NEWS LETTER

Volume 12 Issue 2 May 2025

GNAN ELECTRA TIMES

Department of Electrical and Electronics Engineering

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Gnanamani College of Technology

(An Autonomous Institution)

Accredited by NAAC 'A' Grade and NBA

NH-7, A.K.Samuthiram,

Pachal-PO, Namakkal-637 018, Tamil Nadu.

www.gct.org.in

GNYANAMANI EDUCATIONAL INSTITUTIONS

Gnyanamani Educational Institutions that have carved a niche for itself in the field of engineering education within a very short span of time. Gnanamani College of Technology which was established in the year 2006, the group comprises of Gnanamani College of Education, established in the year 2005.

Gnanodaya CBSE International School was established in the year 2015. These Institutions serve under the aegis of The Christian Educational Development Trust.

Gnyanamani Educational Institutions were established in a well-planned campus with a green environment. The Colleges are spread on a sprawling 60 acres of serene land. The Colleges are easily accessible from all major cities by road and railway networks.

These Institutions have emerged as a pioneer venture in the field of Technical Education. Dr.T.Arangannal – a Rashtria Vidhya Saraswathi Puraskar Awardee is the Chairman and Mrs.P.Malaleena is the Chairperson of the Educational Institutions.

GNANAMANI COLLEGE OF TECHNOLOGY

Gnanamani College of Technology is a leading Institution with state-of-the-art facility. The college is affiliated to Anna University and Autonomous approved by AICTE.

The institution is rendering noble service to the youths in rural and urban areas.

The college is accredited by the NAAC and NBA (CSE, ECE, EEE, and Mechanical). The college has grown in a short span of 15 years with 12 UG Courses namely Agricultural, Artificial Intelligence and Data Science, Bio-Medical, Biotechnology, Chemical, Computer Science, Electrical and Electronics, Electronics and Communication, Food Technology, Mechanical, Information Technology and Pharmaceutical Technology.

The Institute also offers 9 PG courses in Computer Science, Construction Engineering and Management, Environmental Engineering, Embedded System Technology, Power Electronics and Drives, Industrial Engineering, VLSI Design, BME, MBA and MCA.

INSTITUTE VISION

- Emerging as a technical institution of high standard and excellence to produce quality Engineers, Researchers, Administrators and Entrepreneurs with ethical and moral values to contribute the sustainable development of the society.

INSTITUTE MISSION

We facilitate our students

- To have in-depth domain knowledge with analytical and practical skills in cutting edge technologies by imparting quality technical education.
- To be industry ready and multi-skilled personalities to transfer technology to industries and rural areas by creating interests among students in Research and Development and Entrepreneurship.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

The Electrical and Electronics Engineering Department was started in the year 2006 and accredited by NBA in 2019. It offers B.E. with 60 student intake, M.E. – PED, M.E.—EST and Ph.D.in Full time and Part time modes. The department has 12 Curriculum Laboratories and 2 Industry supported labs providing 8 Value added courses and a Centre of Excellence – IOT Laboratory. Anna University recognized Research & Development Centre with 2 Ph.D., Supervisors and 4 Doctorates is fully functioning in the department since 2015. The faculty of the department have published more than 190+ reputed journal publications, 4 Patents and have received a project grant of 15 Lakh. The Department has 2 Professional Societies namely ISTE and IEI.

The Department of Electrical and Electronics Engineering (EEE) is committed to excellence in teaching, learning, research, and innovation. The department offers a strong academic foundation combined with practical exposure in emerging areas such as power systems, power electronics, electric vehicles, renewable energy, control systems, embedded systems, IoT, and VLSI. With well-qualified faculty, modern laboratories, and industry interaction, the department strives to produce competent engineers with professional ethics and social responsibility.

VISION

- Providing quality education for the sustainable development in the field of Electrical and Electronics Engineering to meet the global standards and to produce socially responsible engineers with ethical and moral values.

