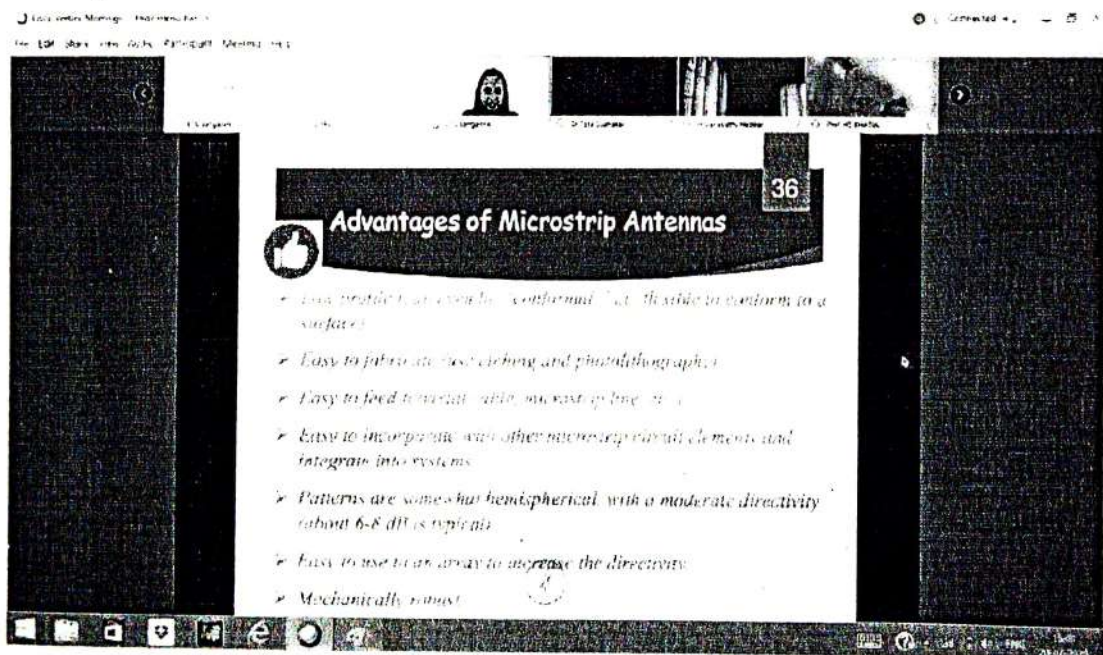
Afternoon Session

Topic : Antenna fundamentals, Design and analysis of Microstrip Antennas

Resource Person : Dr. Swetha Amit, Assistant Professor, Ramaiah Institute of Tech, Bangalore

The speaker discussed about :

- Polarization of electromagnetic wave and a receiving antenna
- Power transfer problem between two antennas
- Antenna noise temperature
- Antennas for aerospace applications



