

S.A. ENGINEERING COLLEGE

(An Autonomous Institution , Affiliated to Anna University , Chennai)

Accredited by NAAC with 'A' Grade & ISO 9001:2015 Certified Institution

Approved by AICTE and Affiliated to Anna University, Chennai



DYNAMIX'23

EVEN SEMESTER

Newsletter 2023 - 2024

DEPARTMENT OF

MECHANICAL ENGINEERING

ABOUT THE DEPARTMENT



The department of Mechanical Engineering was established in the year 1998 in our college; it was affiliated to Anna University in 2001 and got permanent affiliation in 2013. It has been accredited by the National Board of Accreditation (NBA) from the year 2009. The post graduate programme, M.E. CAD/CAM was established in the year 2014 with an intake of 18 students. The department has been recognized as a research center by Anna University in the year 2012. The students are given hands on training about the theoretical concepts they are learning through various labs such as Manufacturing Technology Lab, Fluid Mechanics Lab, I C Engines lab, Heat Transfer Lab, CAD CAM LAB, Dynamics Lab, Mechatronics Lab.

The department has eminent faculties to guide the students in learning the various concepts of mechanical engineering. The faculty are well versed in research and publish papers periodically in reputed journals like WOS, SCI, SCOPUS. The faculty of mechanical engineering also have patent grants for their research and innovation projects in emerging fields of mechanical engineering. In addition to this, various funded projects are also being carried out with the grants received from AICTE, DST, TNSCST etc. The students are also encouraged to participate in various events such as design and fabrication of parallel hybrid electric race car, Solar vehicle championship conduct by ISIE every year.

Vision

- **Academic Excellence:** To strive and attain a premier position in providing Quality Higher Education integrated with Research and Scholarly activities in the emerging areas and diversify in the emerging fields of Mechanical Engineering, thus serving to the needs of the society.
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- **Inventory of Skill Development:** To make our graduates to be adept in handling real life complex problems through Modern Tools and Techniques and while doing so making them to imbibe ethical practices and confident enough to assume leadership position.

Mission

- **Conducive Environment:** To provide conducive atmosphere for effective teaching-learning by disseminating the knowledge in breadth and depth.
- **Centre of Excellence:** To practice modern tools and techniques so as to make our department a Centre of Excellence and sustainable in their growth.
- **Critical and Clinical Thinking:** To transform our students to be open minded with critical thinking in their approach to real-life problem-solving situations keeping in mind the Professional, Ethical, Environmental and Societal aspects
- **Active Involvement in R&D:** To provide a perfect platform for our faculty and students to undertake research activities.
- **Collaboration and Integration:** To collaborate with the industries, premier Institutions in taking up consultancy projects, internship so that our students will acquire experience hands-on in current industrial practices and ethical standards.
- **Implementation of Students Quality Circle:** To make our students imbibe leadership qualities by fostering in them a good amount of soft skills, personality traits and by way of active participation in extra-curricular and co-curricular activities.

PROGRAMME EDUCATIONAL OBJECTIVES

- 1. **Technical and Professional Excellence:** Graduates will demonstrate technical competence in solving real life Mechanical Engineering problems using Engineering principles and modern tools while engaging in continuous professional development to stay updated of the industry trends.
- 2. **Leadership and Communication:** Graduates will exhibit strong leadership qualities enabling them to manage projects, work in inter disciplinary teams and communicate complex technical information using contemporary tools in a global environment.
- 3. **Ethical and Social Responsibility:** Graduates will demonstrate a commitment to professional ethics, understand the broader impacts of engineering solutions on society and the environment and apply their engineering skills to address global challenges in sustainability, health, and safety
- 4. **Lifelong Learning:** Graduates will successfully establish themselves in professional engineering roles in various industries by engaging in lifelong learning or by participation in professional organizations to continuously improve their knowledge and skills.

Guest LECTURE

Mr. S. Jaffar Hussain, Head of Product Support at GMMCO Ltd., Chennai, discussed recent trends in IC engines, focusing on advancements in fuel efficiency and emission reduction technologies. He also highlighted the growing shift towards hybrid and alternative fuel engines to meet evolving environmental regulations. Date 08/09/2023



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Poonamallee - Avadi Main Road, Thiruverkadu, Chennai- 600 077.

