



E-SPREAD



E² CALONICS 25

ZEPRA
2025



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

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):

B.E – Electrical and Electronics Engineering programme intents

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 field both as 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

MESSAGE FROM HOD



Dr.P.J.SURESH BABU M.E.,Ph.D., HoD/ EEE

"I congratulate the students of the EEE Department for their hard work in organizing the International Level Symposium successfully. It's a great achievement, and their efforts are truly appreciated. I also want to recognize the students releasing the department magazine, '*E-Spread*' 25, which shows their creativity and teamwork. I wish all the members of 'ZEPRA' for a successful and bright career."

MESSAGE FROM ASST. HOD



**Dr.S.SIVAMANI M.E., Ph. D.,
ASSISTANT HOD/ EEE**

I feel proud that our department is organizing an International Level Technical Symposium, *E2 Calonics' 25*, on 2nd March 2025. This event will bring together young tech enthusiasts around the world to discuss innovative concepts in humanizing technology. As science and technology are evolving rapidly, it is crucial to stay updated and adopt an interdisciplinary approach. To enhance employability and ensure a successful future, students should focus on multi-skilled and application-oriented education. The symposium will serve as an excellent platform for sharing ideas, and the slogan “Think and Link; Link and Think” which emphasizes the importance of interdisciplinary research in advancing the humanity. I congratulate the organizers as well as the participants, faculty members and everyone who involved in this event. I wish *E2 Calonics' 25* a great success.”

SPOTLIGHT

ISRO PROPULSION COMPLEX (IPRC) MAHENDRAGIRI



Our students had a valuable internship at ISRO Propulsion Complex, Mahendragiri. They gained hands-on experience with advanced electrical systems used in space propulsion and launch vehicles. The program provided exposure to power electronics, control systems, and instrumentation critical to mission success. Working alongside ISRO experts, students developed practical skills in circuit design, testing, and troubleshooting. This internship bridged theoretical knowledge with real-world applications, inspiring innovation and technical excellence in electrical engineering.

OIL AND NATURAL GAS CORPORATION LTD KARIKAL

24/01/2025 to 07/02/2025



Our students successfully completed an internship at ONGC, Karaikal, gaining practical knowledge in oil and gas exploration, industrial safety and modern energy technologies. The hands-on experience enhanced their technical and professional skills, bridging the gap between classroom learning and industry practices. The program was well-coordinated by our Boys and Girls Coordinator, Mr. K. Gokul Raj, whose support made the internship both valuable and memorable.

IBM STUDENT SKILL DEVELOPMENT PROGRAM



Our students participated in the IBM Student Development Program held at EGS Pillay Engineering College. The program provided a valuable platform to enhance technical skills and industry knowledge focusing on emerging technologies, software development and problem-solving techniques. Through interactive workshops and project-based learning, students gained hands-on experience that boosted their innovation, teamwork and professional preparedness. This program enriched their academic foundation and equipped them to confidently face challenges in the IT industry.

WEBINAR ON HIGH SPEED ROTATORY MACHINE



The Department of Electrical and Electronics Engineering, in collaboration with the Green Energy Guardians Club at EGS Pillay Engineering College, organized an expert-led webinar on High-Speed Rotary Machines. The session was conducted by Mr. S. Arulnathan, Foreman at IOCL, provided students with comprehensive insights into the design, operation, and critical applications of rotary machines in modern industry, emphasizing efficiency and sustainable energy utilization.

