

ELECTRONNEWS

A Departmental Newsletter from

SMVITM

**Department of Electronics and Communication
Engineering.**

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SMVITM

ELECTRONNEWS

From the editor's desk...

Warm greetings to the readers of ELECTRONNEWS.

We are pleased to share with you another issue of the newsletter for the second half of 2021. The Covid-19 pandemic has disrupted the economic activity of the country and has created a situation of global crisis. During these hardships the institute as a community stands together and are putting all efforts to counter the losses through regulatory policies. SMVITM is also putting its best effort and strives to keep the members connected through its newsletter, by keeping the forum members updated on relevant news, events and providing them a platform to share their views on various regulatory affairs and incidental matters. In times of social distancing, the regulatory digest, an e-newsletter keeps the SMVITM community updated and engaged. I would also like to take this opportunity to thank the contributors of the newsletter and the department of ECE for their constant support in making this newsletter a success. I wish to engage and encourage more experts working in this domain to share their contribution. If you would like to discuss any questions or feedback, please contact the author or the department for any clarifications.

Ranjith Bhat

DEPARTMENTAL ACTIVITIES

Lecture series, Talks and Webinars:

1. JOB OPPORTUNITIES IN CORE COMPANIES FOR ECE BY Mr.MURALI CHALLA

The department of Electronics and Communication Engineering of Shri Madhwa Vadiraja Institute of Technology and Management in association with Manipal educare organized a technical talk on "Job Opportunities in core companies for ECE" through virtual mode on 06 May 2021. Mr. Murali Challa, Director, Teambits, Hyderabad was the resource person.

The poster is for a lecture series. It features the logo of Shri Madhwa Vadiraja Institute of Technology & Management (SMVITM) at the top. Below the logo, it says "Department of Electronics and Communication Engineering in association with Manipal Edu-Care is organising an Expert Talk on Job Opportunities in Core Companies by Murali Challa, Director and Founder, Teambits on Thursday 6 May 2021 at 10:00 AM. The Gmeet Link is provided as <https://meet.google.com/vzi-nwph-uvp>.

Mr. Challa began his presentation with an overview of core companies in India. He gave insight to the students on the opportunities in

core Electronics field and the skills required. He stressed the need of skills required to get job in these areas. He provided the details regarding the interview process.

Dr. Sachin S Bhat coordinated the program. Prerana P, student of 8th Sem introduced the guest. Around 87 students of final year attended this program.

2. ORIENTATION PROGRAM ON JNANA SETHU-VOLUNTEER ENGAGEMENT PROGRAM FOR ENGINEERING STUDENTS BY MR. HOYSALA, MR. HARIPRASAD, MR. PRAVEEN FROM AGASTYA

The department of E&C Engineering in association with NSS Unit and Agastya International Foundation organized an orientation program on "Jnana-Sethu-Volunteer Engagement program for Engineering students" **on Saturday, 08 May 2021**. Mr. Hoysala, Mr. Hariprasad, Mr. Praveen from Agastya, were the resource persons. Mr. Hoysala started with his presentation on Jnana-Sethu program, its importance and how it can be carried out by engineering students. In his presentation he has explained about Agastya's mission that is focus on (i) Experiential hands on science education (ii) Peer-to-peer learning (iii) Teacher education (iv) Scalable learning

methods (vi)sustainable and environment friendly. He also said that Agastya promotes various learning approaches for the development of underprivileged students and government high school students like Integrated learning approach, 'can-do' attitude & innovation approach, Discovery and project based learning and Hands-on, Interactive & Investigative approaches. Some possible activities a student can take up are:

- a) Assisting local/neighborhood schools/colleges to learn concepts better
- b) Promotion of Appropriate/Innovative Technologies, including automation of activities
- c) Involvement of women in enterprise creation
- d) Food preservation and packaging
- e) Developing innovative produce/water/garbage/waste management systems.

Mr. Hariprasad and Mr. Praveen demonstrated some low-cost science models where students can develop it easily. Some low-cost models demonstrated were (i) Newton's Third Law (ii) Kinetic Inertia (iii) Smoke Box (iv) Reflection of light etc.

A total of 120 students and faculty members participated in the event. Mr. Nagaraja Rao, Associate Professor, Dept. of ECE coordinated the program and proposed vote of thanks.



