





DEPARTMENT NEWS LETTER

APRIL 2023



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING E.G.S.PILLAY ENGINEERING COLLEGE (AUTONOMOUS) NAGAPATTINAM



I feel proud to hear that our EEE department is releasing their department News Letter "E-SPREAD". it is a prudent approach. I wish them all success.

Shri. S. Senthil Kumar SECRETARY



I appreciate the department of EEE for the effort taken by them to launch their department News Letter. Let this be the starting of the Big picture to be drawn in the future.

Dr.S.Ramabalan PRINCIPAL

HISTORY OF THE DEPARTMENT

"E.G.S. Pillay Engineering College is a pioneering non-grant Engineering College in the state, established by G.S. Pillay & Sons Charitable & Education Trust, Nagapattinam, in 1995 with the sanction of the Government of Tamil Nadu, approval from the All India Council for Technical Education, New Delhi, and affiliation to Bharathidasan University, Tiruchirappalli. Courses were affiliated to Anna University, Chennai, from 2002 onwards, and degrees have been awarded by Anna University as per government orders. Since 2007, courses have been affiliated with Anna University of Technology, Tiruchirappalli.



The Electrical & Electronics Engineering program was introduced in the academic year 2000-2001 with an initial intake of 40 students, increased to 60 in 2001-2002. The department boasts modern lab facilities equipped with necessary equipment and software meeting ATTCE and Anna University norms, including Measurement and Control System Lab, Basic Electrical and Electronics Engineering Lab, Electrical Lab, Electrical Machine Lab, and Electronics Lab.

The department prides itself on a fine blend of renowned and experienced dynamic faculty members. Since its inception, the department has made sincere efforts in student development through training and industrial visits. Eight batches of electrical engineering students have graduated from the college, with approximately 80% of them successfully placed in various organizations through both on and off-campus placements.

The department also established an association named ZEPRA (Zealous Electric Rasings Association). In addition to the curriculum, students of the EEE department have achieved prizes in co-curricular and extracurricular activities."



I CONGRATULATE THE STUDENTS OF THE EEE DEPARTMENT FOR THE HARD WORK IN SUCCESSFULLY CONDUCTING THE NATIONAL LEVEL SYMPOSIUM I ALSO APPRECIATE THE STUDENTS FOR THE RELEASE OF DEPARTMENTAL NEWSLETTER "E-SPREAD" AND MAGAZINE "E-BREEZE". I WISH THE MEMBERS OF ZEPRA FOR THE SUCCESSFUL PROSPEROUS FUTURE.

Dr. T.Suresh Padmanabhan.

HOD/EEE



VISION AND MISSION OF THE INSTITUTION

VISION OF THE INSTITUTE

Envisioned to transform our institution into a "Global Centre of Academic Excellence"

MISSION OF THE INSTITUTE

- 1. To provide world class education to the students and to bring out their inherent talents
- 2. To establish state-of- the-art facilities and resources required to achieve excellence in teaching-learning, and supplementary processes
- 3. To recruit competent faculty and staff and to provide opportunity to upgrade their knowledge and skills
- 4. To have regular interaction with the Industries in the area of R&D, and offer consultancy, training and testing services
- 5. To establish centers of excellence in the emerging areas of research
- 6. To offer continuing education, and non-formal vocational education programmes that are beneficial to the society

VISION AND MISSION OF THE DEPARTMENT

VISION OF THE DEPARTMENT

The department is envisioned to produce globally competent electrical and electronics engineers

MISSION OF THE DEPARTMENT

M1: To impart the contemporary knowledge in the field of electrical and electronics engineering with high human values

M2: To offer state-of-the-art facilities for conducive learning and conducting research

M3: To prepare the students for professional career and higher education by imparting self-learning and interpersonal skills

Program Educational Objectives (PEOs):

PEO 1

Graduates will excel as engineering professionals and leaders in electrical engineering or becoming an entrepreneur or pursuing higher education.

PEO 2

Graduates will demonstrate core competence to adapt themselves to the constantly evolving technologies and stay in line with industry advancements.

PEO 3

Graduates will collaborate in multidisciplinary fields both as an individual and as a team member with a strong sense of professionalism and ethics.