ALUMINI CONCLAVE



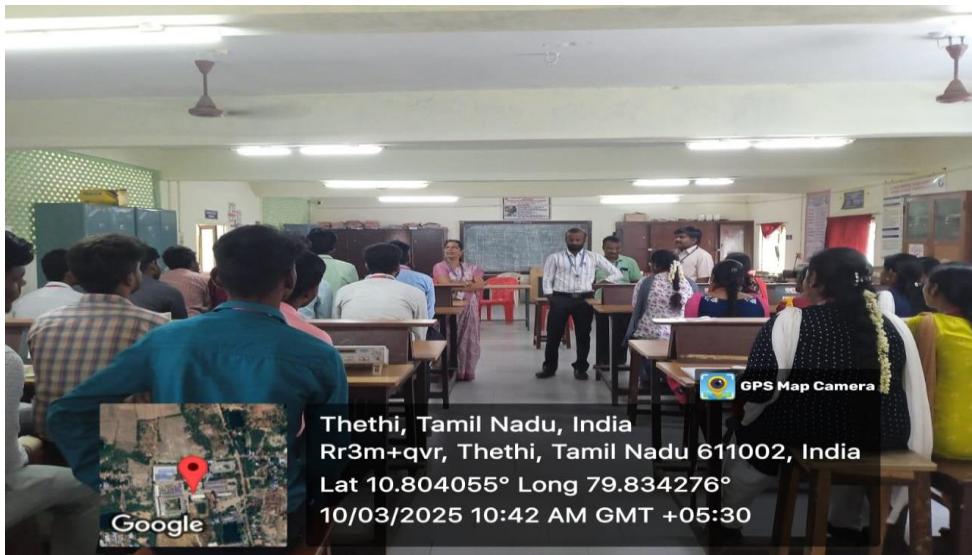
EGS Pillay Engineering College hosted an inspiring Alumni Conclave, featuring Mr. S. Marieswaran, Proprietor of SMRV Exports, Thiruvarur. The event brought together past and present students to share experiences, achievements, and industry insights. It served as a valuable platform for networking, mentorship, and motivation, empowering current students to learn from alumni journeys and strive for professional excellence.

INDUSTRY INTERACTION PROGRAM



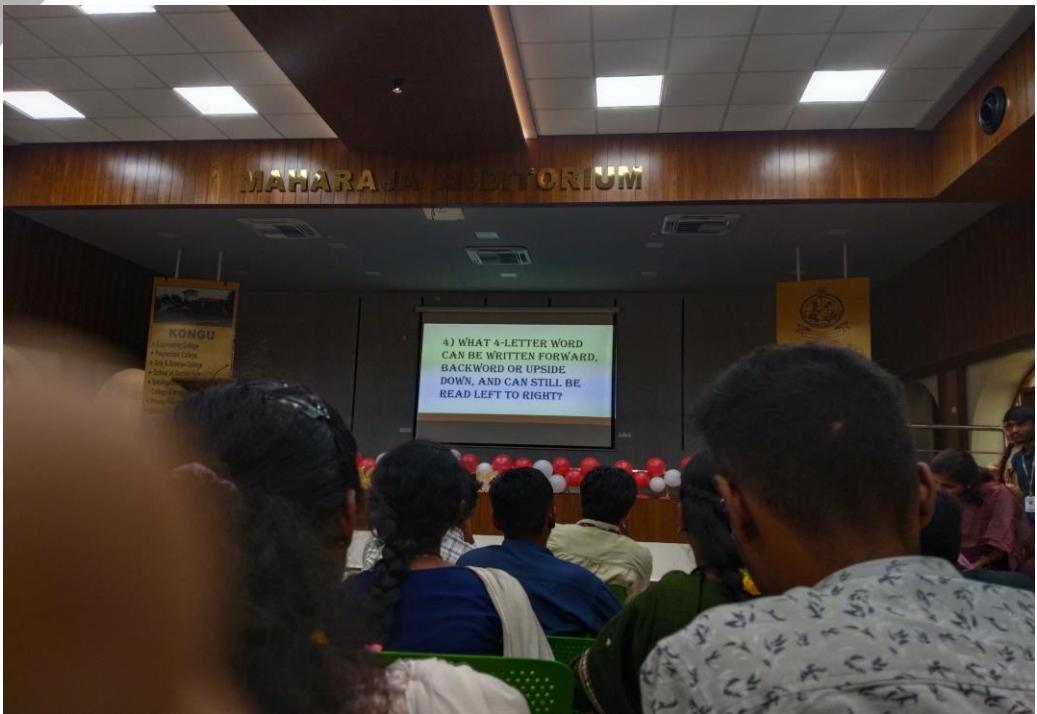
EGS Pillay Engineering College organized an Industry Interaction Program featuring Mr. Er. Kannan, Junior Engineer at TANTRANSCO. The session provided students with valuable insights into current industry trends, practical applications, and career guidance, helping bridge the gap between academic learning and professional requirements.

