



# ERODE SENGNATHAR ENGINEERING COLLEGE



(An Autonomous Institution)

(Approved by AICTE, New Delhi, Permanently Affiliated to Anna University, Chennai & Accredited by National Board of Accreditation (NBA), New Delhi, NAAC, Bangalore & IE(I), Kolkata)

PERUNDURAI, ERODE – 638 057



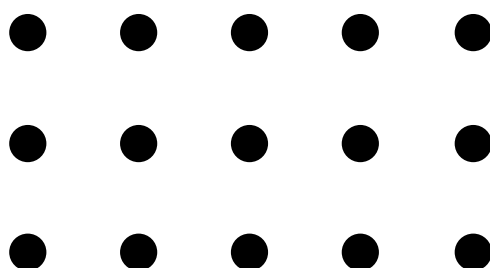
## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



**JULY-DEC  
2022 2022**

## NEWS LETTER

**VOLUME - 1**



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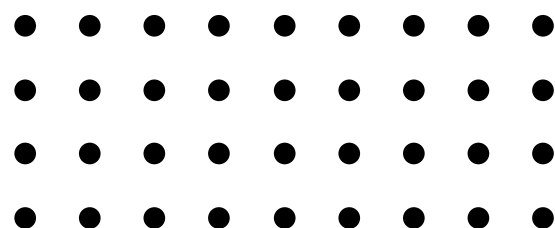
**17 Student Achievements**

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# DEPARTMENT ENTERPRISE

The Electrical & Electronics Engineering Department is one of the oldest department of the Institute which was established in the year 1996. Presently, the department offers both Undergraduate and Postgraduate program with the specialization in Power Electronics and Drives. The Department has well equipped laboratories such as Electrical Machines laboratory, Power Systems Simulation Laboratory, Control Systems laboratory, Electrical Measurements laboratory, Power Electronics & Drives Laboratory and Electrical workshop Laboratory. The faculty members have been active in teaching and research activities and regularly producing research publications in international and national journals and conferences, Students passed out from this department get excellent placements through campus selection both in the core area industries and software companies of national and international level. Alumni of Electrical & Electronics Engineering Department are very well placed in all sectors and have reached to the top level positions in the state/central government and private organizations. The UG program is permanently affiliated to Anna University, Chennai and accredited by NBA. The department is recognized as an Anna University approved research center.





# ERODE SENGUNTHAR ENGINEERING COLLEGE

## >>> VISION

- To provide competent and ethical electrical engineers finding solution to problem related to society, environment and industry using innovative technologies.

## >>> PROGRAM EDUCATIONAL OBJECTIVE(PEOS)

- **CORE COMPETENCE:** To impart fundamental electrical and electronics engineering knowledge through collaborative and case study methods of teaching learning process
- **BREADTH:** To produce quality electrical and electronics engineering graduates with in-depth technical knowledge including current issues and challenges in this field
- **LEARNING ENVIRONMENT:** To develop and enhance research based facilities so as to address the industrial issues and challenges
- **PROFESSIONALISM:** To imbibe effective communication, interpersonal and other managerial skills for the holistic development of EEE students

## MISSION <<<

- To make a positive difference among electrical and electronics engineering students through innovative teaching learning methods
- To provide electrical and electronics engineering knowledge base at large for the upliftment of different background people
- To instill research oriented mindset and to develop well furnished electrical and electronics engineering research labs
- To inculcate the moral and ethical values among students in order to make them competent and quality electrical and electronics engineers

## >>> PROGRAM SPECIFIC OUTCOMES (PSOS)

- **Real World Knowledge** -Apply the knowledge in solving the real time problems and solutions to issues and challenges in Electrical and Electronics Engineering technologies.
- **Interdisciplinary Skill** -Design and develop interdisciplinary and innovative system.
- **Personality Development** -Imparting effective communication, team work and leadership skills for a successful career in industry and R&D.



# PROGRAM OUTCOMES (POS)

- **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **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.
- **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.
- **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.
- **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.