MISSION

- Imparting the quality technical education through state of the art infrastructure and modern tools.
- Making the students as professionals with ethical values, economical, ecological and social upliftment.
- Extending the sustainable knowledge through research and entrepreneurship for the benefits of humanities.

PROGRAM EDUCATIONAL OBJECTIVES

Graduates of Electrical and Electronics Engineering will

PEO-1: Have strong foundation in mathematics, science, and engineering fundamentals and advanced concepts towards their successful career in industries, research and entrepreneur.

PEO-2: Analyze, design and implement various electrical, electronics and interdisciplinary projects, addressing the industrial and social needs.

PEO-3: Have effective communication and leadership skills with ethical values.

PROGRAM SPECIFIC OUTCOMES

Graduates of the program will be able to

PSO-1: Attain in-depth knowledge and design skills in Electrical Power Systems, Electrical Drives, Power Electronics and Control, Electronics and Digital Electronics.

PSO-2: Acquire specialized skills in Solar Power Applications, High Voltage Engineering and competency for competitive examinations.

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, review 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.

Ethics:
Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

A Individual and team work:
Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.

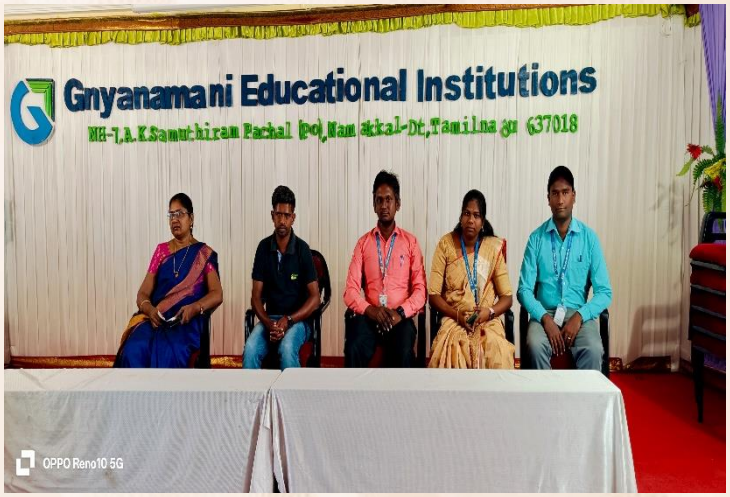
Communication:
Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Project management and finance:
Demonstrate knowledge and understanding of the 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 in independent and life-long learning in the broadest context of technological change.

PROGRAM ORGANIZED BY DEPARTMENT

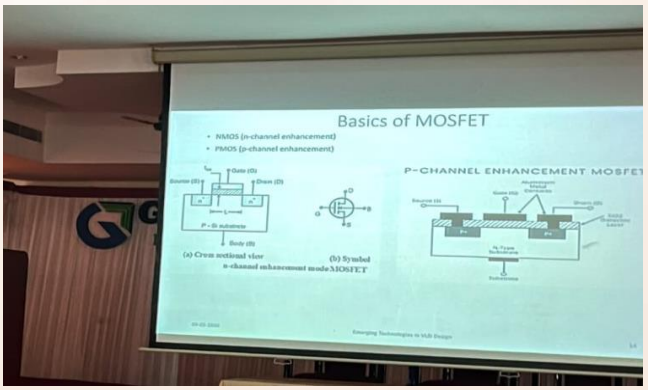
Department of Electrical and Electronics Engineering organized a Webinar entitled "Recent Trends in VLSI Design" on 14.02.2025. The Resource Person for this Event was Mr.S.Sunilkumar, Design Engineer II, Cadence Design, Bangalore.



Department of Electrical and Electronics Engineering organized a Seminar entitled "Students Guidance Program" on 14.02.2025. The Resource Person for this Event was Mr.J.Venkateshwaran, Yellow Matics & IT Skill Development Solution, Erode

Department of Electrical and Electronics Engineering organized a Guest Lecture entitled "Advancement in Industrial Automation and Industry 4.0" on 21.02.2025. The Resource Person for this Event was Mr.R.Sasikumar, Manager-B2E,TVS, Chennai.