3. 10 DAYS ONLINE SUMMER CAMP

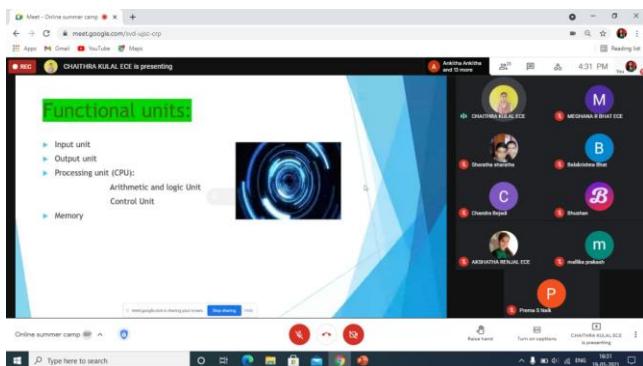
National Service Scheme (NSS) Unit and Department of Electronics and Communication Engineering of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal jointly conducting "10 Days Online Summer Camp" **from 16 May 2021 to 25 May 2021** for primary and high school students. A total of 9 engineering student groups will engage both primary and high school students in different activities during these ten days. Students have planned activities like Yoga, Drawing, Meditation, Music, Health tips, Basics of Sanskrit, best out of waste, Crafts, Activity

based learning and many more. Due to Covid-19 pandemic all the activities will be in online mode. More than 300 students have registered for this camp.

Dr. Thirumaleshwara Bhat, Principal; Dr. Ganesh Aithal, Vice Principal; Dr. Sachin S Bhat conveyed their best wishes to the program. Mr. Nagaraja Rao, Coordinator NSS conducted the program.

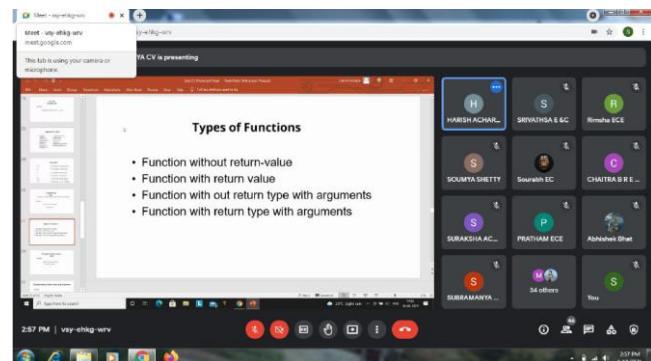
Registration details:

Sl. No.	Name of the District	No. of Students participated
1	Udupi	241
2	Dakshina Kannada	35
3	Bangalore	03
4	Shivamogga	02
5	Davanagere	02
6	Mandy	02
7	Hubballi	01
8	Yadgiri	01
9	Bagalkot	02
10	Kasargod	01
TOTAL		290



4. INTRODUCTION TO DART LANGUAGE FOR MOBILE AND WEB APP DEVELOPMENT

The Department of ECE in association with ISTE student chapter have organized online session on "Introduction to DART language for mobile and web app development", by student technical team "Team Tech warriors" on **Friday 18 June, from 2:00 pm to 4:00pm**. In the session Mr. Harish gave the brief introduction about data types, functions of DART and applications using dart language. He also demonstrated few coding using DART. He introduced the use of DART in web and mobile applications at the end quiz was conducted by Mr. Srivatsa using mentimeter for the participants. Students of first, second and third years of various branches participated and interacted in the event.



Ms. Sriraksha introduced the student speaker's Mr. Harish and Mr. Srivaths. The event was coordinated by Mr. Chetan R, coordinator of

ISTE and Ms. Shashikala R, ISTE office bearer. The ISTE team would reckon the support extended by HOD of ECE for the smooth conduction of the event.

5. TECHNICAL TALK ON CAREER OPTIONS AND OPPORTUNITIES FOR ELECTRONICS GRADUATES BY MR. RENJITH C V

The department of Electronics and Communication Engineering of Shri Madhwa Vadiraja Institute of Technology and Management organized a technical talk on "Career Options and Opportunities for Electronics Graduates" through virtual mode on 30 June 2021. Mr. Renjith C V, Electrical Architect/Product Designer, Philips India was the resource person.

Mr. Renjith began the presentation by providing an overview of Product Development, Industry, Tools and different type of jobs. He gave insight to the students on the opportunities in core Electronics field and the skills required. He elaborated the availability of short term/online training in Embedded System, DSP, VLSI, AI/ML, IoT etc. Students are given the details of higher education in India and abroad. He also stressed the need of publishing the outcomes of engineering projects as quality papers.