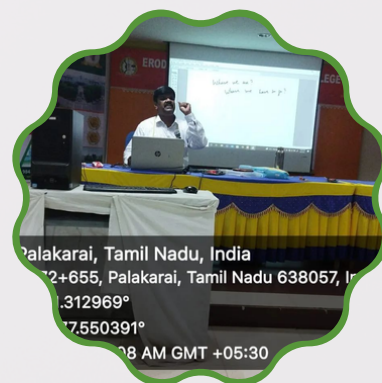
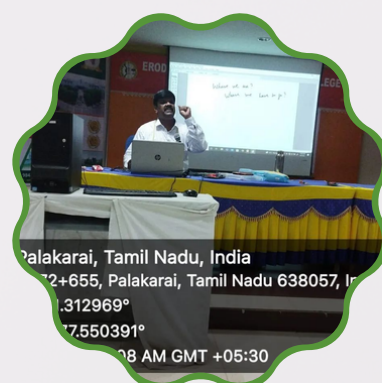
# PROGRAM OUTCOMES (POS)

- **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.
- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **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.
- **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.
- **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



# DEPARTMENT VENTURES

- The Department of Electrical and Electronics Engineering arranged Inauguration and Guest Lecture on “Current and Future Scenario of the Industrial Sector” on 17.8.2022. Mr.P.Rajenthiran, CEO, SIEMENS GAMESA Renewable Power Pvt Ltd has delivered the lecture. More than 150 students were participated in this function.
- The Department of Electrical and Electronics Engineering arranged Hands on Training on “Industrial Robotics Embedded C Programming” on 09.09.2022, Mr. N.Subharathna, Technical Engineer & Trainer, Innovaskill Technologies-Bengaluru, Karnataka has delivered the lecture. More than 150 students were participated in this function.
- The Department of Electrical and Electronics Engineering arranged Hands On Training on “ Design thinking& Entrepreneurship” by on 09.09.2022. Mr.S.Sundaramoorthy, CEO of SUNSHIV Electronics Solutions has delivered the lecture. More than 150 students were participated in this function.
- The Department of Electrical and Electronics Engineering arranged Hands On Training on “ Design thinking& Entrepreneurship” by on 09.09.2022. Mr.S.Sundaramoorthy, CEO of SUNSHIV Electronics Solutions has delivered the lecture. More than 150 students were participated in this function.



# DEPARTMENT VENTURES

- The Department of Electrical and Electronics Engineering arranged Exhibition on “design thinking” on 15.09.2022, Dr.V.Venkatachalam, Principal of Erode Sengunthar Engineering College
- The Department of Electrical and Electronics Engineering arranged Hands On Training on Design thinking & Entrepreneurship on 12.10.2022 to 13.10.2022. Mr.R.Praveen, Embedded Engineering Solutions has delivered the lecture. More than 150 students were participated in this function.
- The Department of Electrical and Electronics Engineering arranged national Level students Technical Symposium on the topic of Design thinking by Mr.KS.Kavin, Manager of AB Technologies, Chennai on 20.10.2022 to 21.10.2022.
- The Department of Electrical and Electronics Engineering arranged Guest Lecture on “Overview on National Education policy” on 11.11.2022. Dr.S.Christian Johnson, Director Academics of Erode Sengunthar Engineering College has delivered the lecture. More than 150 students were participated in this function.







## RESEARCH OUTCOMES

- Dr. P. Selvan presented a paper on “Microcontroller Based Vehicle Accident Detection and Rescue System” 1st International Conference on Innovative Trends in Engineering and Sciences - ICITES-2022 & Bannari Amman Institute of Technology, Sathy on 07.11.2022 and 08.11.2022.
- Dr. P. Selvan presented a paper on “Low cost Automated A robot for plant disease Analysis and control using Heuristic model” at National level conference on Innovative Engineering technologies NCIET 2022 & Karpagam Academy of higher education, Coimbatore on 19.12.2022.
- Dr. R.Muthukumar presented a paper on “National Conference on Innovative Engineering Technologies” at Karpagam Academy of Higher Education Coimbatore on 19.12.2022.
- Dr. G.S.Satheeshkumar presented a paper on “Microcontroller based vehicle accident detection and rescue system” International conference on Innovative Trends in Engineering and Sciences & Bannari Amman Institute of Technology, Sathy on 07.11.2022 and 08.11.2022.
- Mr.E.Immanuvelbright presented a paper on “Automated solar Energy Multi-function farm Robot” International conference on Innovative Trends in Engineering and Sciences & Bannari Amman Institute of Technology, Sathy on 07.11.2022 and 08.11.2022