Day-02

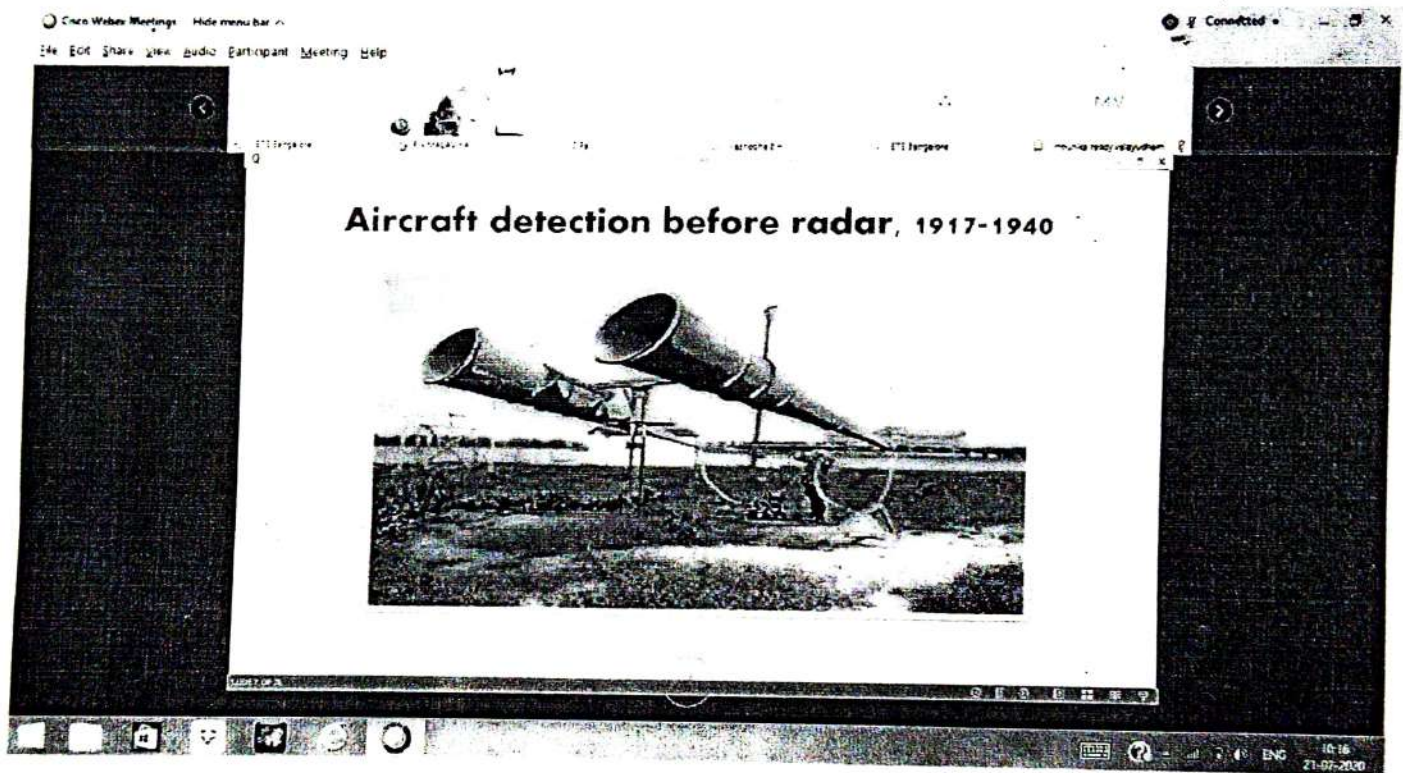
Morning Session

Topic : Microwave Antenna Measurement Technology

Resource Person : Shri. Raj Kumar Malaviya, Secretary, ATMS

The speaker discussed about:

- Compact range principles
- Technical data of CCR 75/60
- Planar near field range
- Multi probe near field range



Day-02

Afternoon Session

Topic : Antennas for Wireless/ Mobile Communications – with Emphasis on 5G

Resource Person : Dr. M. H. Kori, Distinguished Fellow IETE, Technical Director (Retd.), Alcatel-Lucent Technologies

The speaker discussed about:

- Adaptive antenna technologies
- Evolution of LTE- Advanced
- 5G-Three principle Dimensions
- Reconfigurable Antenna

5G - Three Principle Dimensions

eMBB

Enhanced Mobile Broadband

mMTC

Massive Machine Type Communications and

URLLC

Ultra-Reliable and Low Latency
Communications

Day-03

Morning Session

Topic : Spacecraft Antennas

Resource Person : Prof Mahadevan, Scientist ISRO(R)/ Professor PESUniv, Bangalore

The speaker discussed about :

- Space craft subsystems overview
- Altitude and Orbit control systems(AOCS)
- Fine Positioning
- Orbit insertion & maintenance