Program Specific Outcomes (PSOs):

After successful completion of the programme, Graduates will be able to

PSO 1

Design, test and analyse electrical machines and utility systems

PSO 2

Design, develop and test analog and digital electronic circuits and systems

PSO 3

Develop, simulate and analyse the electrical and electronics systems using modern tools



Program Outcomes (POs):

After successful completion of the programme, Graduates will be able to

Program Outcomes

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, 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.
- 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.
- 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 11 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 in independent and lifelong learning in the broadest context of technological change.



Faculty Information

S.No	Name	Degree	Designation	
1.	Dr. Mohan. V	M.E.,Ph.D.,	Professor	
2.	Dr.Suresh Padmanabhan. T	M.E.,Ph.D.,	Professor	
3.	Dr.Thamizharasan . S	M. Tech., Ph.D	Professor	
4.	Dr.Vijayakumar.M	M.E., Ph.D.,	Associate Professor	
5.	Dr. Ganesan@ Subramanian . G	M.E., Ph.D.,	Associate Professor	
6.	Mr.Anandaraj. R	M.E.,(Ph.D.)	Associate Professor	
7.	Dr.Vinothkumar .M	M.E.,Ph.D.	Associate Professor	
8.	Dr. Suresh Babu. P.J	M.E., Ph.D.	Assistant Professor	
9.	Mr. Sivamani. S	M.E., Ph.D.	Assistant Professor	
10.	Mrs. Latha. S	M.E.,(Ph.D.)	Assistant Professor	
11.	Mr.Krishnaram. K	M.Tech, (Ph.D.)	Assistant Professor	
12.	Mr. Nandakumar. K	M.E.,(Ph.D.)	Assistant Professor	
13.	Mr. Amalore Naveen Antony. B	M.E.,(Ph.D.)	Assistant Professor	
14.	Mr Yokeswaran. V	M. Tech.,	Assistant Professor	
15.	Mr Senthilkumar. D	M.E.,	Assistant Professor	
16.	Mrs.Jayasri. J	M.E.,	Assistant Professor	
17.	Mr.Gokul Raj. K	M.E., (Ph.D.)	Assistant Professor	
18.	Mr.Jhagannath. K	M.E., (Ph.D.)	Assistant Professor	
19.	Mrs.Krithiga.G	M.E.,(Ph.D.)	Assistant Professor	



FACULTY INTERACTION/ FACULTY DEVELOPMENT/ TRAINING ACTIVITIES/ STTPS

S.NO	NAME OF THE STAFF	PROGRAM ATTENDED	DATE
1	Dr.Suresh Padmanabhan. T	FDP On intelligent transport system	27Feb-04Mar 2023
2	Dr.Vijayakumar.M	ELECTRIC VEHICLE DRIVE SYSTEM	27Feb-04Mar 2023
3	Dr.Vinothkumar .M	Recent Trends and Innovations in High Voltage Engineering	27Feb-04Mar 2023
4	Mr. Amalore Naveen Antony. B	ELECTRIC VEHICLE DRIVE SYSTEM	27Feb-04Mar 2023
5	Mr Yokeswaran. V	FDP On intelligent transport system	27Feb-04Mar 2023
6	Mr.Gokul Raj. K	ELECTRIC VEHICLE DRIVE SYSTEM	27Feb-04Mar 2023
7	Mr.Jhagannath. K	Recent Trends and Innovations in High Voltage EngineeringEHICLE DRIVE SYSTEM	27Feb-04Mar 2023
8	Mrs.Krithiga.G	Modelling and Simulation of Renewable	24-29Apr 2023
		Energy Systems (MASRES - 2023)	