Department of Electrical and Electronics Engineering organized a Webinar entitled "400 KV Gas Insulated Substation and its Switchgear" on 27.02.2025. The Resource Person for this Event was Er.R.Naresh Kumar, Senior Manager, Tata Consulting Engineering Pvt, Chennai.



Department of Electrical and Electronics Engineering organized a Seminar entitled "Education to Employability" on 25.04.2025. The Resource Person for this Event was Mr.Ganesh Venkatachalam, Lead Technical Architect, Orion Innovations, Edison, New Jersey, USA

Department of Electrical and Electronics Engineering organized a Seminar entitled "Recent Trends in Renewable Energy Source" on 03.05.2025. The Resource Person for this Event was Er.M.Loganath Paranidaran, Assistant Manager, DK Solar Projects & Ventures Pvt, Chennai.

INDUSTRIAL VISIT

Our II Year students from the Department of Electrical and Electronics Engineering, have undertaken Industrial Visit to the Kerala Electrical and Allied Engineering Co Ltd, Kochi on 28.02.2025. It was an incredibly valuable experience for all the students!

Our III Year students from the Department of Electrical and Electronics Engineering, have undertaken Industrial Visit to the Kerala Electrical and Allied Engineering Co Ltd, Kochi on 04.04.2024. It was an incredibly valuable experience for all the students!

STUDENT ACTIVITIES

STUDENT AWARDS / PRIZE WINNERS

Our student from the Department of Electrical and Electronics Engineering, A.Santhosh Kumar, C.Ravisankar, M.Thirukokarnan of 2nd year, has won the Third place in Idea Presentation Event in the National Level Technical Symposium held at Vidyaa Vikas College of Technology on 04.04.2025. A big hearty congratulations!

NPTEL

S. No.	Student Name	Year	Duration	GRADE
1.	S. MEISURYA	III-EEE	JAN-APR 2025	PASS
2.	R. NITHIYANANTHAM	III-EEE	JAN-APR 2025	PASS
3.	K. DHANUSH	III-EEE	JAN-APR 2025	PASS
4.	NIRAJ KUMAR	III-EEE	JAN-APR 2025	PASS

Students Paper Presentation

S.No	Student Name	Year / Sem	Date	Organizing Institution
1.	S.Dravid	II/IV	14.03.2025	Selvam College Of Technology
2.	Abhimanyu Kumar	II/IV	14.03.2025	Selvam College Of Technology
3.	A.Maruthamuthu	II/IV	14.03.2025	Selvam College Of Technology
4.	C.Ravi Shankar	II/IV	27.03.2025	Vidyaa Vikas College Of Engineering and Technology
5.	A.Santhoshkumar	II/IV	27.03.2025	Vidyaa Vikas College Of Engineering and Technology
6.	M.Thirukkokarnan	II/IV	27.03.2025	Vidyaa Vikas College Of Engineering and Technology
7.	A.Dhanush Kumar	III/VI	22.04.2025	Bharathiyar Institute of Engineering for Women
8.	S.Bharathiraja	III/VI	22.04.2025	Bharathiyar Institute of Engineering for Women
9.	S.Meisuriya	III/VI	22.04.2025	Bharathiyar Institute of Engineering for Women
10.	R.Nithiyanantham	III/VI	22.04.2025	Bharathiyar Institute of Engineering for Women
11.	Harish.R	III/VI	22.04.2025	Bharathiyar Institute of Engineering for Women
12.	Niraj Kumar	III/VI	22.04.2025	Bharathiyar Institute of Engineering for Women
13.	Rituraj Kumar	III/VI	22.04.2025	Bharathiyar Institute of Engineering for Women