Day-03

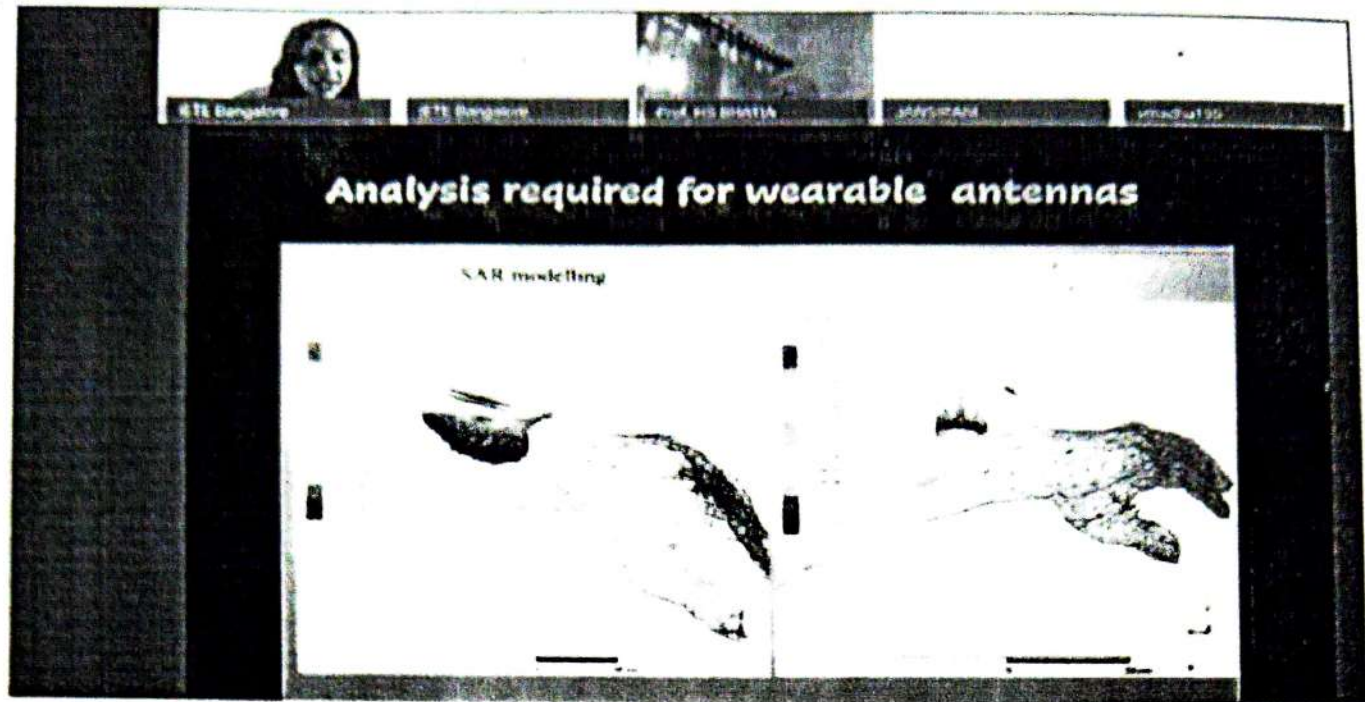
Afternoon Session

Topic : Challenges in design and analysis of Active and Passive Wearable Antennas

Resource Person : Dr. Swetha Amit, Assistant Professor, Ramaiah Institute of Tech, Bangalore

The speaker discussed about :

- Challenges f wearable antenna
- Antenna detuning & impedance matching
- Analysis required for wearable antenna
- Factors influencing the performance of Textile antenna



