



VOL - 16
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E-SPREAD

DEPARTMENT NEWS LETTER

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.



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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



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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):

B.E – Electrical and Electronics Engineering programme intents

PEO 1

To prepare graduates to have successful career in electrical engineering or any other related discipline.

PEO 2

To build competence to comprehend, analyse, design and create products and systems.

PEO 3

To develop ability to work in multidisciplinary fields both as an individual or a leader in a team with the 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

- 1 fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem analysis: Identify, formulate, research literature, and analyze complex

- 2 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

- 3 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

- 4 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

- 5 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

- 6 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

- 7 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.

- 8 **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

- 10 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.

Life-long learning: Recognize the need for, and have the preparation and ability to engage

- 12 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. Mohan . V	Machine Learning IoT and Machine Learning Application to Engineering System .	7 - 11 Dec. 2022. 21-25 Nov 2022
2	Dr.Suresh Padmanabhan. T	Emerging Smart Technologies IoT and Machine Learning Application to Engineering System .	28-29 Sep 2022 21-25 Nov 2022
3	Mr. Sivamani. S	Recent Trends and Innovations in High Voltage Engineering	27Mar-1Apr 2022
4	Mr Yokeswaran. V	Machine Learning	7 - 11 Dec. 2022.

NPTEL Course Successfully completed student's details

S. No	Reg. No.	Name	Course name	No. of credits	Marks secured (%)
1	E19EER038	Ragunathan G	Robotics	2	64%
2	E20EER006	Dharaniya.V	Developing soft skill and personality	2	63%



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Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

DHARANIYA V

for successfully completing the course

Developing Soft Skills and Personality

with a consolidated score of **63** %

Online Assignments	22.17/25	Proctored Exam	40.88/75
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Total number of candidates certified in this course: **9572**

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jul-Sep 2022

(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL22HS77S14330010

To validate the certificate



No. of credits recommended: 2 or 3

STUDENT PARTICIPATION IN EVENTS

S.NO	NAME OF THE STUDENT	YEAR	EVENT	EVENT PLACE	DATE
1.	K.Yokeshwaran	III	Workshop	SASTRA University, Thanjavur	7.11.2022 to 8.11.2022
2.	S.Aarthi	IV	Training	Ally tech, Tiruchirappalli	03.11.2022 to 17.11.2022
3.	K.S.Janane	IV	Training	Ally tech, Tiruchirappalli	03.11.2022 to 17.11.2022
4.	M.Sharmila	IV	Training	Ally tech, Tiruchirappalli	03.11.2022 to 17.11.2022
5.	M.Keerthana	IV	Training	Ally tech, Tiruchirappalli	03.11.2022 to 17.11.2022
6.	R,Rajesh kanna	III	Training	Pantech pro labs India pvt ltd.	14.11.2022 to 10.12.2022



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7.	J.Jenisha	III	Workshop	Kings college of Engineering ,Thanjavur	04.11.2022
8.	R.Jasmine	II	Online Training	Scalar data science	08.10.2022
9.	J.Jenisha	III	Online Training	Europe Academy	20.10.2022
10.	M.Govinharajan	III	Mono act	Paavai Engineering college,Namakkal	20.10.2022
11.	R.Dinesh kumar	IV	Online training	National power training institute,Alappuzha,Kerala	19.10.2022
12.	N.Niyasudeen	IV	Online training	National power training institute,Alappuzha,Kerala	19.10.2022
13.	M.Duraimurugan	IV	Online training	National power training institute,Alappuzha,Kerala	19.10.2022
14.	K.Vigneshwaravelan	III	Mono act	Paavai Engineering college,Namakkal	20.10.2022
15.	V.Ashok	III	Mono act	Paavai Engineering college,Namakkal	20.10.2022
16.	V.Sriram	III	Paper presentation	Paavai Engineering college,Namakkal	20.10.2022
17.	V.Sriram	III	Project expo	Paavai Engineering college,Namakkal	21.10.2022
18.	S.Senthamizhan	II	Paper presentation	MRK Institute of Technology,Cuddalore	27.10.2022
19.	S.Sundhar	II	Paper presentation	MRK Institute of Technology,Cuddalore	27.10.2022
20.	S.Senthamizhan	II	Technical quiz	MRK Institute of Technology,Cuddalore	27.10.2022
21.	S.Senthamizhan	II	Paper presentation	MRK Institute of Technology,Cuddalore	27.10.2022
22.	S.Sundhar	II	Technical quiz	MRK Institute of Technology,Cuddalore	27.10.2022
23.	S.Senthamizhan	II	Technical quiz	MRK Institute of Technology,Cuddalore institute	27.10.2022
24.	S.Naveen kumar	III	Workshop	Karpagam college of Engineering,Coimbatore	27.10.2022
25.	R.Jasmine	II	Technical event	Arifa Institute of technology,Esanoor	28.10.2022
26.	A.Priyadharshini	II	Technical event	Arifa Institute of technology,Esanoor	28.10.2022



