

JANUARY-JUNE 2024



THE PINNACLE

**OFFICIAL NEWS LETTER OF DEPARTMENT OF MECHANICAL ENGINEERING
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY**

ABOUT us

The department of Mechanical Engineering offers both UG and PG programmes. The institution has constituted an in-house Technical Association that operates under the name of 'Association of Mechanical Engineers of AVIT'. This department has collaborated with multiple professional bodies such as the ENFUSE, SAE Collegiate Club and NIQR. The department organizes seminars, guest lectures, workshops, faculty development programs, symposia, conferences, industrial visits, in-plant training, and inter-collegiate programmes, with the goal of advancing the expertise and educational progress of faculty and students alike. The department also engages in research and consultancy projects through its Centres of Excellence, which include the Alternative Fuel Testing Centre and the Research Centre for BOSCH Automotive Research.

VISION & MISSION

VISION :

The Department of Mechanical Engineering endeavors to be the globally recognized knowledge epicenter in education, to create the well qualified Society responsible engineers, entrepreneurs and to innovate successful advancements in the research.

MISSION :

To provide quality and systemized education to enhance and enrich the skills of the mechanical engineers through the research facilities and learner friendly environment to disseminate the knowledge



PRINCIPAL DESK
Dr.G.SELVAKUMAR

I am delighted and grateful to announce the release of **THE PINNACLE**, the newsletter of the Department of Mechanical Engineering. At AVIT, each department organizes a variety of programs aimed at benefiting both students and faculty. This newsletter serves as a unified platform to highlight these efforts, understand their impact, and assess their potential for future growth. I am confident that the outcomes of these activities have been valuable to all participants, bringing honor to both the institution and the department.

The Department of Mechanical Engineering is one of the most respected branches of engineering, known for its innovation and continuous progress. It is encouraging to see that the Department of Mechanical Engineering at AVIT remains focused on its objectives and is steadily advancing toward the pinnacle of success.

I offer my sincere congratulations and best wishes to the students, faculty, editorial team, and the Head of the Department of Mechanical Engineering on the successful release of this newsletter.

My best regards to all involved.



HOD DESK
Dr. M.PRABHAHAR B.E., M.E.,MBA.,PhD

I am excited to welcome you to the latest edition of our departmental newsletter, spanning from January 2024 to June 2024. As the Head of the Department of Mechanical engineering , it is my privilege to celebrate the outstanding accomplishments and notable contributions of our dedicated faculty and talented students. Our department remains committed to excelling in education, research, and innovation, and this newsletter is a true reflection of our shared dedication and hard work. Within these pages, you will discover a wealth of insightful articles, research breakthroughs, and exciting advancements in the field of Mech. I invite you to delve into the diverse array of topics, which highlight the intellectual strength and creativity of our esteemed department members.

I would like to express my deepest gratitude to the editorial team and all contributors for their unwavering dedication in producing this informative and engaging publication. May this newsletter inspire and enlighten all who are passionate about the dynamic world of Mechanical engineering.

★ EVENTS ORGANIZED BY THE DEPARTMENT

DEPARTMENT OF MECHANICAL ENGINEERING In Association With SAE INDIA

FLY HIGH - Aeromodeling Competition

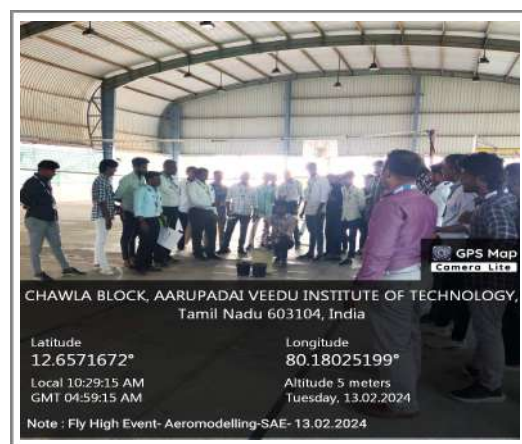
DATE : 13.02.2024

Events

Aeromodeling, Techzap, Mind your Business & Tech Connexions

Event coordinators

Dr.M.Saravana Kumar and Mr.J.Senthil
Associate professor/Mech/Avit



DEPARTMENT OF MECHANICAL ENGINEERING has organized an Employability Enhancement Course on INTEGRATING SOLAR, WIND AND ALTERNATIVE FUELS FOR A SUSTAINABLE FUTURE

DATE : 28.3.2024 to 5.4.2024

Resource persons

Dr.J.M.BABU

Professor/Mechanical , Rangarajan, Dr.Sagunthala R&D Inst.Of.Sci&Tech

Dr.A.SENTHILKUMAR, Assistant Prof(GR-II) /Mech/ AVIT.

Dr.M.SARAVANAKUMAR, Assistant Prof/Mech/ AVIT.

Mr.R.MAHESH ,Assistant Prof(GR-II) /Mech/ AVIT.

Mr.K.VIJAYAKUMAR, Assistant Prof(GR-II) /Mech/ AVIT.