# >>> KNOWLEDGE DISSEMINATION

## FACULTY DEVELOPMENT PROGRAMME ATTENDED BY THE FACULTY MEMBERS

- Dr. P.Selvan attended FDP on “Emerging Technologies in Renewable Energy in Sustainable Development” at RVS College of Engineering and Technology, Coimbatore.
- Dr. R.Muthukumar attended FDP on “Cloud Computing” at NPTEL on JULY 22 to OCT 22.
- Dr.R.Kannan attended on AICTE Recognized FDP on “Power Quality Problems and Solutions” at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh on 30.01.2023 to 03.02.2023.
- Dr.R.Kannan attended on AICTE Recognized FDP on “MATLAB – Artificial Intelligence and Optimisation Techniques” at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh on 21.11.2022 to 25.11.2022.
- Dr.R.Kannan attended on National Online FDP on “Discovering Electric Vehicle through ANSYS Simulation” at PSG College of Technology, Coimbatore on 19.09.2022 to 23.09.2022.
- Mr.S.P.Dwarakesh attended STTP on “Electric Power System” at Coursera on 07-09-2022 to 07-10-2022.
- Ms.S.Tamilselvi attended FDP on “Deployment of Artificial Intelligence and Data Science in Deploying Electrical Engineering Application” at NIT, Warangal on 04.08.2022 to 17.08.2022.





# KNOWLEDGE DISSEMINATION

- Dr.L.Anbarasu attended FDP on “Research Methodologies and Teaching” at ShriKrishnasamy College for Women, Chennai on 10.10.2022 to 15.10.2022.
- Dr.L.Anbarasu attended FDP on “Advances in Electrical and Electronics Engineering” at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh on 14.11.2022 to 18.11.2022.
- Dr.L.Anbarasu attended FDP on “Power Electronics for Renewable Energy Applications” at National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh on 31.10.2022 to 04.11.2022.
- Dr.A.JohnyRenoald attended FDP on “STTP-Introduction to Architecting” at Coursera on 09-09-2022 to 09-10-2022.
- Mr.E.Immanuvelbright attended STTP on “Electric Power System” at Coursera on 07-09-2022 to 07-10-2022.
- Mr.E.Immanuvelbright attended FDP on “Professional Communication & Soft Skills” at Electronics and ICT Academy at PDPM IITDM Jabalpur on 23.08.2022 to 03.09.2022



# KNOWLEDGE DISSEMINATION

- Mr.E.Immanuvel bright attended on FDP “Recent trends in MEMS and Nano Electronic Devices” at VIT, Chennai on 03.08.2022 to 05.08.2022.
- Mr.E.Immanuvel bright attended FDP on “Tools for Engineering Research” at K.Ramakrishnan College of Engineering, Trichy on 19.09.2022 to 29.09.2022.
- Ms.S.Tamilselvi attended STTP on “introduction to architecting” at Coursera on 09-09-2022 to 09-10-2022.
- Mr.S.Vijayanand attended STTP on “Architecting Smart IoT Devices” at Coursera on 08-09-2022 to 08-10-2022.
- Ms.N.Jothipriya attended FDP on “Professional Communication & Soft Skills” at Electronics and ICT Academy at PDPM IITDM Jabalpur on 23.08.2022 to 03.09.2022
- Mr.C.Navaneethakrishnan attended STTP on “Architecting Smart IoT Devices” at Coursera on 08-09-2022 to 08-10-2022.
- Mr.S.Vijay attended STTP on “Architecting Smart IoT Devices” at Coursera on 08-09-2022 to 08-10-2022.
- Ms.S.Tamilselvi attended FDP on “Lead Auditor course on Environment Management System, Green Campus Audit, Energy Audit & Hygiene Audit to Educational Institutions and Industrial Sectors” at Nature Science Foundation, Coimbatore on 26.09.2022 to 30.09.2022





# >>> KNOWLEDGE DISSEMINATION

## WORKSHOP / SEMINAR/WEBINAR ATTENDED BY THE FACULTY MEMBERS

- Dr. P. Selvan attended workshop on “Orientation Programme on Outcome Based Education” at Erode Sengunthar Engineering College on 13.08.2022.
- Dr. P. Selvan attended “International Webinar on Transition of Transportation system from Conventional Vehicle to Electric vehicle” at KL University, AP, on 27.08.2022.
- Dr. P. Selvan attended “Industry Guest Lecture on Solar Projects, Future Technology, Growth & Opportunities” at Madanapalle Institute of Technology and Science, AP, on 17.09.2022.
- Dr. R. Muthukumar attended workshop on “Master class on Advanced Python programming” at Pantech e Learning on 27.10.22 to 27.11.22.
- Dr. R. Kannan attended International Virtual Seminar on “Smart Grid and Distributed Energy Systems” at Prathyusha Engineering College, Chennai on 12.09.2022.
- Dr. L. Anbarasu attended “Architecting SMART IoT Devices” at Coursera, Naan Muthalvan on 08.10.2022 to 08.11.2022.
- Dr. L. Anbarasu attended “Electric Power System” at Coursera, Naan Muthalvan on 07.10.2022 to 07.11.2022.
- Dr. L. Anbarasu attended “Introduction to Architecting” at Coursera, Naan Muthalvan on 09.10.2022 to 09.11.2022.
- Dr. L. Anbarasu attended “Introduction and Programming with IoT Boards” at Coursera, Naan Muthalvan on 08.10.2022 to 08.11.2022.

