

Department of Electrical and Electronics Engineering
KPR Institute of Engineering and Technology



NEWSLETTER



ELECTROBLITZ

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VISION AND MISSION OF THE DEPARTMENT

Vision:

To be a premier centre for quality education, innovation and research in the field of Electrical and Electronics Engineering to meet the global challenges with professional ethics and social consciousness.

Mission:

- ❖ Provide a holistic environment to students through knowledge-centric and skill-based education
- ❖ Collaborate with industries for effective research and innovation in Electrical Engineering and allied areas
- ❖ Enable students to serve the society through prolific ideas with professionalism and ethical values

Programme Educational Objectives (PEOs)

The Graduates of B.E. Electrical and Electronics Engineering, four years after graduation, will

- PEO1:** Apply the acquired knowledge and skills to meet the emerging needs of the society and also excel in their chosen profession
- PEO2:** Adapt to emerging technologies and continuously upskill through active research in Electrical Engineering and allied areas
- PEO3:** Demonstrate leadership skills and practice their profession conforming to ethical and human values

Programme Outcomes (POs)

Graduates of Electrical and Electronics Engineering will be able to:

- **PO1 Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2 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.
- **PO3 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.



- **PO4 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.
- **PO5 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.
- **PO6 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.
- **PO7 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.
- **PO8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9 Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10 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.
- **PO11 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.
- **PO12 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.

Programme Specific Outcomes (PSOs)

The Graduates of Electrical and Electronics Engineering will be able to

PSO1: Analyse, design and test power electronic components integrated with computer-based systems to meet industrial and societal needs

PSO2: Deploy modern engineering tools to model, simulate, fabricate and integrate electrical systems with renewable energy to enhance sustainability



FACULTY DETAILS

S.NO	NAME OF THE FACULTY	DESIGNATION
1.	Dr.K.Mohana Sundaram	Professor & Head
2.	Dr.V.S.Chandrika	Professor
3.	Dr.P.Pandiyam	Associate Professor
4.	Dr.A.Karthick	Associate Professor
5.	Dr.C.Pazhanimuthu	Associate Professor
6.	Dr.V.Parimala	Associate Professor
7.	Mr.G.Saravanan	Assistant Professor (Sl.G)
8.	Dr.R.Samathkumar	Assistant Professor (Sl.G)
9.	Dr.D.Sathish Kumar	Assistant Professor (Sl.G)
10.	Dr.I.Baranilingesan	Assistant Professor (Sl.G)
11.	Dr.S.Ravindran	Assistant Professor (Sl.G)
12.	Dr.A.Rakesh Kumar	Assistant Professor (Sl.G)
13.	Dr.P.Naveen	Assistant Professor (Sl.G)
14.	Dr.T.Ramesh Kumar	Assistant Professor (Sl.G)
15.	Dr.P.Ravikumar	Assistant Professor (Sr.G)
16.	Dr.N.Prakash	Assistant Professor (Sr.G)
17.	Dr.Rangu Seshu Kumar	Assistant Professor (Sr.G)
18.	Ms.B.Lalitha	Assistant Professor (Sr.G)
19.	Ms.R.Revathi	Assistant Professor (Sr.G)



20.	Mr.A.Mohamed Ibrahim	Assistant Professor (Sr.G)
21.	Mr.V.Kamalkumar	Assistant Professor (Sr.G)
22.	Mr.C.J.Vignesh	Assistant Professor (Sr.G)
23.	Mr.C.Dinesh	Assistant Professor (Sr.G)
24.	Mr.K.Balamurugan	Assistant Professor
25.	Mr.M.Mohana Sundaram	Assistant Professor
26.	Mr.G.Xavier Richards	Assistant Professor

SUPPORTING STAFF

S.NO	NAME OF THE STAFF	DESIGNATION
1.	Mr.M.Vinoth Kumar	Technical Officer
2.	Mr.R.Vinoth Kumar	Technical Officer
3.	Mr.C.Gobalakrishnan	Lab Technician
4.	Mr.M.Muthukumar	Lab Instructor
5.	Mr.M.Karuppusamy	Lab Technician
6.	Ms.R.Suvalakshmi	Lab Technician
7.	Mr.M.Soundharrajan	Lab Instructor
8.	Mr.G.Siva Sankar	Technical Assistant
9.	Ms.P.Parameshwari	Office Assistant



ASSOCIATION ACTIVITIES

Alumni Induction Program

The department of EEE organized an Alumni Induction Program for 2022 batch students on 04/11/2023 at Thanam Hall. Welcome address and achievements of Class 2022 delivered by Dr.V.S.Chandrika, Professor / Department of EEE. The presidential address delivered by Dr.K.Mohana Sundaram, Professor and Head / Department of EEE. The event was conducted by the office of alumni relations department coordinator A.Mohamed Ibrahim, Assistant Professor (Sr.G) / Department of EEE. The event was a grand success with a large turnout of alumni and students. The alumni shared their experiences and memories of their time at KPR. The alumni discussed experience of industry-relevant knowledge and skills to juniors helping them bridge the gap between academic theory and practical applications. The Juniors performed a variety of cultural dances and songs. The event concluded with a vote of thanks by Ms.B.Lalitha, AP(Sr.G) / EEE. Overall, the event was a positive and memorable experience for all who attended. Thank you to everyone who helped to make the event a success