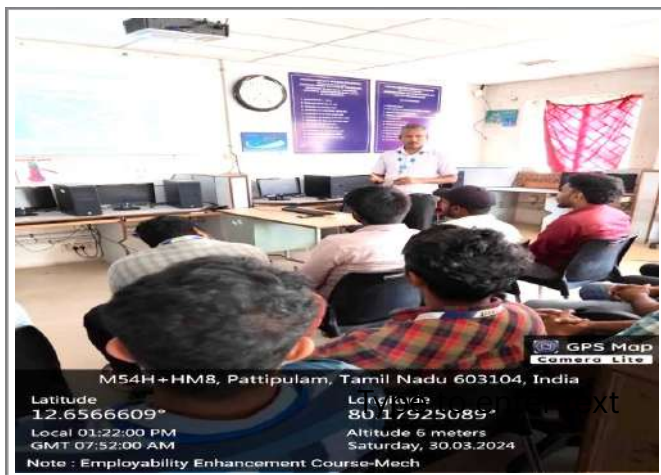
Mr.P.KUMARAN, Assistant Prof(GR-II) /Mech/ AVIT.

Dr.G.ANTONY CASMIR JAYASEELAN, Assistant Prof(GR-II) /Mech/ AVIT.

Mr.SAMUVEL MICHAEL, Assistant Prof(GR-II) /Mech/ AVIT.

MR.A.ELANTHIRAIYAN, Assistant Prof(GR-II) /Mech/ AVIT.





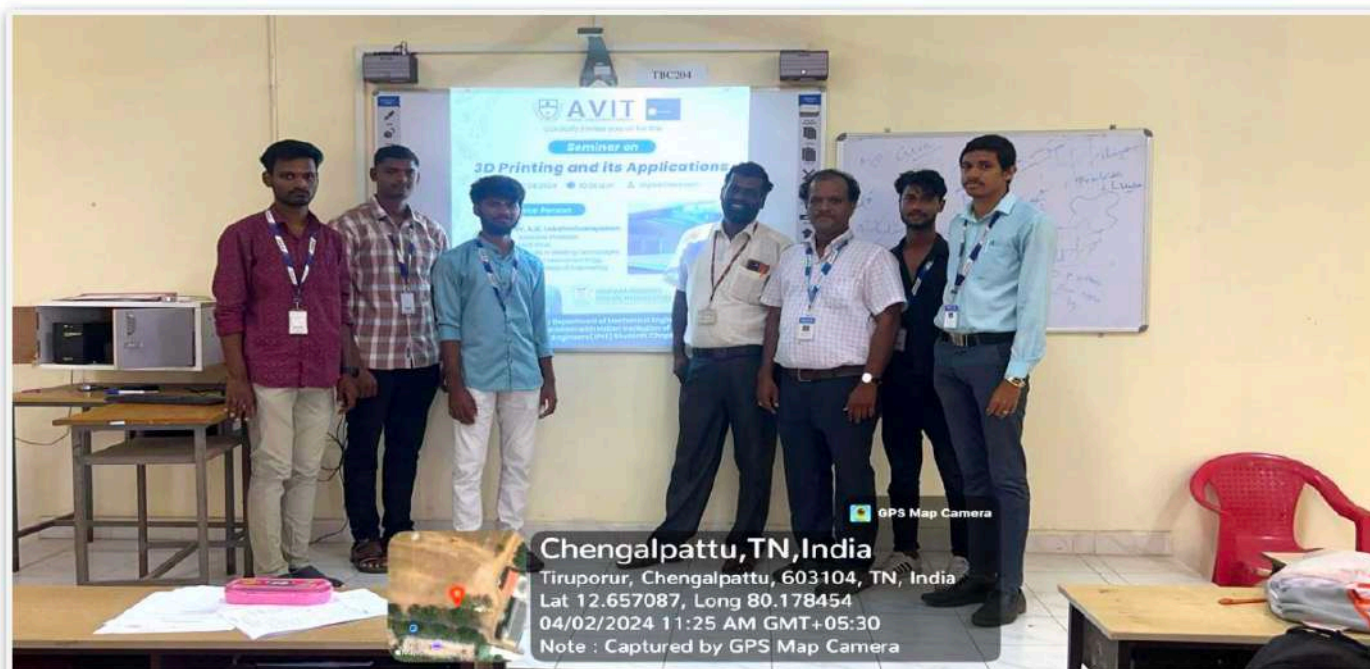
DEPARTMENT OF MECHANICAL ENGINEERING
In Association With
INDIAN INSTITUTIONAL OF PRODUCTION ENGINEERS (IIPrE) - STUDENTS CHAPTER

One Day Seminar on
"3D Printing and its Applications"

DATE : 2.4.2024

Resource person

Dr.A.K.LAKSHMINARAYANAN
ESAB Chair Faculty in Welding Technologies,
Associate professor, Department of Mechanical Engineering ,
SSN College of Engineering.



