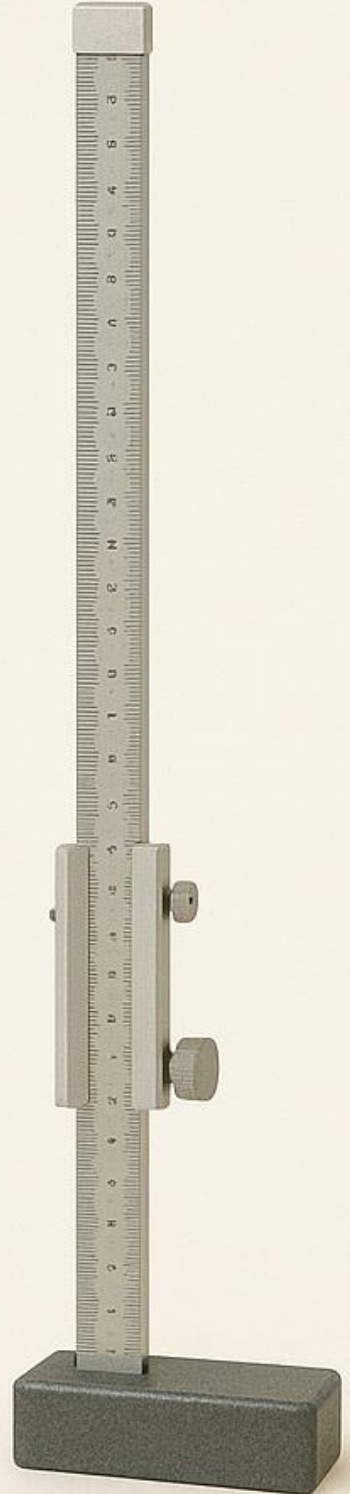


*Department of Mechanical Engineering*

**Volume 11**  
**Issue 1**  
**Dec 2023**



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## Department of Mechanical Engineering



## **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 Mechanical Engineering**

The Mechanical Engineering Department was started in the year 2009 and accredited by NBA in 2019. It offers B.E. with 120 student intake, M.E. – I.E., and Ph.D.in Full time and Part time modes. The department has 12 Curriculum Laboratories and 3 Industry supported labs providing 8 Value added courses and a Centre of Excellence - CNC Machines Laboratory. Anna University recognized Research & Development Centre with 3 Ph.D., Supervisors and 7 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**

To produce competent Mechanical Engineer capable of working in an interdisciplinary environment contributing to benefits of society through innovation, leadership and entrepreneurship.

## **Department Mission**

- ⇒ Imparting the highest quality education through state-of-the-art facilities to build students' professional practice and make them globally competitive Mechanical Engineers by enhancing their knowledge.
  - ⇒ Fostering professional and ethical values and training the students to build leadership and entrepreneurship qualities for their career development.
  - ⇒ Undertaking research and developmental activities to provide service for the sustainable development of the society.
-

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates of Mechanical Engineering will

PEO 1: Apply their mechanical and allied knowledge to address technical and societal problems with creativity and ethical values.

PEO 2: Design and analyse mechanical systems with strong fundamentals and work in synchronisation with industries and research organisations as team members on multi-disciplinary projects

PEO 3: Seek out positions of leadership actively within their profession and their community through lifelong learning.

## PROGRAM SPECIFIC OUTCOMES (PSOs)

Graduates of the program will be able to

PSO-1: Apply principles of basic sciences, machine design, manufacturing, thermal engineering and management to identify, formulate and solve real time problems and societal issues for the sustainable development.

PSO-2: Develop their abilities to qualify for Employment, Higher studies and Research in Mechanical Engineering.

## 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**  
College of Technology  
Accredited by NAAC 'A' Grade & NBA  
**AUTONOMOUS**

DEPARTMENT OF MECHANICAL ENGINEERING IN ASSOCIATION WITH IIC AND EDC ORGANIZING

Seminar on  
**"ANGEL INVESTMENT / VC FUNDING OPPORTUNITY FOR EARLY STAGE ENTREPRENEURS"**

All Mechanical Engineering Students  
09.08.2023  
10.30 AM to 12.00 PM  
Ramanujan Hall

**Mr. V. Gunasekaran,**  
Chief Manager & Vice President,  
UTI AMC Ltd,  
Salem.

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



Our Department of Mechanical Engineering, in collaboration with IIC and EDC, successfully hosted a seminar titled "Exploring Angel Investment and VC Funding Opportunities for Early Stage Entrepreneurs." The event took place in the Ramanujan Hall on August 9th, 2023, starting at 10:30 a.m. We were honored to have Mr. V. Gunasekaran, Chief Manager & Vice President of UTI AMC Ltd, Salem, as the Chief Guest for the program. Mr. Gunasekaran shared valuable insights during his address, encouraging students to cultivate innovative ideas.

**Gnanamani**  
College of Technology  
Accredited by NAAC 'A' Grade & NBA  
**AUTONOMOUS**

DEPARTMENT OF MECHANICAL ENGINEERING IN ASSOCIATION WITH ISTE  
Organizing Alumni Talk series on  
**"FUTURISTIC SCOPE IN AERO SPACE INDUSTRY"**

**Vasanthakumar M,**  
Structural Design and Analysis Engineer,  
Structural Engineer,  
Vikram Sarabhai Space Centre,  
Indian Space Research Organization,  
Thiruvananthapuram.