HANDS ON TRAINING ON ELECTRONICS HOME APPLIANCES



The EEE and ECE departments of EGS Pillay Engineering College organized a Hands-on Training session on Electronics Home Appliances. This program provided students with practical experience in repairing, maintaining and understanding the operation of common household electronic devices. The training enhanced their technical skills and applied knowledge, effectively bridging the gap between theoretical concepts and real-world applications.

KONGU ENGINEERING COLLEGE



Three of our 3rd year students participated in the Paper Presentation and Project Expo, ACCUMEN'25, held at Kongu Engineering College. The event offered a platform to showcase innovative ideas, technical projects and research work, fostering creativity, practical learning and knowledge sharing among engineering students.

AVC ENGINEERING COLLEGE

MYLADUTHURAI



Our students participated in the Paper Presentation event at TECHNATHIR'S T'25 held at AVC Engineering College, Mayiladuthurai. The event provided an excellent platform to showcase innovative ideas, enhance technical knowledge and engage in healthy competition with peers from other institutions.

CODE TO CIRCUIT EVENT



On 18/03/2025, the Green Energy Guardians Club of EGS Pillay Engineering College organized an event on Code to Circuit, enabling students to convert their coding projects into functional electronic circuits. This hands-on program enhanced their practical skills and deepened their understanding of electronics and embedded systems.

SDG STUDENTS SYMPOSIUM



The EEE and Mechanical departments of EGS Pillay Engineering College hosted the SDG Students Symposium, providing a platform for students to present projects aligned with the Sustainable Development Goals. The event promoted innovation, technical learning and awareness of sustainable practices, inspiring students to contribute to global sustainability.

PROJECT EXPO MAKE'A'THON'25



Our students participated in the Project Expo MAKE'A'THON'25 held at M. Kumarasamy Engineering College, Karur on 24/03/2025. The event provided an excellent platform to showcase innovative projects, encourage creativity and gain practical insights through interactions with peers and experts from various institutions.

MEP ELECTRICAL DESIGN

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)
NAGAPATTINAM-611002
Accredited by NBA (TIER-1) & NAAC with Grade "A++"

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
in association with
GREEN ENERGY GUARDIANS CLUB
Organizing Webinar on
MEP ELECTRICAL DESIGN

Date: 22/03/2025
Time: 11.00AM-1.00PM

Resource Person
Mr. RISHIKESAN CHITRARASAN
Aghora Group of Institutions

Student Coordinators
R. Jasmine
S. Siva Santhosh

Event Coordinators
Mr.P.G.Raghavendran
Dr.T.Suresh Padmanabhan

HOD/EEE
Dr. P.J.Suresh Babu

The Green Energy Guardian's Club of EEE department organized the MEP Electrical Design event on 22/03/2025. The program provided students with a platform to develop and showcase practical skills in electrical system design, fostering innovation, technical learning and hands-on experience in engineering applications.

MATLAB WORKSHOP

E.G.S. Pillay Engineering College
(AUTONOMOUS)



Department of ECE, EEE, BME &
AIDS

Three Days Workshop on
MATLAB

MATLAB for the Future: Bridging
Technology and Innovation
(24.03.2025 to 26.03.2025)



MATLAB Workshop

Relevant for: Engineering Students, Faculty
Members, Research Scholars and those
interested in MATLAB Fundamentals,
Image Processing, Computer Vision,
Machine Learning and Deep Learning.

Beneficiaries: ECE, EEE, BME &
AIDS.

