

GNAN ELECTRA TIMES

Department of Electrical and Electronics Engineering



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Editorial Board:

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- Mrs.P.Pushparani AP/EEE

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- Gokulraj R
- Shalini V
- Paulgideon V
- Amankumar
- Tharun A

NEWS LETTER

**Volume 10 Issue 1
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Gnanamani College of Technology

Accredited by NAAC 'A' Grade and NBA

NH-7, A.K.Samuthiram,

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

www.gct.org.in



Gnanamani
College of Technology

— Gateway to Great Life! —

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 conducted a Guest Lecture on “Carving Niche Career in Electronics System Design” at 05.09.2022. The Resource Person for this Event was Dr.M.Vijayakumar, Manager (R&D), Indigaurd Systems Pvt Ltd, Tanjore.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, ELECTRICAL AND ELECTRONICS ENGINEERING & BIOMEDICAL ENGINEERING

Jointly organize
Guest Lecture on

"CARVING NICHE CAREER IN ELECTRONICS SYSTEM DESIGN"

05.09.2022 (Monday)
10A.M.
Michael Faraday Hall
Students

Dr.M.Vijayakumar,
Manager (R & D),
Indigaurd Systems Private Limited,
Tanjavur.

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Department of Electrical and Electronics Engineering conducted a Seminar on “Recent Trends in Electrical Technology” at 17.09.2022. The Resource Person for this Event was Mr.R.Subramani, Software Engineer, Bosch Global Software Technologies, Coimbatore.

Department of Electrical and Electronics Engineering conducted a Guest Lecture on “Electrical Trends in Marine Technology” at 23.09.2022. The Resource Person for this Event was Mr.P.Pitchaimuthu, Marine Electrical Engineer, Qatar Shipping.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Guest Lecture on

"ELECTRIC DRIVES IN MARINE TECHNOLOGY"

Faculty and Students
23.09.2022
02.00 PM
Michael Faraday Hall

Mr.P.Pitchaimuthu
Marine Electrical Engineer,
Qatar Shipping.

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PROGRAM ORGANIZED BY DEPARTMENT

Department of Electrical and Electronics Engineering conducted a Webinar on “Novel Technologies in Cloud Computing” at 10.10.2022. The Resource Person for this Event was Mr.Prasanna Vengatesh, Technical Support Engineer, Dell Technologies, Chennai.



Department of Electrical and Electronics Engineering conducted a National Level Technical Symposium on “Electra Communix 2k22” at 12.10.2022. The Resource Person for this Event was Mr.Biswajit Sarkar, HR Manager, Maventic Innovative Solutions, Banglore.

EVENT DATE: 12.10.2022

REGISTRATION FEE: Rs. 2000/- PER STUDENT

WIN ATTRACTIVE PRIZES

DEPARTMENT OF ECE + EEE

11TH NATIONAL LEVEL TECHNICAL SYMPOSIUM

ELECTRA COMMUNIX 2K22

EVENTS

- PAPER PRESENTATION
- TECH QUIZ
- PROJECT PRESENTATION
- SHORT FILM
- FUN GAMES

PAPER PRESENTATION TOPICS

- POWER ELECTRONICS AND DRIVES
- SPECIAL ELECTRICAL MACHINES
- POWER SYSTEMS
- EMBEDDED SYSTEMS
- COMMUNICATION SYSTEMS
- DIGITAL SIGNAL AND IMAGE PROCESSING
- VLSI

REGISTRATION HERE

Send Papers to: electracommunix2k22@gmail.com

Faculty Coordinator: Dr.K.Anandji, AP/ECE: 9894210719, Mr.A.Venkatesh, AP/ECE: 9780270291

Student Coordinator: Mr.X.Sandeep Kumar, IV/ECE: 7846330991, Mr.C.Sankar, IV EEE: 9047283428

LAST DATE FOR PAPER SUBMISSION: 08.10.2022
INTIMATION FOR PAPER SELECTION: 10.10.2022



PROGRAM ORGANIZED BY DEPARTMENT

Department of Electrical and Electronics Engineering conducted a Value Added Course on “PCB Design using Altium Designer” on 17.10.2022 to 22.10.2022. The Resource Person for this Event was Dr.M.Vijayakumar, Manager (R&D), Indigaard Systems Pvt Ltd, Tanjore.





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING & ELECTRONICS AND COMMUNICATION ENGINEERING

Seminar on

“RESEARCH TECHNOLOGIES IN AEROSPACE”

Students & Faculty

21.10.2022

11.00 A.M

Michael Faraday Hall

+91 7598293888




Dr. Balakrishnan Bakthavatchalam,
Principal Scientist,
CSIR National Aerospace Laboratories
Bangalore.
& Associate Professor
in AcSIR New Delhi.

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Department of Electrical and Electronics Engineering conducted a Seminar on “Research Technologies in Aerospace” on 17.10.2022 to 22.10.2022. The Resource Person for this Event was Dr.Balakrishnan Bakthavatchalam, Principal Scientist, CSIR National Aerospace Laboratories, Bangalore and Associate Professor in AcSIR, New Delhi.

