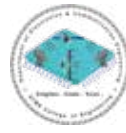




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College of Engineering



ELECTRONICS & COMMUNICATION ENGINEERING



ECHELON- ECE Department Newsletter

Volume 10, Issue 2, Aug 2023

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MESSAGE FROM PRINCIPAL



Pleased to present the latest edition of the ECE newsletter, showcasing the achievements of our students and faculty. I congratulate the team and wish them continued success.

Regards
Dr. L Basavaraj
Principal, ATMECE

MESSAGE FROM HOD



We are pleased to present Volume 10, Issue 2 of our newsletter, highlighting the department's achievements over the past six months. Sincere thanks to everyone who contributed to its preparation.

Sincerely
Dr. Prathibha M K
HOD, ECE

EDITORIAL COMMITTEE

Chief Editor

Dr. Prathibha M K
HoD

Editor

Mr. Chandrashekar. P
Assistant Professor

Member

Mrs. Keerthi A Kumbar
Assistant Professor

Student Members

Mr. Karthik P U
Mr. Tejas
Ms. Keerthana
Ms. Thanushree

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering (ECE) was established in 2010 with an initial intake of 60 students, which was later increased to 120 in 2012. It offers B.E./B.Tech and Doctoral programs, focusing on key areas such as Wireless Communication, Signal and Image Processing, VLSI & Embedded Systems, Biomedical Engineering, and Advanced Control Systems. The program is accredited by the National Board of Accreditation (NBA), New Delhi. The department houses advanced laboratories, including a VLSI Lab equipped with Cadence tools, IoT Lab, and NI LabVIEW Lab. These labs provide hands-on training, enabling students to work on real-time projects and build industry-relevant skills.

The department is supported by a team of highly qualified and experienced faculty members with multidisciplinary expertise and strong research contributions. To enhance students' industry readiness, the department conducts specialized workshops, training sessions, internships, industrial visits, and expert-led webinars. The annual inter-college technical fest, **URJA**, offers students a platform to demonstrate their talents and build leadership skills. With a strong emphasis on practical learning, research, and innovation, the department continues to provide quality technical education and foster academic and professional excellence.

VISION of the Department:

- To develop highly skilled and globally competent professionals in the field of Electronics and Communication Engineering to meet industrial and social requirements with ethical responsibility.

MISSION of the Department:

- To provide State-of-art technical education in Electronics and Communication at undergraduate and post-graduate levels, to meet the needs of the profession and society and achieve excellence in teaching-learning and research.
- To develop talented and committed human resource, by providing an opportunity for innovation, creativity and entrepreneurial leadership with high standards of professional ethics, transparency and accountability.
- To function collaboratively with technical Institutes/Universities/Industries, offer opportunities for interaction among faculty-students and promote networking with alumni, industries and other stake-holders.

STAFF ACHIEVEMENTS

- **Mr. Chandra Shekar P**
 - Delivered a talk on the topic “5G Technology” and “Current Trends of Technology” at On-Air AKASHVANI, Mysore
 - Awarded for exceptional contribution as a Pre-Screening Evaluator in Smart India Hackathon – 2022
 - Published a paper on “Machine Learning Algorithms for Identifying Fake Currencies” in SN Computer Science (SCOPUS) volume 4, Article number: 368 during April 2023.
- **Mrs. Pavithra A C** – awarded Ph.D for the title “Optimal feedback controllers for the performance enhancement of aircrafts roll yaw and pitch control” from VTU, Belagavi.
- The following faculties have successfully completed National Initiative for Technical Teachers Training (NITTT) courses. It is a Scheme initiated by AICTE and MoE to provide training for teachers working in AICTE approved Technical Institutions. An Inductee Teacher has to undergo online training of eight modules in the first phase of training.
 - Mr. Guruprasad N
 - Mr. Pradeep Kumar Y
 - Mrs. Keerthi A Kumbar
 - Mrs. Juslin
 - Ms. Anupama Shetter

LIST OF FDPS/STTP/WORKSHOPS ATTENDED

Sl. No.	Name of the Faculty	Details of Courses Attended (Title of the Course, Organizer Name and Place)	From Date	To Date	Duration
1.	Mrs. Keerthi A Kumbar	FDP on “EWB Training on Data Analytics Operations” in Association with Xponential Orbit Shifters, Bangalore held at the Dept. of EEE, ATMECE, Mysuru (offline)	10-03-2023	-	1 day
2.	Mrs. Chethana K S				
3.	Mrs. Nandini G S				
4.	Ms. Navya N				
5.	Mr. Chandra Shekar P	FDP-SI on “Universal Human Values – 2023” by AICTE Incorporating Universal Human Values in Education (online)	20-02-2023	24-02-2023	5 Days
6.	Mrs. Nandini G S				