One Credit Course

The department of Electrical and Electronics Engineering organized a one credit course on 'U21OEE03 - ENERGY EFFICIENCY IN ELECTRICAL UTILITIES' (SESSION - 2) on 18/11/2023 from 09.00 AM to 04.00 PM exclusively for the second year students of EEE. A heart-warming welcome was delivered by Dr. V. S. Chandrika, Professor, Department of EEE. Dr. S. Thangapandiyan, Production Manager, Enbest Pumps India Private Limited, Coimbatore delivered a valuable lecture on the topic of ENERGY EFFICIENCY IN ELECTRICAL UTILITIES. He covered the following topics during forenoon and afternoon sessions. Forenoon: ENERGY EFFICIENCY IN ELECTRIC MOTORS: Introduction, Motor types, Motor characteristics, Motor efficiency, Motor selection, Energy efficient motors, Factors effecting energy efficiency and minimizing motor losses in operation, speed control of motors, Star labelling of energy efficient induction motors. Afternoon: ENERGY MANAGEMENT AND AUDIT: Definition and objectives of energy management, Energy audit – types and methodology, Need for energy audit, Energy auditing methodology, Understanding energy costs, Benchmarking, Energy performance, Maximizing system efficiency, Instruments and metering for Energy Audit. PERFORMING FINANCIAL ANALYSIS: Introduction, fixed and variable costs, Interest charges, simple pay-back period, Net Present Value method and Internal rate of return method. The speaker covered everything that the electrical engineering students and practicing engineers need to know about energy efficiency in electrical utilities. He also cleared all the queries of the participants in a detailed way. The participants gave a very good feedback on the presentation of the speaker. The vote of thanks was delivered by Dr. I. Baranilingesan, Assistant Professor (SI.G.) / EEE. There were 71 second year students who attended the course and got benefited. The department of EEE thanks the management for providing this opportunity to conduct the one credit course successfully.



KPR Institute of Engineering and Technology

Learn Beyond (Autonomous, NAAC "A")

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ONE CREDIT COURSE ON

U210EE03 - Energy Efficiency in Electrical Utilities (Session - 2)

09.00 AM to 04.00 PM

18.11.2023

II EEE Class Room

CONVENER
Dr. V.S. CHANDRIKA
Professor/EEE

RESOURCE PERSON



Mr. S. Thangapandiyan
Production Manager
Enbest Pumps India Private Limited
Coimbatore - 641025



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GPS Map Camera



Uthupalayam, Tamil Nadu, India
34GV+G8V, Uthupalayam, Tamil Nadu 641048, India
Lat 11.076389°
Long 77.14321°
18/11/23 10:35 AM GMT +05:30



Parents Meeting

The department of Electrical and Electronics Engineering organized Parents' Meeting for second year on 18/11/2023 at 02.30 PM to appraise their wards performance in Continuous Internal Assessment Test (CIAT), End Semester Examinations April / May 2023, also the ongoing activities of our department and institute. Points discussed by the Department HoD to the Parents: 1. HoD appreciated the parents for attending the meeting and expressed the importance of this meeting.2. HoD disseminated the vision and mission of the department to all the parents.3. HoD displayed the status of NIRF Ranking of the institute.4. HoD proudly announced the prize winners with cash worth of Rs.90,000 in the event ESCALADE, 'TECHNICHE' 23 at IIT, Guwahati.5. HoD briefed about the progress made by the student in various events like online course certifications in department, NPTEL courses, project presentation for the knowledge enhancement of both faculty members and students. 6. HoD explained about the ongoing training and placements classes for the students Viz. Full stack, Aptitude training and Soft Skills.7. HoD shared the placement details in the top recruiters like Schneider Electric, ABB, L&T, Virtusa, Hexaware, BSH etc., in campus and also explained about the internship opportunities at ABB, Siemens, Ashok Leyland, etc.8. HoD shared the progress about the ongoing classes of the current academic year 2023-2024 (Odd Sem) and insisted the parents to monitor their wards attendance on daily basis.





Guest Lecture on Importance of Transformer and Its Functions

The department of EEE organized the guest lecture on 'Transformer and its function on 29/11/2023 for II year EEE students. The resource person is Dr.E.Senthil kumar AEE/TNSLDC, TANTRANSO, Chennai . The delivered content of this lecture are as follows: Overview of indian powergrid transmission voltage levels in India, Transformer operation, Types of transformer, Importance of Phase shifting transformer, The effective utilization of transformer, Type and routine test, Special test, Distribution transformer and its function, High frequency transformer, IS standards for testing. The II year students are able to understand the practical aspects of transformer in TANGEDCO and students asked doubts on application of transformer. The resource person addressed the students to visit nearby substation and intimated that he will guide and getting permission to visit the nearby substation. The above delivered contents are in the unit 4 and 5 in the course U21EE302 -Electrical machines. At the end of the session an post quiz event was conducted to test the learning outcome of the students. The feedback about the session was taken.