All Mechanical Engineering Students  
14.09.2023  
11:15AM | Michael Faraday Hall

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



Our Department of Mechanical Engineering in association with ISTE have organized an Alumni Talk series on "Futuristic Scope of Aerospace Engineers" in our institution on 14.09.2023. The distinguished alumni Mr.M.Vasanthakumar, Structural Design and Analysis Engineer, Vikram Sarabhai Space Centre, Thiruvananthapuram, set the context of the entire scope of doing research activities and job opportunities enriched in the entire research field.

## PROGRAMME ORGANIZED

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

DEPARTMENT OF MECHANICAL ENGINEERING  
IN ASSOCIATION WITH IEI ORGANIZING  
Seminar on

**PROGRAMMING DELTA  
PLC USING LD**

**Mr. Aravinth S.,**  
Senior Project Engineer,  
IPCS Global Solutions Pvt Ltd,  
Salem.

All Mechanical Engineering Students  
14.09.2023  
2.30 pm to 4 pm  
Michael Faraday Hall

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



Our Department of Mechanical Engineering, in collaboration with IEI, hosted a seminar titled "Programming Delta PLC using LD" on September 14th, 2023, at 3 pm. The distinguished guest speaker was Er. S. Aravinth, Senior Project Engineer at IPCS Global Solutions Pvt. Ltd., Salem. Mr. Aravinth shared valuable insights and techniques for programming Delta PLC using LD, highlighting its significance in diverse mechanical industries. The session provided valuable insights into the latest techniques applied in PLC technology.

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

DEPARTMENT OF MECHANICAL ENGINEERING  
IN ASSOCIATION WITH III CELL ORGANIZING  
Seminar on

**ADVANCEMENTS IN  
NON DESTRUCTIVE  
TESTING TECHNIQUES**

**Dr.P.Yuvanarasimman,**  
QC Inspector,  
Waves Tech Inspections,  
Trichy

All Mechanical Engineering Students  
27.09.2023  
10:30 am to 12:00 pm  
Ramanujan Hall

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



Our Department of Mechanical Engineering in association with III Cell have organized a seminar on "Advancements in Non Destructive Testing Techniques" on 27.09.2023. The Chief Guest, Dr.P.Yuvanarasimman, QC Inspector, Waves Tech Inspections, Trichy, shared the knowledge of NDT techniques and its importance in various mechanical industries.

## PROGRAMME ORGANIZED

**Gnanamani**  
College of Technology  
Accredited by NAAC 'A' Grade & NBA  
**AUTONOMOUS**

DEPARTMENT OF MECHANICAL ENGINEERING  
INAUGURAL FUNCTION OF MECHANICAL ASSOCIATION  
AND ASSOCIATION WITH IEI ORGANIZING

Seminar on  
**JOB OPPORTUNITIES  
IN NDT**

All Mechanical Engineering Students  
04.10.2023  
11 AM to 12.30 PM  
Ramanujan Hall

**Mr. Aswin Vineeth,**  
Technical Supervisor,  
Integrity Inspection Services,  
Salem.

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



We inaugurated the Association of Mechanical Engineering Department on October 4, 2023. This was followed by a one-day seminar titled "Job Opportunities in NDT," held at Ramanujan Hall. The distinguished guest speaker for the event was Mr. Aswin Vineeth, Technical Supervisor at Integrity Inspection Services, Salem. He delivered an insightful talk on the evolving technologies and job prospects in the field of NDT.

**Gnanamani**  
College of Technology  
Accredited by NAAC 'A' Grade & NBA  
**AUTONOMOUS**

DEPARTMENT OF MECHANICAL ENGINEERING  
ASSOCIATION WITH IEI ORGANIZING

Seminar on  
**"AWARENESS ABOUT SOCIETY OF  
AUTOMOTIVE ENGINEERS (SAEINDIA)  
VEHICLE DESIGN COMPETITIONS"**

All Mechanical Engineering Students  
10.30am to 12.30pm  
09-10-2023  
Ramanujan hall

**Dr. A. Vadivel,**  
Assistant professor (SI. Gr),  
Sri Ramakrishna Engineering College and  
Treasurer, Society of Automotive Engineers,  
Coimbatore Division - Southern Section,  
Coimbatore.

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



Our Department of Mechanical Engineering in association with Institution of Engineers (India) (IEI) organized a seminar program on "Awareness about Society of Automotive Engineers (SAE INDIA) Vehicle Design Competitions" on 09.10.2023. The Chief Guest was Dr. A. Vadivel, Assistant professor (SI. Gr), Sri Ramakrishna Engineering College, Coimbatore. Treasurer, Society of Automotive Engineers (SAE INDIA), Coimbatore Division - Southern Section. He shared the importance & valuable points about SAE INDIA and vehicle design competitions to our students.