Agenda:

Day 1- March 24, 2025

- ❖ 9:30 AM - 11:00 AM: Introduction to AI
- ❖ 11:15 AM - 12:30 PM: Machine Learning Essentials
- ❖ 2:00PM - 2:30 PM: Deep Learning Primer
- ❖ 2:45 PM - 4:00 PM: MATLAB for Biomedical Engineers

Day 2- March 25, 2025

- ❖ 9:30 AM - 11:00 AM: Model Base Design Approach
- ❖ 11:15 AM - 12:30 PM: Applied Electronics With MATLAB
- ❖ 2:00 PM - 2:30 PM: Sensor Synergy
- ❖ 2:45 PM - 4:00 PM: IIOT

Day 3- March 26, 2025

- ❖ 9:30 AM - 11:00 AM: Exploring Electric Vehicles
- ❖ 11:15 AM - 12:30 PM: Modeling Electric Vehicles
- ❖ 2:00 PM - 2:30 PM: Battery Modelling
- ❖ 2:45 PM - 4:00 PM: Futuristics trends, valedictory ,Feedback and Networking & Quiz

Prerequisites:

- ❖ Prior knowledge of basic computer operation.
- ❖ Gmail ID is required.
- ❖ Core fundamentals knowledge is required.

Required for Onramp Sessions:-

- ❖ Good internet connection with Computer.
- ❖ Earphone (Individual for each participants).

Outcome:-

After attending this workshop, attendees should be able to:

- ❖ Understand MATLAB and Simulink fundamentals for Engineering Applications.
- ❖ Understand at a high-level, the terminology used in AI – Machine Learning, and Deep Learning.
- ❖ Learn how to apply MATLAB for model based approach.
- ❖ Be aware of all the tools from the MATLAB that help in exploring Electric vehicle, drone technology, IoT and cloud based approaches.

Presenter Name:

- ❖ Er.GowthamRajmohan,
Sr.Application Engineer-MATLAB,
ARK Infosolutions Pvt Ltd, Chennai
- ❖ Er.Afsal, Sr.Application Engineer-
MATLAB, ARK Infosolutions Pvt Ltd, Chennai
- ❖ Er. Karthikeyan, Sr.Application
Engineer- MATLAB, ARK
Infosolutions PvtLtd, Chennai

Er. Gowtham Rajmohan, Sr.Application Engineer-
MATLAB, ARK Infosolutions PvtLtd, Chennai



Er. Afsal, Sr.Application Engineer- MATLAB,
ARK Infosolutions PvtLtd, Chennai



Er. Karthikeyan, Sr.Application Engineer-
MATLAB, ARK Infosolutions PvtLtd, Chennai



CO-ORDINATORS:

1. Dr. C. Mathuvanesan, AP/ECE
 2. Mrs. S. Latha, AP/EEE
 3. Dr. R. Venkatesan, AP/BME
 4. Mr. R. Gobinath, AP/AIDS
- For Contact:**
Dr. M. Nuthal Srinivasan, ASP/ECE
HoD/ME(CS)9597077499, 8667639505
nuthal@egspec.org, pghodes@egspec.org

The EEE and ECE Departments conducted a MATLAB Workshop from 24/03/2025 to 26/03/2025, offering students hands-on training in simulation, modeling and problem-solving using MATLAB. The workshop enhanced their technical skills, practical understanding and ability to apply theoretical knowledge to real-world engineering challenges.

