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### Department of Electrical & Electronics Engineering



## Gnyanamani 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](http://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.

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## 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

**Gnanamani**  
Accredited by MAAC, A Grade & NBA  
**AUTONOMOUS**

INSTITUTION'S INNOVATION COUNCIL  
INNOVATION COUNCIL  
INSTITUTION OF ENGINEERS

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
IN ASSOCIATION WITH INSTITUTION'S INNOVATION COUNCIL  
organizing  
Panel Discussion with innovation and Start-up Ecosystem  
Enabler from State Region on

**"SUCCESS OF SMALL BUSINESS"**

Faculty and Students  
25.08.2023  
11.00 AM  
Michael Faraday Hall

**Mr. RAJKUMAR NALLUSAMY,**  
BIM Modeller Consulting Services,  
Karur, Tamilnadu.

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



Our Department of Electrical and Electronics Engineering, in collaboration with IIC, successfully hosted a panel discussion titled "SUCCESS OF SMALL BUSINESS." The event took place in the Michael Faraday Hall on August 25th, 2023, starting at 11:00 a.m. We were honored to have Mr. Rajkumar Nallusamy, BHIM Modelling Consulting Services, Karur as the Chief Guest for the program. Mr. Rajkumar Nallusamy shared valuable insights during his address, encouraging students to enable the startup ideas and to become an Entrepreneur.

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INSTITUTION'S INNOVATION COUNCIL  
INNOVATION COUNCIL  
INSTITUTION OF ENGINEERS

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
IN ASSOCIATION WITH IIC & EDC  
organizing Seminar on

**"INSIGHTS ON INNOVATIONS AND ENTREPRENEURSHIP"**

Faculty and Students  
28.08.2023  
10.00 AM  
Michael Faraday Hall

**Mr. M. Jayachandran,**  
Elite Energy Devices,  
Salem, Tamilnadu.

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



Our Department of Electrical and Electronics Engineering, in collaboration with IIC and EDC, successfully hosted a seminar titled "INSIGHTS ON INNOVATIONS AND ENTREPRENEURSHIP". The event took place in the Michael Faraday Hall on August 28th, 2023, starting at 10:00 a.m. The Chief Guest for the program Mr. M. Jayachandran, Elite Energy Devices, Salem shared valuable information about innovations and to become an Entrepreneur.

## PROGRAMME ORGANIZED

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DEPARTMENT OF ECE & EEE IN ASSOCIATION WITH  
EDC AND IIC  
Organize Guest Lecture on

**"INNOVATION PATHWAY FOR  
TRANSFORMING INDIANS TO  
TRANSFORM INDIA"**

**Ms.S.Sowmya,**  
Soft Skill / Verbal Coach,  
Chinmaya Mission,  
Salem.

Students  
10.00 am to 12.00 pm  
13.10.2023 (Friday)  
Michael Faraday Hall

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Our Department of Electrical and Electronics Engineering and Electronics and Communication Engineering in association with IIC and EDC, successfully organised a Guest Lecture titled "INNOVATION PATHWAY FOR TRANSFORMING INDIANS TO TRANSFORM INDIA". The event took place in the Michael Faraday Hall on October 13th, 2023, starting at 10:00 a.m. The Chief Guest for the program Ms.S.Sowmya, Soft skill/verbal coach, Chinmaya Mission, Salem shared valuable information about innovations.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING IN ASSOCIATION WITH WOMEN  
EMPOWERMENT AND ANTI-HARASSMENT CELL  
Organizing Awareness Programme on

**"PREVENTION OF HARASSMENT  
AT WORK PLACE"**

**Ms.Elavarasi Sivakumar,**  
Senior Analyst,  
HCL Technology,  
Chennai.

**Ms.Nadhini Prbha S,**  
Senior Analyst,  
HCL Technology,  
Chennai.

30.10.23    Faculty and Students    3:00PM to 4:00PM    Michael Faraday Hall

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Our Department of Electrical and Electronics Engineering in association with Women Empowerment and Anti-Harassment Cell, successfully organised an Awareness Programme titled "PREVENTION OF HARASSMENT AT WORK PLACE". The event was conducted on October 30th, 2023, starting at 03:00 p.m. The Chief Guests for the program Ms.Elavarasi Sivakumar and Ms.S.Nandhini Prabha, Senior Analyst, HCL Technologies, Chennai shared the information about prevention of harassment for girl students.