## PROGRAMME ORGANIZED

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

DEPARTMENT OF MECHANICAL ENGINEERING  
IN ASSOCIATION WITH ISTE Organizing

Seminar on  
**"CAREER OPPORTUNITIES IN  
PRODUCT DESIGN AND ANALYSIS  
FOR MECHANICAL ENGINEERS"**

**M.R.Hariharan,**  
Senior Cad Engineer – Business Support,  
CADD CENTRE Training Services Pvt Ltd,  
Mylapore, Chennai.

All Mechanical Engineering Students  
10.30am to 12.30pm  
11-10-2023  
Ramanujan hall

+91 7596293888 info@gct.org.in www.gct.org.in



Our Department of Mechanical Engineering in association with ISTE have organized a seminar on "Career Opportunities in Product Design and Analysis for Mechanical Engineers" on 11.10.2023. The Chief Guest of the event was Mr.M.R.Hariharan, Senior CAD Engineer-Business support, CADD CENTRE Training Services Pvt Ltd, Mylapore, Chennai. He addressed the job descriptions for Design Engineers and the value of software expertise in the fields of Mechanical and Agricultural Engineering.

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

DEPARTMENT OF MECHANICAL ENGINEERING  
In Association with IEI Organizing

Seminar on  
**"WHAT NEXT? OPPORTUNITIES  
IN AUTOMATION FOR  
MECHANICAL ENGINEERS"**

**Er.S.Chandrasekhar,B.E.,MBA.,**  
•Business Director, Engineering Services Pvt Ltd,  
•Managing Director, Leo Royal Tech Service Pvt Ltd,  
•Head of Learning, Lattice Learn, Chennai.

All Mechanical Engineering Students  
19.10.2023  
2.30 pm to 4 pm  
Ramanujan Hall

+91 7596293888 info@gct.org.in www.gct.org.in



Our Department of Mechanical Engineering in association with IEI conducted a seminar on "What Next? Opportunities in Automation for Mechanical Engineers" on 19.10.2023. The Chief Guest of the event was Er.S.Chandrasekaran Hariharan, Managing Director, Leo Royal Tech services pvt Ltd, Chennai. He addressed scopes of jobs in aspects of design engineer and the importance of software knowledge in mechanical field.

## PROGRAMME ORGANIZED

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

**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of HRD Initiative)

DEPARTMENT OF MECHANICAL ENGINEERING IN ASSOCIATION WITH IIC

ORGANIZING SEMINAR ON

**ENTREPRENEURSHIP OPPORTUNITIES IN CAD DESIGNING**

ALL MECHANICAL ENGINEERING STUDENTS

26.10.2023

10:30 AM

RAMANUJAN HALL

Mr V. AYYAPPAN  
Director-Abode Designerz  
Coimbatore

+91 7598293888 | Info@gct.org.in | www.gct.org.in



Our Department of Mechanical Engineering & Agricultural Engineering in association with Institution Innovation Council (IIC) have organized a seminar on "Entrepreneurship Opportunities in CAD Designing" on 26.10.2023. The Chief Guest was Mr.V.Ayyappan, Director -Abode Designerz, Coimbatore, sparked our students' imagination, motivating them to explore and equip themselves in the sector.

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

**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of HRD Initiative)

DEPARTMENT OF MECHANICAL ENGINEERING IN ASSOCIATION WITH IIC

ORGANIZING SEMINAR ON

**"AN OVERVIEW ABOUT HVACR SUMMARY AND OPPORTUNITIES FOR FUTURE GRADUATES"**

Mr.Vidyanath P V  
President  
ISHRAE, Salem.

Students

15.11.2023

11.00 A.M. to 12.30 P.M.

Ramanujan Hall

+91 7598293888 | Info@gct.org.in | www.gct.org.in



Our Department of Mechanical Engineering in association with IEI conducted a seminar on "What Next? Opportunities in Automation for Mechanical Engineers" on 19.10.2023. The Chief Guest of the event was Er.S.Chandrasekaran Hariharan, Managing Director, Leo Royal Tech services pvt Ltd, Chennai. He addressed scopes of jobs in aspects of design engineer and the importance of software knowledge in mechanical field.

## PROGRAMME ORGANIZED - ALUMNI TALK SERIES

Our Department of Mechanical Engineering in association with ISTE have organized an Alumni Talk series on “Futuristic Scope of Aerospace Engineers” in our institution on 14.09.2023. The distinguished alumni Mr.M.Vasanthakumar, Structural Design and Analysis Engineer, Vikram Sarabhai Space Centre, Thiruvananthapuram, set the context of the entire scope of doing research activities and job opportunities enriched in the entire research field.



Our Department of Mechanical Engineering organized an Alumni Talk Series on "What step can one take to excel as an Engineering student?" on 18.11.2023. The Chief Guest was Mr.P.Pradeep, Senior Calibration Engineer, Precise testing and Calibration Centre, Chennai. He emphasized how crucial communication skills are during the interview process and offered practical advice on how to strengthen them. In addition, he gave the students some ideas on how to apply the stories to their critical thinking.



## TECHNICAL SYMPOSIUM

The Department of Mechanical Engineering & Agricultural Engineering have jointly organized a National Level Technical Symposium "AGROMECH-2K23" On 18.10.2023. The Chief Guest was Mr. Senthil Arun Pattabiram, Manager-HR & GA, Suguna Group of Industries and Institutions, Coimbatore. 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.N.Balakrishnan Prof & Head of Mechanical Department & Mr.D.Vimalkumar, Head of Agricultural Engineering, Professors, Faculty members and students of both departments were present on the occasion.



