ECE QUEST
(A Bi-annual Technical Magazine)

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PSCMR

College of Engineering and Technology

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About the Department

The Department of **Electronics and Communications Engineering** envisions the E.C.E graduate as a competent and ethical professional in the areas of electronics, communications, and digital signal processing. The Department of Electronics and Communication Engineering is established in **2008.** It offers B.Tech programme with a student intake of **120**. The department is accredited by NBA for three years.

Vision:

To be a leading center for education and research in electronics and communication engineering, making the students adaptable to contemporary technologies with sound knowledge and socio-ethical values in an integrated learning environment.

Mission:

- **M1:** To produce knowledgeable and technologically competent engineers for providing services to the society.

- **M2**: To have a collaboration with leading academic, industrial and research organizations for promoting research activities among faculty and students.

- **M3:** To create a unified learning environment for sustained growth in electronics and communication engineering and related areas.

PSO'S

- **PSO1:** The ECE Graduates will be equipped with knowledge of complete design flow from specification to silicon in areas of both digital and analog VLSI Design and will be able to work in IC design companies.

- **PSO2:** The ECE Graduates will be trained with microprocessor and microcontroller based system design skills and can work as design and verification engineers in the area of embedded systems design.

- **PSO3:** The ECE Graduates will be able to apply engineering knowledge for design and implementation of projects pertaining to signal processing and communications.

- **PSO4:** The ECE Graduates will be incorporated with necessary soft skills, Aptitude and technical skills to work in it and public sector.

PEO'S

- **PEO1: Engineering Foundation**

  To produce graduates with firm foundation in electronics and communication engineering.

- **PEO2: Core Competence**

  To motivate graduates to Analyze, Design, Develop, Optimize and implement electronic systems with competent spirit.

- **PEO3: Breadth Knowledge**

  To enable graduates with sufficient breadth in electronics and its related fields to solve general engineering problems in an eco-friendly environment.

- **PEO4: Soft Skills**

  To make graduates with a professional outlook who can communicate effectively and interact responsibly with colleagues, Clients, Employers and society.

- **PEO5: Knowledge Enhancement**

  To prepare graduates who pursue lifelong learning and professional development including higher education.
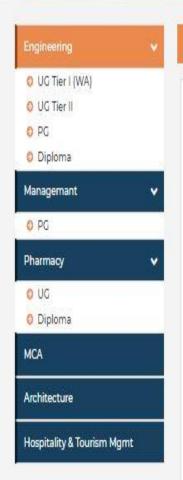
NBA Accreditation

Events Organized

- **Project Expo** was organized by the ECE Department on 14th September 2019 in which the students demonstrated the projects prepared by them showcasing their technical knowledge and thinking capability. There was only one round and the best project was chosen by the judges and the respective prizes were given away. The aim of the expo was solely to enhance the analytical and logical thinking of the students and to implement the same in their projects. Around 70 students of different years have participated in the Expo.

- Celebrated Engineers Day on 15th September 2019 with a guest lecture by Sri Kali Prasad garu with all year students under IETE Student Forum.

- To provide an exhaustive hands on Embedded Systems Design as per the industry needs and provide students with placements, workshop on **Practical Aspects of Embedded Systems and IOT** is organized by the ECE Department to II, III & IV Year students from 3rd to 5th December 2019. The experts are Pavan Attavane, Director, Advitiya R & D Labs, Bangalore and Abhay S Bhardwaj, Senior Embedded Engineer Fasal.co, Bangalore. This workshop provided the participants knowledge and experience on the fast growing field of Embedded Technology.

Faculty Achievements

- Dr. M. RangaRao attended a two day workshop on Space crafting on 12th &13th October 2019 at Hyderabad.

- Dr.M.Ranga Rao and B.Mahitha completed NPTEL certification course on Digital Circuits from July to October 2019.

- A V Kiranmai completed NPTEL certification course on Remote Sensing and Digital Image Processing of Satellite Data from July to October 2019.

- V Leelasatyanarayana completed NPTEL certification course on Microelectronics: Devices to Circuits from July to October 2019.

