DEPARTMENT OF ELECTRONICS AND COMMUNICATION

Vision

- Producing competent engineers with innovative ideas to meet the global needs and standards.

Mission

- **M1**. To produce graduates with technical expertise, professional attitude & ethical values.
- **M2**. To reform the potency of Engineering through exploration-based learning.
- **M3.** To create a passion amongst students for contributing to research by providing industry- oriented training
- **M4**. To inculcate in the graduates, the thirst for self-learning & guide them to obtain knowledge in their chosen field

About the Department

Dr. A.Poonguzhali

Associate Professor & Head of the Dept

Department of Electronics and Communication Engineering was established in the institution during 1997.The department is AICTE approved and permanently affiliated to VTU and accredited by NAAC. The Department Offers UG courses. Further, it is recognized as "Research Centre" by VTU. The department is strengthened with qualified Doctorates, Professors, Assoc. Professors, Asst. Professors and technical staffs. Apart from the academic events department also oversees the overall development activities. The students are being provided with training / certification programs, industrial visits, periodic technical talks, workshops, conferences, empowering employability skills.

Department Activities

Funds

Sl no	Project Title	Funding Agency	Amount	Principal Investigator	Co Principal investigator
1	Automated Sericulture System	KSCST	Rs.4000	Mr.Venugopal P	1 years
2	Computer Aided Project	KSCST	Rs.5000	Mrs.HemaShubraja	1 years

Workshop / Seminar / Conference/ Technical Talks

1. To create awareness about the recent technologies with their business impacts in the modern world, the Higher education Cell of the institution organized this program on 3rd May 2023 for 3rd year and final year students .

2. Dept. of Electronics & Communication Engineering, Sri Sairam College of Engineering, Anekal Bengaluru organized an online Webinar on **"Angel Investment / VC Funding Opportunity for Early Stage Entrepreneurs** on 09the June 2023 for first year and third year students.

3.We Dept. of Electronics & Communication Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru organized a Workshop on "Soft skill Program"on 14th June 2023 for third year students by Mrs.Chitra Srinivasan.

4.We Dept. of Electronics & Communication Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru organized a Webinar on "Embedded Systems "on 26th June 2023 for second year students.

Industrial Visits:

1. The Department of Electronics and Communication Engineering had organized an Industrial visit to M-plastics and Toys Engineering Limited for a Group of 60 students (1st Year) to impart knowledge on how toys are manufactured in large scale on 19th January 2023.

3. The Department of Electronics and Communication Engineering had organized an Industrial visit to U R Rao Satellite Centre (URSC) Bengaluru for a Group of 66 students (Final Year) accompanied by two faculties Mr. Santhosh and Mrs. S. Geetha to impart knowledge on how various types of satellites to meet the national requirements in the areas like communication, navigation, remote sensing, meteorology and inter-planetary exploration 8th February 2023.

2. Department of Electronics & Communication Engineering arranged Industrial visit for 3rd year students to IMTEX 2023 held at International Exhibition Centre, Tumkur Highway, Bengaluru. 35 students and Accompanying Faculty Mr. P.Venugopal registered for IMTEX 2023 on 21st Jan 2023.

2. The Department of Electronics and Communication Engineering had organized an Industrial visit to HAL Heritage Centre and Aerospace Museum Bengaluru for a Group of 108 students (Second Year) Accompanying Faculty Dr. S. Jayakumar, D. S. Ramkumar, Mrs. Hema and Mrs.Mohanthi to impart knowledge on various types of Aircraft on – 14th February 2023.

Paper Publications.

1. Dr.A.Poonguzhali has published a paper titled "Map Building of Indoor Environment with Sensors using Neural Network" in 2023 Winter Summit on Smart Computing and Networks (WiSSCoN)" in 2023 , V-23

2023,ISSN: 1013-3850.

2. Mrs.Linija.K.P,Mrs.Geetha S have published a paper titled "Medical Insurance Premium Prediction Using Linear Support Vector Machine"in IEEE Winter Summit on Smart Computing and Networks ,V-23 2023, ISSN(0)-1013-3866.