## PROGRAMME ORGANIZED

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INSTITUTION'S INNOVATION COUNCIL

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
IN ASSOCIATION WITH EDC AND IIC  
ORGANIZING SEMINAR ON  
**"START-UP FOUNDER"**

Faculty and Students  
17.11.2023  
10.00 AM  
Ramanujan Hall

**Ms. Vaishnavi, M.**  
Corporate Trainer,  
Adroit Technologies,  
Coimbatore.

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Our Department of Electrical and Electronics Engineering in association with EDC and IIC, successfully organised a seminar titled "START-UP FOUNDER". The event was conducted on November 17th, 2023, starting at 10:00 a.m. The Chief Guest for the program Ms.M.Vaishnavi, Corporate Trainer, Adroit Technologies, Coimbatore shared the valuable information about innovation ideas for startups to the students.

## ALUMNI TALK SERIES

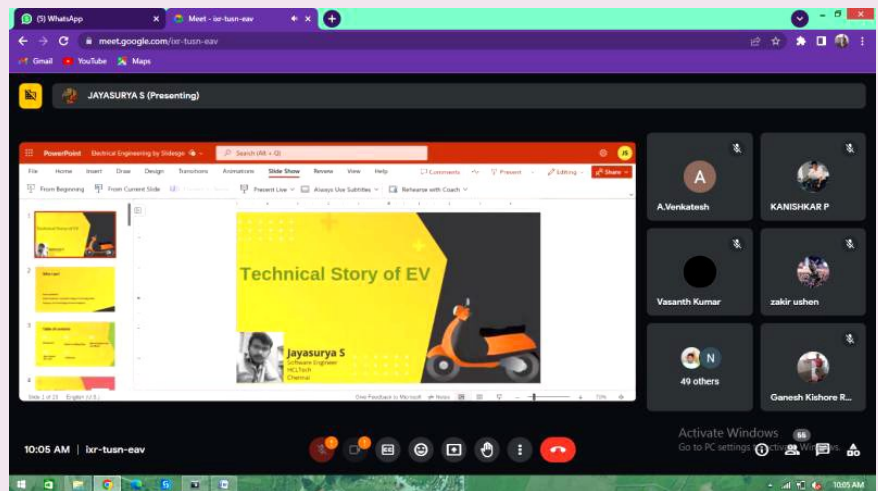
**Gnanamani**  
Accredited by NAAC 'A' Grade & NBA  
**AUTONOMOUS**

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
Organizing an Alumni Talk Series on  
**TECHNICAL STORY OF EV**