# >>> KNOWLEDGE DISSEMINATION

- Dr.A.JohnyRenoald attended workshop on “Emerging Technologies in Renewable Energy in Sustainable Development” at RVS College of Engineering and Technology, Coimbatore 23.08.2022 to 27.08.2022.
- Mr.S.P.Dwarakesh attended “IP Awareness / Training Program under National Intellectual Property Awareness Mission” at National Intellectual Property Awareness Mission, on 25.01.2023.
- Ms.S.Tamilselvi attended “CSIR Sponsored Two Days National level workshop on Emerging Trends in Power Generation using Bloom Energy Technology and its Future Needs” at Muthayammal College of Engineering on 14.07.2022 to 15.07.2022.
- Ms.S.Tamilselvi attended Entrepreneurship and Innovation as Career Opportunity” at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai-62 on 09.11.2022.
- Ms.S.Tamilselvi attended “How to Set Realistic Goals” at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai-62 on 03.11.2022.

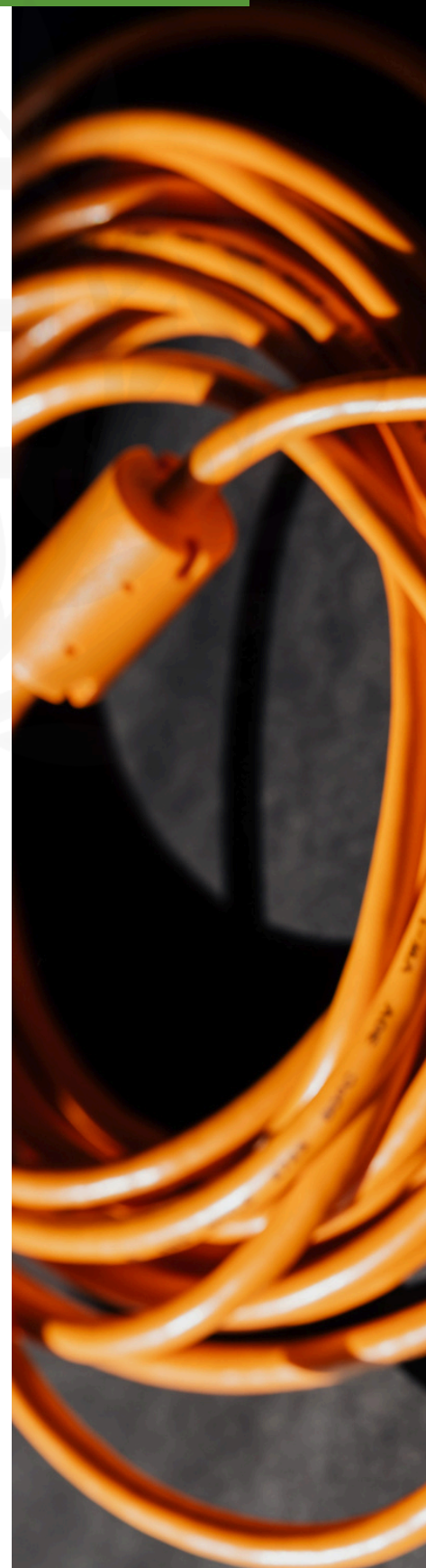






# KNOWLEDGE DISSEMINATION

- Ms.N.Jothipriya attended workshop on “Research Opportunities in Semiconductor Materials and Devices” at SRM Institute of Science and Technology, Kattankulathur on 19.10.2022 to 24.10.2022.
- Mr.C.Navaneethakrishnann attended workshop on “Emerging Technologies in Renewable Energy in Sustainable Development” at RVS College of Engineering and Technology, Coimbatore 23.08.2022 to 27.08.2022
- Mr.R.Rajagopal attended workshop on “Emerging Technologies in Renewable Energy in Sustainable Development” at RVS College of Engineering and Technology, Coimbatore 23.08.2022 to 27.08.2022
- Mr.S.Kirupakaran attended “International Webinar on Transition of Transportation system from Conventional Vehicle to Electric vehicle” at KL University, AP, on 27.08.2022.
- Ms.G.Rajpriya attended “International Webinar on Transition of Transportation system from Conventional Vehicle to Electric vehicle” at KL University, AP, on 27.08.2022.
- Mr.K.Indirajith attended “International Webinar on Transition of Transportation system from Conventional Vehicle to Electric vehicle” at KL University, AP, on 27.08.2022.