Day-04

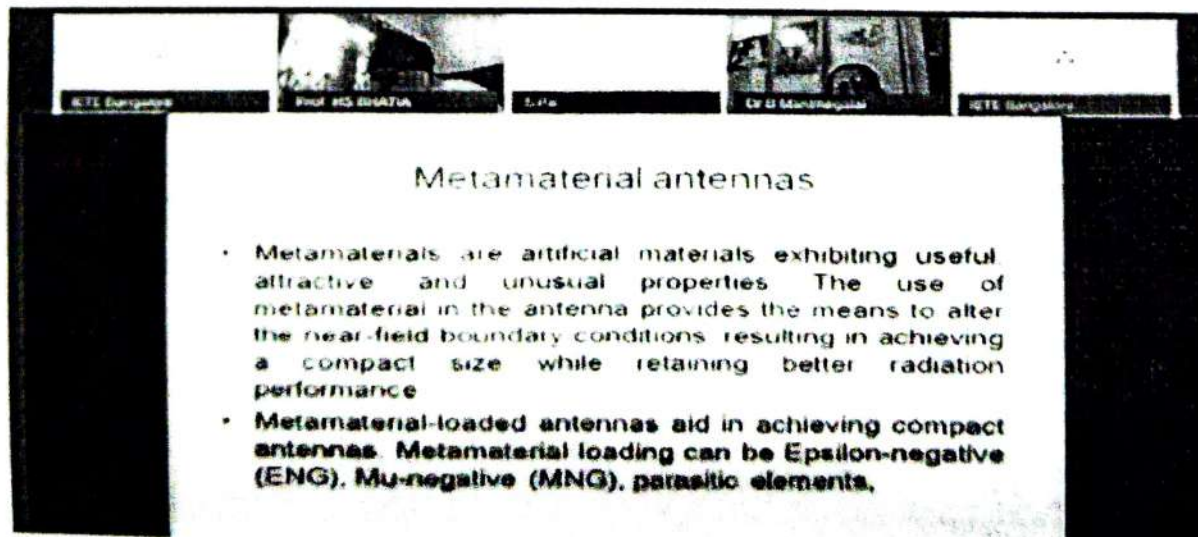
Morning Session

Topic : Compact Multiband antennas and Numerical Modelling

Resource Person : Dr. B. Manimegalai, Professor, Thiagarajar College of Engineering, Madhurai

The speaker discussed about :

- Wireless connectivity technologies
- Challenges in wireless RF frontend
- FRACTALS as antenna
- New trend in antenna design techniques



Day-04

Afternoon Session

Topic : Metamaterial based antenna designs and applications: Prospects and Challenges

Resource Person : Dr. Malay Ranjan Tripathy, Professor, Amity University Uttar Pradesh, Noida, U.P., India

The speaker discussed about :

- Potentials in Antenna Engineering
- Challenges in Antenna Engineering
- Metamaterial devices
- Antipodal tapered slot antenna

The screenshot shows a presentation slide from Amity University. The slide title is 'Challenges in Antenna Engineering: Analysis'. It compares 'Antennas' and 'Metamaterials' across several parameters. The 'Antennas' column lists: Bandwidths: impedance/gain, Gain: directivity & efficiency, Size: volume/conformal/low-profile, Integration: with other circuits, Cost: mass production (fabrication & materials), and Overall. The 'Metamaterials' column lists: Difficult but Possible, Yes & Difficult, Promising*, Promising, Possible, and Promising. The slide also features the Amity University logo and a header with navigation icons and names like 'vishnu195', 'IETE Bangalore', 'Prabhu Kumar', 'malay ranjan tripathy', and 'IETE Bangalore'.

Antennas	Metamaterials
Bandwidths: impedance/gain	Difficult but Possible
Gain: directivity & efficiency	Yes & Difficult
Size: volume/conformal/low-profile	Promising*
Integration: with other circuits	Promising
Cost: mass production (fabrication & materials)	Possible
Overall	Promising