## STUDENT AWARDS / PRIZE WINNERS

Our student from the Department of Mechanical Engineering, BULBUL KUMAR of 2nd year, has won the first place in Paper Presentation Event in the National Level Technical Symposium - "IRAI AMCEM 23" held at Annai Mathammal Sheela Engineering College on 19.10.2023. A big hearty congratulations!



Our students MOHAMMED RIZWAN M D & PRAVINKUMAR C, 3rd year of Mechanical Engineering, have won first & second place in the "CAD Modeling" event, BULBUL KUMAR, 2nd year, has won second place in the Paper Presentation event of the National level technical symposium "SPRING FEST" held at KSR Institute for Engineering & Technology on 05.10.2023. A hearty congratulations to the winners on their achievements.



## STUDENT AWARDS / PRIIZES

Our student IDHAYAN K, 2nd year Mechanical Engineering, has successfully reached "MINI MARATHON" in 12th Place of 10Km for celebrating 20th Anniversary of SIP Abacus, Salem sponsored by Government of Tamilnadu & Reliance Groups, Salem.



We are delighted to inform you that Ruthresh N A, a student from the Department of Mechanical Engineering, secured the second place in the 'Technical Quiz' event at the National-level technical symposium TECHSYM SaraYU held at Sengunthar College of Engineering on September 27th, 2023. We extend our hearty congratulations to the winners for their outstanding achievements.



## STUDENT PAPER PRESENTATION IN CONFERENCES / SYMPOSIUM

The following students of Final year Mechanical Engineering are presented their papers in International Conference on Engineering and Technology (ICET) at Selvam College of Engineering and Technology, Namakkal, Tamilnadu on 21.09.2023 & 22.09.2023

Student Name	Paper Title
Abuthathir M R	Smart Organ Box
Deepak R	
MD Arman Iqbal	
Dinesh M	
Dinesh L	Design and Fabrication of Automatic Seed sowing machine
Santhosh Jeeva S	
Manojkumar K	Bilirubin Level Measurement
Gowtham L	
Wahid Islam	
Nivash N	
Tharunkumar J B	Design and Fabrication of Automatic Seed sowing machine
Misraj kumar	

## STUDENT PAPER PRESENTATION IN CONFERENCES / SYMPOSIUM

The following students of Mechanical Engineering are presented their papers in National Level technical Symposium TEKCLUSTER'23 at Kongunadu College of Engineering & Technology, Musuri, Tamilnadu on 26.08.2023.

Student Name	Year /	Paper Title
Bulbul Kumar	II/III	Industry 4.0 & Smart Manufacture
Balaji R	III/V	Industry 4.0 & Smart Manufacture
Manikandan D	II/III	Four axis Multi-purpose cutting machine
Mohammed Rizwan MD	III/V	Four axis Multi-purpose cutting machine
Pravinkumar C	III/V	3D printing
Aravinth P	III/V	3D printing
Ruthresh N A	III/V	Multipurpose Agricultural Machine
Uthayasurya T	III/V	Multipurpose Agricultural Machine

## STUDENT PAPER PRESENTATION IN CONFERENCES / SYMPOSIUM

The following students of Mechanical Engineering are presented their papers in National Level technical Symposium SPRINGFEST 2K23 at KSR Institute for Engineering and Technology, Tamilnadu on 05.10.2023.

Student Name	Year / Sem	Paper Title
M.A.Mohammed Rizwan	III/V	Driverless Car
S.Sutharsan	III/V	Driverless Car
S.Boobesh	III/V	Four Axis Multi-Purpose Cutting Machine
M.Hasan Muhammed	III/V	Four Axis Multi-Purpose Cutting Machine
M.R.Abuthahir	IV/VII	Drone Technology
R.Deepak	IV/VII	Drone Technology
J.B.Tharunkumar	IV/VII	Implementation of Smart BME Using IOT For E-Vehicle Application
S.Santhosh Jeeva	IV/VII	Implementation of Smart BME Using IOT For E-Vehicle Application

## STUDENT ATTENDED WORKSHOP / SEMINAR

Student name	Year	Title of the Seminar / Workshop Attended	Date	Organized Institution & Venue
Balaji R	III	Workshop on Media & Cine arts	23.08.2023	Kongunadu College of Engineering & Technology
Dharshalan T				
Mohammed Rizwan M A				
Sutharsan S				
Athithyan R	III	Workshop on Performance Assessment of Agricultural Machinery for Profitable Agriculture	09.09.2023	Sri Shanmuga College Of Engineering & Technology
Aakash R				
Ajay M				
Pravinkumar C				
Ruthresh N A				
Santhosh S				
Sagarkumar				