Seminars / Workshops Attended

S. No.	Student name	Year/Sem	Date	Organized Institution & Venue
1.	A.Bharathraj	III/VI	15.02.2025	VR Soft Tech
2.	C.Priya	III/VI	22.02.2025	Knowledge Institute Of Technology
3.	A.Dhanushkumar	III/VI	22.02.2025	Knowledge Institute Of Technology
4.	K.Devika	III/VI	22.02.2025	Knowledge Institute Of Technology
5.	T.Kiruthika	III/VI	22.02.2025	Knowledge Institute Of Technology
6.	T.Kiruthika	III/VI	23.02.2025	Tareeqa

S. No.	Student name	Year/Sem	Date	Organized Institution & Venue
7.	A.Dhanushkumar	III/VI	23.02.2025	Tareeqa
8.	A.Anisha	III/VI	28.02.2025	Sona College Of Technology
9.	A.Dhanushkumar	III/VI	22.03.2025	Jct Collge Of Engineering And Technology
10.	R.Divyabharathi	III/VI	22.03.2025	Jct Collge Of Engineering And Technology
11.	J.Bhavadharani	III/VI	22.03.2025	Jct Collge Of Engineering And Technology
12.	D.Gayathri	III/VI	22.03.2025	Jct Collge Of Engineering And Technology
13.	Md Rizwee Khan	III/VI	22.04.2025	Bharathiyar Institute Of Engineering For Women
14.	Nithish Kumar Ojha	III/VI	22.04.2025	Bharathiyar Institute Of Engineering For Women
15.	Rinshu Kumar	III/VI	22.04.2025	Bharathiyar Institute Of Engineering For Women
16.	E.Ragupathi	II/IV	04.04.2025	Mahendra Engineering College
17.	C.Ravishankar	II/IV	04.04.2025	Mahendra Engineering College
18.	M.Vetrivelan	II/IV	04.04.2025	Mahendra Engineering College
19.	J.Obuli	II/IV	04.04.2025	Mahendra Engineering College
20.	P.Sibiraj	II/IV	04.04.2025	Mahendra Engineering College
21.	S.Subash	II/IV	04.04.2025	Mahendra Engineering College
22.	A.Mukeshbabu	II/IV	04.04.2025	Mahendra Engineering College
23.	C.Vadivel	II/IV	04.04.2025	Mahendra Engineering College
24.	C.Vadivel	II/IV	22.04.2025	Bharathiyar Institute Of Engineering For Women

Other Events

S. No.	Student Name	Year / Sem	Date	Organizing Institution
1.	A.Bharathraj	III/VI	28.2.25	MINDLUTER
2.	A.Bharathraj	III/VI	11.3.25	SEMRUSH ACADEMY

