



VELAMMAL
INSTITUTE OF TECHNOLOGY

Chennai - Kolkatta Highway, Panchetti, Ponneri



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD, Government of India)

Department of Electrical and Electronics Engineering

presents

SPARK



June 2023 - May 2024
Odd Semester

Institute Vision

To be a leader in imparting quality technical education, research & enterprising skills in pursuit of professional excellence.

Institute Mission

- To promote quality education & technical skills to meet the industry requirements.
- To incorporate team work, leadership skills & lifelong learning.
- To facilitate career development & higher education assistance.
- To encourage innovative ideas for research & development and entrepreneurship for societal needs.
- To inculcate ethical responsibility & human values.

Vision of the Department

To produce highly competent Electrical Engineers and Researchers to fulfil the technological needs of society through innovation and product development.

Mission of Department

- To educate graduates with fundamental principles to acquire advanced technical knowledge in domains of Electrical and Electronics Engineering.
- To provide a progressive environment for innovative creations and rigorous practical training through creative activities in conventional and thrust areas of Electrical and Electronics Engineering.
- To inculcate Societal and Ethical values among the faculties and students.

Program Outcomes (POs)

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **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.
3. **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.
4. **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.
5. **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.
6. **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)

7. **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.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **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.
11. **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.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage independent and life-long learning in the broadest context of technological change.

Program Educational Objectives (PEOs)

PEO – 1 : Graduates of the program will have successful technical and professional career.

PEO – 2 : Graduates of the program will reveal life-long learning to enhance technical skills and Managerial skills.

PEO – 3 : Graduates of the program will undertake societal responsibilities with ethical practice.

Programme Specific Outcomes (PSOs)

Foundation of Electrical Engineering: Ability to understand the principles and working of electrical components, circuits, systems and control that are forming a part of power generation, transmission, distribution, utilization, conservation and energy saving. Students can assess the power management, auditing, crisis and energy saving aspects.

Foundation of Mathematical Concepts: Ability to apply mathematical methodologies to solve problems related with electrical engineering using appropriate engineering tools and algorithms.

Computing and Research Ability: Ability to use knowledge in various domains to identify research gaps and hence to provide solution which leads to new ideas and innovations.

TEAM MEMBERS

Editors-in-Chief

Mr Deevi Rohith Kumar

IV Year EEE Student

Mr I Vijay Ganesh,,

III Year EEE Student

Editorial Committee

Mr R C Madhvesh IV Year EEE

Ms R Nemika IV Year EEE

Mr S Nishanth Vadanam III Year EEE

Ms U Pavithra, III Year EEE

Mr Rajavel Rahul, III Year EEE

Ms A Hemalatha,II Year EEE

Mr J Harish, II Year EEE

Ms M Sowmiya, II Year EEE

Mr R Praveen Kumar, II Year EEE Student

Staff Coordinators

Dr S Muthukaruppasamy., Ph.D.,

Professor & Head

Mr P Vivek M.E.,(Ph.D).,

Assistant Professor / EEE

Velammal Institute of Technology

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VELAMMAL
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DEPARTMENT OF EEE

National Level Technical Symposium

"Xemplar 23" - Held on

14-10-2024



Industrial Visits

ACADEMIC YEAR	YEAR/SEM	INDUSTRY	DATE
1	III & IV YEAR EEE	TANSAM, TAMIL NADU SMART MANUFACTURING ADVANCED CENTRE , TIDAL PARK	5.09.2023

DEPARTMENT OF EEE - INDUSTRIAL VISIT

III & IV Year Students INDUSTRIAL VISIT @ TANSAM-TIDAL Park, Chennai



Industrial Visits

ACADEMIC YEAR	YEAR/SEM	INDUSTRY	DATE
1	II YEAR	K-LITE INDUSTRIES	19.12.2023

DEPARTMENT OF EEE - INDUSTRIAL VISIT

Industrial Visit to "K-Lite Industries @ Ambattur, Chennai on 19-12-2023 By II EEE



Guest Lectures

S.No	Topic of Guest Lecture	Resource Person With Designation	Date
1	SMART GRID	DR.V.GOMATHI, AP,CE0 CAMPUS	31.08.2023

