

# GNAN ELECTRA TIMES

Department of Electrical and Electronics Engineering



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# NEWS LETTER

Volume 10 Issue 2 May 2023

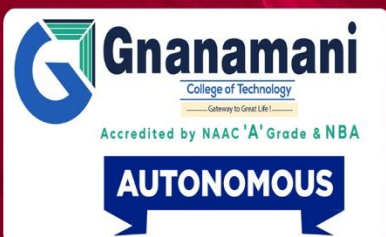
## Gnanamani College of Technology

(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](http://www.gct.org.in)



## **GNANAMANI 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 an Orientation Programme entitled “How to become an Entrepreneur” on 13.02.2023. The Resource Person for this Event was Mr.T.Mohankumar B.E., Managing Director, 15A, Gopal Street, Rasipuram, Namakkal.



Department of Electrical and Electronics Engineering organized a Workshop entitled “Electrical CAD” on 15 & 16.02.2023. The Resource Person for this Event was Mr.V.Muthu Prakash, Innovative Engineering Solutions, MEP-Training Executive, Chrompet, Chennai

Department of Electrical and Electronics Engineering organized a Guest Lecture entitled “Embedded System Development” on 25.02.2023. The Resource Person for this Event was Mr.P.K.Sreekumar, Senior Engineer, Bosh Global Software Technologies Private Limited, Bangalore..



Department of Electrical and Electronics Engineering organized a Guest Lecture entitled “Smart and Numerical Relay” on 27.03.2023. The Resource Person for this Event was Mrs.S.Gururanjani, Test Engineer, R & D - E relay, Meagwin Switchgear Private Ltd,Salem.

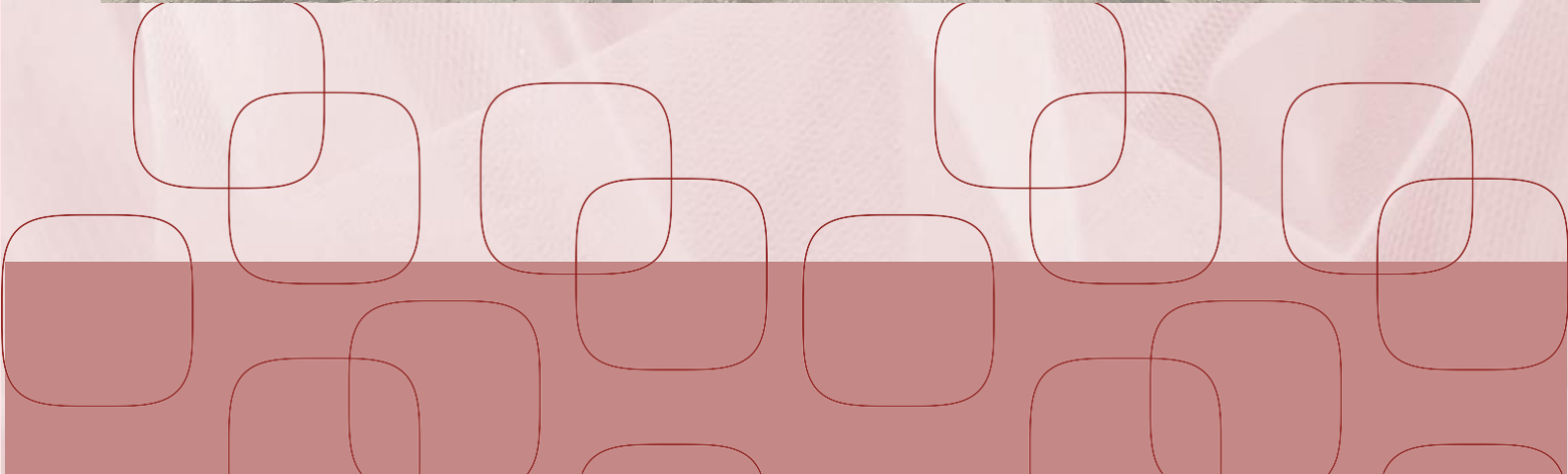


### **INDUSTRIAL VISIT**

The IV Year EEE students of the Department of Electrical and Electronics Engineering attended an Industrial Visit to (1) Kerala Electrical and Allied Engineering Co. Ltd., Kochi, and (2) Traco Cables Company Limited, Irumpanam P.O., Kochi - 682309, on 31.03.2023 & 01.04.20223



The II Year EEE students of the Department of Electrical and Electronics Engineering attended an Industrial Visit to Mettur Thermal Power Plant, on 05.04.2023 .