DEPARTMENT OF MECHANICAL ENGINEERING
In Association with
ENGINEERING DESIGN COLLEGIATE CLUB (EDCC)

One Day Seminar On
"DESIGN THINKING INSIGHTS FOR ENGINEERS"

DATE : 03.04.2024

Resource person

Dr.A.PARAMASIVAM

Professor, Department of Mechanical Engineering
Raja Lakshmi Engineering College, Chennai.



DEPARTMENT OF MECHANICAL ENGINEERING
in association with
NATIONAL INSTITUTION FOR QUALITY AND RELIABILITY (NIQR) – Student Chapter

One Day Seminar On "FMEA at a glance"

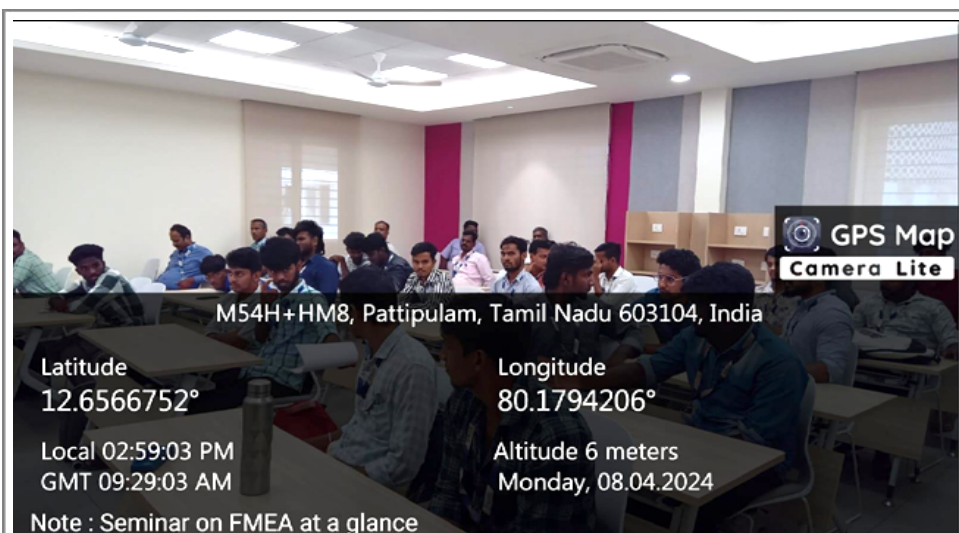
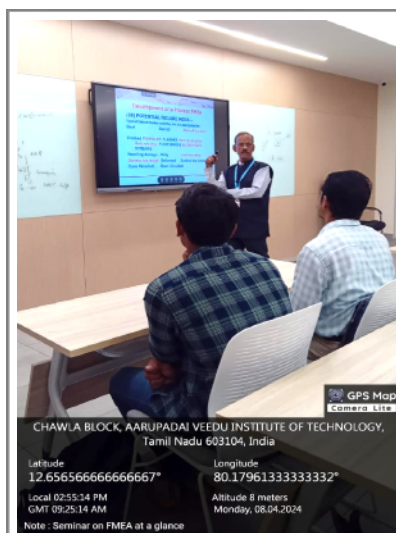
DATE : 8.04.2024

Resource person

Mr.P.KOTHANDARAMAN

Chief Executive, TRAINCONST

Vice Chairman National Secretary, NIQR.



PATENT DETAILS

S.NO INVENTORS- NAME PATENT COPY RIGHT NUMBER TITLE OF THE PATENT / COPY RIGHT DATE OF FILED/ AWARDED

PATENT GRANTED

1	Dr.Saravanakumar M	397853-001	Electric Gyro Monowheel Scooter	15.01.2024
2	Dr.Bubesh Kumar D	515239	Hand Driven Car for the differently abled and elderly people	26.02.2024
3	Dr.Prabhu L	406856-001	Hybrid wind turbine with permanent magnet generator	02.05.2024
4	Mr.Senthil J	400249-001	Ergonomic manual bearing extraction and installation tool	17.05.2024
5	Dr.Bubesh Kumar D	540737	Robotic nursing assisted system	03.06.2024

PATENT PUBLISHED

6	Dr.Prabhahar M	202441013943	Artificial Intelligent Based Walking Aid For Visually Impaired Persons	15.03.2024
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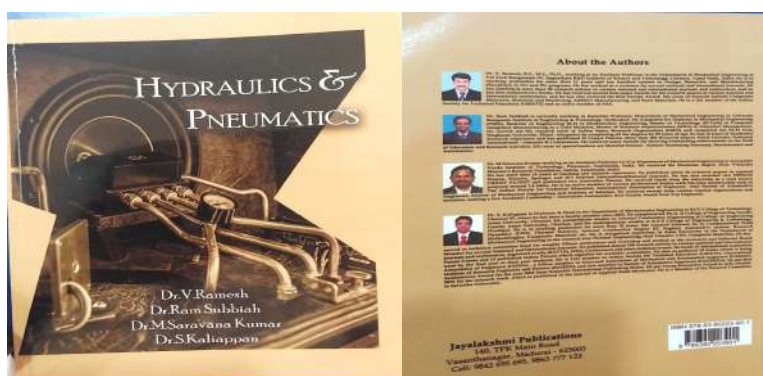