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Guest Lecture
On
SMART GRID

Dr. V. Gomathi
Associate professor
CE0 Campus
Anna University Chennai

DATE 31-08-23 **TIME** 11 AM - 1 PM
VENUE EEE SEMINAR HALL
PARTICIPANTS 3RD & 4TH YEAR EEE

Coordinator: Mr. V. Subramanian, Head of the Department: Dr. S. Muthukaruppannam, Vice Principal: Dr. S. Sundararajan, Principal: Dr. H. Balaji



SMART GRID

Dr. V. Gomathi
Associate Professor
DEEE, CEG
Anna University,
Chennai 600 025.

Definition of Smart Grid
- more than IT and smart meters!

Smart Grid is a network of electrical grids that use digital communication and control systems to monitor and manage the flow of electricity. It is a more efficient and reliable way to deliver power to homes and businesses.

Smart Grid is a key component of the smart grid system. It is a network of electrical grids that use digital communication and control systems to monitor and manage the flow of electricity. It is a more efficient and reliable way to deliver power to homes and businesses.

Guest Lectures

S.No	Topic of Guest Lecture	Resource Person With Designation	Date
2	POWER ELECTRONICS AND DRIVES	DR.U.NAGABALAN,A SSOCIATE PROFESSOR,RMD COLLEGE	1.08.2023

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

GUEST LECTURE

Topic : Power Electronics and Drives

DATE: 01.08.2023

Time: 9.30am - 12.30pm



Resource Person:
Dr. U. Nagabalan,
Associate professor,
R.M.D Engineering College.

**Venue: 3rd Floor EEE
Department Seminar Hall
Participants: 3rd year EEE
students**



Guest Lectures

S.No	Topic of Guest Lecture	Resource Person With Designation	Date
1	POWER SYSTEM OPERATION AND CONTROL	DR. B.KARTHIKEYAN ASSOCIATE PROFESSOR SRI KRISHNA COLLEGE	31.08.2023


VELAMMAL
 INSTITUTE OF TECHNOLOGY
Accredited by NBA, NAAC, and AICTE




DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
GUEST LECTURE
Topic : Power System Operation and Control


DATE: 04.08.2023


Resource Person
 Dr. B. Karthikeyan,
 Associate professor,
 Sri Krishna College of Engineering
 and Technology, Coimbatore.

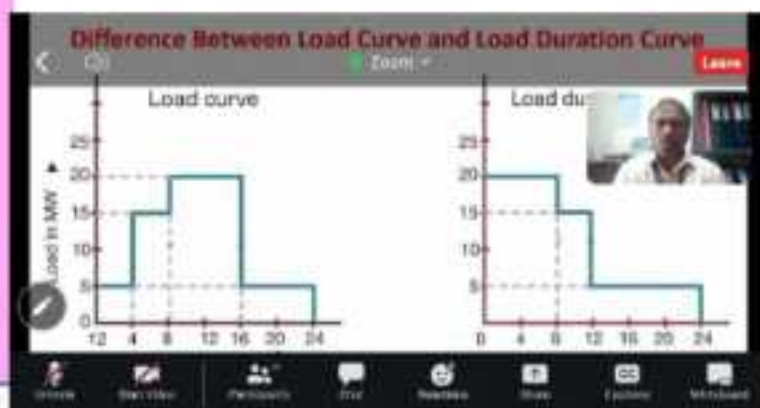
Time: 5.30am - 11.00am
 Online: Zoom
 Participants: 4th year EEE
 students

Dr. J. Pandita Gopal
 Asst. G. Selvarani
 Coordinator

Dr. S. Muthukrishnamoorthy
 HOD

Dr. S. Sundararajan
 Vice Principal

Dr. N. Balaji
 Principal



Memorandum of Understanding (MoU) Signed

S.No	Name of the Organization/Company	Date of MoU Signed
1.	Tamil Nadu Smart and Advanced Manufacturing Centre	07.09.2023

***MOU Signed with "TANSAM" on
07-09-2023 in presence of Dr. T R B Rajaa,
Minister for Industries Department &
Mr. Sukhpreet Singh
CEO - TANSAM***



