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Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Electronics & Communication Engineering

VIDYUNMAANA

Volume – 4 Issue – 2

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Principal's Desk

I am very happy to know that the Department of Electronics & Communication Engineering is showcasing their activities and achievements through the department newsletter. I wish them all the best in their endeavor.



Dr. G Srinivas Bhat

Editor in Chief

Dr Sunitha H.D.

Professor & HOD, Dept. of ECE

HOD's Desk

I am very pleased to unveil Vol 4, issue 2 of our department news letter "Vidyunmaana" In this issue, we have presented the news related to diverse activities conducted by the department and also contributions and achievements of our faculty members and students.



DR. SUNITHA H.D.

Managing Editors

PROF. PARIMALA GANDHI G.
Associate Professor, Dept. of ECE

Prof. Preamsagar H.
Assistant Professor, Dept. of ECE.

Prof. Mohan Kumar B.N.
Assistant Professor, Dept. of ECE.

Prof. Sugnyani Patil
Assistant Professor, Dept. of ECE.

Student Coordinators:

1. Pooja R(7th sem)
2. Adarsh M P(5th sem)

EDITOR: PROF. ANSHU DEEPAK
Assistant Professor, Dept. of ECE



Vision

Producing innovative, creative and ethical Electronics & Communication Engineers and focus to meet socio-economic needs of world by 2020.

Mission

To Impart quality education in the field of Electronics & Communication Engineering students to meet the global technical and professional standard.



"All power is within you; you can do anything and everything."



1. Orientation program

Orientation Program was organised to the students of the department on 10th February. The program was intended to introduce the academic requirements of the odd semester, along with highlighting the significance of the subjects and opportunities in the career. Prof. Niranjana L, placement coordinator of the department shared the placement activities to be held and also briefed about placement training classes to be held during the semester.

2. Three days Workshop on “Designing Embedded System with Internet of Things (IOT) using Raspberry Pi”

Three days hands-on workshop on “ **Designing Embedded System with Internet of Things (IOT) using Raspberry Pi**” was conducted from 02nd March 2020 to 04th March 2020 in association with Chira Information Technologies, Bangalore. The main objective of the workshop was to introduce students to the concepts of IOT, Programming using Python and implementation using RaspberryPi. 45 students and faculty participated in the workshop.

3. Two days online certified Faculty development program on “MATLAB for Signal processing Applications”

Two days online certified faculty development program on “**MATLAB for Signal processing Applications**” was conducted on 15th May 2020 to 16th May 2020. Resource person was Dr Kiranmayi G.R. Associate Professor from Siddaganga Institute of Technology (SIT) Tumkur .The main objective was to impart simulation knowledge for Signal processing applications . Signal processing is essential for wide range of applications , from data science to real embedded systems. Matlab is an interactive technical computing tools environment for scientific and engineering applications. 40 faculty from various institutions participated in the program.

4. Technical talk on “5 G Technology in the field of Robotics”

Department of ECE conducted one day technical talk on “**5 G Technology in the field of Robotics**” on 11th July 2020. Resource persons were Mrs.Tanuja, senior engineer at ASTRI, Hong Kong and Mr. Mallikarjun, Computer vision software Engineer, ZMP inc, Tokyo. The talk was divided into two sessions. Morning session objectives were to provide an overview of 5G landscape ,IOT and AI revolution ,Influence of 5G on AI and Robotics . Afternoon session was to provide Introduction of Robotics, Impact of 5G to control Robots. Number of students participated were 48.

5. One day Awareness program on “First aid in case of accidents”

Department of ECE conducted a one day awareness program on “**First aid in case of accidents**” on 14th July 2020. The program was to impart knowledge and understanding of First Aid and its Application in case of Emergency. The speaker was **Prof. Manjunath G.S. Associate professor from Manjunatha College of nursing, Bangalore**. He made us aware to assess a situation quickly, calmly and identify the solution . To provide the necessary treatment, to know our own abilities and limitations, to promote recovery. Number of students participated were 47.