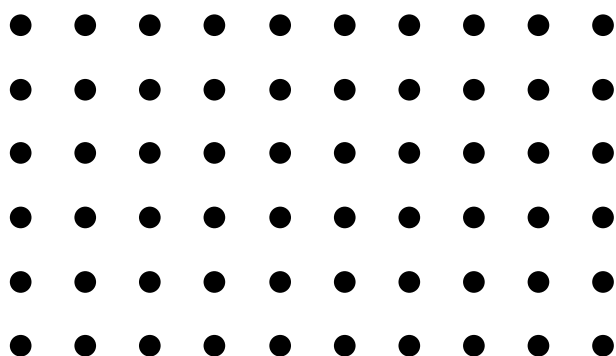
# >>> KNOWLEDGE DISSEMINATION

## NPTEL ATTENDED BY THE FACULTY MEMBERS

- Dr. P. Selvan attended NPTEL Programme on “Power Plant Engineering” on July 2022 to September 2022.
- Dr.R.Muthukumar attended NPTEL Programme on “Cloud Computing” on July 2022 to September 2022.
- Dr. R.Kannan attended NPTEL Programme on “Basic Electric Circuits” on July 2022 to September 2022.
- Dr. L.Anbarasu attended NPTEL Programme on “ELECTRICAL MACHINES- I” on July 2022 to September 2022.

## INTERNSHIP ATTENDED BY THE FACULTY MEMBERS

- Dr.R.Muthukumar attended 1 Month internship on “Advanced Python programming” at Pantech e Learning on 27.10.22 to 27.11.22.





# >>> KNOWLEDGE DISSEMINATION

## INNOVATIVE AMBASSADOR TRAINING ATTENDED BY THE FACULTY MEMBERS

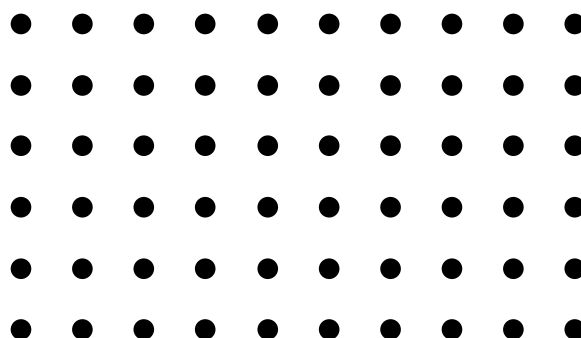
- Dr. P. Selvan attended Innovative Ambassador (IA) Training on Foundation Level (E-certificate No: IA/Foundation/1020074) at Ministry of Education on 25.09.2022 to 28.09.2022.
- Dr.R.Muthukumar attended Innovative Ambassador (IA) Training on “Advanced certification in Devops& Cloud Computing” at Digital Skill Academy ,IIT Madras on May 2022 to Nov 2022.
- Dr. L.Anbarasu attended Innovative Ambassador (IA) Training on Foundation Level (E-certificate No: IA/Foundation/1020074) at Ministry of Education on 25.09.2022 to 28.09.2022.



# STUDENTS ACHIEVEMENTS



- Mohanlal.K, Nithish kumar.V Marutharaj.G IV EEE Students are presented a paper on MS251 Microcontroller Based Vehicle Accident Detection and Rescue System at International Conference on Innovative Trends in Engineering and Science – ICITES 2022, Bannari amman Institute of Technology on 07.11.2022 and 08.11.2022 won Best Paper Award.
- Gayathri , Karthikeyan, Sivasakthivel and Janani II EEE Students participants on “Technical paper presentation” at Mahendra Engineering College on 21.09.2022.
- Naveenbalaji, Seenivasan, Dinesh.S, Udhyakumar, Thirulakshmi pathi and Kumaravel II EEE Students participants on “Technical paper presentation” at Gnanamani Engineering College on 12.10.2022 .
- Swetha.R, Subiksha.A, Naveenbalaji , Subasri, Jamunarani, and Dinesh.S II EEE Students participants on “Technical paper presentation” at Jai Sri Ram Engineering College on 28.09.2022 .
- Vaishnavi.K II EEE Student participants on “Technical paper presentation” at Kongu Engineering College Erode on 17.09.2022





