

Volume 11, Issue 2

May 2024

Gnan Electra Times

NEWS LETTER

Inside this issue:

Programme Organized	5
Technical Symposium	9
Student Awards / Prize Winners	10
Students Industrial Visit	12
Student paper presentation in conferences / symposium	14
Student Attended Workshop / Seminar	15
Student other event participations	17
Student - Project Presentations	17
Student - Sports Activities	18

Department of Electrical & Electronics Engineering



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

Gnanamani College of Technology is a leading Institution with state-of-the-art facility. The college is affiliated to Anna University and approved by AICTE. The Institution is rendering noble service to the youths in rural and urban areas. The college is accredited by the NAAC “A” Grade and NBA (CSE, ECE, EEE and Mech). The college has grown in a short span of 17 years with 12 UG courses namely Agricultural, Artificial Intelligence and Data Science, Bio-Medical, Biotechnology, Chemical, Civil, Computer Science, Electrical and Electronics, Electronics and Communication, Food Technology, Mechanical and Pharmaceutical Technology. The Institute also offers 10 PG courses in Biomedical Engineering, Computer Science Engineering, Construction Engineering and Management, Environmental Engineering, Embedded System Technologies, Industrial Engineering, Power Electronics and Drives, VLSI Design, MBA and MCA.

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.

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 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.

Department 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 (PEOs)

Graduates of Mechanical 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 (PSOs)

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 (POs)

- ☛ **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.
- ☛ **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.

PROGRAMME ORGANIZED



Our Department of Electrical and Electronics Engineering, in collaboration with IEI successfully hosted a Guest Lecture titled "Recent Trends in Electrical Networks ." The event took place in the Ramanujan Hall on January 11th, 2024, starting at 10:30 a.m. We were honored to have Mr.K.Venkatesh , Assistant Engineer , 110/22 KV Operation and Maintenance, Varagur , as the Chief Guest for the program. Mr.K.Venkatesh shared valuable insights during his address, how solar, wind, and hybrid energy sources are being integrated into electrical networks



Our Department of Electrical and Electronics Engineering in association with ISTE have organized an Seminar on “Recent Technologies in Automation ” in our institution on 26.02.2024. The Chief guest Mr.R.Madhankumar ,Chief Engineer ,HCL The Residency Tower, Chennai , delivered future opportunities in automation technologies

PROGRAMME ORGANIZED



Our Department of Electrical and Electronics Engineering, in collaboration with ISTE, hosted a Seminar programme titled "Innovation ideas to become an entrepreneur " on 30.05.2024, at 3 pm. The distinguished guest speaker was Mrs.D.Sasireka Sathishkumar , Founder ,Shirpi Creations,Rasipuram delivered how to identify essential skills required for entrepreneurs students gain creative, practical, and entrepreneurial knowledge that helps them think independently



Our Department of Electrical and Electronics Engineering, in collaboration with IEI, hosted a Seminar programme entitled Entrepreneurship and Innovation " on 14.02.2024 . The Chief Guest, Mr.K.Illanchezhian, Manager Technical , Shree Technologies, Coimbatore shared the knowledge of various techniques in Industrial Automation.

PROGRAMME ORGANIZED



Our Department of Electrical and Electronics Engineering in association with ISTE organized a Workshop on "Design Thinking, Critical Thinking and Innovation Thinking " on 26.02.2024 . The Chief Guest was Dr.S.Jaisankar , Assistant Project officer for Tamil Nadu , EDII- Ahmedabad . He shared how to analyze problems logically and objectively Also learn Advanced algorithms for accurate battery prediction.



Our Department of Electrical and Electronics Engineering in association with IEI organized a Seminar on "Novel technology in Web development " on 02.03.2024. The Chief Guest was Mr.S.R.Vignesh , Software Developer, AMPCOMP Technology Pvt Ltd,Bengalure. He shared up-to-date technical knowledge, practical development skills, and industry awareness .