HANDS ON TRAINING



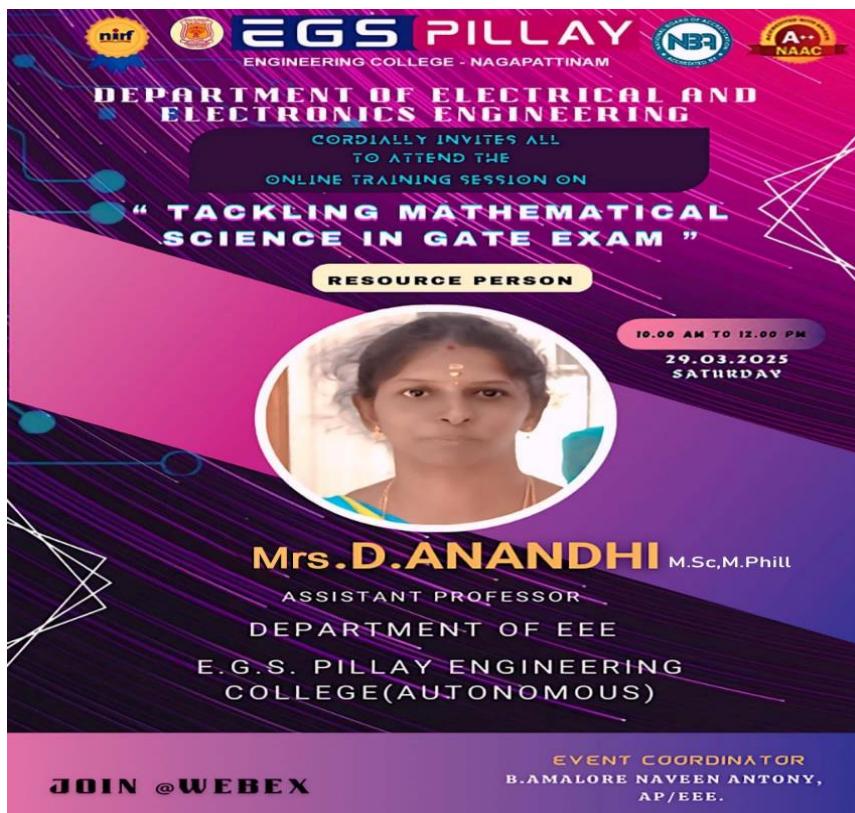
The EEE and Mechanical departments jointly organized a Hands-on Training session on 25/03/2025, providing students with practical experience in applying engineering concepts to real-world problems. The program enhanced technical skills, problem-solving abilities and understanding of interdisciplinary applications in engineering. The session was led by resource persons Ms. N. Ramya, Technical Tutor and Mr. R. Ramanan, Project Associate, who shared their expertise and guided the students throughout the training.

PAPER PRESENTATION ELECTROSWAGGERS 2K25



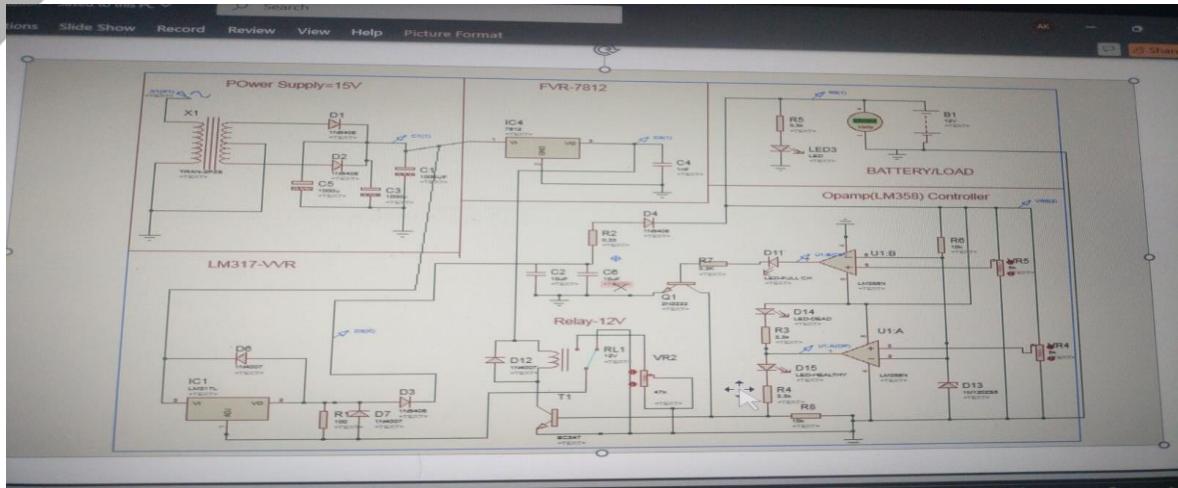
On 28/03/2025, our student Dharasan participated in the Paper Presentation event held at PGP College of Engineering, Karur. The event provided a platform to showcase innovative ideas, share research work and enhance technical knowledge through interaction with peers and experts from other institutions. The experience helped Dharasan to gain confidence and broaden his understanding of current technological advancements.