Students  
10.00 am to 11.00 am  
21.10.2023  
Google Meet

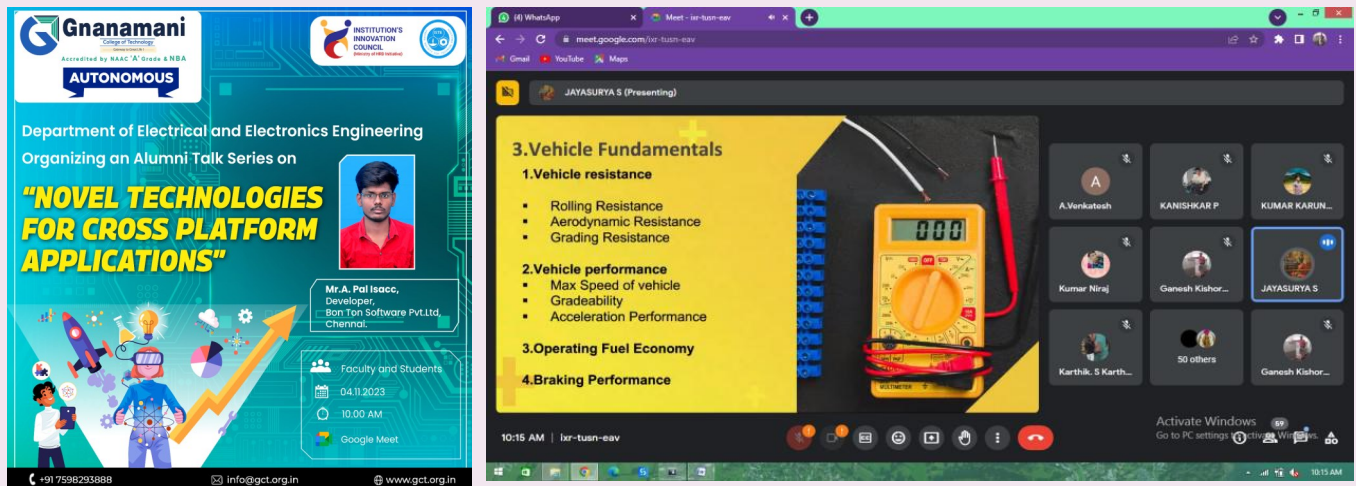
**Mr. S. Jayasurya**  
Software Engineer,  
Web App and API development  
in dotnet,  
HCL Tech, Chennai

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Our Department of Electrical and Electronics Engineering in association with IEI, successfully organised an Alumni talk series titled "TECHNICAL STORY OF EV". The event was conducted in online on October 21st, 2023, starting at 10:00 a.m. The Chief Guest for the program Mr.A.Jayasurya, Software Engineer, Web App and API development in dotnet, HCL Tech, Chennai shared valuable information about Evolution of Electric vehicles and its advancements.

## ALUMNI TALK SERIES



Our Department of Electrical and Electronics Engineering in association with IEI , successfully organised an Alumni talk series titled "NOVEL TECHNOLOGIES FOR CROSS PLATFORM APPLICATIONS ". The event was conducted in online on November 04th, 2023, starting at 10:00 a.m. The Chief Guest for the program Mr.A.Pal Isacc, Bon Ton Software Pvt Ltd, Chennai shared valuable information about recent technologies in Cloud platforms and its career opportunities for students.

## STUDENT AWARDS / PRIZE WINNERS

Our student from the Department of Electrical and Electronics Engineering, Dhinakaran M and Mohanraj S of 2nd year, has won the Second place in Photography Event in the National Level Technical Symposium held at Mahendra Engineering College, Namakkal on 19.10.2023. A big hearty congratulations!



## STUDENT PAPER PRESENTATION IN CONFERENCES / SYMPOSIUM

The following students of Final year Electrical and Electronics Engineering are presented their papers in National Conference on New Horizon in Science, Engineering & Technology- NHSET-2k24 at Selvam College of Technology, Namakkal on 21& 22nd September 2023

Student Name	Paper Title
Madhunisha M	SMART HYBRID ELECTRIC VEHICIE AND CO <sub>2</sub> EMISSION CONTROL



## STUDENT PAPER PRESENTATION IN CONFERENCES / SYMPOSIUM

The following students of Electrical and Electronics Engineering are presented their papers in National Level technical Symposium TEKCLUSTER'23 at Selvam college of technology, Namakkal on 26.08.2023.

Student Name	Year /	Paper Title
YOGESH KUMAR G	IV/VII	Patient information monitoring and energy calling system using LORA
PRIYA C	II/III	Brushless DC Motor speed controller for electric motor bikes
SWETHA M	II/III	Brushless DC Motor speed controller for electric motor bikes
KIRUTHIKA T	II/III	Brushless DC Motor speed controller for electric motor bikes

## STUDENT PAPER PRESENTATION IN SYMPOSIUM

The following students of Electrical and Electronics Engineering are presented their papers in National Level technical Symposium IRAI AMCEM 23 at Annai Mathammal Sheela Engineering College, Namakkal on 19.10.2023.