# STUDENTS ACHIEVEMENTS



- Dinesh.S, Muthuesakki II EEE Student participants on “Technical paper presentation” at KSR Engineering College on 08.10.2022
- Arun pravin.V.S, Kulanthaivelu.A, Mohanl.K, Nithish kumar.V Marutharaj.G and Jothika.V IV EEE Students are presented a paper on International Conference on Innovative Trends in Engineering and Science – ICITES 2022 at Bannari Amman Institute of Technology on 07.11.2022 and 08.11.2022 .
- Rubasree.D Shobana.S, Ponmuthuvel.s, Akilanvishnu.G , Dhivakar.s , Thirumurugan.S.P, Naveethakrishnan.T and Pavithra.A.P III EEE Students participants on “Technical paper presentation” at Gnanamani Engineering college on 12.08.2022
- Ponmuthuvel.S, Akilanvishnu.G, , Thirumurugan.S.P, Naveethakrishnan. Dhivakar.S, T III-EEE Students participants on “Project presentation” at Gnanamani Engineering college on 12.08.2022
- Ajitkumar AkilanVishnu.G , Boopathi.M, Dineshkumar.R, Dhivakar.s , Ganesh.R , Gokulraj.R.V , Gowtham.R, Gunasekran.V, Manojkavin.K, Manoj.R , Ponmuthuvel.S, Prabhu.M , Sarathkumar.P , Tamilarasan.R , Akash.D, Deepankumar.G , Gopinath.R, Logasuriyaa.c, Loganathan.M, Mohankumar.S, Mohankumar.S, Muruganatham.K , Vignesh.M, Janani.M, Janani.P, Jansirani.K, Shobana.S , Sujithra.N and Suriya.B.T III EEE Students participants on “International level seminar” at Prathyusha Engineering College on 12.09.2022.
- Hariprasanth.C, Srisankar.I, Akash., Sanjaikumar.S, Yeswanth.M, Krithick.V, Karthikeyan, AkilanVishnu.S, Gowtham.G, Muruganatham.R, and Vignesh.K III EEE Students attended on Workshop at SSM Engineering College on 24.03.2022.

# STUDENT PLACEMENT <<<

S.NO	STUDENT NAME	COMPANY NAME	INCOME PER ANNUM (LPA)
1	ARUN PRAVIN V S	SEASANA INDUSTRY Pvt Ltd & NCR CORPORATION	1.8
2	GOPINATH P	NCR CORPORATION	2.5
3	JABASTEEN B	NCR CORPORATION	2.5
4	JOTHIKA V	NCR CORPORATION	2.5
5	KARUKUVELSHANKAR G	NCR CORPORATION	2.5
6	KARTHIKEYAN M	NCR CORPORATION	2.5
7	KULANTHAIVELU A	SEASANA INDUSTRY Pvt Ltd & NCR CORPORATION	2.5
8	MANIMALAR M	NCR CORPORATION	2.5
9	MARUTHARAJ G	NCR CORPORATION	2.5
10	MEGANATHAN R	NCR CORPORATION	2.5
11	MOHANLAL K	TECHNOFORTE	3.6
12	MUKESH KANNAN R	NCR CORPORATION	2.5



# STUDENT PLACEMENT <<<

S.NO	STUDENT NAME	COMPANY NAME	INCOME PER ANNUM (LPA)
13	MYTHILI A	NCR CORPORATION	2.5
14	NAVEEN C	NCR CORPORATION	2.5
15	NITHISH KUMAR V	NCR CORPORATION	2.5
16	RAGHUL B	THE TECH DESTINY & ETHNUS (Bangalore)	2.5
17	SABARINATHAN V	NCR CORPORATION	2.5
18	SARANYA S	NCR CORPORATION	2.5
19	SATHEESHKUMAR S	NCR CORPORATION	2.5
20	SELVASUNDARAM D	NCR CORPORATION	2.5
21	VASANTHA KUMAR R P	NCR CORPORATION	2.5
22	DESIKA P	THE TECH DESTINY	2.5
23	SARAN T K	SAKTHI AUTOMOBILES	1.8
24	RAHUL P	NCR CORPORATION	2.5

# Thank You

**ESEC EEE NEWSLETTER**

**Chief Editors**

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