- R Durga Bhavani completed NPTEL certification course on Computer Networks from July to October 2019.

- Dr. A. Ravi, Dr. M. RangaRao, N. Mounika, A.Ramesh attended AICTE sponsored two week FDP on Bio-Medical Signal Processing and Applications organized at Sir CR Reddy College of Engineering, Eluru from 1st -14th November 2019.

- Dr.M.Rangarao guided two batches Utkrisht Sansthan Viswakarma Awards 2019.

- Dr.A Ravi, G Nagendra Babu and V Leela Satyanarayana attended FDP on Wireless Sensor Networks and Internet of Things organized by TEQIP-III JNTUH from 12th to 14th December 2019.

- Dr.A Ravi attended FDP on Deep Learning & Applications organized by Ministry of Electronics & Information Technology, Jaipur from 9th to 13th December, 2019.

- Dr.A Ravi attended FDP on Data Sciences & Analytics organized by St. Martin's Engg. College, Secunderabad from 9th to 21st December, 2019

- G Nagendra Babu and S Pradeep Kumar Google attended Android Faculty Development Program organized by Department of Skill Development, Entrepreneurship & Innovation, Andhra Pradesh State Skill Development Corporation from 23rd to 28th December-2019

Faculty Publications

- R. Durga Bhavani published a paper titled "Microstrip H-Shape Patch Antenna's Analysis and Layout" in IJITEE free Scopus journal with ISSN: 2278-3075,Volume-8 Issue-10, August 2019.

- Dr. A. Ravi, V. Leela Satyanarayana published a paper titled " GREY WOLF OPTIMIZATION WITH WAVELET SCHEME FOR SAR IMAGES DENOISING" in Journal of Mechanics of continua and Mathematical Sciences Journal Volume – 14 No - 5, October 2019 http://doi.org/10.26782/jmcms.2019.10.00040

- G. V. Ramanaiah, D. Srikanth, N. Mounika, Ch. Amala authored text books for Board of Intermediate studies. Dr. J. Lakshmi Narayana acted as Editor.

Project Expo

Engineers Day
Celebrations

Practical Aspects of Embedded Systems and IOT

In media

విద్యార్థులకు ఎంతో ప్రయోజనం

చిట్టినగర్, న్యూస్‌టుడే: విద్యార్థులు ఉపయోగించే చర వాణీలు, ల్యాప్‌టాప్‌లు ఎంబెడెడ్ సిస్టమ్ అప్లికేషన్స్‌లో భాగమని వరంగల్‌కు చెందిన నిట్ ఈసీఈ ప్రొఫెసర్ టి. కిషోర్‌కుమార్ అన్నారు. కొత్త పేటలోని పొట్టి శ్రీరాములు చలవాది మల్లికార్జునరావు ఇంజినీరింగ్ కళాశాలలో 'ఎంబెడెడ్ సిస్టమ్ అండ్ ఇట్స్ అప్లికేషన్' అనే అంశంపై సదస్సు శుక్రవారం నిర్వహించారు. ఈ

 సదస్సులో మాట్లాడుతున్న ఆచార్యులు కిషోర్‌కుమార్

సందర్భంగా ఆయన మాట్లాడుతూ ఎంబెడెడ్ సిస్టమ్ ఎలక్ట్రానిక్స్‌లో ఒక ప్రధానమైన సబ్జెక్టు అని అన్నారు. దానిని ఆధారంగా చేసుకొని కొత్త ప్రాజెక్టులు డిజైన్ చేయవచ్చున్నారు. వాటిని నిజజీవితంలో ఉపయోగపడే విధంగా తీర్చిదిద్దుకోవచ్చున్నారు. ఈసీఈ విద్యార్థులకు ఎంతో ప్రయోజనకరంగా ఉంటుందన్నారు. ఈ కార్యక్రమంలో కళాశాల కార్య దర్శి రావూరి సుబ్బారావు, కళాశాల ప్రిన్సిపల్ కె. నాగే శ్వరరావు, ఈసీఈ విభాగాధిపతి రవి, విద్యార్థులు, తదితరులు పాల్గొన్నారు.