LIST OF FDPS/STTP/WORKSHOPS ATTENDED

Sl. No.	Name of the Faculty	Details of Courses Attended (Title of the Course, Organizer Name and Place)	From Date	To Date	Duration
7.	Dr. Shalini Hanok	FDP on "Research Proposal Writing", by Ministry of Education. Gov. of India ICMR-NIN facility, Hyderabad	-	-	-
8.	Mrs. Keerthi A Kumbar	Open Day @ IISC Bengaluru (Offline)	04-03-2023	-	1 day
9.	Ms. Anupama Shetter				
10.	Mr. Pradeep Kumar Y				
11.	Mr. Guruprasad K N				
12.	Mr. Abhilash G.	Short term course on hands on training in "VLSI and Communication Modelling" at Dr. B R Ambedkar National Institute of Technology, Jalandhar, Panjab (online)	06 -03-2023	10-03-2023	5 days
13.	Mrs. Chethana K S				
14.	Mr. Chandra Shekar P	ATAL FDP on "Analog and Digital Design Flow for VLSI Chip Application" at GM Institute of Technology, Davangere.	20-02-2023	25-02-2023	6 days (Online)
			27-02-2023	03-03-2023	5 days (Offline)
		FDP-SI UHV with AICTE "Incorporating Universal Human Values in Education" (Online)	20-02-2023	24-02-2023	5Days
15.	Mrs. Chethana K S	FDP on "VLSI & Comm Modeling" organized by Dept. of ECE, Dr. B R Ambedkar, NIT, Jalandar	06-03-2023	10-03-2023	5Days
16.	Mr. Abhilash G				
17.	Ms. Anupama Shetter	FDP on "Medical Device Design" at Department of Design, Indian Institute of Technology, Roorkee	12-05-2023	23-05-2023	12 days
18.	Mr. Pradeep Kumar Y	IEEE Third International Conference on "Technology, Engineering, Management for Societal impact using Marketing, Entrepreneurship and Talent" organized by VVIET, Mysuru	10-02-2023	11-02-2023	2 days
19.	Mr. Guruprasad K N				
20.	Mr. Chandrashekar P				
21.	Mr. Manjunath K				
22.	Mr. Girish M				
23.	Mr. Chandra Shekar P				
24.	Mrs. Chethana K S	FDP on "VLSI to System Design: Silicon to End Application Approach"	31-07-2023	04-08-2023	5 days
25.	Mr. Abhinandan V				

DEPARTMENT ACTIVITIES

The Department of Electronics and Communication Engineering organized the following academic and co-curricular activities to enhance student and faculty knowledge across emerging and core domains:

- Technical Talk on “Demystifying Role of AI in Diagnostic Imaging” – Conducted for 4th semester students on 26th August 2023 at ATMECE, Mysuru.
- Technical Talk on “Semiconductor Design” – Organized for 4th semester students on 10th June 2023 at ATMECE, Mysuru.
- Zonal Level Project Exhibition & Competition “ProjectXpo-2K23” – Held on 22nd May 2023 in association with Alumni Association & ISF for ECE/EEE students at ATMECE, Mysuru.
- Technical Talk on Cyber Security – Conducted for 6th and 8th semester students on 19th April 2023.
- 5-Day FDP on “5G/6G Technologies for Wireless Systems” – Organized for faculty, Ph.D. scholars, and PG students from 27th to 31st March 2023 at ATMECE, Mysuru.
- Workshop on PCB Assembly and Soldering Process using EDA Tools – Conducted from 15th to 17th February 2023.
- The department has organized Industrial Visit to U R Rao Satellite Centre (URSC), Bengaluru (Formerly known as ISRO Satellite Centre (ISAC)) for 7th semester students on 20th September 2023. Dr. Prakash Kuravatti, Asso. Professor, Mr. Pradeep Kumar Y, Asst. Professor, Mrs. Keerthi A Kumbar, Asst. Professor, Ms. Anupama Shetter, Asst. Professor, and Dept. of ECE coordinated the students. The students were allowed to visit the space exhibition comprising of a display of satellite systems, scaled models of satellites and allied information on satellite technologies.



STUDENTS ACTIVITIES/ACHIEVEMENTS

- Manoj Kumar M, Vyshak Gowda M R, Darshan S Y, Chandan M M have won 2nd Prize in the 7th National level project competition “IEEE Project EXPO–2023” for the project work entitled “Ambulance rescuing system using RF Technology” under the Guidance of Dr. Prakash Kuravatti at GSSSIETW, Mysuru on 5th May 2023.
- Vishveshwara Bhargav S V, Arun G Raj, Shashank Gowda R, Tharun Gowda A V, Tejas N and Yashwanth C N of 4thsemester participated in the 8-day workshop on “RTL Front end Designing using Verilog” organized at VVCE, Mysuru in association with IEEE CAS Bangalore Chapter from 2nd to 9th September 2023.

PLACEMENT DETAILS

In the Department of Electronics and Communication Engineering, students secured placements in reputed companies with salary packages ranging from ₹2.4 LPA to ₹7.5 LPA.

Our esteemed Recruiters



TOPPERS LIST



ANANYA S NAYAK
4th Sem
USN - 4AD21EC005
SGPA 9.28



VARUN G RAJ
4th Sem
USN - 4AD21EC095
SGPA 9.00



SHASHANTH R
6th Sem
USN - 4AD20EC064
SGPA 9.38



FASEEHA FATHIMA
6th Sem
USN - 4AD20EC020
SGPA 9.17



PRATHEEK P S
8th Sem
USN - 4AD19EC057
SGPA 9.29



SUSHMITHA M S
8th Sem
USN - 4AD19EC080
SGPA 9.15

PROGRAMS OUTCOMES

- **PO1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2. Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **PO6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Educational Objectives

- **PEO1:** To have the capability to understand and adopt the technological advancements with the usage of modern tool to analyze and design embedded system or processes for variety of applications
- **PEO2:** To work effectively in a group as an independent visionary, team member and leader having the ability to understand the requirement and develop feasible solutions to emerge as potential core or electronic engineer.

Program Specific Outcome

- **PSO1:** To produce graduates to excel in the profession, higher education and pursue research exercises in Electronics and Communication Engineering.
- **PSO2:** To create technically able alumni with the capacity to examine, plan, to create and execute Electronics and Communication frameworks thereby involving in deep routed learning.



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