NPTEL Course Successfully completed student's details

S. No	Reg. No.	Name	Course name	No. of credi ts	Marks secured (%)
1	E20EER003	ARUN.M	Electronic Waste Management-Issues and Challenges	4	65%
2	E20EER008	GOWTHAMAN.M	Electronic Waste Management-Issues and Challenges	4	62 %
3	E20EER014	JENISHA.J	Electronic Waste Management-Issues and Challenges	4	66 %
4	E20EER016	KAVIYARASAN.M	Electronic Waste Management-Issues and Challenges	4	56%
5	E20EER026	PARASURAMAN.P	Electronic Waste Management-Issues and Challenges	4	58%
6	E20EER028	PRADEEP KUMAR.R	Electronic Waste Management-Issues and Challenges	4	54 %
7	E20EER043	VIGNESHWAR.S	Electronic Waste Management-Issues and Challenges	4	54 %
8	E20EER045	YESWANTH.N	Electronic Waste Management-Issues and Challenges	4	58%
9	E20EEL306	GOVINDHARAJAN. M	Electronic Waste Management-Issues and Challenges	4	46 %
10	8208E21EEL 301	AJITHKUMAR K	Electronic Waste Management-Issues and Challenges	4	60%

NPTEL Course Successfully completed faculty details

S. No	Faculty name	Designation	Course name	Marks Secured%
1	JHAGANNATH.K	AP	Electric Vehicles Part-1	54%
2	JHAGANNATH.K	AP	Introduction to Smart Grid	52%





Elite

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



This certificate is awarded to

GOWTHAMAN M

for successfully completing the course

Electronic Waste Management - Issues and Challenges

with a consolidated score of

62

Online Assignments | 22.83/25 | Proctored Exam

39.5/75

Total number of candidates certified in this course: 1168

Jan-Feb 2023 (4 week course) Prof. Debjani Chakraborty



Indian Institute of Technology Kharagpur



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



This certificate is awarded to

JENISHA J

for successfully completing the course

Electronic Waste Management - Issues and Challenges

with a consolidated score of

Online Assignments | 23.83/25 | Proctored Exam

42/75

Total number of candidates certified in this course: 1168

Jan-Feb 2023 (4 week course) Prof. Debjani Chakraborty Coordinator, NPTEL IIT Kharagpur



Indian Institute of Technology Kharagpur

Roll No: NPTEL23CE25S45000266

To validate the certificate







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



This certificate is awarded to

PARASURAMAN

for successfully completing the course

Electronic Waste Management - Issues and Challenges

with a consolidated score of

Online Assignments | 24.42/25 | Proctored Exam

34.01/75

Total number of candidates certified in this course: 1168

Jan-Feb 2023 (4 week course) Prof. Debjani Chakraborty



Indian Institute of Technology Kharagpur





Roll No: NPTEL23CE25S45690126

NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)





This certificate is awarded to

JHAGANNATH K

for successfully completing the course

Introduction to Smart Grid

with a consolidated score of 52 %

Prof. Andrew Thangaraj NPTEL Coordinate



Prof. Dileep N. Malkhede Advisor-I (Research, Institute & Faculty Development)
All India Council for Technical Education

(Jul-Sep 2022)

Duration of NPTEL course: 8 Weeks

Roll No: NPTEL22EE82S14330020

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.

This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.

F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



STUDENT PARTICIPATION IN EVENTS

S.NO	NAME OF THE STUDENT	YEAR	EVENT	EVENT PLACE	DATE
1.	H.Muhammad Bagurudeen	IV	Project contest (First prize)	K.Ramakrishna college of Engineering, Trichy.	20.04.2023
2.	M.Mohamed Abul Fayasudeen	IV	Project contest (First prize)	K.Ramakrishna college of Engineering, Trichy.	20.04.2023
3.	T.Naveeth Ahamed	IV	Project contest (First prize)	K.Ramakrishna college of Engineering, Trichy.	20.04.2023
4.	S.Nagarajan	IV	Project contest (First prize)	K.Ramakrishna college of Engineering, Trichy.	20.04.2023
5.	V.Sriram	Ш	Paper presentation (I prize)	Kings college of Engineering ,Thanjavur	23.09.2022
6.	V.Sriram	III	Project expo (First prize)	Sri Bharathi Engineering college for women	25.04.2023
7.	V.Sriram	III	Paper presentation (II Prize)	Sri Bharathi Engineering college for women	25.04.2023
8.	S.Aakash	II	Technical quiz	Karpagam College of engineering, Coimbatore	28.05.2023
9.	S.Senthamizhan	II	Technical quiz	Karpagam College of engineering, Coimbatore	28.05.2023
10	J.Farmanullah	II	Technical quiz	Karpagam College of engineering, Coimbatore	28.05.2023
11	A.Priyadharshini	II	In-plant Training	Puducherry power corporation limited	02.05.2023 to 06.05.2023
12	S.Keerthana	П	In-plant Training	Puducherry power corporation limited	02.05.2023 to 06.05.2023