Dr. Sachin S Bhat coordinated the program. Nagaraja Kamath, student of 8th Semester introduced the guest. Prerana P, student of 8th Semester concluded the function with vote of thanks. Around 65 students of final year attended this program.



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Vishwotama Nagar, Bantakal, Udupi - 574 115, Karnataka, India
SMVITM

Department of Electronics and Communication Engineering
is organizing an Expert Talk on
Career Options and Opportunities for Electronics Graduates
by

Renjith C V
Electrical Architect/Product Designer
Philips India LTD
Wednesday, 30 June 2021 at 10:00 AM
Gmeet Link - <https://meet.google.com/zaf-zivd-mgi>

6. JOB OPPORTUNITIES IN VLSI/SEMICONDUCTOR INDUSTRY BY MR VEERANJI REDDY

The department of Electronics and Communication Engineering of Shri Madhwa Vadiraja Institute of Technology and Management in association with Takshila VLSI organized a technical talk on "Job Opportunities in VLSI/Semiconductor industry" through virtual mode on **06 July 2021**. Mr. Veeranji

Reddy, Physical Design Engineer Intel Technologies India Pvt. Ltd was the resource person.



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Department of Electronics and Communication Engineering
is organizing an Expert Talk on
Job Opportunities in VLSI / Semiconductor Industry
by

VEERANJI REDDY
Physical Design Engineer
Intel Technologies India Pvt. Ltd
Tuesday, 6 July 2021 at 2:00 PM

Mr. Reddy began his presentation with an overview on the current trends of VLSI technology. He detailed regarding the different design environments for developing semiconductor devices.

Dr. Sachin S Bhat coordinated the program. Prerana P, student of 8th Semester introduced the guest. Around 52 students of final year attended this program.

7. TALK ON CLOUD COMPUTING, MICROSERVICES AND DOCKER CONTAINERS BY PROF. DR. CHRISTINA TERESE JOSPEH

The department of Electronics and Communication Engineering of Shri Madhwa

Vadiraja Institute of Technology and Management organized a technical talk on "Cloud Computing, Microservices and Docker containers" through virtual mode on **21 July 2021**. Prof. Dr. Christina Terese Josph, Department of Computer Science and Engineering, IIIT-Kottayam, Kerala was the resource person. This talk was arranged as the valedictory function of 30 hours Value added course on 'Computer Vision' by Dr. Sachin S Bhat, Dept. of ECE.



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Department of Electronics and Communication Engineering
is organizing a Webinar on
Cloud Computing, Microservices and Docker Containers
by

Dr. Christina Terese Joseph
Assistant Professor
Dept. of Computer Science and Engineering
IIIT, Kottayam
Tuesday, 20 July 2021 at 2:00 PM
Gmeet Link: meet.google.com/gpu-ecgz-tov

Dr. Christina gave a brief history of Cloud Computing and its applications in current word. She also told the importance of Cloud in the era of work from home as it gives access to all of the features and files of the system without having to keep all the files in one computer.

People use cloud computing services every day without even recognizing their features. Facebook, Instagram, Gmail and even Google Drive are all cloud-based applications. All your personal data is stored in the cloud hosted the server for later access.

Dr. Sachin S Bhat hosted the program. Around 100 students have participated in this course.

8. "TECH-TALK" FOR ALL BRANCHES

Department of ECE in association with ISTE student chapter is organized the virtual Intra-collegiate technical event "**TECH-TALK**" for students of all branches on 3 Aug 2021 at 10:00 AM.



TECH-TALK enabled the students to assimilate latest technical aspects and disseminate them

in the presentation, and also which helped them to keep update in the technological era.

Alumni talk:

The student - Alumni interaction activity of alumnae Ms. Sweeda Noronha and Ms. Prateeksha (Batch of 2013-2017 ECE)

The student - alumni interaction activity of alumnae Ms. Sweeda Noronha and Ms. Prateeksha (2013-2017 ECE Batch) with 1st year students of ECE branch was organized by Alumni Cell of Electronics and Communication Engineering Department on 12th March 2021 in the admin block seminar hall of SMVITM.



Ms. Sweeda Noronha, Product Development Engineer in Anora and working as Product Test Engineer consultant at Qualcomm, Bengaluru, started interaction with her experience as a student of Electronics and Communication Engineering branch. She

addressed the gathering about how their life was at SMVITM when they were pursuing engineering. And also, she mentioned the necessities currently needed by an IT and core company and along with that she also mentioned how students should study few programming languages like Python, Java etc.. Ms. Prateeksha, Senior Operations Engineer at CISCO through Synophic, Bengaluru, also joined her in giving an insight on the current technological trends in the field of Electronics and give more importance to seek a better internship while pursuing graduation.