BOOKS AND CHAPTERS IN EDITED VOLUMES / BOOKS PUBLISHED BY FACULTY

S.NO	NAME OF THE FACULTY	TITLE OF THE BOOK / CHAPTER	NAME OF THE PUBLISHER	ISSN No.	INTERNATIONAL / NATIONAL
1	Dr.Saravanakumar M	Hydraulics & Pneumatics	Jayalakshmi Publication	978-93-90203-90-1	National

FACULTY MEMBER PARTICIPATED AS GUEST / RESOURCE PERSON IN & OUT SIDE OF AVIT

S.NO	NAME OF THE FACULTY	NATURE OF EVENT	TITLE OF THE PROGRAMMES	NAME OF THE ORGANISING BODY/ INSTITUTION	DATE	NATURE OF PARTICIPATION
1	Dr.L.Prabhu	Expert talk	Process of Innovation Development , Technology Readiness Level , Commercialisation of lab technologies & Tech transfer	IIC-AVIT	14.02.2024	Guest Speaker
2	Dr.M.Saravanakumar	Workshop	IC Engines, Electric Vehicles and Mechatronics	IIT Madras	30.03.2024 to 31.03.2024	Chief guest
3	Dr.S.Sangeetha	Conference	3rd International Hybrid Conference on Advances in Automobile, Manufacturing and Mech (ICAAMME'2024)	Easwari Engineering College, Chennai.	05.04.2024	Session Chair



FACULTY PARTICIPATION IN WORKSHOP/ SEMINARS/CONFERENCES AND SYMPOSIA						
S.NO	NAME OF THE FACULTY	NATURE OF THE PROGRAM	DATE/ NO. OF DAYS	TITLE OF THE PROGRAM	ORGANISED BY	INTERNATIONAL / NATIONAL / STATE / LOCAL LEVEL
1	Dr Prabhakar M	Conference	20.01.2024 /1 day	Intellectual property and Startups	Turnip Innovation Festival 2024	National
2	Dr Sangeetha S	Webinar	20.01.2024 /1 day	Technology and Quality assurance in Higher Education	IQAC,SPT-VMRF	National
3	Mr.Senthil J	Webinar	20.01.2024 /1 day	Technology and Quality assurance in Higher Education	IQAC,SPT-VMRF	National
4	Dr Prakash S	Conference	20.01.2024 /1 day	Intellectual property and Startups	Turnip Innovation Festival 2024	National
5	Dr Prabhu L	Seminar	03.02.2024 /1 day	Accelerating Innovation :A Deep dive into emerging technologies and Entrepreneurship	iTNT Hub with ICT Academy of Tamilnadu	National
6	Mr Senthil J	Webinar	03.02.2024 /1 day	Bench marking as a tool for Quality Improvement in Higher Education	Vinayaka Mission's College of Nursing, Karaikal	National
7	Mr Senthil J	Webinar	17.02.2024/ 1 day	Understanding Plagiarism to improve quality of Research Publication	School of Allied Health Sciences, Salem	National
8	Dr Senthilkumar A	Skill Development Workshop	05.03.24 to 06.03.24/2 days	Statistical Data Analysis & Design of Experiments (DOE) with JMP software	Manipal Academy of higher education	National
9	Dr Sangeetha S	Training Program	14.03.2024 /1 day	National Intellectual property awareness Mission	Ministry of Commerce and Industry, Government of India	National
10	Mr Selva Babu B	Seminar	27.03.2024/ 1 day	How to Write Research Book	Department of Research and Development Cell, Kings Engineering College	National
11	Mr Senthil J	Webinar	06.04.2024 /1 day	Empowering Advance and Slow Learners	Shanmuga College of Physiotherapy, Karaikal	National
12	Dr Sangeetha S	Webinar	04.05.2024 /1 day	Frugal Innovation for Sustainable Development Goals	IQAC-AVIT,VMRF	National
13	Mr Sathiyaraj S	Webinar	04.05.2024 /1 Day	Frugal Innovation for Sustainable Development Goals	IQAC,AVIT,Chennai	National
14	Mr Selva Babu B	Webinar	04.05.2024 /1 day	Frugal Innovation for Sustainable Development Goals	IQAC-AVIT,VMRF	National
15	Mr Kalyanakumar S	Webinar	04.05.2024 /1 day	Frugal Innovation for Sustainable Development Goals	IQAC,AVIT,Chennai	National
16	Mr P.Kumaran	Webinar	04.05.2024 /1 day	Frugal Innovation for Sustainable Development Goals	IQAC,AVIT,Chennai	National
17	Mr Selva Babu B	Webinar	30.05.2024 /1 day	Current Trends in Materials and Their Applications	Malla Reddy College of Engineering, Hyderabad	National
18	Mr Kalyanakumar S	Conference	15.03.2024 to 16.03.2024 /2 days	Experimental analysis on glass fiber reinforced with aluminium composites	VMKVEC, Salem	National
19	Mr Ashokkumar S	Conference	15.03.2024 to 16.03.2024 /2 days	An Investigation of mechanical properties and the effect of reinforcement size in Al-SiC Composite	VMKVEC, Salem	National
20	Dr Sangeetha S	Conference	22.03.2024 to 23.03.2024 /2 days	Synergistic enhancement of Diesel engine performance and emissions through jackfruit peel Biodiesel blends:An Experimental investigation	Aditya Engineering College	National
21	Mr Mahesh R	Conference	22.03.2024 to 23.03.2024 /2 days	Synergistic enhancement of Diesel engine performance and emissions through jackfruit peel Biodiesel blends:An Experimental investigation	Aditya Engineering College	National
22	Mr Ashokkumar S	Conference	28.03.2024 to 29.03.2024 /2 days	Enhanced Stress Corrosion Cracking Resistance in Magnesium Rare Earth Alloy Nanocomposites: Insights from Simulated Body Fluid Experiments	SSN College of engineering,Chennai	International

FACULTY PARTICIPATION CERTIFICATES



STUDENTS PARTICIPATION IN WORKSHOP / SEMINARS / CONFERENCES AND SYMPOSIA						
S.NO	NAME OF THE STUDENT	YEAR/DEPT	TYPE OF THE EVENT	TITLE OF THE PROGRAM	DATE/ NO. OF DAYS	LEVEL OF THE EVENT (STATE/ NATIONAL / INTERNATIONAL)
1	Bikash Basfore	III Yr/Mech	Co curricular event	Solo Singing-Mirchi Kaloori Stars	15.03.2024/1 day	State
2	Santhosh	IV Yr/Mech	Co curricular event	Innovation Challenge-2K24	27.02.2024/1 day	State
3	Govarthan	IV Yr/Mech				
4	Manikandan	IV Yr/Mech				
5	Pavan Kumar	III Yr/Mech				
6	Bikash Basfore	III Yr/Mech				
7	Subham mal	III Yr/Mech				
8	Mohammed Asaraf ali	III Yr/Mech				
8	Ranjith V	III Yr/Mech				
9	Dhanush Kumar R	III Yr/Mech				
10	Vasanthkumar J	III Yr/Mech				
11	Lokesh A	III Yr/Mech				
12	Dhanush	II Yr/Mech				
13	Iyyappan	II Yr/Mech				
14	Gundatti Charan	II Yr/Mech				
15	Mohammed Asaraf ali	III Yr/Mech	AVIT Annual Sports Meet-2024	Carrom	25.04.2024/1 day	State
16	Ranjith V	III Yr/Mech		Volley Ball		
17	Iyyappan	II Yr/Mech		Volley Ball		
18	Kaaviyan	IV Yr/Mech		Volley Ball		
19	Ranjith V	III Yr/Mech		Volley Ball		
20	Sanjay Krishnan	IV Yr/Mech		Volley Ball		
21	Surya R	II Yr/Mech		Volley Ball		
22	Surya	I Yr/Mech		Volley Ball		
23	Bikash Basfore	III Yr/Mech	Cultural Fest of AVIT-CREA 2024	Solo Singing	25.04.2024/1 day	State
24	Nithish Kumar	II Yr/Mech		Face Painting		
25	Nithish Kumar	II Yr/Mech		Glass Painting		
26	Pavan Kumar	III Yr/Mech		Cooking		
27	Pavan Kumar	III Yr/Mech		Glass Painting		
28	Ranjeeth Kumar	II Yr/Mech		Solo Singing		
29	Ranjith V	III Yr/Mech		Short Film		
30	Lohidharshan T	III Yr/Mech		Face Painting		
31	Lohidharshan T	III Yr/Mech		Painting		
32	Lohidharshan T	III Yr/Mech		Pot Painting		
33	Lohidharshan T	III Yr/Mech		Waste Craft		
34	Lohidharshan T	III Yr/Mech		Pencil/Charcoal Sketching		
35	Sukumar Ray	II Yr/Mech	NPTEL Swayam	Operations Management	Jan 24 to April 24/12 weeks	State
36	Nilesh Kumar Mauraya	II Yr/Mech		Advanced Machining Process		
37	James Andrews P	II Yr/Mech		Operations Management		
38	Durairaj T	III Yr/Mech				
39	Krishna Balaji S	III Yr/Mech				
40	Lohidharshan T	III Yr/Mech				
41	Rajakumaran P	III Yr/Mech				
42	Sanjeev Kumar	III Yr/Mech				
43	Bikas Basfore	III Yr/Mech		Research Methodology	Feb 24 to April 24/8 weeks	
44	Basil Benny	III Yr/Mech				
45	Jithin Joseph	III Yr/Mech				
46	Kaaviyan D	IV Yr/Mech		Operations Management	Jan 24 to April 24/12 weeks	
47	Sourav Sreejith K M	IV Yr/Mech				



Students certifications



RESEARCH ARTICLE PUBLICATION DETAILS

1. **Mr.Mahesh R**, An experimental investigation of the effects of blending camphor oil infused with jack fruit biodiesel and nanoparticles on the performance, combustion, and exhaust emissions of a compression ignition engine, *Journal of Process Mech* Jan-24, [Scopus/WOS](#).
2. **Dr.Prabhahar M**, Optimization of Operating Factors and Blending Levels of Diesel, Algae Methyl Ester, Graphene Oxide and Producer Gases - Calorific Values Using Response Surface Methodology in HCCI Engine, *SSRG International Journal of Mech*, Jan-24, [Scopus/WOS](#).
3. **Mr.Saravanan M**, Structure Safety And Weld Strength Evaluation By Metallic Weld Joints In Fcaw With Taguchi Design, *ARPJN Journal of Engineering and Applied Sciences* , Jan-24,[Scopus](#).
4. **Mr Mahesh R**, Experimental investigation of diethyl ether (DEE) blended jack fruit peel oil (JFP) with hydrogen as a secondary fuel in dual-fuel compression ignition engines, *Environmental Science and Pollution Research*, Mar-24,[Scopus](#).
5. **Dr.Senthilkumar A**, Smart system for identifying the various pathologies in MR brain image using Monkey Search based Interval Type-II Fuzzy C-Means technique, *Multimedia Tools and Applications* , Mar-24[Scopus](#)
6. **Dr.Antony Casmir Jayaseelan**, Design and Fabrication of Gearless Power Transmission System with Sand Filter, *AIP Conference Proceedings*, Mar-24, [Scopus](#).
7. **Mr.Ashokkumar S**, Design And Fabrication of Drilling Machine Using Contactless Magnetic Transmission System, *AIP Conference Proceedings*, Mar-24, [Scopus](#).
8. **Mr.Kalyanakumar S**, To improve the machining process capability using SM10C low carbon steel by using optimized process, *AIP Conference Proceedings*, Mar-24, [Scopus](#).
9. **Mr.Kalyanakumar S**, Optimization of machining parameters for improved surface finish and material removal rate in AISI 304 stainless steel using carbide inserts by MCDA approach, *AIP Conference Proceedings* Mar-24, [Scopus](#)
10. **Mr.Kumaran P**, Gas Detecting Robot for Mining Operations, *AIP Conference Proceedings*, Mar-24, [Scopus](#).
11. **Mr.Mahesh R**, Analysis of Jack fruit peel-based biodiesel in VCR engine at various compression ratios using single hole nozzle, *AIP Conference Proceedings*, Mar-24, [Scopus](#).
12. **Dr.Prabhahar M**, Effect of Thermal Coating Piston (Al₂O₃) and Methanol on HCCI Engine Using Conventional Diesel and Lemon Grass Methyl Ester, *AIP Conference Proceedings*, Mar-24, [Scopus](#).
13. **Dr.Prabhahar M**, Surface treatment by wire electric discharge machining of Ti-6Al-4V alloy and Polylactic Co-Glycolic Acid (PLGA) Coated plates using RSM technologies, *AIP Conference Proceedings*, Mar-24. [Scopus](#).
14. **Dr.Prabhu L**, Experimental analysis of computerized heat exchanger optimized by Artificial Neural network, *AIP Conference Proceedings*, Mar-24, [scopus](#)
15. **Dr.Prakash S**, Analysis and Investigation on Kinetic Properties of 3-Bladed Straight Chord Wind Turbine Using Computational Fluid Dynamics (CFD), *AIP Conference Proceedings*, Mar-24 , [Scopus](#)
16. **Mr.Prakash S**, Optimization of evaluation-Algae biodiesel production process parameters using RSM Approach, *AIP Conference Proceedings*, Mar-24, [Scopus](#).
17. **Mr.Samuvel Michael B**, Performance Test of Biofuel Using Port Injection System Compare with Tata Single Cylinder Engine, *AIP Conference Proceedings*, Mar-24 [Scopus](#).
18. **Dr.Sangeetha Krishnamoorthi**, Optimization on the process parameters and mechanical behavior of Dissimilar AA6061/AA5083 metal matrix composites by FSW, *AIP Conference Proceedings*, Mar-24, [Scopus](#)
19. **Dr.SaravanaKumar M**, Design and Fabrication Self Balancing single-wheel Vehicle, *AIP Conference Proceedings*, Mar-24, [Scopus](#).
20. **Saravanan M**, Tribological Analysis of Kevlar with Pineapple Fiber with Ceramic Filler Reinforced Polymer Composite, *AIP Conference Proceedings*, Mar-24, [Scopus](#)
21. **Mr.Saravanan M**, Ballistic Impact Response of the Basalt/Polypropylene mesh Epoxy Composites, *AIP Conference Proceedings*, Mar-24, [Scopus](#).
22. **Mr.Saravanan M**, Optimization on the process parameters and mechanical properties of AA6061 metal matrix composites by FSW, *AIP Conference Proceedings*, Mar-24, [Scopus](#)