TRACKING MATHAMATICAL SCIENCE IN GATE



The EEE Department of EGS Pillay Engineering College organized a session on Tracking Mathematical Science in GATE on 29/03/2025, providing students guidance on mastering key mathematical concepts for GATE preparation. The session enhanced problem solving skills, exam strategy, and technical understanding, helping students align their knowledge with competitive exam requirements. The session was conducted by Mrs. D. Anandhi, Assistant Professor of Mathematics, who shared valuable insights and strategies with the students.

WEBINAR (POWER ELECTRONICS)



The EEE Department of EGS Pillay Engineering College conducted a webinar on Power Electronics on 03/04/2025. Mr. S.V. Seeraj, Director – Technical & Operations at EmCog Solutions Pvt. Ltd, Chennai, shared insights on principles, applications and recent developments in power electronics, enhancing students' technical knowledge and practical understanding.

NATIONAL LEVEL WEBINAR

CONTROL PANEL DESIGN USING

LABVIEW



This is to certify that Mr. DHARSHAN P,
has participated in the National level webinar on
"Control Panel Design Using LABVIEW" held on 04.04.2025
Organized by the Department of Electrical and Electronics Engineering,
E.G.S. Pillay Engineering College, Nagapattinam.

Dr.M.VINOTH KUMAR
Associate professor / EEE

Mr.P.G.RAGHAVENDRAN
Assistant Professor / EEE

Dr.P.J.SURESH BABU
HOD / EEE



This is to certify that Ms. SATHIYASANGARI P,
has participated in the National level webinar on
"Control Panel Design Using LABVIEW" held on 04.04.2025
Organized by the Department of Electrical and Electronics Engineering,
E.G.S. Pillay Engineering College, Nagapattinam.

Dr.M.VINOTH KUMAR
Associate professor / EEE

Mr.P.G.RAGHAVENDRAN
Assistant Professor / EEE

Dr.P.J.SURESH BABU
HOD / EEE

The EEE Department of EGS Pillay Engineering College hosted a national webinar on Control Panel Design using LABVIEW on 04/04/2025. Mrs. Salom Jerlin, Managing Director of Hitakey Tech Solutions Pvt. Ltd, Trichy, consented to be the guest speaker and shared her valuable insights on advanced electrical design and automation techniques.

NEXT ZEN TECH TALK



The GREEN ENERGY GUARDIAN'S CLUB of the Department of EEE, successfully conducted an offline event on "Next gen tech talk" on 9th September 2025. The session was expertly led by our esteemed coordinators Mathesh Kanna R and Haridharan A . The session was interactive, informative and greatly influenced the participants. With the enthusiastic participation of around 30 students, this event proved to be a valuable learning experience for everyone involved.

ANNA UNIVERSITY ZONE'15 VOLLEYBALL



Congratulations to Our E.G.S.Pillay Engineering College Volleyball Men Team who have emerged As Anna University Zone 15 Volleyball men team winners



ANNA UNIVERSITY ZONE'15 CRICKET



Congratulations to our E.G.S.Pillay Engineering College Cricket Men Team who have emerged as “Anna University Zone 15” men team winners 🏆 as a part of the team our department final year students Kalaiyarasan and third year student Shyam Ganesh congratulations to them 🌸

CELEBRATION OF AYUTHA POOJA WITH DJ EVENT



The Ayudha Pooja celebration on 30th September 2025 was marked with devotion and joy at E.G.S.Pillay Engineering College. The day began with a traditional pooja honoring tools and instruments, followed by a lively DJ night that brought everyone to the dance floor. The event beautifully blended culture and celebration, showcasing unity, enthusiasm, and festive spirit among students and staff.