6. Industrial Expert talk on “Software Defined Wide Area Network (SD-WAN)”

This Industrial talk on “**Software Defined Wide Area Network (SD-WAN)**”was organized on 25th July 2020. Resource person was **Mr. Murali** ,network manager of Hexaware and Murugappa Groups TCS,

Chennai. SD-WAN is a Virtual WAN Architecture that allows enterprises to leverage any combination of transport services – including MPLS, LTE and broadband internet services – to securely connect user applications. The participants were able to understand the industrial application of SD-WAN in traffic Control, security issue and implementation in Cloud Based applications. There were 190 participants in the program

7. Two weeks Certificate program on “Soft Skills and Personality Development”

Two Weeks Certificate program on “**Soft Skills and Personality Development** was organized from 22nd June 2020 to 3rd July 2020. Resource persons were Dr Sunitha H.D. Professor and Head of ECE, Prof. Parimala Gandhi Associate professor ECE and IQAC coordinator, Prof. Anshu Deepak, Assistant Professor ECE, Prof Niranjan L, Assistant Professor, ECE, Prof. Premsagar H, Assistant Professor ECE. It was a situational awareness program to enhance an individual’s personality. The main aim of this program was to highlight and develop strong effective communication and presentation skills, internal Personality Development and leadership Quality. 190 Students from various institutions across the state were benefitted by this program.

8. One day seminar on “Career opportunities in VLSI & AI”

One day seminar on “**Career opportunities in VLSI & AI**” was organized on 20th in association with **INOHIMIC TECHNOLOGIES Synergies**, Bengaluru. Resource persons were Mr **G.S. Krishna**, a semiconductor industry professional, and **Sri Ganesh**, Data scientist, machine learning expert. The main objective of this program was to brief the impact of AI and expert systems on VLSI, specially applying machine learning in VLSI Chip Design. 50 students were benefitted by this program.

9 Online quiz competition on COVID -19

Online quiz competition was organised on **COVID -19**. It was an awareness program on Novel Corona virus to create awareness and prevention of Covid -19. It was held on 11th June 2020. 74 students participated.

Application for Patent at Indian patent Office

A patent titled “A novel approach for Wireless sensor network and delay tolerant network deployment” was filed at Indian patent office by **Dr. Sunitha H.D**, Professor & HOD of Department of ECE, R.R. Institute of Technology, on 13th March 2020. The patent is published by IPO journal.

Paper Presentation and Publications

1. **Prof. Premsagar H.** published a paper titled “Smart Courier Kit using Internet of Things” in International Journal of Advanced Research in Science & Technology (IJARST,) Volume 7, Issue 1, July 2020
2. **Prof. Premsagar H.** Published a paper titled “Automatic Traffic Density Control with Emergency Services and Lane Device” in IJARST , Volume 7, Issue 3, July 2020
3. **Prof. Anshu Deepak, and by Prof Sugnyani Patel** Published a paper titled “Industrial Production Line Safety and Management System Using Sensory Unit and Image Detection “International Journal of Engineering Research in Electronics and Communication Engineering (IJERECE) Vol 7, Issue 7, July 2020.
4. **Prof. Niranjan L.** Published a Paper titled “Design and Development of Free Space Optical Communication System for Transmitting Data & Voice” in International Journal of Research in Application Science and Engineering Technology, ISSN: 2321-9653, Volume 8 Issue VII July 2020.
5. **Prof. G Parimala Gandhi G. and Prof. Mohan kumar** Published a Paper titled “Novel Approach to smart power generation in Vehicle” in ICSMEC-2020 ISBN-978-93-80831-43-5 29 JULY 2020.

Department Topper:



Mr. Bhanuprakash
1R116EC004
83.57%

Semester Toppers

	1 st Semester	3 rd Semester	5 th semester 17 batch	5 th Semester15 batch	7 th Semester
1 st topper	 Mr. Mannuru Narshimha 1R119EC008 76.5%	 Ms Tejaswini 1R118EC016 77.41%	 Mr. Adarsh M.P. 1R117EC001 77.5 %	 Ms.Sushma V 1R116EC028 74.25 %	 Ms. Yashaswini D. 1R116EC032 78.12%
2 nd Topper	 Mr. Sai Kiran G 1R119EC014 76%	 Mr.Veereshhiremath 1R118EC017 69.9 %	 Ms pallavi 1R117EC015 75.9 %	 Mr.Nandeesh Reddy 1R116EC018 67.13 %	 Ms.Pooja R. 1R116EC020 77.0 %
3 rd Topper	 Mr. Deepenjannath 1R119EC003 75 %	 Mr. Shivakumar D.N. 1R118EC015 66.7 %	 Ms.Vaani K. 1R117EC025 75.3%		 Ms Supriha B. 1R116EC027 74.25%

Photo Gallery:

