

Department of Mechanical Engineering





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Editorial Board

Faculty Coordinator

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

Student Coordinator

- Mr. Sagar Kumar
- Mr. A.Mathiyas
- Mr. D.Naveen

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. Gnyanamani College of Technology which was established in the year 2006, the group comprises of Gnyanamani 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

Gnyanamani 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 18 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

The Mechanical Engineering Department was started in the year 2009 and accredited by NBA in 2019. It offers B.E. with 60 student intake, M.E. – I.E., and Ph.D. The department has 12 Curriculum Laboratories and Industry supported labs providing Value added courses and a Centre of Excellence Laboratory. Anna University recognized Research & Development Centre with 4 Ph.D. Supervisors and 6 Doctorates. The faculty of department have published in reputed journal publications. The Department has 3 Professional Societies namely IEI, ISTE and ISHRAE.

Department Vision

To prepare competent and socially responsible Mechanical Engineers equipped with emerging technologies

Department Vision

- MD1: To provide quality education to shape skilled responsible engineers.
- MD2: To promote learning, innovation and research to solve real-life problems
- MD3: To develop skills, support start-ups and work with industries to help 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 (IIC) organized a Seminar entitled "ENTREPREURSHIP OPPORTUNITIES IN FARM EQUIPMENT DESIGN" on 27th August 2024

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

INSTITUTION'S INNOVATION COUNCIL
University of Madras

Department of Mechanical Engineering
In Association with IIC and EDC
Organizing Seminar on

"ENTREPREURSHIP OPPORTUNITIES IN FARM EQUIPMENT DESIGN"

Mr.R.Killivalavan,
Proprietor,
Dhevakane Enterprises,
Anapalayam, Rasipuram (Tk).

All Mechanical Engineering Students
27.08.2024
3.00pm to 4.30pm
Ramanujan Hall

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

ISTE
INDIAN SOCIETY FOR TECHNICAL EDUCATION

Department of Mechanical Engineering
& Agricultural Engineering
In Association with ISTE organizing
Seminar on

"8D Analysis: Problem Solving Techniques of Automotive R&D"

Mr.Subramani B,
Executive Director,
KMBA Engineering Technologies,
Salem

All Mechanical Engineering Students
09.09.2024
10.00 am to 12.30 pm
Ramanujan Hall

Department of Mechanical Engineering in association with Indian Society for Technical Education (ISTE) organized a Seminar entitled "8D ANALYSIS: PROBLEM SOLVING TECHNIQUES OF AUTOMOTIVE R&D" on 09th September 2024

Department of Mechanical Engineering in association with Indian Society for Technical Education (ISTE) organized Alumni Talk Series on "CAREER GUIDANCE FOR EMPOWERING THE FUTURE PROFESSIONALS" on 29th September 2024

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

ISTE
INDIAN SOCIETY FOR TECHNICAL EDUCATION

Department of Mechanical Engineering
in Association with ISTE organizing
Alumni Talk Series on

"Career Guidance for Empowering the Future Professionals"

All Mechanical Engineering Students
20.09.2024
11:00 a.m. to 12:30 p.m.
Ramanujan Hall

Mr.R.Ragupathi,
Campus Relations Manager,
Atozerv India Pvt. Ltd.,
Coimbatore-641006

PROGRAM ORGANIZED BY OUR DEPARTMENT

MECHANICAL ENGINEERING

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

AGRI CULTURE

Approved by AICTE and affiliated by Anna University, Chennai and Accredited by NAAC 'A' Grade & NBA
HW-7, A.K. Ramalingam, Pocherai, Coimbatore, Tamil Nadu - 637018
Web: www.got.org.in, Ph: 7586233888, 7586233399

EVENT DATE
24.10.2024

Department of Mechanical & Agricultural Engineering
National Level Technical Symposium

REGISTRATION FEE:
RS.250/-
PER STUDENT

SPROUTMECH - 2K24

Last date for paper submission: 18.10.2024
Intimation for Paper selection: 21.10.2024

EVENTS FOR MECHANICAL DEPARTMENT:
PAPER PRESENTATION
TECHNICAL QUIZ
CAD MODELLING
MR MECHANIS
CONNECTION
PROJECT PRESENTATION

EVENTS FOR AGRICULTURAL DEPARTMENT:
PAPER PRESENTATION
POSTER PRESENTATION
PROJECT PRESENTATION
SEED AND MILLET IDENTIFICATION
SHORT FILM
TECHNICAL QUIZ
CONNECTIONS

Send Papers to:
Mechanical: gnanmechsypm2k24@gmail.com
Agricultural: gnanagrisymba2k24@gmail.com

FACULTY COORDINATOR
Mr. R. Sri Subramanian, AP/Mech,
9877914735

STUDENT COORDINATOR
Mr. C. Pravin Kumar, IV Mech,
9952888839

FACULTY COORDINATOR
Mr. B. Priyanka, AP/Agri,
881032834

STUDENT COORDINATOR
Mr. S. Vikram, IV Agri,
9080589891

Mr. S. Karthick, AP/Mech,
8870757486

Mr. S. Boobeth, IV Mech,
9047288808

Ms. S. Soundarya, AP/Agri,
8838161773

Ms. V. Malavathi, IV Agri,
7808872403

Department of Mechanical Engineering in association with Department of Agriculture Engineering organized one day Symposium entitled “SPROUTMECH-2K24” on 24th October 2024

Department of Mechanical Engineering in association with Institute’s Innovation Council (IIC) and The Institution of Engineers (India) organized a Guest Lecture entitled “BUILDING A CAREER IN ADVANCED WELDING & NDT: TECHNOLOGIES, TECHNIQUES, AND OPPORTUNITIES FOR MECHANICAL ENGINEERS” on 28th October 2024

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

Department of Mechanical Engineering
In Association with IEI
Organizing Guest Lecture on

“Building a Career in Advanced Welding and NDT: Technologies, Techniques, and Opportunities for Mechanical Engineers”

Mr Venkata Bubesh Kanna Jeyaraman,
Senior Trainer,
Nexora Academy,
Trichy

All Mechanical Engineering students
28.10.2024
10.30 am to 12.30 pm
Ramanujan Hall

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 IEI
Organizing Seminar on

“ADVANCED MECHANICAL ENGINEERING FOR THE NEXT GENERATION: INDUSTRY 4.0 AND BEYOND”

Mr R. Yuvaraju,
Business Development Manager,
IPCS Global Solutions Private Limited,
Salem.

All Mechanical Engineering students
29.10.2024
10.30 am to 12.30 pm
Ramanujan Hall

Department of Mechanical Engineering in association with Institute’s Innovation Council (IIC) & The Institution of Engineers (India) organized a seminar entitled “ADVANCED MECHANICAL ENGINEERING FOR THE NEXT GENERATION: INDUSTRY 4.0 & BEYOND” on 29th October 2024

PROGRAM ORGANIZED BY OUR DEPARTMENT

Department of Mechanical Engineering in association with Indian Society for Technical Education (ISTE) organized a seminar entitled "RECENT TRENDS IN MECHANICAL ENGINEERING" on 04th November 2024



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

Department of Mechanical Engineering
&
Indian Society For Technical Education
Organizing Seminar on

"Recent Trends in Mechanical Engineering"

Participants: All Mechanical Engineering Students
Date: 04-11-2024
Time: 03:00 pm - 04:30 pm
Venue: Ramanujan Hall

Mr. Raymond Richard Gnanasenthil,
Senior Design Engineer,
Harcos Technology Private Limited,
Chennai.



Gnanamani College of Technology
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Department of Mechanical Engineering
In Association with ISHARE
Organizing Seminar on

"INNOVATIVE TRENDS IN ADVANCED MANUFACTURING"

Mr. B. Rajkumar,
Training Head,
State Operations-Learning
and Development Leader
DMW, Erode.

All Mechanical Engineering students
07.11.2024
11 am to 12.30 pm
Ramanujan Hall

Department of Mechanical Engineering in association with The Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) organized a seminar entitled "INNOVATIVE TRENDS IN ADVANCED MANUFACTURING" on 8th November 2024

Department of Mechanical Engineering in association with The Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) organized a seminar entitled "BUSINESS OPPORTUNITIES IN HVAC INDUSTRY" on 8th November 2024



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

ISHRAE
SALEM SUB CHAPTER

Department of Mechanical Engineering
In Association with ISHRAE Salem Sub Chapter
Organizing Seminar on

"Business Opportunities in HVAC Industry"

Mr. S. Vijayabaskaran,
Consultant & Trainer,
Cecon Consulting and Training,
Chennai-600020.

All Mechanical Engineering Students
08.11.2024
2.00 am to 4.00 pm
Ramanujan Hall

Students Participation in Other College Events

S. No.	Student Name	Year / Sem	Event	Organizing Institution
1	Praveen A	III/V	Paper Presentation	Kongunadu College of Engineering & Technology
2	Balaji K	III/V	Paper Presentation	Kongunadu College of Engineering & Technology
3	Ebinesar J	III/V	Paper Presentation	Kongunadu College of Engineering & Technology
4	Ayyappan S	III/V	Paper Presentation	Ganesh College of Engineering
5	Kaviyarasan S	III/V	Paper Presentation	Ganesh College of Engineering
6	Aakash Prabhakar G	II/III	Paper Presentation	Ganesh College of Engineering
7	Nishanth T	II/III	Paper Presentation	Sengunthar Engineering College
8	Rajasekaran S	II/III	Paper Presentation	Sengunthar Engineering College
9	Naveenkumar R	IV/VII	Paper Presentation	Sengunthar Engineering College
10	Uthayasurya T	IV/VII	Paper Presentation	Sengunthar Engineering College
11	Ruthresh N A	IV/VII	Paper Presentation	Sengunthar Engineering College
12	Sanjay P	IV/VII	Paper Presentation	Sengunthar Engineering College
13	Sutharsan S	IV/VII	Paper Presentation	Salem College of Engineering and Technology
14	Boobesh S	IV/VII	Paper Presentation	Salem College of Engineering and Technology
15	Nishanth T	II/III	Paper Presentation	Salem College of Engineering and Technology
16	Suryaprakash K	II/III	Paper Presentation	Salem College of Engineering and Technology
17	Rajasekaran S	II/III	Paper Presentation	Salem College of Engineering and Technology
18	AakashPrabhakar G	II/III	Paper Presentation	Salem College of Engineering and Technology
19	Kaveen Kumar V	II/III	Paper Presentation	A.M.S Engineering College
20	Muthukavi K	II/III	Paper Presentation	A.M.S Engineering College

Students Participation in Other College Events

S. No.	Student Name	Year / Sem	Event	Organizing Institution
21	Rajesh V	III/V	Paper Presentation	Kongunadu College of Engineering & Technology
22	Mathiyas A	III/V	Paper Presentation	Kongunadu College of Engineering & Technology
23	Ebinesar J	III/V	Paper Presentation	Kongunadu College of Engineering & Technology
24	Thangavel G	IV/VII	Workshop	K.S.R College of Engineering
25	Santhosh S	IV/VII	Workshop	K.S.R College of Engineering
26	Dinesh S	IV/VII	Workshop	K.S.R College of Engineering
27	Adithyan R	IV/VII	Workshop	K.S.R College of Engineering
28	Ajay M	IV/VII	Workshop	K.S.R College of Engineering
29	Aakash A	IV/VII	Workshop	K.S.R College of Engineering
30	Yogeswaran S	II/III	Workshop	Kongunadu College of Engineering and Technology
31	Logeshwaran R	II/III	Workshop	Kongunadu College of Engineering and Technology
32	Dhanush Kumar V	II/III	Workshop	Kongunadu College of Engineering and Technology
33	Sakthivel U	II/III	Workshop	Kongunadu College of Engineering and Technology
34	Surya Prakash K	II/III	Workshop	Kongunadu College of Engineering and Technology
35	Akash P	II/III	Workshop	Kongunadu College of Engineering and Technology
36	Jehan M	II/III	Workshop	Kongunadu College of Engineering and Technology
37	Madhan S	II/III	Workshop	Kongunadu College of Engineering and Technology
38	Kavinkumar S	III/V	Workshop	Kongunadu College of Engineering and Technology
39	Ranjith Kumar S	III/V	Workshop	Kongunadu College of Engineering and Technology
40	Sriram Thikash S	III/V	Workshop	Kongunadu College of Engineering and Technology

Students Participation in Other College Events

S. No.	Student Name	Year / Sem	Event	Organizing Institution
41	Bharath C	III/V	Workshop	Kongunadu College of Engineering and Technology
42	Gokulnath S	III/V	Workshop	Institute of Engineering Design
43	Vigneshwar S	III/V	Workshop	Institute of Engineering Design
44	Santhosh S	III/V	Workshop	Institute of Engineering Design
45	Mathiyas A	III/V	Workshop	Institute of Engineering Design
46	Ayyappan S	III/V	Workshop	Institute of Engineering Design
47	Prakash K	III/V	Workshop	Institute of Engineering Design
48	Rajesh V	III/V	Workshop	Institute of Engineering Design
49	Praveen A	III/V	Workshop	Institute of Engineering Design
50	Bulbul Kumar	III/V	Workshop	Institute of Engineering Design
51	Srikanth N	III/V	Workshop	Institute of Engineering Design
52	Balaji K	III/V	Workshop	Institute of Engineering Design
53	Aravinth P	IV/VII	Other Event	Vidiyal Educational Trust
54	Pravinkumar C	IV/VII	Other Event	Vidiyal Educational Trust
55	Mathiyas A	III/V	Other Event	Vidiyal Educational Trust
56	Kaviyarasan S	III/V	Other Event	Vidiyal Educational Trust
57	Madhan S	III/V	Other Event	Vidiyal Educational Trust
58	Kavin Kumar S	III/V	Other Event	Vidiyal Educational Trust
59	Rajesh V	III/V	Other Event	Vidiyal Educational Trust
60	Ayyappan S	III/V	Other Event	Vidiyal Educational Trust

Students Participation in Other College Events

S. No.	Student Name	Year / Sem	Event	Organizing Institution
61	Sakthivel U	II/III	Other Event	Vidiyal Educational Trust
62	Suryaprakash K	II/III	Other Event	Vidiyal Educational Trust
63	Samigiri S	II/III	Other Event	Vidiyal Educational Trust
64	Muthukavi K	II/III	Other Event	Vidiyal Educational Trust
65	Kaveenkumar V	II/III	Other Event	Vidiyal Educational Trust
66	Yogeshwaran S	II/III	Other Event	Vidiyal Educational Trust
67	Bharath C	III/V	Other Event	Salem College of Engineering and Technology
68	Kavinkumar S	III/V	Other Event	Salem College of Engineering and Technology
69	Naveen E	III/V	Other Event	Salem College of Engineering and Technology
70	Lishanth Kumar M	III/V	Other Event	Salem College of Engineering and Technology
71	Madhan S	III/V	Other Event	Salem College of Engineering and Technology
72	Mathiyas A	III/V	Other Event	A.M.S Engineering College
73	Ebinesar J	III/V	Other Event	A.M.S Engineering College
74	Rajesh V	III/V	Other Event	A.M.S Engineering College
75	Balaji K	III/V	Blood Donation	Gnanamani College of Technology
76	Naveen D	II/III	Blood Donation	Gnanamani College of Technology
77	Kavinkumar S	III/V	Blood Donation	Gnanamani College of Technology
78	Mohankumar P	III/V	Blood Donation	Gnanamani College of Technology
79	Chandru M	II/III	Blood Donation	Gnanamani College of Technology
80	Aravinth P	IV/VII	Blood Donation	Gnanamani College of Technology
81	Thangavel G	IV/VII	Blood Donation	Gnanamani College of Technology

Students Achievements and Awards

Sl. No.	Student Name	Date	Activity (Awards)	Awarding Institution / Organization
1	Nishanth T	18.10.2024	Paper Presentation (III Prize)	Salem College of Engineering and Technology
2	Suryaprakash K	18.10.2024	Paper Presentation (III Prize)	Salem College of Engineering and Technology
3	Rajesh V	25.10.2024	Paper Presentation (III Prize)	A.M.S Engineering College
4	Mathiyas A	25.10.2024	Paper Presentation (III Prize)	A.M.S Engineering College
5	Ebinesar J	25.10.2024	Paper Presentation (III Prize)	A.M.S Engineering College
6	Mathiyas A	25.10.2024	Technical Quiz (I Prize)	A.M.S Engineering College
7	Balaji K	22.09.2024	NPTEL	IIT, Kanpur
8	Bulbul Kumar	21.09.2024	NPTEL	IIT, Roorkee
9	Rajesh V	03.11.2024	NPTEL	IIT, Kanpur
10	Mathiyas A	03.11.2024	NPTEL	IIT, Kanpur
11	Manoj Kumar S	03.11.2024	NPTEL	IIT, Kanpur

Faculty Achievements in NPTEL Exam

Sl. No.	Faculty name	Name of the Course	Awarding Institution / Organization / Journal
1	Mr.R.Sri Sabarinathan	Introduction to Composites	IIT Kanpur
2	Mr.R.Alamuthu	Introduction to Composites	IIT Kanpur
3	Mr.J.M.Nidhish	Introduction to Composites	IIT Kanpur
4	Mr.S.Gopalakrishnan	Introduction to Composites	IIT Kanpur
5	Mr.R.Sasikumar	Introduction to Composites	IIT Kanpur
6	Mr.R.Sateesh	Introduction to Composites	IIT Kanpur
7	Mr.A. Eswaran	Manufacturing Processes - Casting and Joining	IIT Kanpur

**“EDUCATION IS THE PASSPORT TO THE
FUTURE, FOR TOMORROW BELONGS TO
THOSE WHO PREPARE FOR IT TODAY.”**

- X MALCOLM



Department of Mechanical Engineering



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Editorial Board

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- 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.



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GNANAMANI COLLEGE OF TECHNOLOGY

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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 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 21th February 2024

Gnanamani
College of Technology
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AUTONOMOUS

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD, Government of 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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INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD, Government of 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 26th 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 27th & 28th February 2024

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INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD, Government of 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
Member of IIT Madras

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 06th March 2024

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



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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

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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 12th 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 20th 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

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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 25th April 2024

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

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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