DEPARTMENT OF MECHANICAL ENGINEERING
GUEST LECTURE
RECENT TRENDS IN IC ENGINES

Venue: MECH SEMINAR HALL
Date: 08.09.2023

Mr. R. Sudhahar, Director at CADDCAMM Solutions, discussed the application of reverse and value engineering in fluid flow components. He emphasized the role of these techniques in optimizing design, reducing costs, and improving the performance and reliability of fluid systems. Date 16/10/2023





The Department of Mechanical Engineering has organized a Value Added course on the topic “Core Industrial Placement Training on Factory and Process Automation” for five days from 20/11/23 to 24/11/23.



The Department of Mechanical Engineering has organized a Value Added course on the topic “HVAC” for six days from 1/4/24 to 6/4/24.



The Department of Mechanical Engineering has organized a Value Added course on the topic “Essentials in CATIA (CATIA V5” for six days from 25/9/23 to 4/10/23.



The Department of Mechanical Engineering has organized a Value Added course on the topic “Solid Works” for Ten days, a total of 60 hours of training.



The Department of Mechanical Engineering has organized a Value Added course on the topic “Problem solving using C” for Six days, from 21/8/23 to 28/8/23.

DETAILS OF PUBLICATIONS OF FACULTY

| S.NO | NAME OF THE FACULTY | PAPERS PUBLISHED | | |
|------|--|---|--|------------------------------------|
| | | Title of the paper | Name of the Journal/Conference with vol no, issue no, page no and impact factor. | Date of publication / presentation |
| 1 | Dr. P. Sevvel, Mr.J.Vasanth Roy and Mr.A.Sivaramakrishnan | Analysis of sensitivity and formulation of empirical relationship between parameters of FSW process and tensile strength of AZ80A Mg alloy joints | Materials Research Express, Vol 10, Issue 5 | 06.06.2023 |
| 2 | Mr.J.Vasanth Roy, Dr. P. Sevvel | An investigation on the influence of torque and R-ratio on the fatigue life of double-lap bolted joint using FEM | Materials Today Proceedings | 29.05.2023 |
| 3 | Mr.Prabaharan G | Mechanical behaviour of Al6061 hybrid nanocomposites reinforced with nano alumina and molybdenum disulfide | Materials Today Proceedings | 03 July 2023 |
| 4 | Dr. P. Sevvel | Impact of tool rotational speed on the microstructural transitions and tensile properties of the dissimilar AZ80A-Mg – AA6061-Al joints fabricated by friction stir welding | Practical Metallography | 21 April 2023 |
| 5 | Mr.Parthasarathy K | Evaluation of the mechanical strength of mortars with almond shell ash | Materials Today Proceedings | 23 August 2023 |

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|----|---|---|--|-------------------|
| 6 | Mr. Srinivasan D Dr. Vishvanathperumal S | Effect of Modified Nanographene Oxide Loading on the Swelling and Compression Set Behavior of EPDM/SBR Nano-composites | Journal of Inorganic and Organometallic Polymers and Materials | 04 September 2023 |
| 7 | Dr. Vishvanathperumal S | Effect of Modified Nanographene Oxide on the Mechanical and Swelling Properties of Silicone Rubber Nanocomposites | Polym. Korea, Vol. 47, No. 3, pp. 288-302 (2023) | 13 February 2023 |
| 8 | Dr. Vishvanathperumal S | Effect of Modified Nanographene Oxide (mGO)/Carbon Nanotubes (CNTs) Hybrid Filler on the Cure, Mechanical and Swelling Properties of Silicone Rubber Composites | Journal of Inorganic and Organometallic Polymers and Materials | 31 July 2023 |
| 9 | Dr. Vishvanathperumal S | Effect of Nanographene Oxide on the Mechanical Properties of EPDM/SBR Nano-composites | Polym. Korea, Vol. 47, No. 4, pp. 427-439 (2023) | 25 May 2023 |
| 10 | Dr. Vishvanathperumal S | Influence of halloysite nanotubes on mechanical and swelling properties of silicone rubber compound | Journal of Polymer Research (2023) 30:310 | 18 July 2023 |
| 11 | Mr. Dhanasekar S, Dr. Vishvanathperumal S | Effects of Nanosilica on the Mechanical Properties and Swelling Resistance of EPDM/NBR Nanocomposites | Polym. Korea, Vol. 47, No. 5, pp. 1-16 (2023) | --- |