Learn Beyond

KPR Institute of
Engineering and
Technology

(Autonomous, NAAC "A")

GUEST LECTURE ON

Importance of Transformer and its functions



29.11.2023 | 09.00 AM

VENUE : THANAM HALL

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KPRIET supports the Sustainable Development Goals

DEPARTMENT OF ELECTRICAL
AND ELECTRONICS ENGINEERING

Resource Person

Dr. S. Senthil kumar
Assistant Executive
Engineer/TNSLDC,
TANTRANSOCO, Chennai



List of Eminent Academicians/Scientists Visit

S.No.	Name and Designation	Organization
1	Dr. S. Thangapandiyan Production Manager	Enbest Pumps India Private Limited, Coimbatore
2	Dr.E.Senthil Kumar, AEE/TNSLDC	TANTRANSCO, Chennai

Faculty Participation in FDP/Seminar/Workshop/Orientation Program

S. No	Faculty Name	Type of the Event	Event Name	Name of the Organization	Duration of the Event
1	Dr.K.Mohana Sundaram	Workshop	International workshop on Research Ethics for Scholars and Librarians	KPRIET	18/11/2023
2	Dr.V.S.Chandrika	FDP	Accreditation and Outcome Based Learning	NPTEL	August 2023 - October 2023
3	Dr.D.Sathishkumar	FDP	Smart Grid: Basics to Advanced Technologies	NPTEL	August 2023 - October 2023
4	Ms.B.Lalitha	FDP	Smart Grid: Basics to Advanced Technologies	NPTEL	August 2023 - October 2023

Faculty Participation in NPTEL

S. No	Faculty Name	Course Name	Grade
1	Dr. K. Mohana Sundaram Professor and Head	Teaching and Learning in General Programs: TALG	Elite
2	Dr.V.S.Chandrika Professor	Accreditation and Outcome Based Learning	Elite
3	Dr. A. Karthick Associate Professor	Accreditation and Outcome Based Learning	Elite
4	Dr. V. Parimala Associate Professor	Sustainable Energy Technology	Successfully completed

5	Dr. V. Parimala Associate Professor	Teaching and Learning in General Programs: TALG	Elite
6	Dr. C. Pazhanimuthu Associate Professor	Accreditation and Outcome Based Learning	Elite Silver
7	Mr. G. Saravanan Assistant Professor (Sl.G)	Deep Learning	Elite
8	Dr. I. Baranilingesan Assistant Professor (Sl.G)	Transducers for Instrumentation	Successfully completed
9	Dr. D. Sathish Kumar Assistant Professor (Sl.G)	Smart Grid: Basics to Advanced Technologies	Successfully completed
10	Dr. P. Ravikumar Assistant Professor (Sl.G)	Public Speaking	Elite
11	Ms. B. Lalitha Assistant Professor (Sr.G)	Smart Grid: Basics to Advanced Technologies	Successfully completed
12	Ms. R. Revathi Assistant Professor (Sr.G)	Smart Grid: Basics to Advanced Technologies	Elite
13	Mr. A. Mohamed Ibrahim Assistant Professor (Sr.G)	Smart Grid: Basics to Advanced Technologies	Successfully completed
14	Mr. V. Kamalkumar Assistant Professor (Sr.G)	Operating Systems Fundamentals	Successfully completed
15	Dr. Rangu Seshu Kumar Assistant Professor (Sr.G)	Smart Grid: Basics to Advanced Technologies	Successfully completed

Students Participation in Seminar/Workshop/Hands on Training/ Orientation Program

S.No	Student Name	Year & Section	Event Name	Name of the Organization	Duration of the Event
1	S. Preethi	II EEE	Paper Presentation	Anna University Regional Campus, Coimbatore	07/11/2023
2	S. Preethi	II EEE	Quiz	Anna University Regional Campus, Coimbatore	07/11/2023
3	S. Srimathi	III EEE B	Anna University Zonal Match: Athletics	Coimbatore Institute of Technology, Coimbatore	18/11/2023 - 19/11/2023
4	S. Pannai Alangara Pandiyan	III EEE B	Anna University Zonal Match: Athletics	Coimbatore Institute of Technology, Coimbatore	18/11/2023 - 19/11/2023
5	G. Mahavishnu	IV EEE B	Internship	IIT, Kharapur	30/11/2023

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R & D

h index	95+	i10	110+	Publications	410+
Patents	22+	Conferences	120+	Copyrights	1
NPTTEL	250+	Awards	18+	Citations	5450+

Funds Received



Internships

Students	Faculty
300+ 2018-19	25+ 2018-19
350+ 2019-20	50+ 2019-20
380+ 2020-21	56+ 2020-21
310+ 2020-21 * Dec 2021	25+ 2020-21 * Dec 2021

CONTACT

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