## STUDENT ACTIVITIES

### Conference (International / National level) Details

S.No	Name of the Student	Date	Title	Organizing Institution & Venue
1.	Chaitanya Kishore	30.3.23	Unmanned vehicle for agriculture	Periyar university
2.	Chitresh Kumar	30.3.23	Unmanned vehicle for agriculture	Periyar university
3.	Jeevanantham P	30.3.23	A Solar Panel Cleaning Robot	Periyar university
4.	Balaji S	30.3.23	Patient information monitoring and emergency calling system using LoRa	Periyar university
5.	Gokul Raj R	30.3.23	Patient information monitoring and emergency calling system using LoRa	Periyar university
6.	Anuja P	31.03.23	Solar street light 120W with LiFePo4 Battery by using smart sensor	Muthayammal college of engineering
7.	Suganthi S	31.03.23	Solar street light 120W with LiFePo4 Battery by using smart sensor	Muthayammal college of engineering
8.	Prema S	31.03.23	Solar street light 120W with LiFePo4 Battery by using smart sensor	Muthayammal college of engineering
9.	Aarthi S	31.03.23	Solar street light 120W with LiFePo4 Battery by using smart sensor	Muthayammal college of engineering
10.	Poongodi T	31.03.23	Intelligent hybrid E vehicle for efficient urban and highway driving	Muthayammal college of engineering
11.	Priya K	31.03.23	Intelligent hybrid E vehicle for efficient urban and highway driving	Muthayammal college of engineering
12.	Kalpana M	31.03.23	Intelligent hybrid E vehicle for efficient urban and highway driving	Muthayammal college of engineering
13.	Sumitra S	31.03.23	Intelligent hybrid E vehicle for efficient urban and highway driving	Muthayammal college of engineering
14.	Jayaseelan S	31.03.23	Implementation in drone and object detection system using artificial intelligence	Muthayammal college of engineering
15.	Arjun Kumar	31.03.23	Implementation in drone and object detection system using artificial intelligence	Muthayammal college of engineering

S.No	Name of the Student	Date	Title	Organizing Institution & Venue
16.	Pravin A	31.03.23	Implementation in drone and object detection system using artificial intelligence	Muthayammal college of engineering
17.	Sudhakar V	31.03.23	CCTV Image processing for student monitoring	Muthayammal college of engineering
18.	Somasuntharam P	31.03.23	CCTV Image processing for student monitoring	Muthayammal college of engineering
19.	Thirumalai P	31.03.23	CCTV Image processing for student monitoring	Muthayammal college of engineering
20.	Sakthipraveen K	31.03.23	CCTV Image processing for student monitoring	Muthayammal college of engineering
21.	Indrapriyadharshini G	31.03.23	Development of attendance monitoring system using face recognition RFID and IOT technologies for classroom environment	Muthayammal college of engineering
22.	Geetha C	31.03.23	Development of attendance monitoring system using face recognition RFID and IOT technologies for classroom environment	Muthayammal College Of Engineering
23.	Soldi Kumari	31.03.23	Development of attendance monitoring system using face recognition RFID and IOT technologies for classroom environment	Muthayammal college of engineering
24.	Praveena S	31.03.23	Development of attendance monitoring system using face recognition RFID and IOT technologies for classroom environment	Muthayammal college of engineering
25.	Sivaraj M	31. 03.23	Fire Extinguisher Using Sound	Muthayammal college of engineering
26.	Dhanasekar N	31.03.23	Fire Extinguisher Using Sound	Muthayammal college of engineering
27.	Marimuthu	31.03.23	Fire Extinguisher Using Sound	Muthayammal college of engineering
28.	Yuvarani J	31.03.23	Design and implementation of fully automated water spray retort system	Muthayammal college of engineering
29.	Saranya S	31.03.23	Design and implementation of fully automated water spray retort system	Muthayammal college of engineering
30.	Sowmiya B	31.03.23	Design and implementation of fully automated water spray retort system	Muthayammal college of engineering