Club Activities – A Glimpse



VELAMMAL
INSTITUTE OF TECHNOLOGY

Chennai - Kolkatta Highway, Panchetti, Ponneri



DEPARTMENT OF EEE-STUDENT'S CLUB ACTIVITY

POWER CLUB



INNOVATION CLUB



ENERGY CLUB



DISSEMBLE CLUB



PHOTO & VIDEO CLUB



Club Activities

INNOVATION CLUB

The main aim of this club is

- Each team doing mini projects using the Arduino workshop conducted under this club
- To make the students to solution for an issue using Arduino kit.
- To make the students to attend the inter college project competitions.

TOXIC GAS LEAKAGE
DETECTOR USING
ARDUINO



TRANSMISSION
LINE FAULT
DETECTION



ENVIRONMENTAL
MONITORING AND
ATMOSPHERIC ANALYSIS

I-V MONITORING
SYSTEM IN HOSPITAL



CHARGE MONITORING AND
FIRE PROTECTION IN EV BMS
SYSTEM

TRAIN ACCIDENT
PREVENTION
USING
ULTRASONIC
SENSOR



Students Outside Event Participation

S.No	Name	Event	Participated	Year	Date
1.	SOWMIYA M	Symposium	Paper Presentation	II	28.10.23
2.	SOWMIYA M	Symposium	Circuit Debugging	II	28.10.23
3.	KAMALESH S	Symposium	Riddle SQL	II	2.11.23

Students Outside Event Participation



Ms.Sowmiya.M (II EEE) Receives -First Prize In Circuit Debugging & Second Prize In Paper Presentation-on Symposium @ TJS Engg College on Nov 2023



Mr.Rajavel Rahul(III EEE)-Receives "The Young Scientist Achiever Award 2023 "By Education Today Publications on Oct 2023

Students Outside Event Participation



Student's Achievements

Few of our department III Year students completed the NPTEL online certification course and enriched their knowledge.

S.No	Name of student	Name of NPTEL Course
1	JAYABALAN.S	Smart Grid Basics & Advanced Technologies
2	VIJAY GANESH. I	Fundamentals of electrical engineering
3	SELVAGANESH.M	Fundamentals of electrical engineering
4	SHIVIKSAN.C	Smart Grid Basics & Advanced Technologies
5	SHOBAN.K	Smart Grid Basics & Advanced Technologies
6	AKHILESH.R	Smart Grid Basics & Advanced Technologies
7	SELVAGANESH.M	Smart Grid Basics & Advanced Technologies

Congratulations to the students!!!

Student's Achievements

Few of our department III Year students completed the NPTEL online certification course and enriched their knowledge.

S.No	Name of student	Name of NPTEL Course
8	RAJAVEL RAHUL	Smart Grid Basics & Advanced Technologies
9	VENKAT RAGAVAN.D	Smart Grid Basics & Advanced Technologies
10	HEPTHA.T	Smart Grid Basics & Advanced Technologies
11	DHANUSH.S	Smart Grid Basics & Advanced Technologies
12	SHAMITHA T	Power system protection and switch gears
13	SUSMITHA P	Power system protection and switch gears

Congratulations to the students!!!

Student's Achievements

Few of our department III Year students completed the NPTEL online certification course and enriched their knowledge.

S.No	Name of student	Name of NPTEL Course
14	NISHANTH VADANAM S	Smart Grid: Basics To Advanced Technologies
15	CHRIS MADONNA F	German - I
16	CHRIS MADONNA F	Vlsi Design Flow: Rtl To Gds
17	VIDYASREE TG	Cloud Computing

Congratulations to the students!!!