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|----|---|--|--|-------------------|
| 12 | Mr. Dhanasekar S, Dr. Vishvanathperumal S | Cure characteristics, compression set, swelling behaviors, abrasion resistance and mechanical properties of nanoclay (Cloisite 15A, Cloisite 20A and Cloisite 30B) filler filled EPDM/NBR blend system | Journal of Polymer Research (2023) 30:375 | 11 September 2023 |
| 13 | Mr. Dhanasekar S, Dr. Vishvanathperumal S | Halloysite Nanotubes Effect on Cure and Mechanical Properties of EPDM/NBR Nanocomposites | Journal of Inorganic and Organometallic Polymers and Materials (2023) | 17 June 2023 |
| 14 | Mr. Srinivasan D Dr. Vishvanathperumal S | Effect of HNTs and Modified HNTs Nanotubes on the Mechanical Properties and Swelling Resistance of EPDM/SBR Rubber Blend Nanocomposites | Silicon | 27 Oct 2023 |
| 15 | Mr.Parthasarathy K Dr. Vishvanathperumal S | Effect of complex of resorcinol and hexamethylenetetramine modified halloysite nanotubes (RH-HNTs) on the mechanical and swelling characteristics of NR/EPDM nanocomposites | Journal of Polymer Research | 18 September 2023 |
| 16 | Mr.S.J.Rajarajan | Study of Natural Language Processing for Sentiment Analysis | 2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN), Salem, India, 2023, pp. 1425-1432 | 20.06.2023 |

| | | | | |
|----|--|---|--|--------------------|
| 17 | Mr.K.N.Ramu | IoT-based Smart Home Automation Systems for Energy Conservation | 2023 7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Kirtipur, Nepal, 2023, pp. 12-16 | 11th October 2023 |
| 18 | Mr.K.N.Ramu | Evaluation of the Potential of Biomass Energy as a Sustainable Alternative Energy Source | 2023 7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Kirtipur, Nepal, 2023, pp. 952-958, | 11th October 2023 |
| 19 | Dr.P.Sevvel, Mr.J.Vasanthe Roy | Parametric based optimization of friction stir welded wrought AZ80A Mg alloy employing response surface methodology | Materials Research Express, Volume 10, Number 11 | 17th November 2023 |
| 20 | Dr. S. Vishvanathperumal, Mr. J. Vasanthe Roy, Mr. K. N. Ramu & Dr. S. Praveenkumar | An Investigation on the Effect of the Surface Modifications and HNTs Loading on the Cure behaviours, Abrasion Resistance, Mechanical and Morphological Properties of NR/EPDM Nanocomposites | Silicon (2023) | 28th December 2023 |

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|----|--------------------|---|---|------------------|
| 21 | Mr.K.Manimaran | Integration of Solar Photovoltaics and Thermal Collectors for Hybrid Solar Energy Systems | 2023 4th International Conference on Smart Electronics and Communication (ICOSEC) | 20-22 Sept. 2023 |
| 22 | Mr.D.Srinivasan | Perception Sensors Based Fusion System and Method for Controlling Vehicle | 2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN) | 19-20- June 2023 |
| 23 | Mr.D.Srinivasan | Impact of process parameters on transitions in the microstructural characteristics and mechanical attributes of Ti-6Al-4V alloy joints during FSW | Practical Metallography | 18-Dec 2023 |
| 24 | Mr.C.Krishnamurthy | Evaluation of Mechanical and Thermal Behaviour of Ferrous and Non-Ferrous Nano Fillers based GFRP Composites | International Journal of Vehicle Structures and Systems 2023, 15(5), pp. 662-665 | 26 Dec 2023 |