RESEARCH ARTICLE PUBLICATION DETAILS

21. [Mr.Saravanan M](#), *Ballistic Impact Response of the Basalt/Polypropylene mesh Epoxy Composites*, AIP Conference Proceedings, Mar-24, [Scopus](#).
22. [Mr.Saravanan M](#), *Optimization on the process parameters and mechanical properties of AA6061 metal matrix composites by FSW*, AIP Conference Proceedings, Mar-24, [Scopus](#)
23. [Mr.Sathiyaraj S](#), *Optimization of Wire-EDM Process Parameters on Mg- Al₂O₃-B₄C*, AIP Conference Proceedings, Mar-24, [Scopus](#).
24. [Mr.Sathiyaraj S](#), *Analysis Of Mechanical Characteristics of Aluminum-Based Hybrid Composite Material*, AIP Conference Proceedings, Mar-24, [Scopus](#).
25. [Mr.Sathiyaraj S](#), *Desirability Function Analysis (DFA) In Multiple Responses Optimization of Abrasive Water Jet Cutting Process*, AIP Conference Proceedings, Mar-24, [Scopus](#).
26. [Mr.Selvababu B](#), *Preparation and Characterization of Hybrid PMC Using Natural Fiber Coir and Sugarcane*, AIP Conference Proceedings, Mar-24, [Scopus](#).
27. [Mr.Selvababu B](#), *Experimental investigation of optimal parameters For ECMM micro drilling of super alloy*, AIP Conference Proceedings, Mar-24 [Scopus](#).
28. [Mr.Senthil J](#), *Experimental Analysis of Emission and Performance Characteristics of a CRDI Engine Fueled with Biodiesel Derived from Plastic Oil*, AIP Conference Proceedings, Mar-24, [Scopus](#).
29. [Mr.Senthil J](#), *Investigation on the Mechanical and Corrosive behavior of FSW AA2218/B4C Metal Matrix Composites*, AIP Conference Proceedings, Mar-24, [Scopus](#).
30. [Mr. Senthil J](#), *Optimization of Performance and Emission Characteristics of a CRDI Engine Fuelled with Waste Plastic Oil Biodiesel Blend using Response Surface Methodology*, AIP Conference Proceedings Mar-24, [Scopus](#).
31. [Mr. Surendra Babu K](#), *Optimization of Diesel Engine - Performance and Emission Parameters utilizing RSM approach using biodiesel-diesel blends and Compression*, AIP Conference Proceedings Mar-24, [Scopus](#)
32. [Mr. Surendra Babu K](#), *Thermal Coating Piston with Ytria Stabilized Zirconia (YSZ) and Ferric Chloride (FeCl₃) Additive on Engine Using Conventional Diesel and Pumpkin Methyl Ester: Comparative Studies*, AIP Conference Proceedings, Mar-24, [Scopus](#).
33. [Mr. Thiagarajan C](#), *Optimizing Injection Parameters and EGR for Improved Performance and Emissions in a CRDI Engine Fueled with Mahua Oil Biodiesel: An Experimental Study*, AIP Conference Proceedings Mar-24, [Scopus](#).
34. [Mr.Thiagarajan C](#), *Investigation on the mechanical properties of Stir casted AA5128 reinforced with carbon na*, AIP Conference Proceedings, Mar-24, [Scopus](#).
35. [Mr.Thiagarajan C](#), *Performance and Emission Evaluation of Mahua Oil Biodiesel Blends in a Common Rail Direct Injection Diesel Engine*, AIP Conference Proceedings, Mar-24 [Scopus](#).
36. [Mr.Thiagarajan C](#), *Investigating the performance characteristics of Mahua Oil based Biodiesel as an Alternative Fuel for a CRDI Diesel Engine with EGR*, AIP Conference Proceedings, Mar-24 [Scopus](#)
37. [Mr.Prabhakar M](#), *Port Injection Of Diesel, Biodiesel, and Petrolcin A Compression Ignition Direct Injection Diesel Engine To Mitigate Nitrogen Oxides And Soot Emissions* Journal of Chemical Technology and Metallurgy Apr-24, [Scopus](#)