## STUDENT ATTENDED WORKSHOP / SEMINAR

Student name	Year	Title of the Seminar / Workshop Attended	Date	Organized Institution & Venue
Abuthathir M R	IV	Science and Technology Capacity Building for Industrial Needs	12.09.2023 to 14.09.2023	Government College of Engineering, Salem
Rajeshkannan V				
Dinesh M				
Kathiresh M	II	Workshop on 3D Modelling using CREO	06.10.2023	KSR Institute for Engineering & Technology
Manojkumar S				
Kathiravan M				
Mohammed Rizwan M A	III	Workshop on Theory & Practice on NDT	26.10.2023	Dhirajlal Gandhi College of Technology
Sagar Kumar				
MD Shafialam				
Abhaykumar Pandey				
Santhosh S				
Sivabalan S	II	Workshop on Theory & Practice on NDT	26.10.2023	Dhirajlal Gandhi College of Technology
Nandhakumar S				
Anbumani A				
Bulbulkumar				
Bharath C				
Idhayan K				
Gobi U				
Kishore M				
Ranjithkumar S	IV	Workshop on 3D Printing	31.10.2023	Kongunadu College of Engineering & Technology
Nivash N				
Gautam Kumar				
Deepukumar				
Rashid Qadir				

## STUDENT OTHER EVENT PARTICIPATIONS

Student name	Year / Sem	Title of the Seminar /	Date	Organized Institution & Venue
Boobesh S	III/V	Mr.Lathe & CAD Modeling	22.09.2023	Chettinad College Of Engineering And
Mohammed Hasan	III/V	CAD Modeling	22.09.2023	Chettinad College Of Engineering And
Sanjay P	III/V	Mr.Lathe & CAD Modeling	22.09.2023	Chettinad College Of Engineering And
Thangavel G	III/V	Mr.Lathe & CAD Modeling	22.09.2023	Chettinad College Of Engineering And
Sutharsan S	III/V	Mr.Lathe & CAD Modeling	22.09.2023	Chettinad College Of Engineering And
Dhinesh S	III/V	Mr.Lathe & CAD Modeling	22.09.2023	Chettinad College Of Engineering And
Kishore M	II/III	CAD Modeling	22.09.2023	Chettinad College Of Engineering And
Gopi U	II/III	CAD Modeling	22.09.2023	Chettinad College Of Engineering And
Ranjithkumar S	II/III	CAD Modeling	22.09.2023	Chettinad College Of Engineering And
Vinoth V	II/III	CAD Modeling	22.09.2023	Chettinad College Of Engineering And
Gopinath M	II/III	CAD Modeling	05.10.2023	KSR Institute for Engineering and
Manikandan D	II/III	CAD Modeling	05.10.2023	KSR Institute for Engineering and
Mohammed Rizwan M D	III/V	CAD Modeling	05.10.2023	KSR Institute for Engineering and
Pravinkumar C	III/V	CAD Modeling	05.10.2023	KSR Institute for Engineering and
Ruthresh N A	III/V	Quiz Master	26.09.2023	Sengunthar Engineering College

## STUDENT - INTERNSHIP / IMPLANT TRAINING

Name	Industry Name	Date
Golu Kumar	Essel Projects Pvt Ltd Chattisgarh	18.7.23 to 3.8.23
Aakash A	Jayam Star Automotives, Sankagiri	8.7.23 to 25.7.23
Ajay M	Jayam Star Automotives, Sankagiri	8.7.23 to 25.7.23
Athithyan R	Jayam Star Automotives, Sankagiri	8.7.23 to 25.7.23
Dharshalan T	Jayam Star Automotives, Sankagiri	8.7.23 to 25.7.23
Hasan Muhammed M	Jayam Star Automotives, Sankagiri	8.7.23 to 25.7.23
Sutharsan S	Jayam Star Automotives, Sankagiri	8.7.23 to 25.7.23
Md Shafialam	Lasen & Toubro Limited Engineers	1.7.2023 to 1.8.2023
Boobesh S	Nitro Auto Components Manufacturers, CBE	8.7.23 to 25.7.23
Mohammed Rizwan M A	Nitro Auto Components Manufacturers, CBE	8.7.23 to 25.7.23
Naveenkumar R	Nitro Auto Components Manufacturers, CBE	8.7.23 to 25.7.23
Sanjay P	Nitro Auto Components Manufacturers, CBE	8.7.23 to 25.7.23
Santhosh S	Nitro Auto Components Manufacturers, CBE	8.7.23 to 25.7.23
Abhay Kumar Pandey	Reeshav Automobiles Pvt. Ltd.	25.6.2023 to 25.7.2023
Aravinth P	SKVS Engineering Works, Erode	10.7.23 to 25.7.23
Bharath M	SKVS Engineering Works, Erode	10.7.23 to 25.7.23
Dhinesh S	SKVS Engineering Works, Erode	10.7.23 to 25.7.23
Ruthresh N A	SKVS Engineering Works, Erode	10.7.23 to 25.7.23
Thangavel G	SKVS Engineering Works, Erode	10.7.23 to 25.7.23
Uthayasurya T	SKVS Engineering Works, Erode	10.7.23 to 25.7.23
Pravinkumar C	Sri Saravanakumar Agencies, Attur	6.7.23 to 22.7.23
Sagar Kumar	Sun V Technology, CBE	19.7.23 to 4.8.23

## STUDENT - SPORTS ACTIVITIES

Student name	Year	Title of the Event	Date	Organizing Institution & Venue	Prize Won
Idhayan K	II	MINI MARATHON	15.10.2023	SIP Abacus, Salem	12 <sup>th</sup>

