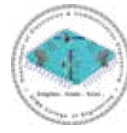




A T M E[®]
College of Engineering



ELECTRONICS & COMMUNICATION ENGINEERING



ECHELON-ECE
Department Newsletter

Volume 11, Issue 2, Aug-24

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Message from Principal

I am glad to present the latest edition of the ECE department newsletter, which highlights the efforts and accomplishments of our faculty and students. My best wishes to the entire team for continued success and academic excellence.

Regards

Dr. L Basavaraj
Principal, ATMECE



Message from HoD

It gives me great pleasure to present Volume 11, Issue 1 of the ECE department newsletter. This edition reflects the dedication, achievements, and collaborative spirit of our faculty, staff, and students over the past six months. I sincerely appreciate everyone's contributions and encourage continued enthusiasm in all academic and co-curricular pursuits.

Sincerely

Dr. Prathibha M K
HOD, ECE



EDITORIAL COMMITTEE

Chief Editor

Dr. Prathibha M K
Associate Professor & HoD

Editor

Mr. Chandra Shekar P
Assistant Professor

Member

Mrs. Keerthi A Kumbar
Assistant Professor

Student Members

Mr. Manosh Gowda
Ms. Manassa S
Ms. Nethra S P
Mr. Zahid Khan M

About the Department

The Department of ECE Established in 2010 with an initial intake of 60 students, and expanded its intake to 120 students in 2012, reflecting growing academic demand. The department offers a four-year Undergraduate program (B.E./B.Tech) and Doctoral programs, focusing on both core and advanced areas such as Wireless Communication, Signal and Image Processing, VLSI and Embedded Systems, Biomedical Engineering, and Advanced Control Systems.

The Electronics and Communication Engineering program is accredited by the National Board of Accreditation (NBA), New Delhi. The department is equipped with state-of-the-art laboratories and advanced computing resources. Notably, it houses a dedicated VLSI Laboratory featuring Cadence tools with 30 user licenses, providing hands-on training in circuit design and simulation. Additional facilities include the Internet of Things (IoT) Lab and the NI LabVIEW Lab, where students engage in practical training, mini-projects, and major projects that promote innovation and technical competence.

The department boasts a team of highly qualified and experienced faculty and technical staff. Faculty members possess multidisciplinary expertise and demonstrate strong research capabilities across diverse domains. Their commitment to academic excellence and student mentorship creates a dynamic and engaging learning environment. The department also maintains an extensive collection of textbooks and reference materials covering a wide range of subjects to support teaching and research.

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 postgraduate levels, to meet the needs of the profession and society, and achieve excellence in teaching-learning and research.
- To develop talented and committed human resources, 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 stakeholders.

Staff Achievements

- Dr. Prathiba M K is nominated as a member of Board of Syllabus in VTU, Belagavi
- Mr. Chandra Shekar P has reviewed many papers in various international conference such as
- ICRAIS-2024 organized by Manipal Institute of Technology, Manipal,
- ICDSNC-2024 conference organized by KSIT, Bengaluru
- IEEE MysuruCon 2024 at Vidya Vikas Institute of Engineering & Technology, Mysuru
- 2nd IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON), Nitte Meenakshi Institute of Technology, Bengaluru.

FDPS/STTP/WORKSHOPS ATTENDED

Name of the Faculty	Type of Program	Title of Program	Organized by	Duration
Dr. Shalini Hnaok	STTP	Application of Deep learning in Multidisciplinary area	NITK, Surathkal	1 st -5 th July 2024
Mrs. Keerthi A Kumbar	Workshop	Five Days SPARC - Ministry of Education Sponsored Workshop on EM to RF Evolution: Unveiling the State of the Art in 6G Systems	Department of ECE, Ramaiah Institute of Technology, Bangalore	24 th -29 th June 2024
Mr. Girish M	WORKSHOP	Export Management Training Program	District Industry Centre, Mysore	24 th -29 th June 2024
Mrs. Keerthi A Kumbar	FDP	Antenna Design Techniques for wireless power transfer	Sri Krishna college of Technology, Coimbatore	8 th -9 th March 2024
Mr. Pradeep Kumar Y	STC	Artificial Intelligence and Machine Learning Techniques for Engineering Applications - Theory and Practice	NIT, Puducherry	8 th February - 1 st March 2024
Mr. Guruprasad K N				
Ms. Anupama Shetter				

DEPARTMENT ACTIVITIES

The Department of Electronics and Communication Engineering organized the following academic and co-curricular activities during the year 2024 to enhance student learning, technical exposure, and soft skills:

- Department Fest – URJA2K24: Conducted on 13th and 14th June 2024, the fest featured events such as Presento, Project Expo, Technical Treasure Hunt, and Mini Project Exhibition.
- Soft Skill Training for 4th Semester Students: Organized from 13th to 16th May 2024 to strengthen communication, teamwork, and interpersonal skills.
- Industrial Visit to U R Rao Satellite Centre, ISRO, Bengaluru: Conducted on 11th May 2024 to provide students exposure to real-time space research and satellite technology.
- One-Day Workshop on Virtual Lab and ICT-Based Learning: Held on 8th May 2024 for 4th and 6th semester students to promote virtual experimentation and technology-enabled learning.