13	S.Senthamizhan	II	Training	Infosys springboard	27.05.2023
14	S.Senthamizhan	II	Training	TCS ion	27.05.2023
15	S.Senthamizhan	п	Online Training	The digital adda	14.05.2023
16	S.Senthamizhan	II	Competition	K.S. Rangasamy technical college, Namakkal.	06.05.2023
17	K.S.Janane	IV	Paper presentation	Prince Dr.k.Vasudevan college of Engineering, Chennai	01.05.2023 &02.05.2023
18	A.Priyadharshini	П	Workshop	CADPOINT, Training centre	29.04.2023
19	S.Mohamed Dhilsath Hussain	III	Project expo	K Ramakrishnan College of engineering	20.04.2023
20	S.Nitheesh	III	Project expo	K Ramakrishnan College of engineering	20.04.2023
21	A.Ahamed	III	Project expo	K Ramakrishnan College of engineering	20.04.2023
22	V.Sriram	III	Project expo	K Ramakrishnan College of engineering	20.04.2023
23	S.Nagarajan	IV	Webinar	SRM TRP Engineering college, Tiruchirappalli.	05.04.2023
24	J.Jenisha	III	Webinar	SRM TRP Engineering college, Tiruchirappalli.	05.04.2023
25	S.Senthamizhan	II	Webinar	SRM TRP Engineering college, Tiruchirappalli.	05.04.2023
26	M,Arun	III	Training	SL Lumax,Kanchipuram	28.03.2023 to 29.04.2023
27	S.Aathithyan	III	Training	SL Lumax,Kanchipuram	28.03.2023 to 29.04.2023
28	P.Parasuraman	III	Training	SL Lumax, Kanchipuram	28.03.2023 to 29.04.2023
29	Ranganathan.M	III	Training	SL Lumax,Kanchipuram	28.03.2023 to 29.04.2023



30	Sabaridasan B	III	Training	SL Lumax, Kanchipuram	28.03.2023 to 29.04.2023
31	Muthukumaran.S	III	Training	SL Lumax, Kanchipuram	28.03.2023 to 29.04.2023
32	Vignesh S	Ш	Training	SL Lumax,Kanchipuram	28.03.2023 to 29.04.2023
33	Immanuvelezhilr aj R	III	Training	SL Lumax, Kanchipuram	28.03.2023 to 29.04.2023
34	Yokeshwaran K	III	Training	SL Lumax,Kanchipuram	28.03.2023 to 29.04.2023
35	Rajeshkanna.R	III	Training	SL Lumax,Kanchipuram	28.03.2023 to 29.04.2023
36	Abdul ajis A	III	Training	SL Lumax,Kanchipuram	28.03.2023 to 29.04.2023
37	Aro praveen S	III	Training	SL Lumax, Kanchipuram	28.03.2023 to 29.04.2023
38	Arun kumar R	III	Training	SL Lumax,Kanchipuram	28.03.2023 to 29.04.2023
39	Gowthaman M	III	Training	SL Lumax,Kanchipuram	28.03.2023 to 29.04.2023
40	Harish R	III	Training	SL Lumax, Kanchipuram	28.03.2023 to 29.04.2023
41	Karvinraj M	III	Training	SL Lumax,Kanchipuram	28.03.2023 to 29.04.2023
42	Kuzhanthaivel C	III	Training	SL Lumax,Kanchipuram	28.03.2023 to 29.04.2023
43	Rohith J	III	Training	SL Lumax,Kanchipuram	28.03.2023 to 29.04.2023
44	Sriban P	III	Training	SL Lumax,Kanchipuram	28.03.2023 to 29.04.2023
45	Subash K	III	Training	SL Lumax,Kanchipuram	28.03.2023 to 29.04.2023
46	S.Velusamy	III	Training	SL Lumax, Kanchipuram	28.03.2023 to 29.04.2023