## STAFF INTERACTIONS - CONFERENCES

The following staff members of Mechanical Engineering are presented their papers in International Conference on Engineering and Technology (ICET) at Selvam College of Engineering and Technology, Namakkal, Tamilnadu on 21.09.2023 & 22.09.2023

Faculty name	Date	Paper Title
Dr.S. Saravanan	21&22.09.2023	Design and fabrication of automatic seed sowing machine
Dr.S.Krishnakumar	21&22.09.2023	Smart organ box
Mr.R.Sasikumar	21&22.09.2023	Bilirubin level measurements

**"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)**

## STAFF INTERACTIONS - STTP / FDP / WORKSHOP

Faculty name	Title of the Conference / Seminar / Workshop /	Date	Sponsoring Authority
Dr.S. Saravanan	FDP on “Recent Advancements in Materials, Manufacturing and Technology”	30.10.2023 to 04.11.2023	Swarnandhra College of Technology, Andra Pradesh
Mr.S.Krishnakumar	FDP on “Recent Advancements in Materials, Manufacturing and Technology”	30.10.2023 to 04.11.2023	Swarnandhra College of Technology, Andra Pradesh
Mr.R.Sri Sabarinathan	FDP on “Recent Advancements in Materials, Manufacturing and Technology”	30.10.2023 to 04.11.2023	Swarnandhra College of Technology, Andra Pradesh
Mr.C.Kumaresan	FDP on “Recent Advancements in Materials, Manufacturing and Technology”	30.10.2023 to 04.11.2023	Swarnandhra College of Technology, Andra Pradesh
Mr.A. Eswaran	FDP on “Recent Advancements in Materials, Manufacturing and Technology”	30.10.2023 to 04.11.2023	Swarnandhra College of Technology, Andra Pradesh

## STUDENTS INDUSTRIAL VISIT

The Department of Mechanical Engineering is delighted to announce that our third-year and final year students embarked on an industrial visit to Steel Authority of India Ltd (SAIL), Salem on November 4, 2023.



## *Editorial Board*

<b>Editor</b>	<b>Mr.R.Sri Sabarinathan, AP/Mech</b> <b>Mr.A.Eswaran, AP/Mech</b>
<b>Student Editors</b>	<b>Mr. Sudharsan C</b> <b>Mr. Sagar Kumar</b> <b>Mr. Mathiyas A</b>

## **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**



## INSIDE IN THIS ISSUES

- Organized Events
- Student Achievements and Awards
- Faculty Achievements and Awards

## Editorial Board

Faculty Coordinator

- Mr. R.Sri Sabarinathan
- Mr. S.Karthick

Student Coordinator

- Mr. C.Sudharsan
- Mr. Sagar Kumar
- Mr. A.Mathiyas

## NEWS LETTER:

To serve as a dynamic platform for sharing academic achievements, innovative research, technological advancements, student and faculty accomplishments, departmental events, and industry trends. It aims to foster communication, collaboration, and a sense of community among students, faculty, alumni, and industry partners, while promoting a culture of knowledge sharing, innovation, and continuous learning within the department.



**Gnanamani College of Technology**  
(Approved By AICTE & Affiliated to Anna University, Chennai)  
Accredited By NAAC "A" Grade & NBA  
NH-7, A Samuthiram, Pachal (P.O.), Namakkal - 637018  
Department of Mechanical Engineering

# **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 17 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 Mechanical Engineering

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

To produce competent Mechanical Engineer capable of working in an interdisciplinary environment contributing to benefits of society through innovation, leadership and entrepreneurship.

## Department Vision

- Imparting the highest quality education through state-of-the-art facilities to build students' professional practice and make them globally competitive Mechanical Engineers by enhancing their knowledge.
- Fostering professional and ethical values and training the students to build leadership and entrepreneurship qualities for their career development.
- Undertaking research and developmental activities to provide service for the sustainable development of the society.

## Program Educational Objectives (PEOs)

Graduates of Mechanical Engineering will

PEO1: Apply their mechanical and allied knowledge to address technical and societal problems with creativity and ethical values.

PEO2: Design and analyse mechanical systems with strong fundamentals and work in synchronisation with industries and research organisations as team members on multi-disciplinary projects.

PEO 3: Seek out positions of leadership actively within their profession and their community through lifelong learning.

## Program Specific Outcomes (PSOs)

Graduates of the program will be able to

PSO-1: Apply principles of basic sciences, machine design, manufacturing, thermal engineering and management to identify, formulate and solve real time problems and societal issues for the sustainable development.

PSO-2: Develop their abilities to qualify for Employment, Higher studies and Research in Mechanical Engineering.

# 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 re-search 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 in-formed 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.