FACULTY AWARDS AND RECOGNITIONS

S.NO	NAME OF THE FACULTY	TITLE OF THE AWARD	NAME OF THE AGENCY / AGENCIES THAT AWARDED
1	Mr.Imthiyas A	Certificate for Organiser	Spoken Tutorial ,IIT Bombay
2	Dr.Prabhu L	Appreciation Certificate	IIC, School Innovation Council
3	Dr.Prakash S	AVIT Faculty Ambassador	AVIT
4	Mr.Vijayakumar K	Certificate for Coordination	ICT Academy
5	Dr.Prabhu L	Appreciation Certificate	SIMATS Engineering, Saveetha Institute of Medical and Technical Sciences (SIMATS/Saveetha University)
6	Dr.Senthilkumar A	Appreciation Certificate	SIMATS Engineering, Saveetha Institute of Medical and Technical Sciences (SIMATS/Saveetha University)
7	Mr.Kumaran P	Appreciation Certificate	IIC-MoE's Innovation Cell
8	Mr.Ashokkumar S	Appreciation Certificate	IIC-MoE's Innovation Cell
9	Mr.Senthil J	Appreciation Certificate	IIC-MoE's Innovation Cell
10	Mr.Thiagarajan C	Appreciation Certificate	IIC-MoE's Innovation Cell
11	Mr.Kalyanakumar S	NPTEL Motivated Learner	SWAYAM NPTEL-MHRD
12	Dr.Prakash S	International Academic & Research Excellence Awards 2024	IMRF Institute of Higher Education and research





SWAYAM – NPTEL & STC COURSES COMPLETED BY FACULTY

S.NO	NAME OF THE FACULTY	TITLE OF THE PROGRAMME	ORGANIZED BY
1	Dr.Sangeetha S	Women in Innovation and Entrepreneur Development (WIED)	IPR Cell and Institution's Innovation Council (IIC), Jaypee University of Information Technology, Waknaghat, Solan Himachal Pradesh
2	Dr.Prabhakar M	Research Methodology In Natural Sciences	NPTEL Swayam
3	Dr.Prabhu L	Research Methodology In Natural Sciences	NPTEL Swayam
4	Dr.Prabhu L	Research Methodology In Natural Sciences	NPTEL Swayam
5	Dr.Sangeetha S	Research Methodology In Natural Sciences	NPTEL Swayam
6	Dr.Thiagarajan C	Research Methodology In Natural Sciences	NPTEL Swayam
7	Mr.Senthil J	Research Methodology In Natural Sciences	NPTEL Swayam
8	Mr.Ashokkumar S	Research Methodology In Natural Sciences	NPTEL Swayam
9	Mr.Maresh R	Research Methodology In Natural Sciences	NPTEL Swayam
10	Samuel Michael B	Research Methodology In Natural Sciences	NPTEL Swayam
11	Mr.Kumaran P	Research Methodology In Natural Sciences	NPTEL Swayam
12	Mr.Vijayakumar K	Research Methodology In Natural Sciences	NPTEL Swayam
13	Mr.Sathiyaraj S	Research Methodology In Natural Sciences	NPTEL Swayam
14	Dr.Prakash S	Research Methodology In Natural Sciences	NPTEL Swayam
15	Mr.Kalyanakumar S	Research Methodology In Natural Sciences	NPTEL Swayam
16	Mr.Kalyanakumar S	Research Methodology In Natural Sciences	NPTEL Swayam
17	Mr.Selva Babu B	Research Methodology In Natural Sciences	NPTEL Swayam
18	Mr.Saravanan M	Research Methodology In Natural Sciences	NPTEL Swayam

INDUSTRIAL VISIT

DATE: 16.2.2024

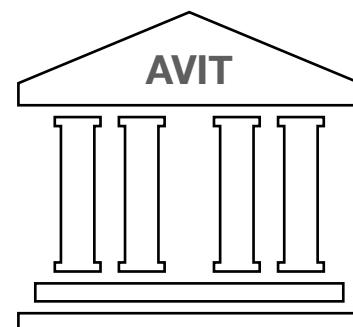
Department of mechanical engineering arranged a visit to **ADANI PORT, KATTUPALLI**. Around 40 students of II and III year B.E. Mechanical engineering students visited the Port and had a thorough knowledge of various material handling equipments, Safety induction program, Liquide Terminal, Fire Station & OHS and Dry Cargo Warehouse Visit to Customs Building for Stimulator, Marine Tower, Container Terminal Area to CB3, Container yard area, Engineering Dept., Fuel Station & Viewpoint at CB3 vessel berthing area.

- Event Organizer: Prof. N. Lakshminarayanan.
- Mr.C.Thiagarajan, Dr.S.Sangeetha, Mr.A.Elanthiraiyan, Mr. G.Antony Casmir and Mr.M.Saravanan accompanied the students during the visit.



TOPPERS OF EVEN SEM 2023-2024

S.NO	NAME OF THE STUDENT	YEAR / DEPARTMENT	GRADE OBTAINED (SGPA)
1	Mr.Sukumar Ray	II Year/ Mechanical	9.32
2	Mr.J.Vasanth kumar	III Year/ Mechanical	9.43
3	Mr.R.Vignesh	IV Year/ Mechanical	9.21



Mr. Sukumar Ray
2nd year / Mechanical



Mr. J.Vasanth Kumar
3rd year / Mechanical



Mr.R. Vignesh
4th year / Mechanical



Congratulations to All



Text Tamer

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THE PINNACLE

OFFICIAL NEWS LETTER OF DEPARTMENT OF MECHANICAL ENGINEERING

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