She explained about trending technologies like AI, ML, Virtual reality and augmented reality, computer networks. She also explained her own experience during the internship. She also explained how someone can improve their communication skill

through joining clubs like toastmaster.



Ms. Nisha Josna D'Souza and Ms. Prasha from First year B.E of ECE department welcomed the gathering and introduced speaker to the audience. Dr. Balachandra Achar and Dr. Vasudeva gave a memento to Ms. Sweeda Noronha and Ms. Prateeksha and thanked them for being a part of this fruitful interaction. Ms. Rajashree Nambiar and Mr. Ganesh Shetty, Assistant professor, Department of ECE, coordinated the event.

FACULTY & STUDENT ACCOMPLISHMENTS

A. Faculty Research Presentations and Publications:

1. Sachin Bhat, Kannika Priyadarshini published a paper "An app-based Kannada to English Transliteration system for mobile camera images", Solid State Technology, Vol.63, Issue:2, 2020, p: 9112-9119.
2. Avinash N J, Sreenidhi, Hrishikesh, Sowmya Bhat, Renita into presented "Towards Intelligent and rush free errands using an intelligent chariot" in ICOECA 2021, Springer Conference, Githam School of Technology, Bangalore, 18-19 Feb 2021.

B. FDPs attended:

Name of the faculty	Title of the FDP	Venue
Dr. Balachandra Achar	Applied ML and AI using Python	EduXLabs
Dr. Sachin S Bhat	Natural Language Processing and Deep Learning	Jain University
Dr. Sachin S Bhat	Computation Biology	No
Dr. Sachin S Bhat	Data Mining & Analytics	REVA University
Mr. Nagaraja Rao	Basics of Strategic management-its	IQAC-SMVITM

	relevance in the present situation	
Mr. Nagaraja Rao	Research Methodology-A detailed research process	Sanathana Research and Training Institute Mysuru
Mr. Nagaraja Rao	Control systems and Sensor Technology	AICTE-ATAL
Mr. Chetan R.	PCB design using open-source tools	NITK Step, Surathkal
Mr. Chetan R.	Research Methodology	Nitte Meenakshi Institute of Technology, Bengaluru
Ms. Laxmi Shetty	Emerging Trends in Electronics & Communication Engineering	MITK
Mr. Sandesh Kumar	Contemporary research in electronics and communication and computer science	VTU, dept of ECE
Mr. Avinash N J	Recent Trends in Data Science Applications	SMVITM
Dr. Balachandra Achar	Recent Trends in Data Science Applications	SMVITM
Mr. Ganesh Shetty	Recent Trends in Data Science Applications	SMVITM
Mr. Krishna Kumar	Recent Trends in Data Science Applications	SMVITM

Ms. Laxmi Shetty	Recent Trends in Data Science Applications	SMVITM
Ms. Rajashree Nambiar	Recent Trends in Data Science Applications	SMVITM
Mr. Ranjith Bhat	Recent Trends in Data Science Applications	SMVITM
Ms. Renita Pinto	Recent Trends in Data Science Applications	SMVITM
Mr. Sandesh Kumar	Recent Trends in Data Science Applications	SMVITM
Mr. Arun Upadhyaya	Cyber Security	AICTE-ATAL
Ms. Shashikala R	PCB design using open-source tools	NITK Step, Surathkal
Mr. Sandesh Kumar	PCB design using open-source tools	NITK Step, Surathkal
Ms. Renita Pinto	Student Induction Program	NIT, Patna

Their work focused on the study of vulnerability along coastal part of Karnataka in the last 100 years using thematic maps, toposheets and satellite remote sensing data. More than 10,000 teams across the Nation have participated in this event.



Indian Space Research Organization (ISRO) in association with the All-India Council for Technical Education (AICTE) and Indian Institute of Technology - Bombay (IIT-B) have jointly organized this event to produce maps using Indian remote sensing data. The primary objective is to understand the potential of Indian remote sensing data and to make maps for Indian regions using free open-source mapping software. This Mapathon aided in building local capacities for mapping and generating data that can address larger goals. Producing maps for the country using space application moves India towards Atma Nirbhar Bharat and Global GIS hub.

2. Ms Akshatha H Bhat & Dr. H V Balachandra Achar obtained copyright for their work "Dual parametric stabilization of interference and throughput in Wireless Sensor Network-Optical Communication".