### Students Paper Presentation

S.No	Student Name	Date	Title of Symposium	Organizing Institution & Venue
1.	Geetha C	25.2.2023	EDISON 2023	Sona College Of Tehnology
2.	Paulgideon V	25.2.2023	EDISON 2023	Sona College Of Tehnology
3.	Madhunisha M	25.2.2023	EDISON 2023	Sona College Of Tehnology
4.	Deepadharshini S	1.3.2023	GEARS TO GO 2023	M.Kumarasamy College Of Engineering
5.	Aarthi S	1.3.2023	GEARS TO GO 2023	M.Kumarasamy College Of Engineering
6.	Tharun A	1.3.2023	GEARS TO GO 2023	M.Kumarasamy College Of Engineering
7.	Vijay P	1.3.2023	GEARS TO GO 2023	M.Kumarasamy College Of Engineering
8.	Madhunisha M	20.3.2023	SRISHTI	Narasus's Sarathy Institute Of Technology
9.	Shalini V	21.3.2023	IMAGE 23	Knowledge College Of Technology
10.	Yogesh Kumar G	21.3.2023	IMAGE 23	Knowledge College Of Technology
11.	Indrapriyadharshini	21.3.2023	IMAGE 23	Knowledge College Of Technology

### Seminars / Workshops Attended

S. No.	Student name	Year/Sec	Title of the Seminar / Workshop Attended	Date	Organized Institution & Venue
1.	Deepadharshini S	II	Full Stack Development-Pori'23	24.02.2023	Sona College Of Technology, Salem
2.	Deasing.S	IV	Cyber Security-A Deeper Dive-Image2k23	21.03.2023	Knowledge Institute Of Technology, Salem
3.	Pravin A	IV	Cyber Security-A Deeper Dive-Image2k23	21.03.2023	Knowledge Institute Of Technology, Salem
4.	Lakshmipathi P	II	Grid Connected Pv System-Viruksha'23	31.03.2023	Selvam College Of Technology, Namakkal
5.	Abinaya M	II	Grid Connected Pv System-Viruksha'23	31.03.2023	Selvam College Of Technology, Namakkal
6.	Kasthuri P	II	Grid Connected Pv System-Viruksha'23	31.03.2023	Selvam College Of Technology, Namakkal

S. No.	Student name	Year/Sec	Title of the Seminar / Workshop Attended	Date	Organized Institution & Venue
7.	Dhinakaran	II	Grid Connected Pv System-Viruksha'23	31.03.2023	Selvam College Of Technology, Namakkal
8.	Gokulraj .T	II	Grid Connected Pv System-Viruksha'23	31.03.2023	Selvam College Of Technology, Namakkal
9.	Kubendhiran R	II	Grid Connected Pv System-Viruksha'23	31.03.2023	Selvam College Of Technology, Namakkal
10.	Vignesh S	II	Grid Connected Pv System-Viruksha'23	31.03.2023	Selvam College Of Technology, Namakkal
11.	Lavan M	II	Grid Connected Pv System-Viruksha'23	31.03.2023	Selvam College Of Technology, Namakkal
12.	Harish.G	II	Grid Connected Pv System-Viruksha'23	31.03.2023	Selvam College Of Technology, Namakkal

### Other Events

S. No.	Student name	Year/Sec	Title of the Events	Date	Organizing Institution & Venue
1.	Madhunisha M	III	Idea Presentation	15.3.23	Knowledge Institute Of Technology, Salem
2.	Yogesh Kumar G	III	DEBUGGING	21.03.2023	KNOWLEDGE INSTITUTE OF TECHNOLOGY, SALEM
3.	Indra Priyadharshini G	III	DEBUGGING	21.03.2023	KNOWLEDGE INSTITUTE OF TECHNOLOGY, SALEM
4.	Harish.G	II	Quiz	23.03.2023	Muthayammal College Of Engineering, Namakkal
5.	Madhunisha M	III	Non Technical Event	29.03.2023	PGP College Of Engineering, Namakkal
6.	Madhunisha M	III	Quiz Competition	5.4.2023	Waafe Arrow Learning Goals ,Salem
7.	Madhunisha M	III	Power Point Presentation	4.5.2023	Bharathiyar Institute Of Engineering For Women, Salem