Day-05

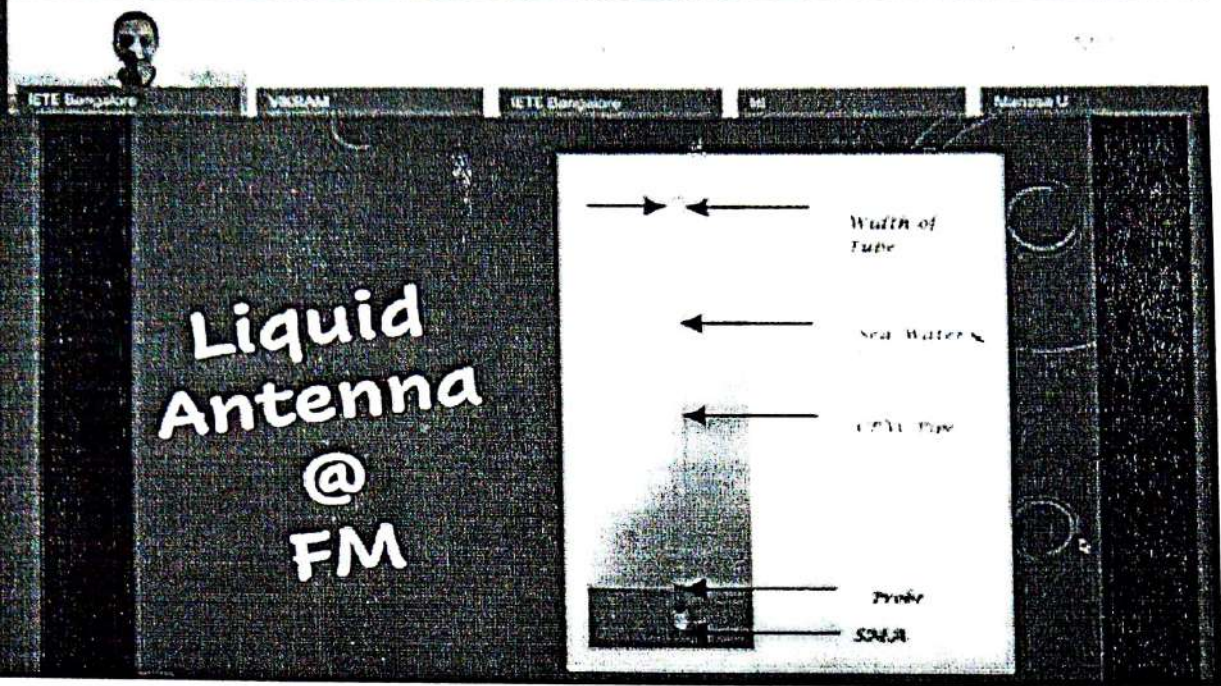
Morning Session

Topic : Research ideas on Liquid Antennas

Resource Person : Dr. Swetha Amit, Assistant Professor, Ramaiah Institute of Tech, Bangalore

The speaker discussed about :

- Sea water antenna
- Sea water conductivity
- Salt water antenna as a fountain
- Salt water concentration to distance covered



Day-05

Afternoon Session

Topic : Space Technologies which changed our lives

Resource Person : Shri. Kali Shankar Shukla, Retd. Senior Scientist ISRO

The speaker discussed about :

- Medical applications of Space technology
- Examples of space technology in day today life
- Applications of space technology in fitness & gym clubs
- Search & rescue service



Day-06

Morning Session

Topic : 5G and Beyond

Resource Person : Dr. Debajit De, Senior RF Engineer, VVDN Technologies Private Limited, Odisha

The speaker discussed about :

- How to improve cellular networks
- Massive MIMO & beam forming
- Challenges of manufacturer for small cell radio
- Issues related to limitations of spectral efficiency

Dr. Debajit De

Deployment of Antennas in Massive MIMO for Sub 6 GHz

3 sectors
8-antenna LTE-A

1 site

One dual-polarized antenna panel

One dual-polarized antenna elements

Number of Antennas

- 8-8 = 64 per sector
- 192 antennas per site

LTE: One input/output per polarization!
Massive MIMO: One per antenna element


Upgrade Existing Sites to Massive MIMO
No sectorization (achieved by beamforming)
Equipment size similar to top-of-the-line LTE
Massive in numbers, not in size

Program	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
Webinar on "Advanced Antenna Design and Development for RF Communication Systems"	3	3	2	2	2	2	1	-	1	1	1	1	3	1

- PO1: Staff gained the knowledge of mathematics, science and engineering fundamentals
- PO2: Staff can able to analyze complex engineering problems
- PO3: Staff can able to design and develop model
- PO4: Staff can identify complex problems for research work
- PO5: Staff can utilize modern tools for research work
- PO6: Staff can understand the consequent responsibilities relevant to the professional engineering practice.
- PO7: Staff can demonstrate the knowledge of, and need for sustainable development.
- PO9: Staff can function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings
- PO10: Staff can communicate effectively by gaining knowledge
- PO11: Staff can apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments
- PO12: Staff can engage in independent and life-long learning in the broadest context of technological change.
- PSO1: It provided an ability to understand and analyze basic concepts & systems relating to the field of communication
- PSO2: It provided an ability to apply the understandings & publish literature.