C. Faculty Accomplishments:

1. Professors of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal won the Championship of National Level ISRO-IITB-AICTE Mapathon 2021 Organized by Indian Space Research Organization. Dr. Nagaraj Bhat from the department of Computer Science and Dr. Sachin S Bhat from the department of Electronics and Communication Engineering won this championship award for their outstanding contribution research work titled "Samudraseema: Coastal Karnataka Shoreline Dynamics".

3. Dr. H V Balachandra Achar was Guest of Honour in Scientia 2K21 organised by Amrutha Bharathi Vidyalaya, Hebri on 27 February 2021.

4. Dr. Sachin S Bhat delivered a talk "Sanskrit and Technology" on 16 March 2021 organised by REVA University and IEEE ComSoc, Bengaluru.

5. Dr. Sachin Bhat appointed as Scientific Committee Member in RYMEC, Bellary.

6. Dr. Sachin Bhat appointed as Organizing committee member for International Symposium on Biomedical Engineering and Computational Biology (BECB 2021), organized by Nanchang Hang Kong University, China.

7. Mr. Nagaraja Rao nominated as a member of the evaluation panel of IICDC, project contest organized by Texas Instruments.

8. Mr. Nagaraja Rao and Mr. Arun Upadhyaya appointed as IIC-Innovation Ambassadors by MoE's Innovation Cell & AICTE, New Delhi.

D. Students' Accomplishments:

1. ANVESHANA KARNATAKA- 2021

Students of the second year ECE viz. Akshatha Renjal, Adithi Girish, Shreya Udupa, Rakshith Acharya have won the consolation prize and qualified for the finals of ANVESHANA KARNATAKA- 2021 an Online Science and Engineering Fair. For which they had come up with a project titled SWASTHYA.



Department of Electronics and Communication Engineering



Congratulations to our students for winning Consolation Prize and qualifying in the Finals of the State Level Project Competition.

"AnveshanA Karnataka - 2021"
(Online Science & Engineering Fair)

Project Title : "SWASTHYA"

Student Members : Akshatha A Renjal
Adithi Girish
Shreya Udupa
Rakshith Acharya

SMVITM - Engineering your Career and Character with Care

2. Projects selected for KPIT Sparkle- National innovation challenge 2021

Three Innovative Projects from students of Shri Madhwa Vadiraja Institute of Technology & Management, Bantakal have been selected for "Top 100" position in reputed "National Level Innovative Competition KPIT Sparkle" which is organized by KPIT Inc, Pune. Students and Faculty from the department of EC, SMVITM, Bantakal, Udupi has claimed that they are the best innovators by proving themselves participating in KPIT Sparkle-National innovation challenge 2021. It is a national level contest and the theme was Mobility and Energy for the future. KPIT Sparkle is one-of-its-kind Design & Development Contest for Science & Engineering students. Students are encouraged to participate, win prizes & get national acclaim. KPIT Sparkle an innovation platform by KPIT technologies, Inviting bright minds from science and engineering students across India. This company is known to provide opportunities to promising ideas to foster entrepreneurship and innovation.

Students of Department of EC, SMVITM have made their ideas sparkle by getting selected to top 100 selections from more than 2500 ideas that were uploaded across different parts of India. The College had uploaded 11 new innovative ideas out of which 3 ideas have been selected to the top 100 projects.

This has inspired with true excitement and joy in the young entrepreneurs (students). Team of students Aishwarya, Bhoomika J S, Deepthi Poojary, Niharika Balthillaya of Electronics & communication engineering have developed "Implementation of collision avoidance system for hair pin bends in ghats using proximity sensors". Chaithra Kulal, Dheeraj, K Srinivas Kamath, Neema B Shetty, Meghana R Bhat have developed "Thermoelectric Air cooling for cars" and Adithi P, Anwitha Rao P, Arun J.K, Harshitha Shetty, Hrishika have developed "Alternative source of energy based on piezoelectric effect".

The Management, Principal and staff members have complimented all involved in this activity for this wonderful achievement.

4. Project proposals of students approved for scholarships by the Karnataka State Council for Science and Technology (KSCST 2020-2021)

Motivated by the desire to build a strong base for practical problem solving in several engineering colleges as well as to build their R & D potential, KSCST decided to promote student project programmes in a large number through a

programme called STUDENT PROJECT PROGRAMME for providing financial and academic support for Bachelor of Engineering projects. The following are the students who have been selected for the same under the guidance of the faculties from SMVITM.