PROGRAMME ORGANIZED



Our Department of Electrical and Electronics Engineering in association with IEI have organized a Webinar on "Recent Technologies in Battery Management



TECHNICAL SYMPOSIUM

The Department of Electrical and Electronics Engineering & Electronics and Communication Engineering have jointly organized a National Level Technical Symposium "ELECTRACOMMUNIX'24" On 14.03.2024. The Chief Guest was Mr. Joshua David M D India Campus Head, Mphasis, Chennai. The inauguration marks a momentous beginning with the dignified presence of Chairman Dr.T.Aranganal presided over the function. Dr.P.Premkumar, CAO; Dr.T.K.Kannan, Principal; Dr.B.Sanjay Gandhi, Director-Academics offered Felicitation. Dr.K.Chandramohan, Vice Principal (Administration); Dr.J.Chandramohan Head of Electrical and Electronics Engineering & Dr.R.Prabhu, Head of Electronics and Communication Engineering, Professors, Faculty members and students of both departments were present on the occasion.

Gnanamani
Accredited by NAAC 'A' Grade & NBA
AUTONOMOUS

Registration Ends On 10.03.24

NH-7, A.K.Samuthiram, Pachal post, Namakkal-637018, Tamilnadu, India
www.gct.org.in

DEPARTMENT OF ECE & EEE
Proudly presents
ELECTRACOMMUNIX'24
A NATIONAL LEVEL TECHNICAL SYMPOSIUM

TECHNICAL EVENTS
PAPER PRESENTATION
PROJECT EXPO
TECHNICAL QUIZZ

NON-TECHNICAL EVENTS
LIVE PHOTOGRAPHY
FUN GAMES
SHORT FILM
PICTURE CONNECTION

REGISTRATION FEES PER HEAD 200/-

WIN ATTRACTIVE PRIZES

STAFF CONVENOR
DR.G.ABUNACHALAN / 993304487

STUDENTS CO-ORDINATOR
V.VIJAYKUMAR / 7010635318
S.KARTHIKEYAN / 9360251073

REGISTRATION QR

Paper Presentation Topics

STAFF CONVENOR
DR.A.VENKATESH / 9992702971

STUDENTS CO-ORDINATOR
P. VIJAY / 7449109311
C.GOKUL / 9361709080

electracommunix@gmail.com

Gnanamani
Accredited by NAAC 'A' Grade & NBA
AUTONOMOUS

Department of Electronics and Communication Engineering and Electrical and Electronics Engineering Organising
A National Level Technical Symposium

ELECTRACOMMUNIX'24

Students
14.03.2024
10:00 AM
Michael Faraday Hall

Mr. Joshua David,
India Campus Hiring,
Mphasis.

+91 7598293888 info@gct.org.in www.gct.org.in



STUDENT AWARDS / PRIZE WINNERS

Our student from the Department of Electrical and Electronics Engineering, KIRUTHIKA T and PRIYA C of 2nd year, has won the First place in Project Expo Event in the National Level Technical Symposium held at AVS Engineering College on 23.03.2024. A big hearty congratulations!



Our student from the Department of Electrical and Electronics Engineering, BHARATHRAJ A and DHANUSH K of 2nd year, has won the First place in Project Expo Event in the National Level Technical Symposium held at AVS Engineering College on 23.03.2024. A big hearty congratulations!



STUDENT AWARDS / PRIIZES

Our student from the Department of Electrical and Electronics Engineering, GOKUL C and KAMALESH K of 3rd year, has won the Second place in Circuit Debugging Event in the National Level Technical Symposium held at Mahendra Engineering College on 03.04.2024. We extend our hearty congratulations to the winners for their outstanding achievements.



Our student from the Department of Electrical and Electronics Engineering, BHARATHIRAJA S of 2nd year, has won the Second place in Photography Event in the National Level Technical Symposium held at Mahendra Engineering College on 03.04.2024. We extend our hearty congratulations to the winners for their outstanding achievements.