Participants:

Dr. Chanda V Reddy
 Ms. Rekha N
 Ms. Devika B
 Ms. Srividya R


 Dr. Chanda. V. Reddy

HOD, TCE
 HEAD OF THE DEPARTMENT
 Dept. of Telecommunication Engg
 K. S. Institute of Technology
 Bengaluru - 560 109


 Principal

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



CERTIFICATE OF PARTICIPATION

Dr. Chanda V Reddy



Professor of K.S. Institute of
Technology



For participating in the One Week Webinar on “*Advanced Antenna Design and Development for RF Communication Systems*” held during 20th to 25th July 2020, Jointly Organized by The Institution of Electronics and Telecommunication Engineers (IETE) Bangalore and Antenna Test & Measurement Society of India (ATMS)

Swetha
Dr. Swetha Amit
Coordinator &
Member, ATMS

S.G. Shivaprasad Yadav
Dr. S G Shivaprasad Yadav
Coordinator &
Hon. Secretary, IETE Bangalore

Satya
Shri C Satyanandan
Chairman
IETE Bangalore

R. K. Malaviya
Shri R K Malaviya
Secretary
ATMS, India




CERTIFICATE OF PARTICIPATION


REKHA N




ASSOCIATE PROFESSOR of K S
INSTITUTE OF TECHNOLOGY

For participating in the One Week Webinar on "Advanced Antenna Design and Development for RF Communication Systems" held during 20th to 25th July 2020, Jointly Organized by The Institution of Electronics and Telecommunication Engineers (IETE) Bangalore and Antenna Test & Measurement Society of India (ATMS)


Dr. Swetha Amit
Coordinator &
Member, ATMS


Dr. S G Shivaprasad Yadav
Coordinator &
Hon. Secretary, IETE Bangalore


Shri C Satyanandan
Chairman
IETE Bangalore


Shri R K Malaviya
Secretary
ATMS, India




CERTIFICATE OF PARTICIPATION

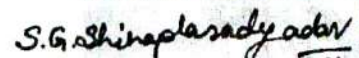
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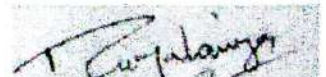
ASSISTANT PROFESSOR of K S
INSTITUTE OF TECHNOLOGY

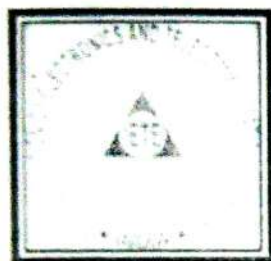
For participating in the One Week Webinar on “Advanced Antenna Design and Development for RF Communication Systems” held during 20th to 25th July 2020, Jointly Organized by The Institution of Electronics and Telecommunication Engineers (IETE) Bangalore and Antenna Test & Measurement Society of India (ATMS)


Dr. Swetha Amit
Coordinator &
Member, ATMS


Dr. S G Shivaprasad Yadav
Coordinator &
Hon. Secretary, IETE Bangalore


Shri C Satyanandan
Chairman
IETE Bangalore


Shri R K Malaviya
Secretary
ATMS, India



CERTIFICATE OF PARTICIPATION

DEVIKA B



Assistant Professor of K. S. Institute of
Technology

Participating in the One Week Webinar on "Advanced Antenna
Design and Development for RF Communication Systems" held
during 20th to 25th July 2020, Jointly Organized by The Institution of
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Coordinator &
Member, ATMS

Dr. S G Shivaprasad Yadav
Coordinator &
Hon. Secretary, IETE Bangalore

Shri C Satyanandan
Chairman
IETE Bangalore

Shri R K Malaviya
Secretary
ATMS, India