PROJECT FUNDING

Sl. No.	Project	Student Name	Guides/ Co - Guide	Approved Grant (INR)
1	GPS based Animal Tracking System	Prajwal, Rajendra B K Suresh, Shivakumar Shabza Khan, Vishwas Jeevan gowda, Jeenisha	Ms. Anupama Shetter Dr. Basavaraj L	2,32,500/-
2	Vruksha-Raksha	Shashidhara, Spoorthi Chiranth, Gokulsuresh Suraj, Ravikumar, Ganesh	Dr. Prakash Kurvatti	2,25,000/-
3	Farm to Table (Direct Selling)	Niranjan, Shashanth, Sumanth, Karthik P U Kavana K, Lokesh S	Ms. Anupama Shetter Mrs. Juslin F	1,00,000/-

Students Activities/Achievements

- Ms. Delphina Jerusha bearing a USN 4AD20EC016 has cleared GATE Exam 2023.
- Ms. Kusuma and Ms. Chandan has presented paper at National conference organised by RNSIT, Bangalore and Secure BEST PAPER Award with cash prize of 2000/- under the guidance of Mr. Chandra Shekar P

DEPUTATION OF STUDENTS FOR TECHNICAL ACTIVITIES

SL. No.	Date	Activities	Name of Students
1.	19-02-2024 to 20-02-2024	Jnana Vignan Tantragnana Mela-2024	Mohammed Zaid Baig, Jayakumar J, Rahul R, Sagar S, Ullas R, Vishnuprasad B, Shreedhar R, Shreyas Shreedhar Kulkarni, Sonu C, Punyashree B, Tejaswini D, Umme Kulsoom Riyaz
2.	24-02-2024	Open Day, IISc, Bengaluru	Around 35 Students

DETAILS OF PLACEMENT RELATED TRAINING ACTIVITIES

SL. No.	Event	From Date	To Date	No of Hrs	Resource Person
1.	Advance Communication	Throughout semester		16 hrs	ATMECE Faculties
2.	Advance Communication	Throughout semester (Ongoing)		16 hrs	ATMECE Faculties
3.	Higher Level C Programming	Throughout semester (Ongoing)		36 hrs	ATMECE Faculties
4.	Higher Level C Programming	Throughout semester		36 hrs	ATMECE Faculties
5.	Aptitude Training	Throughout semester		16 hrs	ATMECE Faculties
6.	Industrial Automation - level-2	08-01-2024	20-01-2024	50 hrs	Letspro (Dreams Buzz Solutions)
	Embedded Systems- level-2	08-01-2024	20-01-2024	50 hrs	Letspro (Dreams Buzz Solutions)
	Java Fundamentals	15-11-2023	02-03-2024	48 hrs	Genisis
	Python Fundamentals	15-11-2023	02-03-2024	48 hrs	Genisis
	Introduction to Cybersecurity	15-11-2023	02-03-2024	48 hrs	Genisis
7.	VLSI	15-11-2023	02-03-2024	48 hrs	Vivarthan Technologies
8.	3ds Max	26-08-2023	10-02-2024	40 hrs	Inner Voice & Cadd Academy
9.	Advanced Simulation process & Solutions	21-02-2024	22-03-2024	50 hrs	GTTC

RECENT PLACEMENT DRIVES CONDUCTED.

SL. No.	Date	Company Name
1.	13-03-2024	DTRI
2.	28-02-2024	KGiSL Microcollege
3.	15-02-2024	KGiSL Microcollege

TOPPERS LIST

Semester	Name of the Student	USN	SGPA
8 th	Shashanth R	4AD20EC064	9.67
	Faseeha Fathima	4AD20EC020	
	Sumanth M R	4AD20EC068	9.54
6 th	Divya H R	4AD21EC019	9.82
	Ananya S Nayak	4AD21EC005	9.59
	Tanushree T R	4AD21EC088	
4 th	Tejaswini D	4AD22EC114	9.45
	Nisarga S	4AD22EC065	9.15

Program 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 the 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 Specific Outcomes

- **PSO1:** To Comprehend the Fundamental ideas in Electronics and communication Engineering and Apply them to identify, formulate and effectively solve Societal engineering problems using latest tools and techniques.
- **PSO2:** To work effectively in a group as an independent visionary, team member and leader having the ability to understand the requirements and develop feasible solutions to emerge as potential entrepreneurs.

Program Educational Objectives

- **PEO1:** To produce graduates to excel in the profession, higher education and pursue research exercises in Electronics and Communication Engineering.
- **PEO2:** 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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