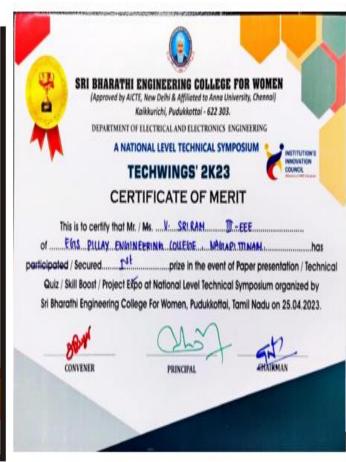
47	S. Vigneshwaran	III	Training	SL Lumax, Kanchipuram	28.03.2023 to 29.04.2023
48	S.Yuvaraj	III	Training	SL Lumax, Kanchipuram	28.03.2023 to 29.04.2023
49	K.S.Janane	IV	Training	NSIC ,Telangana	21.02.2023 to07.03.2023
50	K.Arthi	IV	workshop	National Institute of technology,puducherry	01.03.2023 &02.03.2023
51	R.Rajesh kanna	III	workshop	National Institute of technology,puducherry	01.03.2023 &02.03.2023
52	S.Aakash	II	workshop	National Institute of technology,puducherry	01.03.2023 &02.03.2023
53	P.Harsha	II	workshop	National Institute of technology,puducherry	01.03.2023 &02.03.2023
54	S.Priyabala	II	workshop	National Institute of technology,puducherry	01.03.2023 &02.03.2023
55	K.Jasmine	II	workshop	National Institute of technology,puducherry	01.03.2023 &02.03.2023
56	A.Priyadharshini	II	Workshop	National Institute of technology,puducherry	01.03.2023 &02.03.2023
57	M,Devadharshini	II	Workshop	National Institute of technology,puducherry	01.03.2023 &02.03.2023
58	S.Senthamizhan	II	Workshop	National Institute of technology,puducherry	01.03.2023 &02.03.2023
59	S.Aakash	II	Technical event	KPR Institute of Engineering and technology, Coimbatore	16.02.2023 &17.02.2023
60	V,Sriram	III	Technical event	KPR Institute of Engineering and technology, Coimbatore	16.02.2023 &17.02.2023
61	M.Arun	III	Technical event	KPR Institute of Engineering and technology, Coimbatore	16.02.2023 &17.02.2023
62	M.Gowthaman	III	Technical event	Karpagam college of engineering, coimbatore	17.02.2023 & 18.02.2023



63	S.Senthamizhan	II	Workshop	National Institute of technology,puducherry	13.02.2023 to 17.02.2023
64	Duraimurugan	IV	Workshop	National Institute of technology,puducherry	13.02.2023 to 17.02.2023
65	J.Jenisha	III	Workshop	National Institute of technology,puducherry	13.02.2023 to 17.02.2023
66	V.Dharaniya	III	Workshop	National Institute of technology,puducherry	13.02.2023 to 17.02.2023
67	K.Subash	III	Workshop	National Institute of technology,puducherry	13.02.2023 to 17.02.2023
68	N.Yeshwanth	III	Workshop	National Institute of technology,puducherry	13.02.2023 to 17.02.2023
69	S.Keerthana	II	Training	Villianur Auto Sub station Puducherry.	10.01.2023 to 14.01.2023













VOL-17

LIST OF STAFF PUBLICATION

S.No	Title of paper	Name of journal	Name of the author/s	Volume, Issue & article no	ISSN number	Year of publication	Is it listed in UGC Care list/Scopus/Web of Science/other, mention	Impact factor	H index	doi	citation
1	A brief review of the development path of artificial intelligence and its subfields	International Journal of Engineering Technologies and Management Research	Krithiga G , <mark>Mohan V,</mark> Senthilkumar S	Vol.10, no.6,	2454-1907	2023	Google Scholar	-	-	https://doi.org/10.29121/i jetmr.v10.i6.2023	1
2	An efficient optimized mppt for pv system under extremely fast changing irradiance – hybrid honey badger optimizer	International Journal of Research - GRANTHAALAY AH	B. Lakshanya Sri, <mark>V. Mohan,</mark> S. Senthilkumar	Vol.11, no.5,	2350-0530, 2394-3629	2023	Google Scholar	-	-	https://doi.org/10.29121/g ranthaalayah.v11.i5.2023. 5161	2

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