NPTEL Online Certification

Provided by the MRC, Govt. of India

This certificate is awarded to
SHARATH T

for successfully completing the course

Power System Protection and Switchgear

with a consolidated score of **69 %**

Online Assignments : 18/20/20 Proctored Exam : 20/20

Total number of candidates certified in this course : 621

Prof. Ramesh Babu
Professor (Electrical)
Government of India

Jul-Sep-2023
(12 weeks course)

Prof. Rajagopal Palanisamy
Professor (Electrical)
Government of India



Indian Institute of Technology, Kharagpur

NPTEL ID: NPTEL202309000000000000

To verify the certificate



No. of credits recommended : 2 or 4



NPTEL Online Certification

Provided by the MRC, Govt. of India

This certificate is awarded to
SUBHITHA T

for successfully completing the course

Power System Protection and Switchgear

with a consolidated score of **58 %**

Online Assignments : 15/20/20 Proctored Exam : 40/20/20

Total number of candidates certified in this course : 621

Prof. Ramesh Babu
Professor (Electrical)
Government of India

Jul-Sep-2023
(12 weeks course)

Prof. Rajagopal Palanisamy
Professor (Electrical)
Government of India



Indian Institute of Technology, Kharagpur

NPTEL ID: NPTEL202309000000000000

To verify the certificate



No. of credits recommended : 2 or 4



NPTEL Online Certification

Provided by the MRC, Govt. of India

This certificate is awarded to
JAYABALAN S

for successfully completing the course

Smart Grid: Basics to Advanced Technologies

with a consolidated score of **58 %**

Online Assignments : 21/40/20 Proctored Exam : 20/20

Total number of candidates certified in this course : 1409

Prof. Ramesh Babu
Professor (Electrical)
Government of India

Jul-Oct-2023
(12 weeks course)

Prof. Rajagopal Palanisamy
Professor (Electrical)
Government of India



Indian Institute of Technology, Kharagpur

NPTEL ID: NPTEL202309000000000000

To verify the certificate



No. of credits recommended : 2 or 4



NPTEL Online Certification

Provided by the MRC, Govt. of India

This certificate is awarded to
SUBHITHA T

for successfully completing the course

Smart Grid: Basics to Advanced Technologies

with a consolidated score of **55 %**

Online Assignments : 22/40/20 Proctored Exam : 20/20

Total number of candidates certified in this course : 1409

Prof. Ramesh Babu
Professor (Electrical)
Government of India

Jul-Oct-2023
(12 weeks course)

Prof. Rajagopal Palanisamy
Professor (Electrical)
Government of India



Indian Institute of Technology, Kharagpur

NPTEL ID: NPTEL202309000000000000

To verify the certificate



No. of credits recommended : 2 or 4



NPTEL Online Certification

Provided by the MRC, Govt. of India

This certificate is awarded to
SHODAN K

for successfully completing the course

Smart Grid: Basics to Advanced Technologies

with a consolidated score of **53 %**

Online Assignments : 21/10/20 Proctored Exam : 20/20

Total number of candidates certified in this course : 1409

Prof. Ramesh Babu
Professor (Electrical)
Government of India

Jul-Oct-2023
(12 weeks course)

Prof. Rajagopal Palanisamy
Professor (Electrical)
Government of India



Indian Institute of Technology, Kharagpur

NPTEL ID: NPTEL202309000000000000

To verify the certificate



No. of credits recommended : 2 or 4



NPTEL Online Certification

Provided by the MRC, Govt. of India

This certificate is awarded to
AKHILESH H

for successfully completing the course

Smart Grid: Basics to Advanced Technologies

with a consolidated score of **53 %**

Online Assignments : 22/20/20 Proctored Exam : 40/20/20

Total number of candidates certified in this course : 1409

Prof. Ramesh Babu
Professor (Electrical)
Government of India

Jul-Oct-2023
(12 weeks course)

Prof. Rajagopal Palanisamy
Professor (Electrical)
Government of India



Indian Institute of Technology, Kharagpur

NPTEL ID: NPTEL202309000000000000

To verify the certificate



No. of credits recommended : 2 or 4



NPTEL Online Certification

Provided by the MRC, Govt. of India

This certificate is awarded to
RAJIVEL RAHUL

for successfully completing the course

Smart Grid: Basics to Advanced Technologies

with a consolidated score of **51 %**

Online Assignments : 20/30/20 Proctored Exam : 20/20

Total number of candidates certified in this course : 1409

Prof. Ramesh Babu
Professor (Electrical)
Government of India

Jul-Oct-2023
(12 weeks course)