INDUSTRIAL VISIT

Our III Year students from the Department of Electrical and Electronics Engineering, have undertaken Industrial Visit to the Solar Observatory, Kodaikanal on 04.04.2024. It was an incredibly valuable experience for all the students!



INDUSTRIAL VISIT

Our II Year students from the Department of Electrical and Electronics Engineering, have undertaken Industrial Visit to the Solar Observatory, Kodaikanal on 30.04.2024. It was an incredibly valuable experience for all the students!



STUDENT PAPER PRESENTATION IN SYMPOSIUM

S.No	Student Name	Date	Organizing Institution & Venue
1.	DEEPADHARSHINI S	1.3.2024	Muthayammal College of Engineering,Rasipuram
2..	KIRUTHIKA T	22.03.2024	AVS Engineering college,Salem
3.	PRIYA S	22.03.2024	AVS Engineering college,Salem
4.	THEEVANAN T	22.03.2024	AVS Engineering college,Salem
5.	DHANUSHKUMAR A	22.03.2024	AVS Engineering college,Salem

STUDENT PAPER PRESENTATION IN CONFERENCES

S.No	Student name	Date	Organizing Institution & Venue
1.	MADHUNISHA M	27-4-2024	Roever Engineering College
2..	PREMA M	27-4-2024	Roever Engineering College
3.	VIJAY P	27-4-2024	Roever Engineering College
4.	BALAMURUGAN P	27-4-2024	Roever Engineering College
5.	BARATHWJ S	27-4-2024	Roever Engineering College

STUDENT ATTENDED WORKSHOP / SEMINAR

S. No.	Student name	Year/ Sec	Title of the Seminar / Workshop Attended	Date	Organized Institution & Venue
1.	NIRMALA K	III-EEE	Drown technology	23.2.2024	Knowledge Institute of technology, Salem
2.	GOKULRAJ T	IV-EEE	Drown technology	23.2.2024	Knowledge Institute of technology, Salem
3.	SRIPRIYA S	III-EEE	Drown technology	23.2.2024	Knowledge Institute of technology, Salem
4.	HARISH G	III-EEE	Electratalak	23.2.2024	Knowledge Institute of technology, Salem
5.	GOKULRAJ T	III-EEE	SCADA and power plant Engineering	22.2.2024	Paavai Engineering College, Namakkal
6.	MATHAN KUMAR K	III-EEE	UI/UX Design	23.02.2024	Sona College of technology, Salem
7.	CHANDRU D	III-EEE	UI/UX Design	23.02.2024	Sona College of technology, Salem
8.	DINESH KUMAR.V	III-EEE	UI/UX Design	23.02.2024	Sona College of technology, Salem
9.	PUNITHA P	II-EEE	Exploring Machine learning Tools and tech with Techniques with R & Python	22.03.2024	Kongunadu college of technology, trichy
10.	MAHALAKSHNI	II-EEE	Exploring Machine learning Tools and tech with Techniques with R & Python	22.03.2024	Kongunadu college of technology, trichy
11.	SWETHA M	II-EEE	Exploring Machine learning Tools and tech with Techniques with R & Python	22.03.2024	Kongunadu college of technology, trichy
12.	KAVIYA V	II-EEE	Exploring Machine learning Tools and tech with Techniques with R & Python	22.03.2024	Kongunadu college of technology, trichy