DETAILS OF PATENTS (FACULTY/STUDENTS)

| S.N O | TITLE OF THE PATENT | NAME(S) OF THE FACULTY / STUDENT | DATE OF APPLICATIO N FILED | STATUS OF APPLICATION (PUBLISHED/ GRANTED) |
|----------|------------------------------------|---|----------------------------------|---|
| 1. | 3D Printer | Dr.P.Sevvel | 11.10.2023 | FILED (App No.: 397156-001) |
| 2. | Solar Water Distillation System | Mr. A. Sivaramakrishnan Mr. J. Vasanthe Roy Dr. P. Sevvel Mr. B. Pradap (Student) Mr. S. Aravind (Student) Mr. S. Jayabaskar (Student) Mr. K. Shree Visshnu (Student) | 24.11.2023 | FILED (App No.: 400588-001) |

DETAILS OF AWARDS RECEIVED BY STUDENTS

| S.NO | NAME OF THE STUDENT | AWARDS /INVITATION RECEIVED | | |
|------|---------------------|-----------------------------|--------------------------------|---|
| | | DATE | NATURE OF AWARD/ INVITATION | GRANTING AUTHORITY /JOURNAL/ CONFERENCE/ SYMPOSIUM/HACA KATHON/ NPTEL/ OTHERS |
| 1. | N.Agilash | 29.08.2023 | II Prize | Innovia - IIC & SAEC |
| 2. | S.Srivatsan | 26.09.2023 | Participation Certificate | Mechgust-23 – Chennai Institute of Technology |
| 3. | H.Devendran | 26.09.2023 | Participation Certificate | Mechgust-23 – Chennai Institute of Technology |
| 4. | Vishnukumar | 26.09.2023 | Participation Certificate | Mechgust-23 – Chennai Institute of Technology |

DETAILS OF BOOK PUBLICATIONS (FACULTY /STUDENTS)

| S.NO | NAME OF THE FACULTY / STUDENT | BOOKS/MONOGRAPH PUBLISHED | |
|------|-------------------------------|---------------------------|---|
| | | Date of publication | Title of the Book |
| 1. | Dr.Vishvanathperumal S | 08.09.2023 | Book Chapter: Polyester-Based Biocomposites for Tribological Applications Book: Tribological Properties, Performance and Applications of Biocomposites – Wiley |
| 2 | Dr.Vishvanathperumal S | 04.12.2023 | Book Chapter: Biodegradable Polymeric Nanofibers Prepared via Electrospinning, Book: Electrospun Nanofibres Materials, Methods, and Applications – CRC Press |

DETAILS OF MOOC COURSES COMPLETED BY FACULTY

| S.NO | NAME OF THE FACULTY | UHV/NPTEL/COURSERA/UD EMY/MATLAB ETC. | TITLE OF THE MOOC COURSE | DATE / DURATION |
|------|--------------------------|---------------------------------------|---|-----------------------|
| 1. | Mr.G.Prabaharan | NPTEL | Research Methodology | Aug-Oct 2023/ 8 Weeks |
| 2 | Mr.K.A.V.Roosvelt prabhu | NPTEL | Fundamentals of Artificial Intelligence | Jul-Oct 2023/12 Weeks |
| 3 | Mr.K.N.Ramu | NPTEL | Accreditation and Outcome Based Learning | Aug-Oct 2023/ 8 Weeks |
| 4 | Mr.J.Vasanth Roy | NPTEL | Accreditation and Outcome Based Learning | Aug-Oct 2023/ 8 Weeks |
| 5 | Mr.K.Manimaran | NPTEL | Accreditation and Outcome Based Learning | Aug-Oct 2023/ 8 Weeks |
| 6 | Mr.K.Parthasarathy | NPTEL | Product Design and Development | Jul-Aug 2023/4 Weeks |
| 7 | Mr.S.J.Rajarajan | NPTEL | Software Testing | Jul-Oct 2023/14 Weeks |
| 8 | Mr.C.Dhanesh | NPTEL | Conduction and Convection: Fundamentals and Applications | Jul-Oct 2023/12 Weeks |
| 9 | Mr.R.Jeeva | Coursera | Mechanics of Materials I: Fundamentals of Stress & Strain and Axial Loading | 30.10.2023/17 Hours |