# PROGRAM ORGANIZED BY OUR DEPARTMENT

Department of Mechanical Engineering in association with Institute's Innovation Council organized a Seminar entitled "AUTOMOTIVE DESIGN ON NEW PRODUCT DEVELOPMENT" on 21<sup>th</sup> February 2024

**Gnanamani**  
College of Technology  
Accredited by NAAC 'A' Grade & NBA  
**AUTONOMOUS**

INSTITUTION'S INNOVATION COUNCIL  
(Ministry of HRD, India)

Department of Mechanical Engineering  
In Association with IIC organizing  
Seminar on

**"AUTOMOTIVE DESIGN ON NEW PRODUCT DEVELOPMENT"**

All Mechanical Engineering Students  
21.02.2024  
10.00 pm to 12.00 pm  
GIMS Seminar Hall

**Mr.R.Ragunathan, B.E. MBA**  
Business Development Consultant,  
Institute of Industrial Design,  
Salem

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

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**AUTONOMOUS**

INSTITUTION'S INNOVATION COUNCIL  
(Ministry of HRD, India)

Department of Mechanical Engineering  
In Association with IIEI organizing  
Seminar on

**"CAREER OPPORTUNITIES IN CORE INDUSTRIES"**

Students and Faculty  
26.02.2024  
10.00 am to 12.30 pm  
Michael Faraday Hall

**Mr.K.Selvaraj, M.E.,**  
Managing Director,  
Hi-Tech CNC Automation & Sun  
V Technology,Coimbatore.

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

Department of Mechanical Engineering in association with Institute's Innovation Council & The Institution of Engineers (India) organized a Seminar entitled "CAREER OPPORTUNITIES IN CORE INDUSTRIES" on 26<sup>th</sup> February 2024

Department of Mechanical Engineering in association with Institute's Innovation Council & The Institution of Engineers (India) organized Two days Workshop entitled "DESIGN THINKING AND INNOVATION DESIGN USING 3D SCANNING AND 3D PRINTING" on 27<sup>th</sup> & 28<sup>th</sup> February 2024

**Gnanamani**  
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**AUTONOMOUS**

INSTITUTION'S INNOVATION COUNCIL  
(Ministry of HRD, India)

Department of Mechanical Engineering  
In Association with IIC and IIEI organizing  
Two Day Workshop on

**DESIGN THINKING AND INNOVATION DESIGN USING 3D SCANNING AND 3D PRINTING**

Students and Faculty  
27.02.2024 & 28.02.2024  
10.00 am  
Ramanujan Hall

**Mr Mohamed Aasif,**  
Business Development Officer,  
Insource Design Tech,  
Salem

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# PROGRAM ORGANIZED BY OUR DEPARTMENT

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INSTITUTION'S INNOVATION COUNCIL  
IN ASSOCIATION WITH ISTE

Department of Mechanical Engineering  
In Association with IIC & ISTE  
Organizing  
One Day Workshop on  
**"Design of E-Vehicles"**

All Mechanical Engineering Students  
06.03.2024  
10.30 am to 04.30 pm  
Michael Faraday Hall

**Mr.Mothilal Sivasubramaniam**  
Head New Ventures,  
eNow Global Private Limited,  
Coimbatore,

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

Department of Mechanical Engineering in association with Institute's Innovation Council & Indian Society for Technical Education (ISTE) organized one day workshop entitled "DESIGN OF E-VEHICLES" on 06<sup>th</sup> March 2024

Department of Mechanical Engineering in association with The Institution of Engineers (India) organized a Seminar entitled "CNC TECHNOLOGY IN PRODUCTION ENGINEERING" on 11<sup>th</sup> March 2024

**Gnanamani**  
College of Technology  
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**AUTONOMOUS**

Department of Mechanical Engineering  
In Association with IEI organizing  
Seminar on  
**CNC TECHNOLOGY  
IN PRODUCTION  
ENGINEERING**

**Mr.S.Baskaran**  
Managing Director,  
New Premier CNC Training Institute

All Mechanical Engineering Students  
11.03.2024  
10.30 am to 12.00 pm  
Ramanujan Hall

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

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Department of Mechanical Engineering  
In Association with Higher Education Cell  
and ISTE Organizing  
Seminar on  
**"Opportunities in Higher  
Education and Public Sector  
for Engineering Graduates"**

**Mr.N.Jayaprakash**  
Sr Executive -Academic Relations,  
ACE Engineering Academy,  
Coimbatore.

All Mechanical Engineering Students  
12.03.2024  
2.30 pm to 4 pm  
Ramanujan Hall

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

Department of Mechanical Engineering in association with Higher Education Cell & Indian Society for Technical Education (ISTE) organized a seminar entitled "OPPORTUNITIES IN HIGHER EDUCATION AND PUBLIC SECTOR FOR ENGINEERING GRADUATES" on 12<sup>th</sup> March 2024

# PROGRAM ORGANIZED BY OUR DEPARTMENT

Department of Mechanical Engineering in association with The Indian Society of Heating, Refrigerating and Air Conditioning Engineers organized "ISHRAE STUDENT CHAPTER CHARTER & INSTALLATION CEREMONY" on 20<sup>th</sup> March 2024

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STUDENTS e-ISHRAE

ISHRAE  
Salim Sub Chapter

Department of Mechanical Engineering & Agricultural Engineering  
Organizes  
**"ISHRAE STUDENT CHAPTER CHARTER & INSTALLATION CEREMONY"**