Student Name	Year / Sem	Paper Title
KASTHURI R	III/V	Automobile safety system
VISHNUPRIYA K	III/V	Automobile safety system
LAKSHMIPATHI P	III/V	Automobile safety system
ABINAYA M	III/V	Automobile safety system

## STUDENT ATTENDED WORKSHOP / SEMINAR

Student name	Year	Title of the Seminar / Workshop Attended	Date	Organized Institution & Venue
DHANUSH K	III	Hands on training on E-VEHICLE DESIGN	06.10.2023	KSR Institute for Engineering and technology-Namakkal
BHARATHRAJ A				
MEISURYA S				
BALAMURUGAN P	IV	Workshop on Science and technology capacity building for industrial needs	(29.08.2023-31.08.2023)	Government college of Engineering-Salem
KISANTH R				
BARATHRAJ S				
BALAMURUGAN P				
LAKSHMIPATHI.P		The role of internet of things(IOT)	24.07.2023-25.07.2023	Mahendra institute of technology-Namakkal

## STUDENT ATTENDED WORKSHOP / SEMINAR

S. No	Student name	Year/Sec	Title of the Seminar / Workshop Attended	Date	Organized Institution & Venue
1	BALAMURUGAN P	IV-EEE	Science and technology capacity building for industrial needs (workshop)	(29.08.2023 - 31.08.2023)	Government college of Engineering-Salem
2	KISANTH R	IV-EEE	Science and technology capacity building for industrial needs (workshop)	(29.08.2023 - 31.08.2023)	Government college of Engineering-Salem
3	BARATHRAJ S	IV-EEE	Science and technology capacity building for industrial needs (workshop)	(29.08.2023 - 31.08.2023)	Government college of Engineering-Salem
4	BALAMURUGAN P	IV-EEE	The role of internet of things(IOT)	24.07.2023-25.07.2023	Mahendra institute of technology-Namakkal
5	SOWMIYA C	III-EEE	Hands on training on E-VEHICLE DESIGN	15.09.2023	PGP College of technology-Namakkal
6	DEEPADHARSHINI S	III-EEE	Hands on training on E-VEHICLE DESIGN	15.09.2023	PGP College of technology-Namakkal
7	DHANUSH K	II-EEE	Hands on training on E-VEHICLE DESIGN	06.10.2023	KSR Institute for Engineering and technology-Namakkal
8	BHARATHRAJ A	II-EEE	Hands on training on E-VEHICLE DESIGN	06.10.2023	KSR Institute for Engineering and technology-Namakkal
9	MEISURYA S	II-EEE	Hands on training on E-VEHICLE DESIGN	06.10.2023	KSR Institute for Engineering and technology-Namakkal
10	MOHANRAJ V	III-EEE	Mastering Embedded systems from theory to Practice	06.10.2023	KSR Institute for Engineering and technology-Namakkal
11	GOKUL RAJ T	III-EEE	Mastering Embedded systems from theory to Practice-(Workshop)	06.10.2023	KSR Institute for Engineering and technology-Namakkal
12	GOKUL RAJ T	III-EEE	Greating up for industry 4.0	16.10.2023	Mahendra institute of technology-Namakkal
13	MOHANRAJ V	III-EEE	Greating up for industry 4.0	16.10.2023	Mahendra institute of technology-Namakkal
14	LAKSHMIPATHI.P	III-EEE	The role of internet of things(IOT)	24.07.2023-25.07.2023	Mahendra institute of technology-Namakkal