3. Dr.JayakumarS," Encapsulated 3∅ converter for power loss minimization in a grid-connected system, Automatikathis link is disabled, 2023, 64(1), pp. 189–197. (SCI & Scopus).

4. Dr.A.Poonguzhali has published a paper titled "Detection of Stress using Wearable Biosensor" in IJARIEE" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

5. Dr.T.N.Prabakar has published a paper titled "Range Extension of Drones Using 5G Communication" in IJARIEE" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

6. Dr. S Jayakumar has published a paper titled "Performance analysis of a seven-level multilevel inverter in grid connected systems" in IJEEE" Jun 2023, VOL-10/,SSUE-6,ISSN: 2348-8379..

7. Dr. S Jayakumar has published a paper titled "Accident Detection and Alert System Using IoT" in IJARIEE" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

8. P.Venugopal has published a paper titled "Automated Sericulture System" in IJARIEE" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

9. G.V.Raja has published a paper titled "Implementation and Design of Agriculture Robot Using IoT" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

10. Savitha H S has published a paper titled "Sensor Network Based Smart Helmet for Bike Riders for Accident Prevention" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

11. Halesha HR has published a paper titled "Smart Remainder SoS And Emergency Detection Device" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

12. N Santhosh Kumar has published a paper titled "Under Ground Fault Monitoring system Using Cloud Computing and IoT" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

13. Hema Shubraja has published a paper titled "Computer Aided Medical Bed" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

14. S.Geetha has published a paper titled "IoT Baby Monitoring System Using Node MCU" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

15. Mohanthi K has published a paper titled "Brain Tumor Detection using Deep Learning and Image Processing" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

16. Deepika P has published a paper titled "Microcontroller Based Aeronautical Crash Prevention System through RF Communication" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

17. Martin Joel Rathnam has published a paper titled "Virtual Mouse – Hand Gesture Recognition System" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

18. Manjunatha has published a paper titled "IOT Assisted ECG Monitoring Framework with Secure Data Transmission Application" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

19. A.Arivarasi has published a paper titled "Face Recognition Using Raspberry PI for Mentally Retarded Person" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

20. Radhika has published a paper titled "IoT Based Complete Green House Monitoring And Controlling System" Jun 2023, VOL-10/,SSUE-6,ISSN: 2349-2163.

FDP's attended

Sl No	Name	FDP TITLE	Date	No Of Days	Name of Institution
1	Dr.Prabakar. T. N	Effective Implementation Of NEP Multidisciplinary Education And Strategies	10.11.2022 to 12.11.2022	3	Sri Sairam college of engineering
2	Dr. Raja C	Accreditation and outcome based pedagogic principles for effectiveTeaching	14.11.2022 to 19.11.2022	6	Academy of maritime education and training deemed to be university
3	Dr.Ramkumar S	Accreditation and outcome basedpedagogic principles for effective Teaching	14.11.2022 to 19.11.2022	6	Academy of maritime education and training deemed to be university
4	Dr.B.Srilatha	Electronics Circuits design using Lab view	12.06.2023 to 16.06.2023	5	Visvesvaraya Technological university
5	Dr. A Poonguzhali	Emerging Technologies for Next Generation Networks	17.07.2023 to 22.07.2023	6	Kings Engineering College, Chennai
6	Dr.Jayakumar	Introduction to python Programming & its applications	19.06.2023 to 23.06.2023	5	Visvesvaraya Technological university
7	Dr.Narmadha P	Emerging Technologies for Next Generation Networks	17.07.2023 to 22.07.2023	6	Kings Engineering College, Chennai
8	Dr.Anitha V	Emerging Technologies for Next Generation Networks	17.07.2023 to 22.07.2023	6	Kings Engineering College, Chennai
9	Mr.NagarajReddy B	Introduction to python Programming & its applications	19.09.2023 to 23.09.2023	5	Visvesvaraya Technological university
10	Mr.Venugopal P	Accreditation Process-NBA with a focus on active learning	17.10.2022 to 21.10.2022	5	RV college of Engineering,Bangalore
11	Mr. G. V Raja	Taking Research to next level	26.9.2022 to 30.9.2022	5	Sri Venkateshwara college of Engineering Bangalore
12	Ms.Savitha H S	Electronics Circuits design using Lab view	12.06.2023 to 16.06.2023	5	Visvesvaraya Technological university
13	Mr.Halesha H R	Electronics Circuits design using Lab view	12.06.2023 to 16.06.2023	5	Visvesvaraya Technological university
14	Mr.SantoshkumarN	Simulation of electronic circuits using multisim & labview Programming and design & analysis using VLSI cadence tool	26.09.2022 to 30.09.2022	5	K.S Institute of Technology
15	Ms.Linija K P	Emerging Technologies for Next Generation Networks	17.07.2023 to 22.07.2023	6	Kings Engineering College, Chennai
16	Ms.Geetha S	Introduction to python Programming & its applications	19.09.2023 to 23.09.2023	5	Visvesvaraya Technological university
17	Ms.HemaSubhraja	Introduction to python Programming & its applications	19.09.2023 to 23.06.2023	5	Visvesvaraya Technological university
18	Ms.Mohanthi Kakarla	Biomedical Nanotechnology	Aug-sep 2022	4 weeks	NPTEL AICTE