Staffs and Students  
20.03.2024  
10:00 a.m. 12:30 p.m.  
Ramanujan Hall

Mr D. Maheswaran  
Installation Officer,  
ISHRAE

**Gnanamani**  
College of Technology  
Accredited by NAAC 'A' Grade & NBA  
**AUTONOMOUS**

Department of Mechanical Engineering  
In Association with ISTE organizing an  
Alumni Talk Series on  
**"SUSTAINABLE DEVELOPMENT  
IN PRODUCTION TECHNOLOGY"**

**Bharanitharan.M.**  
Production planning & Control,  
Royal Enfield  
Sipcot Industrial Estate Centre  
Oragadam, Chennai-602105

All Mechanical Engineering Students  
25-04-2024 10.30am to 12.30pm  
SCAN HERE

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

Department of Mechanical Engineering in association with Indian Society for Technical Education (ISTE) organized an Alumni Talk Series entitled "SUSTAINABLE DEVELOPMENT IN PRODUCTION TECHNOLOGY" on 25<sup>th</sup> April 2024

Department of Mechanical Engineering in association with IIC & EDC organized an Alumni Talk Series entitled "JOURNEY OF A SUCCESSFUL ENTREPRENEUR" on 3<sup>rd</sup> May 2024

**Gnanamani**  
College of Technology  
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**AUTONOMOUS**

INSTITUTION'S INNOVATION COUNCIL  
(Ministry of Education, India)

Department of Mechanical Engineering in association  
with IIC and EDC organizing  
Alumni Talk Series  
**Journey of A Successful  
Entrepreneur**

All Mechanical Engineering Students  
03-05-2024  
10:30 AM to 12:00 PM

Mr.G. Muralitharan,  
Managing Director,  
Sri Gnanavel Tex, GKM Motors,  
Gurusamipalayam, Namakkal

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## Students Achievements and Awards

Sl. No.	Student Name	Date	Activity (Awards)	Awarding Institution / Organization
1	Aravinth P	04.03.24 & 05.03.24	Photography (I Prize)	Government College of Engineering, Salem
2	Pravinkumar C	04.03.24 & 05.03.24	Treasure Hunt (I Prize)	Government College of Engineering, Salem
3	Uthayasurya T	04.03.24 & 05.03.24	Minute to Win IT (II Prize)	Government College of Engineering, Salem
4	Sanjay P	04.03.24 & 05.03.24	Treasure Hunt (I Prize)	Government College of Engineering, Salem
5	Naveenkumar R	04.03.24 & 05.03.24	Treasure Hunt (I Prize)	Government College of Engineering, Salem
6	Mohammed Rizwan MA	04.03.24 & 05.03.24	Treasure Hunt (I Prize)	Government College of Engineering, Salem
7	Naveen R	22.03.2024	Reels (I Prize)	AVS College of Technology
8	Public Profile Ebinesar J	22.03.2024	Tale Twist (I Prize)	AVS College of Technology
9	Balaji R	05.04.2024	GD Battle (I Prize)	Dhirajlal Gandhi College of Technology
10	Boobesh S	22.01.24 to 12.04.24	NPTEL Exam (Pass)	IIT, Kanpur
11	Sudharsan S	22.01.24 to 12.04.24	NPTEL Exam (Pass)	IIT, Kanpur
12	Sivasakthi K	22.01.24 to 12.04.24	NPTEL Exam (Pass)	IIT, Kanpur

## Journal Published by Faculty

Sl. No.	Faculty name	Paper Title	Journal Name Volume No, Month/ Year, Page Nos.
1	Dr. N.Balakrishnan	Experimental Investigation of a solar still system with a preheater and nanophase change materials	Journal of Process Mechanical Engineering
2	Dr.S.Krishnakumar	Impact of magnetic, thermal, structural, morphological and optical characteristics on room temperature ferromagnetism of pristine and cerium doped ZnO nanocomposites	Design Journal of Nanomaterials and Biostructures, Vol.19, No.2 April-June 2024, p.933-940
3	Dr.S.Krishnakumar	Fabrication of nano Sic and BF-bonded magnesium alloy(AZ80) hybrid nanocomposite via liquid state stir casting process: characteristics	International journal of cast materials research, vol.37, no.3, 196-207
4	Dr.S.Krishnakumar	Solar Power Based Boiler Controller With Temperature Display	IJRSET-International Journal of Innovative Research in Science, Engineering and Technology, Volume 13, Issue 2, February 2024
5	Public Profile Mr.S. Karthick	Comparison of Performance Combustion and Emission Parameters for Aluminium Oxide Nano Particles Blended with Used Vegetable Oil Biodiesel in an I.C Engine	International Journal of Innovative Research in Science, Engineering and Technology, Vol 13, Issue 5, May 2024, 7390-7396
6	Mr.R.Sri sabarinathan	Design, Fabrication and Analysis of Vacuum Assisted Wall Climber	International Journal of Innovative Research in Science, Engineering and Technology Vol 13, Issue 5, May 2024, 7289-7293.
7	Mr.R.Alamuthu	Numerical Study on Aluminum Metal matrix Composite for HE application	International Journal of Innovative Research in Technology, Volume 10 Issue 12, May 2024,

**“DREAM IS NOT THAT WHICH YOU SEE  
WHILE SLEEPING IT IS SOMETHING THAT  
DOES NOT LET YOU SLEEP.”**

**- A.P.J. ABDUL KALAM**



**Department of Mechanical Engineering**