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DEPARTMENT OF ELECTRONICS AND COMMUNICATION

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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

Workshop / Seminar / Conference/ Technical Talks

1. Department of Electronics & Communication Engineering has organized an event on “Concept of Wireless networks & webinar” for first and second year students of ECE department on 13/07/2022 by Dr. M. Revathy, associate professor PSNA college of engineering and technology, Dindigul, Tamilnadu.



2.TWO DAYS workshop on Embedded Systems and IOT design on 19th and 20th August 2022.



3. Department of Electronics & Communication Engineering in association Institution's Innovation Council with has organized a Session on "Innovation/Protype validation- Converting Innovation to Start-up" for first year students of ECE department on 23/08/2022 at 2pm by Mr. Harish Babu L, Innovation Ambassador.



4.IQAC-Sri Sairam College of Engineering, & Department of Electronics and Communication Engineering organized a workshop on "Machine Learning using Python" online on 28.11.2022.



Paper Publications.

1. Dr.Poonguzahalli has published a paper titled "Social impact on online classes during lockdown (SCOPUS)" in IJARIEE,V-8, ISSN(0)- 2395-4396 in August 2022 .
2. Dr.S Ramkumar has published a paper titled "Ensemble Deep Learning Optimization And Medical Image Classification With Convolutional Neural Networks" in "Neuro Quantology" in August 2022 ,ISSN:1217-1238(Anna University Annexure I, Scopus indexed).
3. Dr.S Ramkumar has published a paper titled "Programmed for Automatic Bone Disorder Clustering Based On Cumulative Calcium Prediction for Feature Extraction" in "Clinical Laboratory- ISSN 1433-6510" in August 2022 (Anna University Annexure I, SCI indexed and Scopus indexed).
4. Dr.S Ramkumar has published a paper titled "Investigative and Analysis Guidance In Walking Pattern For Orthopedic Subjects" journal title "IEEEXPLORE" (ICIRCA2022) in September 2022 (Scopus indexed).
5. Dr.S Ramkumar and Mohanthi K have published a paper titled " Routine Irrigation System Controlled and Monitored by IOT Using Sensors" journal title "IEEEXPLORE" (ICPECTS 2022) in September 2022 (Scopus indexed).
6. Dr.S Ramkumar has published a paper titled "Fabrication and characterization of nano-particle biomaterial scaffold for treating burn wounds" in "Journal of Materials Research- ISSN 0884-2914" in October 2022 (Anna University Annexure I, SCI indexed and Scopus indexed).
7. Dr.S Ramkumar, Mohanthi K, T.N. Prabakar, Venugopal P and G.V. Raja have published a paper titled "Intellectual transport system for human safety using machine learning approach" in "Measurement: sensors; E-ISSN: 2665-9174" in November 2022. (Scopus indexed).
8. Dr.S. Jayakumar has published a paper titled " Investigation analysis of open circuit and short circuit fault on cascaded H-bridged multilevel inverter using artificial neural network approach" journal title "International Journal of Electrical and Electronics Research " in V-10 2022 (Scopus indexed), pp: 320-326.

FDP's attended

| SI No | FACULTY NAME | FDP TITLE | DATE | DURATION | ORGANISED BY |
|-------|---------------------|---|------------|----------|--|
| 1 | Dr.Ramkumar S | Accreditation and outcome based pedagogic principles for effective Teaching | 14.11.2022 | 6 | Academy of maritime education and training deemed to be university |
| 2 | Ms.Punitha. E | Effective Implementation Of NEP Multidisciplinary Education And Strategies | 10.11.2022 | 3 | Sri Sairam college of engineering |
| 3 | Mr.Santhosh Kumar.N | Technical Terminology Of Engineering In Kannada Language With Reference To NEP - 2020 | 27/07/2022 | 2 | Alliance University , Bangaluru |
| 4 | Mr.Halesha.H.R | Technical Terminology Of Engineering In Kannada Language With Reference To NEP - 2020 | 27/07/2022 | 2 | Alliance University , Bangaluru |
| 5 | Mrs.Vinutha.G | Technical Terminology Of Engineering In Kannada Language With Reference To NEP - 2020 | 27/07/2022 | 2 | Alliance University , Bangaluru |

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|----|---------------------|--|------------------|--------|--|
| 6 | Mrs.Mohanthi K | Biomedical Nanotechnology | Aug to Sept 2022 | 4Weeks | NPTEL-AICTE |
| 7 | Mr.Santhosh Kumar.N | Bharat 75 Unnat Shikshan Unnat Bharat | 07/09/2022 | 2 | byJnanan Jyoti Sabhangana , Bengaluru |
| 8 | Dr.A.Poonguzhali | Presentation Skills In A Class Room | 19/09/2022 | 3 | Atria Institute of Technology ,Bengaluru |
| 9 | Mr.P.Venugopal | Presentation Skills In A Class Room | 19/09/2022 | 3 | Atria Institute of Technology ,Bengaluru |
| 10 | Mr.Raja.G.V | Taking Research to Next Level | 26/09/2022 | 5 | Sri Venkateshwara College of Engineering, Bengaluru |
| 11 | Dr.A.Poonguzhali | Analog and Digital IC Design Semiconductor Industry Approach | 26/09/2022 | 5 | Atria Institute of Technology ,Bengaluru |
| 12 | Mr.Santhosh Kumar.N | Simulation Of Electronics Circuits Using Multisim and Labview Programming and Design and Analysis | 26/09/2022 | 4 | byJnanan Jyoti Sabhangana , Bengaluru |
| 13 | Mrs.Geetha.S | Taking Research to Next Level | 26/09/2022 | 5 | Sri Venkateshwara College Of Engineering , Bengaluru |
| 14 | Mrs.Mohanthi K | Application Of AI and Machine Learning Techniques For The Solution Of Large Scale Renewable Energy | 26/09/2022 | 5 | University College Of Engineering , Kakinada JNTU |
| 15 | Mr.Raja.G.V | Accreditation Process NBA With a Focus On Active Learning | 17/10/2022 | 3 | RV College of Engineering , Bengaluru |
| 16 | Mr.P.Venugopal | Accreditation Process NBA With a Focus On Active Learning | 17/10/2022 | 3 | RV College of Engineering , Bengaluru |
| 17 | Dr.A.Poonguzhali | Effective Implementation Of NEP Multidisciplinary Education And Strategiesh | 10/11/2022 | 3 | Atria Institute of Technology ,Bengaluru |
| 18 | Dr.Prabhakar.T.N | Effective Implementation Of NEP Multidisciplinary Education And Strategiesh | 10/11/2022 | 3 | Atria Institute of Technology ,Bengaluru |
| 19 | Mr.Raja.G.V | Effective Implementation Of NEP Multidisciplinary Education And Strategiesh | 10/11/2022 | 3 | Atria Institute of Technology ,Bengaluru |

MOU initiatives

| Organisation with which MoU is signed | Year of signing MoU | Duration | List the actual activities Under each MOU year wise |
|---------------------------------------|---------------------|----------|---|
| Hosur Industries Association | 2022 | 3 | Industry visits ,Projects, Consultancy, Placement |

Students Papers presentation

| Name of the Student | Venue | Date |
|---------------------|---------|------------|
| P. G. Yashwanth | PMCTech | 19/11/2022 |
| Venkata Krishnan | PMCTech | 19/11/2022 |
| V Asmitha | PMCTech | 19/11/2022 |
| Jeevitha M | PMCTech | 19/11/2022 |
| KH PreethiVenkat | PMCTech | 19/11/2022 |