STUDENT ATTENDED WORKSHOP / SEMINAR

S. No.	Student name	Year/ Sec	Title of the Seminar / Workshop Attended	Date	Organized Institution & Venue
13.	ENIYA K	II-EEE	Exploring Machine learning Tools and tech with Techniques with R & Python	22.03.2024	Kongunadu college of technology, trichy
14.	BHARATHIRAJA S	II-EEE	Drown technology	25.03.2024-26.03.2024	Nandha Engineering College, Erode
15.	DHANUSH K	II-EEE	Drown technology	25.03.2024-26.03.2024	Nandha Engineering College, Erode
16.	DHANUSH KUMAR A	II-EEE	Drown technology	25.03.2024-26.03.2024	Nandha Engineering College, Erode
17.	DHANUSHKUMAR A	II-EEE	MATLAB and its applications	3.4.2024	Mahendra Engineering College, Namakkal
18.	BHARATHIRAJA S	II-EEE	MATLAB and its applications	3.4.2024	Mahendra Engineering College, Namakkal
19.	DINESH KUMAR V	II-EEE	Grid Connected photovoltaic system	17.04.2024	Selvam college of technology, Namakkal
20.	MOHANRAJ V	III-EEE	Grid Connected photovoltaic system	17.04.2024	Selvam college of technology, Namakkal
21.	GOKUL C	III-EEE	Grid Connected photovoltaic system	17.04.2024	Selvam college of technology, Namakkal
22.	VIGNESH S	III-EEE	Grid Connected photovoltaic system	17.04.2024	Selvam college of technology, Namakkal
23	DHINAKARN B	III-EEE	Grid Connected photovoltaic system	17.04.2024	Selvam college of technology, Namakkal

STUDENT OTHER EVENT PARTICIPATIONS

Student name	Year / Sec	Title of the Seminar /	Date	Organized Institution & Venue
Harish.G	III	Idea presentation	23.02.2024	Knowledge Institute of Technology, Salem
Chandru.D	III	Idea presentation	23.02.2024	Knowledge Institute of Technology, Salem
Dhanush K	II	Technical Quiz & Marvel Quiz	1.3.2024	K.Ramakrishna College of Technology,Trichy.
Bharathraj A	II	Technical Quiz & Marvel Quiz	1.3.2024	K.Ramakrishna College of Technology,Trichy.

STUDENT PROJECT PRESENTATIONS

Student Name	Year	Project Title	Date	Organizing Institution & Venue
Balamurugan P	IV-EEE	Solar Blower	23.02.2024	Knowledge Institute of Technology, Salem
Deepakraja V	IV-EEE	Solar Blower	23.02.2024	Knowledge Institute of Technology, Salem
Ramkumar M	II-EEE	IoT Based multi-level Smart car parking system	03.04.2024	Mahendra Engineering College, Namakkal
Harish R	II-EEE	IoT Based multi-level Smart car parking system	03.04.2024	Mahendra Engineering College, Namakkal
Maisurya S	II-EEE	IoT Based multi-level Smart car parking system	03.04.2024	Mahendra Engineering College, Namakkal

STUDENT - SPORTS ACTIVITIES

Student name	Year	Title of the Event	Date	Organizing Institution & Venue
Yogeshkumar G	IV	Single Stick	22.1.2024	Ekalaiva Kalaikoodam,Namakkal
Madhunisha M	IV	Single Stick	22.1.2024	Ekalaiva Kalaikoodam,Namakkal
Prema M	IV	Single Stick	22.1.2024	Ekalaiva Kalaikoodam,Namakkal

"Engineers participate in the activities which make the resources of nature available in a form beneficial to man and provide systems which will perform optimally and economically."

- L. M. K. Boelter (1957)

Editorial Board

Editors	Dr.J.Chandramohan, ASP & Head/EEE, Mrs.P.Pushparani Assistant Professor / EEE, Gnanamani College of Technology
Student Coordinators	<ul style="list-style-type: none"> ◆ DEEPAKRAJA V ◆ DINESHKUMAR P ◆ ABINAYA M ◆ KASTHURI R ◆ PRIYA C ◆ MONASRI S

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 and Mana
M.E. -Embedded System Technologies
M.E. -Environmental Engineering
M.E. -Industrial Engineering
M.E. -Power Electronics and Drives
M.E. -VLSI Design