Project Presentation Details

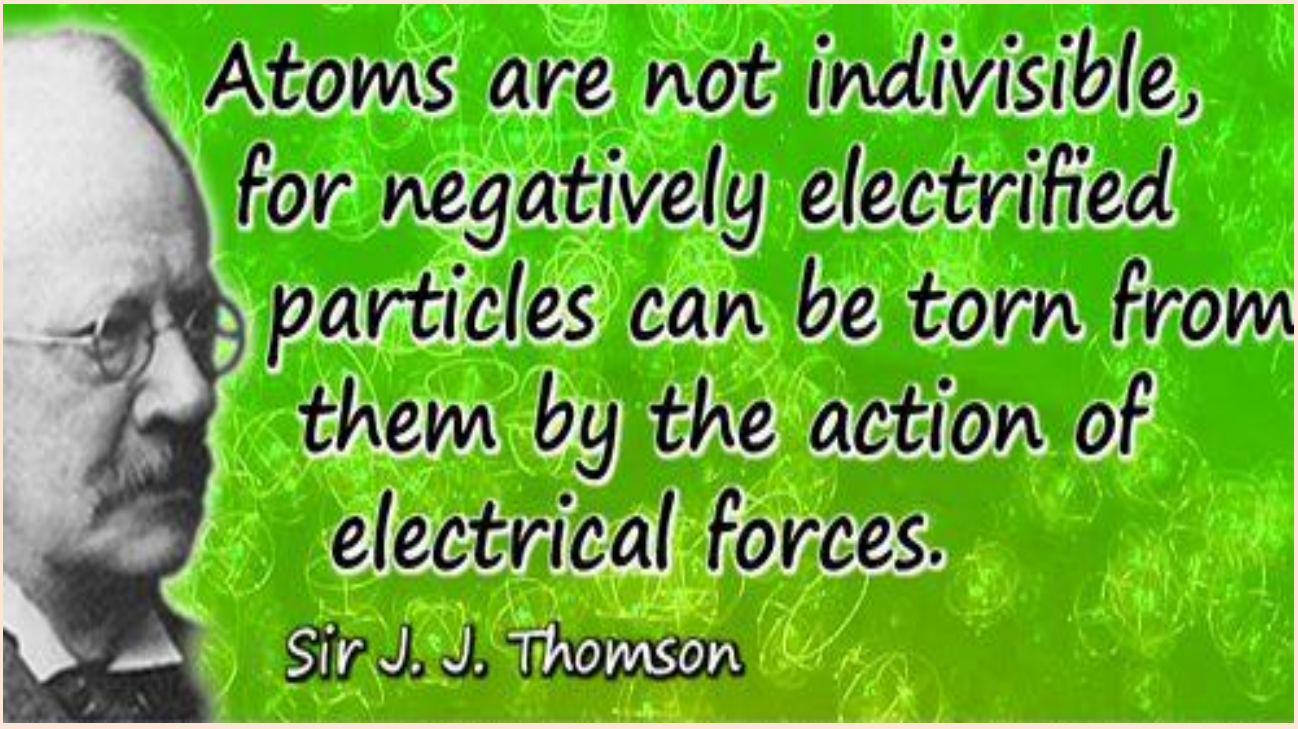
S. No.	Student Name	Year / Sem	Date	Organizing Institution
1.	A.Bharathraj	III/V	01.03.2025	Muthayammal College of Engineering
2.	A.Dhanushkumar	III/VI	01.03.2025	Muthayammal College of Engineering
3.	K.Devika	III/VI	01.03.2025	Muthayammal College of Engineering
4.	S.Bharathiraja	III/VI	01.03.2025	Muthayammal College of Engineering
5.	T.Kiruthika	III/VI	01.03.2025	Muthayammal College of Engineering
6.	C.Priya	III/VI	01.03.2025	Muthayammal College of Engineering

Conference Presentation

S.No	Student Name	Year / Sem	Date	Organizing Institution
1.	K.Kamalesh	IV/VIII	28.03.2025	Muthayammal college of Engineering
2.	M.Lavan	IV/VIII	28.03.2025	Muthayammal college of Engineering
3.	K.Mathankumar	IV/VIII	28.03.2025	Muthayammal college of Engineering
4.	T.Gokulraj	IV/VIII	28.03.2025	Muthayammal college of Engineering
5.	C.Sowmiya	IV/VIII	28.03.2025	Muthayammal college of Engineering
6.	P.Lakshmipathi	IV/VIII	28.03.2025	Muthayammal college of Engineering
7.	K.Vishnupriya	IV/VIII	28.03.2025	Muthayammal college of Engineering
8.	S.Sripriya	IV/VIII	28.03.2025	Muthayammal college of Engineering
9.	Kumar Karuna Nidhi	IV/VIII	28.03.2025	Muthayammal college of Engineering
10.	MD Arbaj	IV/VIII	28.03.2025	Muthayammal college of Engineering
11.	Rahul Thakur	IV/VIII	28.03.2025	Muthayammal college of Engineering

InplantTraining

Sl. No.	Student Name	Duration (Days)	Title of the Implant Training	Company Name
1.	ANKIT KUMAR	14	Electrical	Dalmia Cement


Atoms are not indivisible,
for negatively electrified
particles can be torn from
them by the action of
electrical forces.
Sir J. J. Thomson