Project name: 1. TOUCHLESS SMART DETOXIFYING UNIT.

Students: Sumanth S.S, Triphthi Shetty, Vijetha, Vinutha Bhargavi.

Under the guidance of: Mr. Arun Upadhyaya.

Project name: 2. PROVIDING SUPPORT TO THE KNEE USING METALIC JOINTS.

Students: Adithya K, Gowri M, Namana, Pranav K R.

Under the guidance of: Mr. Chetan R.

Project name: 3. DAIRY MILK FARMING FROM NOW TO NEXT.

Students: B Pradyumna Tantry, Pradyumna P Tantry, Prajwal, Suraj Jayaram.

Under the guidance of: Ms. Rajashree N.

Project name: 4. GRADING OF THE COFFEE DEPENDING ON THE AROMA AND TASE USING SENSORS.

Students: Adarsh A Shetty, Rajath B Kulal, Abhishek M Rao, Nagaraj Kamath.

Under the guidance of: Dr. Ganesh Aithal.

Newspaper cuttings

YouTube channels of faculty members

S.I.	Faculty Name	YouTube Channel Link
1	Ms. Laxmi Shetty	https://www.youtube.com/user/05laxmishetty
2	Mr. Arun Upadhyaya	https://www.youtube.com/c/ArunUpadhyaya/
3	Mr. Nagaraja Rao	https://www.youtube.com/channel/UC68SV57xMPfk7tjI1I_2Rjw/
4	Mr. Ranjith Bhat	https://www.youtube.com/user/Ranjithbhat444
5	Ms. Sowmya Bhat	https://www.youtube.com/channel/UCfMfti5ejWCmv7Pvh33lbUw/

PLACEMENTS

Placed Student Details Batch 2020-2021		
S.I No	Name of Student	Name of the Company
1	CHETHANA	Robosoft Technologies Pvt. Ltd., Udupi
2	SHREERAKSHA	
3	GOPIKA C B	
4	NAMANA	
5	NIDISH M SUVARNA	
6	SHARANYA	
7	VINAYAK ANANT HEGDE	
8	POORVIKA	
9	SOWJANYA DERANNA RAI	
10	SRIHARSHA S BHAT	
11	PRERANA P	
12	NIVEDITHA NAYAK P	
13	SHARANYALAXMI K	
14	SHARATH KARANTH	
15	SOWBHAGYA DERANNA RAI	Tata Consultancy Services Ltd., Bengaluru
16	TEJASVINI	
17	CHETHANA	
18	ADARSHA HEBBAR	
19	KAVANA MAHESH HEGDE	Avo Automation, Bengaluru
20	PRATHAM S KANCHAN	High Peak Software Pvt. Ltd., Bengaluru
21	NAMANA	
22	PRATHAM S KANCHAN	Cerium Systems (P) Ltd., Bengaluru
23	JEEVAN	Tech Mahindra Ltd.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



VISION

To emerge as an excellent technical education centre and be an integral part in the development of advancing technologies and global challenges, in the field of Electronics and Communication Engineering.

MISSION

1. To facilitate an ambience conducive to the excellence in technical education.
2. To provide a platform that will ensure the exchange of ideas and dissemination of knowledge.
3. To establish a research-oriented centre by having rapport with industries.
4. To foster ethical and value-based education with credibility by promoting activities that have societal impact.

PROGRAMME EDUCATIONAL OBJECTIVES

The graduate of Electronics & Communication Engineering should be able to:

1. Exhibit essential knowledge of applied sciences, mathematical modelling, logical interpretation and virtual realization to resolve real-time problems in the field of Electronics and Communication Engineering.
2. Work productively as an Electronics and Communication Engineer, including supportive and leadership roles on multidisciplinary teams.
3. Inculcate effective communication skills to excel in professional growth.
4. Take part in lifelong learning in pace with the advancing technological society.

PROGRAMME SPECIFIC OUTCOMES

Graduates of Electronics & Communication Engineering will be able to:

1. Focus on developing and exposure to alternative/ advanced technologies: Understand the concepts of Electronics & Communication Engineering and its application in the fields of signal processing, control systems, embedded systems, VLSI design, networking, and communication.
2. Extension of knowledge and testing facilities for the society: Apply domain-specific knowledge to design, analyse, synthesise and validate real-time problems in Electronics & Communication Engineering.



Brought to you by

The Newsletter Committee,
Dept. ECE, SMVITM