19	Ms.Geetha R	Introduction to python Programming & its applications	19.09.2023 to 23.09.2023	5	Visvesvaraya Technological university
20	Ms.Dhanya G S	Introduction to python Programming & its applications	19.09.2023 to 23.09.2023	5	Visvesvaraya Technological university
21	Mr.Shanthamoorthy	Introduction to python Programming & its applications	19.09.2023 to 23.09.2023	5	Visvesvaraya Technological university
22	Ms.Deepa R	Introduction to python Programming & its applications	19.09.2023 to 23.09.2023	5	Visvesvaraya Technological university
23	Ms.Punitha. E	Emerging Technologies for Next Generation Networks	17.07.2023 to 22.07.2023	6	Kings Engineering College, Chennai
24	Mr.Manjunatha M	Introduction to python Programming & its applications	19.06.2023 to 23.06.2023	5	Visvesvaraya Technological university
25	Mr. Martin Rathnam Joel	Emerging Technologies for Next Generation Networks	17.07.2023 to 22.07.2023	6	Kings Engineering College, Chennai
26	Ms.Deepika P	Electronics Circuits design using Lab view	12.06.2023 to 16.06.2023	5	Visvesvaraya Technological university
27	Ms.Arivarasi A	Electronics Circuits design using Lab view	12.06.2023 to 16.06.2023	5	Visvesvaraya Technological university
28	Ms.Radhika	Introduction to python Programming & its applications	19.06.2023 to 23.06.2023	5	Visvesvaraya Technological university
29	Ms.Suganthi M	Introduction to python Programming & its applications	19.06.2023 to 23.06.2023	5	Visvesvaraya Technological university

Patent Filed

Sl No	Patent No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/MM/YYYY)
1	425645	Published	1.Dr.T.N.Prabakar 2.Lakshminarayanan	Design of Globus Asynchronous controller	1.Dr.T.N.Prabakar 2.Lakshminarayanan	12-2013	17-3-23

MOU initiatives

Organisation with which MoU is signed	Year of signing MoU	Duration	List the actual activities under each MOU year wise
Infosys Spring Board	2023	5	1.Infosys springboard scope and details of the services. 2.Faculty Enablement Program. 3.Privacy and Data protection.

Student Topper List

Student Name	USN	Year
DEEPA.S	1SB22EC32	I
MEGA .S	1SB21EC052	II
KARTHIKESWAR.P	1SB21EC400	III
PRAMOD.S	1SB19EC036	IV
SAI SATHVIKA.V	1SB19EC046	

Students Papers presentation

Name of the Student	Venue	Date
Kushil Kumar S Prajwal S	AWS Summit (Amazon)	25/5/2023

Placement

The Following list of companies recruited the students of ECE during the academic year 2023.

Name of the company	No.of students selected
MINDTREE	7
TCS(P)	4
NAAVINYA	5
FOXCONN	9
VEE TECHNOLOGY,	5
RINEX	4
ETHNUS	14
BYJU'S	2
QSPIDER	6
PENTAGON SPACE	1
1CUBES	1
ACADEMOR	8
NAAVINYA CAD SOFT P LTD	5