NPTL FINISHING CERTIFICATION



GATE APPEARANCE



Application Form
GRADUATE APTITUDE TEST IN ENGINEERING 2026
अभियांत्रिकी स्नातक अभियोग्यता परीक्षा 2026
Organizing Institute : INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI



Zone/Scrutiny Code 7GE G372G65 (Enrollment ID)	 G372G65	 R. Janani										
JANANI R. (Full Name of the Applicant)												
11 Jan 2005 (D.O.B) Female (Gender) Indian National +91-9384966124 (Parent/Guardian's Mobile Number)		GEN (Category) M RAVI (Parent/Guardian's Name)										
Communication Address 3/26A, EAST STREET, MUDI, THIRUCHAMPALLI Mayiladuthurai Tamil Nadu 609309 +91-8438185158 (Mobile No.) ravianani988@gmail.com												
GATE Exam Details GATE Paper Code EE (Electrical Engineering)												
Qualification Details B. E. Electrical & Electronics Engg. Graduated: No; Year of Graduation: 2026 E.G.S. PILLAY ENGINEERING COLLEGE Nagapattinam, Nagapattinam Tamil Nadu 611001												
Zonal GATE Office Contact GATE Office Indian Institute of Technology Madras Chennai 600036 gate@iitm.ac.in, 044-22578200												
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Zone/Scrutiny Code 7GE G105F20 (Enrollment ID)	 G105F20	 M. Mohana										
MOHANA ROUBHAN M. (Full Name of the Applicant)												
27 Aug 2005 (D.O.B) Male (Gender) Indian National +91-9486767187 (Parent/Guardian's Mobile Number)		GEN (Category) MAHESWARI M (Parent/Guardian's Name)										
Communication Address No.14, Nala Nagar, Nalan Kulam ,Via, Thirunallar KARAikal Puducherry 609602 +91-9361107571 (Mobile No.) mohanaroubhan214@gmail.com												
GATE Exam Details GATE Paper Code EE (Electrical Engineering)												
Qualification Details B. E. Electrical & Electronics Engg. Graduated: No; Year of Graduation: 2026 EGS Pillay Engineering College Nagapattinam, Nagapattinam Tamil Nadu 611001												
Zonal GATE Office Contact GATE Office Indian Institute of Technology Madras Chennai 600036 gate@iitm.ac.in, 044-22578200												
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E.G.S.PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

ACCREDITED BY NAAC WITH GRADE 'A++'

OLD NAGORE ROAD, THETHI, NAGAPATTINAM-611002



ENGINEERING COURSES UG COURSES

- B.E.CIVIL ENGINEERING
- B.E.MECHANICAL ENGINEERING
- B.E.ELECTRICAL & ELECTRONICS ENGINEERING
- B.E.ELECTRONICS & COMMUNICATION ENGINEERING
- B.E.COMPUTER SCIENCE & ENGINEERING
- B.TECH INFORMATION TECHNOLOGY
- B.E - BIO-MEDICAL ENGINEERING
- B.TECH - ARTIFICAL INTELLIGENCE AND DATA SCIENCE
- B.TECH - COMPUTER SCIENCE & BUSINESS SYSTEM



PG COURSES

- M.B.A.MASTER OF BUSINESS ADMINISTRATION
- M.C.A.MASTER OF COMPUTER APPLICATION
- M.E.MANUFACTURING ENGINEERING
- M.E.COMPUTER SCIENCE ENGINEERING
- M.E.POWER ELECTRONICS & DRIVES
- M.E.COMMUNICATION SYSTEM
- M.E.ENVIRONMENTAL ENGINEERING

PH.D

RESEARCH COURSES