STUDENTS PARTICIPATION

Paper Presentation

S.No	Student Name	Date	Organizing Institution & Venue
1.	MADHUNISHA M	17.09.2022	KONGUNADU COLLEGE OF ENGINEERING, TRICHY
2.	PRIYA K	17.09.2022	KONGUNADU COLLEGE OF ENGINEERING, TRICHY
3.	PREMA M	17.09.2022	KONGUNADU COLLEGE OF ENGINEERING, TRICHY
4.	ANUJA P	17.09.2022	KONGUNADU COLLEGE OF ENGINEERING, TRICHY
5.	MADHUNISHA M	29.9.2022	SELVAM COLLEGE OF TECHNOLOGY, NAMAKKAL
6.	DEEPADHARSHINI S	29.9.2022	SELVAM COLLEGE OF TECHNOLOGY, NAMAKKAL
7.	MADHAN KUMAR K	29.9.2022	SELVAM COLLEGE OF TECHNOLOGY, NAMAKKAL
8.	MADHUNISHA M	7.10.2022	AVS ENGINEERING COLLEGE, SALEM

Other Events

S. No	Student name	Year/Sec	Title of the Events	Date	Organizing Institution & Venue
1.	MADHUNISHA M	III	CIRCUIT DEBUGGING	17.09.2022	KONGUNADU COLLEGE OF ENGINEERING, TRICHY
2.	MATHANKUMAR K	II	CIRCUIT MODELLING	29.09.2022	SELVAM COLLEGE OF TECHNOLOGY, NAMAKKAL
3.	BALAJI S	II	CIRCUIT MODELLING	29.09.2022	SELVAM COLLEGE OF TECHNOLOGY, NAMAKKAL
4.	GOKULRAJ R	IV	CIRCUIT MODELING	29.09.2022	SELVAM COLLEGE OF TECHNOLOGY, NAMAKKAL
5.	MADHUNISHA M	III	CONNECTION	7.10.2022	AVS ENGINEERING COLLEGE, SALEM
6.	DEEPADHARSHINI S	II	TECH QUIZ	19.10.22	GANESH COLLEGE OF ENGINEERING, SALEM
7.	KASTURI R	II	TECH QUIZ	19.10.22	GANESH COLLEGE OF ENGINEERING, SALEM
8.	ABINAYA M	II	TECH QUIZ	19.10.22	GANESH COLLEGE OF ENGINEERING, SALEM
9.	SOWMIYA C	II	TECH QUIZ	19.10.22	GANESH COLLEGE OF ENGINEERING, SALEM

INPLANT TRAINING

S.No	Student Name	Duration	Address With Contact Number
1	Suganthi S	25.07.2022 - 29.07.2022	TNEB,110/22kv Substation, TANGEDCO, Rasipuram
2	Indra Priyadharshini	25.07.2022 - 29.07.2022	TNEB,110/22kv Substation, TANGEDCO, Rasipuram
3	Sowmiya	25.07.2022 - 29.07.2022	TNEB,110/22kv Substation, TANGEDCO, Rasipuram
4	Baby Shalini.S	25.07.2022 - 29.07.2022	BSNL, Salem
5	Srividhya R	25.07.2022 - 29.07.2022	BSNL, Salem
6	Prema S	25.07.2022 - 29.07.2022	TANGEDCO, Namakkal
7	Aarthi S	25.07.2022 - 29.07.2022	TANGEDCO, Namakkal

INTERNSHIP

S.No	Student Name	Duration (Days)	Title of the Internship	Company Name
1	PRAVIN A	10.08.2022 - 22.08.2022	ELECTRICAL MAINTENANCE	AMSTEEL CASTINGS PVT LTD, HOSUR

Sports Participation Details

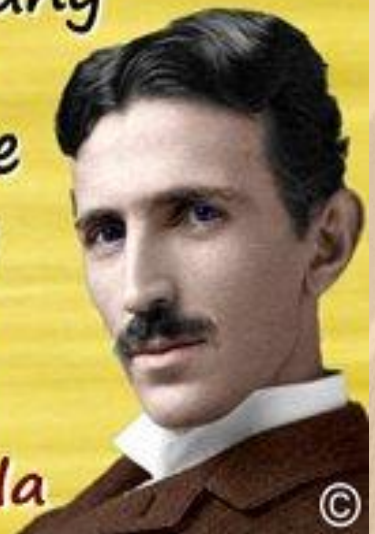
S. No	Student Name	Year	Date	Organization
1.	Madhunisha M	IV-EEE	2022	Rotary Club Of Salem & Salem City Police
2.	Yogeshkumar G	IV-EEE	2022	Rotary Club Of Salem & Salem City Police
3.	Sankar C	IV-EEE	2022	Rotary Club Of Salem & Salem City Police

STUDENT AWARDS / PRIZE WINNERS

Our student from the Department of Electrical and Electronics Engineering, DEEPADHARSHINI S of 2nd year, has won the First place in Paper Presentation Event in the National Level Technical Symposium held at Ganesh college of engineering on 19.10.2022. A big hearty congratulations!



We may produce at will, from a sending station. an electrical effect in any particular region of the globe; we may determine the relative position or course of a moving object, such as a vessel at sea, the distance traversed by the same, or its speed. **Nikola Tesla**





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**