### Project Presentation Details

S. No.	Student Name	Year	Date	Organizing Institution & Venue
1.	Gayathri S	IV-EEE	24.2.23-25.2.23	Sona College Of Technology,Salem
2.	Saranya S	IV-EEE	24.2.23-25.2.23	Sona College Of Technology,Salem
3.	Shalini V	IV-EEE	24.2.23-25.2.23	Sona College Of Technology,Salem
4.	Logeshwari N	IV-EEE	24.2.23-25.2.23	Sona College Of Technology,Salem
5.	Jeevanatham P	IV-EEE	01.3.23	Kumarasamy College Of Engineering,Karur
6.	Sudhakar V	IV-EEE	01.3.23	Kumarasamy College Of Engineering,Karur
7.	Pravin A	IV-EEE	01.3.23	Kumarasamy College Of Engineering,Karur
8.	Deasing S	IV-EEE	01.3.23	Kumarasamy College Of Engineering,Karur

### STUDENT AWARDS / PRIZE WINNERS

Our student from the Department of Electrical and Electronics Engineering, MADHUNISHA M of 3rd year, has won the First place in Paper Presentation Event in the National Level Technical Symposium held at Narasu's Sarathy Institute of Technology on 20.03.2023. A big hearty congratulations!



## STUDENT AWARDS / PRIZE WINNERS

Our student from the Department of Electrical and Electronics Engineering, SHALINI V of 3rd year, has won the First place in Debugging Event in the National Level Technical Symposium held at Knowledge Institute of Technology on 21.03.2023. We extend our hearty congratulations to the winners for their outstanding achievements.



**OUR RECRUITERS**

































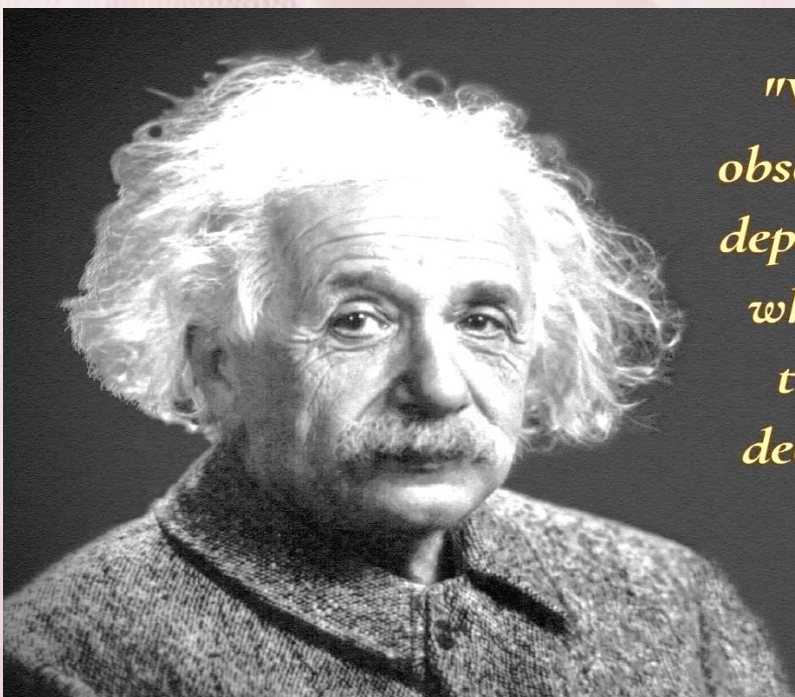
## OUR COURSES

### UG Courses

**B.E. -Biomedical Engineering**  
**B.E. -Computer Science and Engineering**  
**B.E. -Electrical and Electronics Engineering**  
**B.E. -Electronics and Communication Engineering**  
**B.E. -Mechanical Engineering**  
**B.Tech.-Agricultural Engineering**  
**B.Tech.-Artificial Intelligence and Data Science**  
**B.Tech.-Biotechnology**  
**B.Tech.-Chemical Engineering**  
**B.Tech.-Food Technology**  
**B.Tech.-Information Technology**  
**B.Tech.-Pharmaceutical Technology**

### PG Courses

**M.B.A. -Master of Business Administration**  
**M.C.A. -Master of Computer Applications**  
**M.E. -Biomedical Engineering**  
**M.E. -Computer Science and Engineering**  
**M.E. -Construction Engineering**  
**M.E. -Embedded System Technologies**  
**M.E. -Environmental Engineering**  
**M.E. -Industrial Engineering**  
**M.E. -Power Electronics and Drives**  
**M.E. -VLSI Design**



*"Whether you can observe a thing or not depends on the theory which you use. It is the theory which decides what can be observed."*

**Albert Einstein**