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27.	K.Yokeshwaran	III	Workshop	Karpagam college of Engineering	27.10.2022
28.	J.Jenisha	III	Online course	EDUCBA	23.10.2022
29.	J.Jenisha	III	Online course	EDUONIX	8.10.2022
30.	Aathinathan .G	III	Paper presentation	Kings college of Engineering ,Thanjavur	23.09.2022
31.	A.Priyadharshini	II	Online training	Microsoft certification programs	07.09.2022

22 YEARS
Of Academic excellence

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IEEE
MADRAS SECTION
STB16621

Certificate

This is to certify that JASMINE . R₁ from E.G.S PILLAY ENGINEERING COLLEGE has participated/won — Prize in the event of Paper Presentation titled BRAIN-COMPUTER INTERFACED WHEELCHAIR USING ARDUINO. in National Level Technical Symposium 'ENIGMA 2K22' organised by the Department of Electrical and Electronics Engineering, Kings College of Engineering, Punalkulam, Pudukkottai(Dt), held on 23.09.2022.

1. *[Signature]*
23/9/22

2. *[Signature]*
CO-ORDINATORS

Mr.R.SUNDARAMOORTHY, AP/EEE
Mr.J.AROKIARAJ, AP/EEE

[Signature]
23/9/22
CONVENER

Dr.A.ALBERT MARTIN RUBAN
HoD/EEE

[Signature]
PATRON

Dr.J.ARPUTHA VIJAYA SELVI
PRINCIPAL



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	Application of Flower Pollination Algorithm for Solving Complex Large-Scale Power System Restoration Problem Using PDFF Controllers	HindawiComplexity	G. Ganesan Subramanian, Albert Alexander Stonier, Geno Peter, Vivekananda Ganji	Volume 2022, Article ID 7157524,	1076-2787	2022	scopus & Web of science	2.833	79	https://doi.org/10.1155/2022/7157524	3
2	Planning and Optimization of Energy Scheduling in Cohesive Renewable Energy Microgrid to Meet Electric Load Demand of an Educational Institution	Journal of electrical engineering & Technology	G.Jaya bharathi, T.Suresh Padmanabhan	Vol.17,	19750102	2022	Scopus	2.42	34	10.1007/s42835-022-01138-8	2



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5	Elimination of Harmonics in Multilevel Inverter Using Multi-Group Marine Predator Algorithm-Based Enhanced RNN	International Transactions on Electrical Energy Systems	G. Krithiga V. Mohan	ISSN (Online): 2050-7038	2022	SCI	IF: 2.639		15
6	A novel neural network model for shrimp segmentation to detect white spot syndrome	Journal of Intelligent & Fuzzy Systems	Ramachandran Lakshmanan, Mohan Veerasingam	ISSN: 1064-1246 (print), 1875-8967 (online)	2022	SCI	IF: 1.737	DOI:10.3233/JIFS-220172	6

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