Prof. Rajagopal Palanisamy
Professor (Electrical)
Government of India



Indian Institute of Technology, Kharagpur

NPTEL ID: NPTEL202309000000000000

To verify the certificate



No. of credits recommended : 2 or 4



NPTEL Online Certification

Provided by the MRC, Govt. of India

This certificate is awarded to
ABHIRAM T

for successfully completing the course

Smart Grid: Basics to Advanced Technologies

with a consolidated score of **53 %**

Online Assignments : 22/10/20 Proctored Exam : 20/20

Total number of candidates certified in this course : 1409

Prof. Ramesh Babu
Professor (Electrical)
Government of India

Jul-Oct-2023
(12 weeks course)

Prof. Rajagopal Palanisamy
Professor (Electrical)
Government of India



Indian Institute of Technology, Kharagpur

NPTEL ID: NPTEL202309000000000000

To verify the certificate



No. of credits recommended : 2 or 4



Student's Achievements-NCAT-LABVIEW

Few of our Department students completed the LABVIEW course and attended the NCAT exams.

S.No	Name of student	NCAT / LABVIEW
1	Chris Madonna F	NCAT 2024 ALL INDIA RANK 39
2	Hemambika B	NCAT 2024 PARTICIPATED
3	Mageshwar P	NCAT 2024 PARTICIPATED
4	Ingarsal S	NCAT 2024 PARTICIPATED
5	Vidyasree T G	NCAT 2024 PARTICIPATED

Congratulations to the students!!!

NCAT CERTIFICATES



Student's Sports Event

Name of the Student	Event Participated	Participation / Winner	Year
Dinesh Kumar D	Hand Ball	Winner	II
Sowmiya M	Atheletics-1200 m	Winner	II
	400 Meter Running	Participated	II
Monisha P	1000 Meter Running	Participated	II
Vijayalakshmi	Throw Ball	Participated	III
	Volley Ball	Participated	III
Karunya S	Throw Ball	Participated	III
	Volley Ball	Participated	III
Periyasamy Alamelu	Throw Ball	Participated	III
	Volley Ball	Participated	III



**Participated in Anna University zonal
Volleyball match,2023**



**Secured 1st place in inter college
Throwball,2023**

Students Internship

<u>S.No</u>	Student Name	Company	Internship Dates
1	Ms.Sushmitha P	Shri Vaari Electricals Pvt Ltd., Chennai	6 Days (10.07.23 to 15.07.2023)
2	Ms Shamitha T	Pantech e learning Pvt. Ltd	5 Days (11.07.23 to 15.07.23)
3	Ms Yuvasree M	Pantech e learning Pvt. Ltd	5 Days (11.07.23 to 15.07.23)
4	Ms Loga Priya A	Pantech e learning Pvt. Ltd	5 Days (11.07.23 to 15.07.23)
5	Ms.Sushmitha P	Pantech e learning Pvt. Ltd	15 Days (02.07.23 to 18.07.23)
6	Mr Nishanth Vadanam S	Pantech e learning Pvt. Ltd	15 Days (02.07.23 to 18.07.23)
7	Mr Dinesh Kumar P	NSIC - Technical Services Centre	14 Days (03.07.23 to 14.07.23)
8	Mr Jayabalan S	NSIC - Technical Services Centre	14 Days (03.07.23 to 14.07.23)
9	Mr Vijay Ganesh I	NSIC - Technical Services Centre	14 Days (03.07.23 to 14.07.23)
10	Mr Shyam Ganesh	NSIC - Technical Services Centre	14 Days (03.07.23 to 14.07.23)
11	Mr Akilesh R	NSIC - Technical Services Centre	14 Days (10.07.23 to 21.07.23)