## STUDENT ATTENDED WORKSHOP / SEMINAR

S. No.	Student name	Year/Sec	Title of the Seminar / Workshop Attended	Date	Organized Institution & Venue
15	HARISH R	III-EEE	Seminar- Implementation machine learning and AI Algorithm in VLSI Design Technology	06.12.2023- 08.12.2023	Erode Sengunthar Engineering College
16	MEISURYA S	II-EEE	Seminar- Implementation machine learning and AI Algorithm in VLSI Design Technology	06.12.2023- 08.12.2023	Erode Sengunthar Engineering College
17	KARTHICK S	II-EEE	Seminar- Implementation machine learning and AI Algorithm in VLSI Design Technology	06.12.2023- 08.12.2023	Erode Sengunthar Engineering College
18	RAMKUMAR M	II-EEE	Seminar- Implementation machine learning and AI Algorithm in VLSI Design Technology	06.12.2023- 08.12.2023	Erode Sengunthar Engineering College
19	NITHIYANANTHAM R	II-EEE	Seminar- Implementation machine learning and AI Algorithm in VLSI Design Technology	06.12.2023- 08.12.2023	Erode Sengunthar Engineering College
20	BHARATHRAJ A	II-EEE	Seminar- Implementation machine learning and AI Algorithm in VLSI Design Technology	06.12.2023- 08.12.2023	Erode Sengunthar Engineering College
21	VISHNUPRIYA K	III-EEE	The role of internet of things(IOT)	24.07.2023- 25.07.2023	Mahendra institute of technology-Namakkal
22	BARATHWAJ S	II-EEE	The role of internet of things(IOT)	24.07.2023- 25.07.2023	Mahendra institute of technology-Namakkal
23	KISANTH	IV-EEE	The role of internet of things(IOT)	24.07.2023- 25.07.2023	Mahendra institute of technology-Namakkal
24	ABINAYA M	III-EEE	The role of internet of things(IOT)	24.07.2023- 25.07.2023	Mahendra institute of technology-Namakkal
25	KASTHUR R	III-EEE	The role of internet of things(IOT)	24.07.2023- 25.07.2023	Mahendra institute of technology-Namakkal

## STUDENT OTHER EVENT PARTICIPATIONS—PROJECT

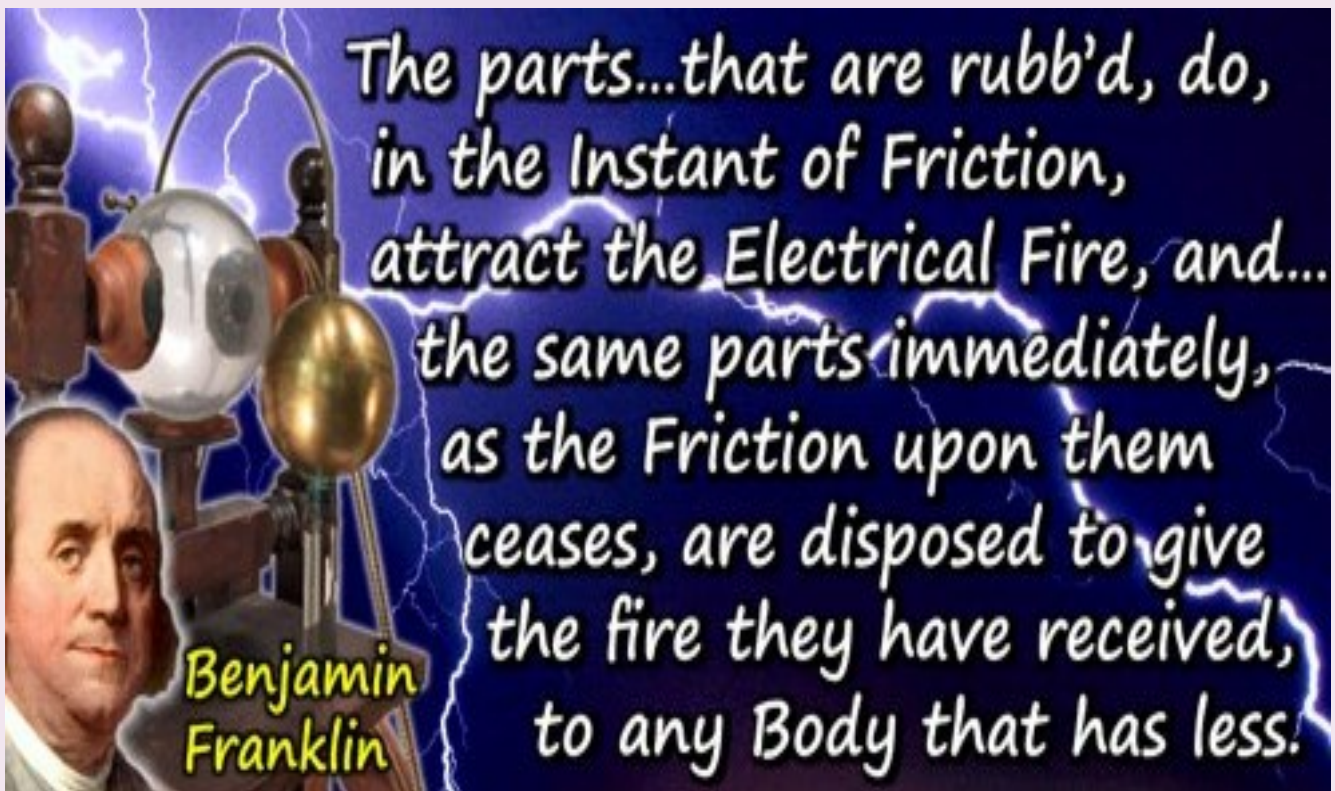
Student Name	Year	Project Title	Date	Organizing Institution & Venue
DEEPADHARSHINI S	III-EEE	IoT Based multilevel Smart car parking system	01.03.2024	Muthayammal College of Engineering, Namakkal
DHANUSH KUMAR A	II-EEE	Smart Energy Meter	22.03.2024	AVS Engineering college, Salem
BHARATHIRAJA S	II-EEE	Smart Energy Meter	03.04.2024	Mahendra Engineering College, Namakkal
DHANUSH KUMAR A	II-EEE	IoT based Smart Energy Meter	03.04.2024	Mahendra Engineering College, Namakkal