Students Internship

<u>S.No</u>	Student Name	Company	Internship Dates
12	Mr Dhanush	NSIC - Technical Services Centre	14 Days (03.07.23 to 14.07.23)
13	Ms Chris Madonna F	NCTPS Stage II, Chennai	5 Days(17.07.23 to 21.07.2023)
14	Mr Shoban K	NCTPS Stage II, Chennai	5 Days(17.07.23 to 21.07.2023)
15	Mr Heptha T	NCTPS Stage II, Chennai	5 Days(17.07.23 to 21.07.2023)
16	Mr Venkat Ragavan D	NCTPS Stage II, Chennai	5 Days(17.07.23 to 21.07.2023)
17	Ms Chris Madonna F	TVS Training & Services	7 Days (06.07.23 to 12.07.23)
18	Ms Aswini S	TVS Training & Services	7 Days (06.07.23 to 12.07.23)
19	Mr Venkat Ragavan D	TVS Training & Services	7 Days (06.07.23 to 12.07.23)
20	Ms Logeswari S	TVS Training & Services	7 Days (06.07.23 to 12.07.23)
21	Mr Dhanush	NSIC - Technical Services Centre	14 Days (03.07.23 to 14.07.23)
22	Ms Chris Madonna F	NCTPS Stage II, Chennai	5 Days(17.07.23 to 21.07.2023)

Students Internship

<u>S.No</u>	Student Name	Company	Internship Dates
12	Mr Dhanush	NSIC - Technical Services Centre	14 Days (03.07.23 to 14.07.23)
13	Ms Chris Madonna F	NCTPS Stage II, Chennai	5 Days(17.07.23 to 21.07.2023)
14	Mr Shoban K	NCTPS Stage II, Chennai	5 Days(17.07.23 to 21.07.2023)
15	Mr Heptha T	NCTPS Stage II, Chennai	5 Days(17.07.23 to 21.07.2023)
16	Mr Venkat Ragavan D	NCTPS Stage II, Chennai	5 Days(17.07.23 to 21.07.2023)
17	Ms Chris Madonna F	TVS Training & Services	7 Days (06.07.23 to 12.07.23)
18	Ms Aswini S	TVS Training & Services	7 Days (06.07.23 to 12.07.23)
19	Mr Venkat Ragavan D	TVS Training & Services	7 Days (06.07.23 to 12.07.23)
20	Ms Logeswari S	TVS Training & Services	7 Days (06.07.23 to 12.07.23)
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Students Internship

<u>S.No</u>	Student Name	Company	Internship Dates
23	Mr Shoban K	TVS Training & Services	7 Days (06.07.23 to 12.07.23)
24	Mr Heptha T	TVS Training & Services	7 Days (06.07.23 to 12.07.23)
25	Mr Selva Ganeshan M	TVS Training & Services	7 Days (06.07.23 to 12.07.23)
26	Mr Rajavel Rahul	NCTPS Stage II, Chennai	5 Days(31.07.23 to 04.08.2023)
27	Mr Shiviksan C	NCTPS Stage II, Chennai	5 Days(31.07.23 to 04.08.2023)
28	Mr Selva Ganeshan	NCTPS Stage II, Chennai	5 Days(31.07.23 to 04.08.2023)
29	Mr Akilesh R	NCTPS Stage II, Chennai	5 Days(31.07.23 to 04.08.2023)
30	Mr Rajavel Rahul	Mmgreen Engineering Solutions	7 Days(21.06.23 to 28.07.23)



DEPARTMENT OF EEE-INTERNSHIP

Glimpse of III EEE Students INTERNSHIP TRAINING @ TVS Industries , Chennai





DEPARTMENT OF EEE -ALUMNI INTERACTION

***Glimpse of Alumni Talk & Mock Interview Session
Conducted By Ms. Shivangi S, (Alumni 2016-20)
HR, Zoho Corporation for EEE Students***



Faculty Participation

S.No	NAME OF THE FACULTY	COURSE TITLE	CERTIFIED BY	CERTIFICATION DATE
1	Dr.S.Muthukaruppasamy	Two Week National Level Virtual Workshop on "Advanced Research Methodology"	SRM institute of Science and Technology, Ramapuram	03.07.2023 – 18.07.2023
2	Dr.J.Nandha Gopal	Five Days Online Faculty Development Program On "Innovation in Emerging Field"	GKCEM, Baraipur	15.07.2024 – 19.07.2024
		One Week FDP on "CO-PO Mapping & CO-PO Attainment"	GKCEM, Baraipur	10.07.2023 – 14.07.2023
		One Week FDP on "Outcome Based Education for Effective Learning and Teaching"	AMET University	19.07.2023 – 27.07.2023
		One week virtual interdisciplinary faculty program on "Challenges and Opportunity in Electric Vehicle"	K.S.R. College of Engineering	09.10.2023 – 14.10.2023
		"AICTE Sponsored One Week FDP on Machine Learning based code semiconductor"	Thiyagarajar Engineering College, Madurai	18.12.2023 – 23.12.2023
3	Mr.K.Kaliagurumoorthi	FDP on "ANSYS-EM for Electrical Engineering Application"	NITTTR, Chandigarh	17.07.2023 – 21.07.2023

Faculty Participation

4	Dr.R.Karthikeyan	FDP on "PLC using SIMATICs"	Tamilnadu Smart and Advanced Manufacturing Centre (TANSAM)	24.07.2023 – 28.07.2023
		FDP on "ANSYS-EM for Electrical Engineering Application"	NITTTR, Chandigarh	17.07.2023 – 21.07.2023
5	Mr.V.Subramaniyan	FDP on "Future Trends and Advances in Electrical Engineering"	Aditya Engineering College, Surampalem	05.07.2023 – 09.07.2023
		FDP on "ANSYS-EM for Electrical Engineering Application"	NITTTR, Chandigarh	17.07.2023 – 21.07.2023

Faculty Conference

<u>S.No</u>	Name of Faculty	Title of paper	Title of conference	Place of conference	Date of Conference
1	K Kaliagurumoorthi	Arithmetic Optimization Algorithm Based Tilt Integral Derivative Controller for Frequency Regulation of a Smart Grid System	Proceedings of IETE sponsored 6th National Conference on Innovative Research in Electrical, Electronics and Communication Engineering (ELECTROX'23)	Karpagam Institute of Technology, Coimbatore	28.10.2023

Faculty Journal Publication

<u>S.No</u>	Staff Name	Title of the Paper	Journal Name	Publication Details(volume no/issue no/page/month& year)	Scopus/Science Index/Annexure I/UGC
1	S.MuthuKaruppasamy	Efficient Integration of Photovoltaic cells with multiport converter for enhanced energy harvesting	Proceedings of 5th International Conference on Inventive Research in computing Applications (ICIRCA 2023)	5th International Conference on Inventive Research in Computing Applications, ICIRCA 2023; Coimbatore, India; 3 August 2023 through 5 August 2023; Category number CFP23N67-ART; Code 1920761590-1595, August 2023	Scopus(IEEE conference)
2	S.MuthuKaruppasamy	Integrating MPPT and Artificial Neural Networks for Efficient DC-DC and DC-AC Conversion in Photovoltaic Applications	SSRG International Journal of Electrical and Electronics Engineering	Volume 10, Issue 8, August 2023, Pages 51-61	Scopus
3	S.MuthuKaruppasamy	Modeling of Energy Generation Using Piezoelectric Material for Wearable Devices	SSRG International Journal of Electrical and Electronics Engineering	Volume 10, Issue 9, September 2023, Pages 101-111	Scopus
4	S.MuthuKaruppasamy	Predictive Modeling of Power System Contingencies with SVMs and FACTS Devices for Enhanced Stability	SSRG International Journal of Electrical and Electronics Engineering	Volume 10, September 2023, Pages 112-123	Scopus
5	S.MuthuKaruppasamy	A Symmetric Multi-Level Cascaded H-Bridge Inverter for Renewable Energy Integration	International Journal of Electrical and Electronics Research	Volume 11, Issue 4, 1 October 2023, Pages 939-943	Scopus
6	S.MuthuKaruppasamy	Performance investigations of five-level reduced switches count H-bridge multilevel inverter	Electrical Engineering & Electromechanics	Volume 2023, Issue 6, 21 October 2023, Pages 58-62	Scopus