## STUDENT - INTERNSHIP / IMPLANT TRAINING

Sl. No.	Student Name	Duration (Days)	Company Name
1	LAKSHMIPATHI P	15 Days	Emgitz Technologies, Salem junction,, Salem
2	VISHNU PRIYA K	15 Days	Emgitz Technologies, Salem junction,, Salem
3	SOWMIYA C	15 Days	Emgitz Technologies, Salem junction,, Salem
4	ABINAYA M	15 Days	Emgitz Technologies, Salem junction,, Salem
5	KASTHURI R	15 Days	Emgitz Technologies, Salem junction,, Salem
6	NIRMALA.K	15 Days	Emgitz Technologies, Salem junction,, Salem
7	DEEPADHARSHINI S	15 Days	Emgitz Technologies, Salem junction,, Salem
8	HARISH G	30 Days	Emgitz Technologies, Salem junction,, Salem
9	DHINAKARAN B	15 Days	Emgitz Technologies, Salem junction,, Salem
10	MOHAN RAJ V	15 Days	Emgitz Technologies, Salem
11	MATHANKUMAR K	15 Days	Corizo, 5th floor , classic Arena, Hosur Rd, Bangalore, 7624997566
12	CHANDRU D	15 Days	Sri ram bajaj, Near kalaivani mandabam, Namakkal main rd, Thuthikulam, Namakkal.9677779816
13	DINESH KUMAR V	15 Days	Sri ram bajaj, Near kalaivani mandabam, Namakkal main rd, Thuthikulam, Namakkal.9677779816
14	GOKUL C	15 Days	Sri ram bajaj, Near kalaivani mandabam, Namakkal main rd, Thuthikulam, Namakkal.9677779816

## STUDENT - SPORTS ACTIVITIES

Student name	Year	Title of the Event	Date	Organizing Institution & Venue	Prize Won
MADHUNISHA M	IV	SILAMBAM	22.10.2023	EKALAIVA KALAIKODAM, NAMAKKAL	III



## Editorial Board

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

## 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**