Faculty Book chapter

Staff Name	Title of the Manuscript	Title of Book chapter	Publishers of Book chapter	Date of publications	Staff Name
1	S.MuthuKaruppasamy	Revolutionizing Smart Grids with Big Data Analytics: A Case Study on Integrating Renewable Energy and Predicting Faults	Data Analytics for Smart Grids Applications—A Key to Smart City Development	179-198;december-2023	Scopus
2	S.MuthuKaruppasamy, J.Nandha Gopal	Broad Framework of Digital Twins in Agricultural Domain	Predictive Analytics in Smart Agriculture	213-227,December 2023	Scopus
3	S.MuthuKaruppasamy	Future of Medical Research with a data driven federated learning approach	Handbook on Federated Learning Advances, Applications and Opportunities	201-224;January-2024	Scopus
4	S.MuthuKaruppasamy	Predictive Analysis of Climate Change: The future of Global Warming Lies in Data Analytics	Predictive Analytics in Smart Agriculture	229-249;December2023	Scopus
5	S.MuthuKaruppasamy	Revolutionizing Smart Grids with Big Data Analytics: A Case Study on Integrating Renewable Energy and Predicting Faults	Data Analytics for Smart Grids Applications—A Key to Smart City Development	179-198;december-2023	Scopus

Faculty Achievement

Faculty Academic Achievements

(100% result-Jan'23 to June 23 and July-Dec'23)

<u>S.No</u>	Name of Faculty	Name of subjects(100 % result achievement)	year/sem
1	Dr.S.Muthukaruppasamy	Transmission and Distribution(Jan-Jun-23)	III/VI
2	Mr K Kaliagurumoorthi	Electrical drives(July-Dec'2023)	III/V
		SEM(Jan-Jun'23)	III/VI
4	Mr P Vivek	MPMC(Jan-Jun'2023)	II/IV
5	Mr VSubramaniyan	Protection and Switchgear (July-Dec'23)	III/V
6	Ms.G.Selvamathi	Utilization & Conservation of Electrical Energy(July-Dec'23)	III/V
		ESS(Jan-Jun'2023)	III/IV
		PSG(July-Dec'2023)	III/VI
7	Ms.Minusha	MPMC(Jan-Jun'23)	IV/VIII
8	Ms.Minusha	Power electronics(July-Dec'23)	III/VI

Faculty Appreciation

Faculty Academic Achievements

(100% & >95% result-Academic year 2022-23)



Faculty Appreciation

Faculty Academic Acheivements

(100% & >95% result-Academic year 2022-23)



Faculty Academic Acheivements
(100% & >95% result-Academic year 2022-23)



Faculty Appreciation

Faculty Academic Achievements

(100% & >95% result-Academic year 2022-23)



Faculty Excellence

Our Department Faculty member completed the NPTEL online certification course and gained knowledge in Power system field.

S.No	Name of Faculty	Name of NPTEL Course
1	Ms.Selvamthi	Power System Protection and Switchgear



Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
G SELVANATH
for successfully completing the course
Power System Protection and Switchgear
with a consolidated score of **62 %**

Online Assignments	17.08/25	Proctored Exam	45/75
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Total number of candidates certified in this course: 631


Prof. Kanchi Ghosh, Professor (Electrical), Coordinator (ECE)
Jul-Sep 2023
(8 weeks course)
Prof. Ranjana Patharia, Professor (ECE), Coordinator (NPTEL)


Indian Institute of Technology Kharagpur

Roll No: NPTEL23EE05535521111 To verify the certificate  No. of credits recommended: 2 or 3

Congratulations to the Faculty Member!!!

Faculty Excellence

Our Department Faculty member completed the NPTEL online certification course and gained knowledge in various fields.

S.No	Name of Faculty	Name of NPTEL Course
1	Mr V Subramaniyan	Introduction to Professional Scientific Communication
2	Ms G Bavani	Python for Data Science & Mentor Certificate
3	Dr R Karthikeyan	NBA Accreditation and Teaching-Learning in Engineering (NATE)
4	Mr P Vivek	Smart Grid: Basics to Advanced Technologies

Congratulations to the Faculty Member!!!

CERTIFICATES



Faculty Excellence

Mr P Vivek has awarded as **Active SPOC** for the SWAYAM NPTEL Local Chapter in the July-Dec 2023 Semester.





Thank You