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|----|------------------|----------|---|------------|
| 10 | Mr.D.Srinivasan | Coursera | CFD Simulation Through a Centrifugal Pump | 12.07.2023 |
| 11 | Mr.D.Prakash | Coursera | CFD Simulation Through a Centrifugal Pump | 12.07.2023 |
| 12 | Mr.K.Manimaran | Coursera | CFD Simulation Through a Centrifugal Pump | 06.10.2023 |
| 13 | Mr.S.Dhanasekar | Coursera | CFD Simulation Through a Centrifugal Pump | 12.07.2023 |
| 14 | Mr.S.J.Rajarajan | Coursera | CFD Simulation Through a Centrifugal Pump | 07.10.2023 |
| 15 | Mr.K.N.Ramu | Coursera | CFD Simulation Through a Centrifugal Pump | 06.10.2023 |
| 16 | Mr.D.Prakash | Matlab | Machine Learning Onramp | 06.10.2023 |
| 17 | Mr.D.Prakash | Matlab | Statistics Onramp | 08.10.2023 |

DETAILS OF SEMINAR, WORKSHOP, CONFERENCES, CEP, FDP, QIP PROGRAMS ORGANIZED THROUGH RESEARCH GRANTS

| S.N O. | NATURE OF PROGRAM (SEMINAR, WORKSHOP,C ONFERENCES, CEP, FDP, QIP) | NAME OF THE PROGRAM | DETAILS OF THE GUEST(S) (NAME, DESIGNATION, ORGANIZATION, CONTACT DETAILS) | DETAILS OF THE PARTICIP ANTS | DATE & DURATIO N | VENUE |
|-----------|--|--|--|---------------------------------------|---|-------|
| 1. | Workshop | 2 Days Hands on Training and Workshop on “3D Printing: Basics” | Shri. Rosu Reddy Director, Next Generation 3D Printers Kotturpuram, Chennai - 600085 | 65 Internal Participants | 24.08.2023 & 25.08.2023 – 2 Days | SAEC |
| 2. | Workshop | 1 Day Hands on Training and Workshop on “Electric Vehicle: Assembling and Dismantling | Shri. Mohammed Samiuddin Deputy General Manager, TVS Training and Services Ambattur Industrial Estate, Chennai - 600058 | 61 Internal Participants | 28/07/2023 | SAEC |

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|----|----------|--|---|----------------------|----------------------------|------|
| 3. | Workshop | DST sponsored 2 Days Awareness Workshop and Hands on Training on “Fabrication of Coir based Products and Employment Opportunities in Coir related Products for SC Students | Shri. U.Venkatachalapathi Senior General Manager and Centre Head National Small Industries Corporation Limited – NSIC, (A Government of India Enterprise), Guindy Industrial Estate, Chennai - 600032 | 2nd Year SC Students | 21st & 22nd September 2023 | SAEC |
|----|----------|--|---|----------------------|----------------------------|------|

DETAILS OF GRANTS (RECEIVED /APPLIED)

| S.NO | TITLE OF RESEARCH PROPOSAL | PI / RESEARCH COORDINATOR(S) | FUNDING ORGANIZATION | STATUS OF PROPOSAL | AMOUNT GRANTED Rs. | DURATION OF THE PROJECT |
|------|--|---|--|--------------------|-----------------------|-------------------------|
| 1. | An ontology-based 3D digital documentation of Masilamaniswara Temple integrating techniques of terrestrial laser scanning and unmanned aerial vehicle digital photogrammetry | Dr.P.Sevel (PI) Dr.R.Geetha (Co – PI) | SHRI (Science and Heritage Research Initiative) – DST | Granted | Rs. 33,70,020 | 3 Years |
| 2 | Science Technology and Innovation Hub for enhancing employability & livelihood of SC Community Population through technology development of Coir based Products for application in Construction & Manufacturing Sector | Dr.P.Sevel (PI) Dr.R.Geetha (Co – PI) | SEED Division – Department of Science & Technology (DST), Technology Bhavan, New Delhi– 110016 | Granted | Rs. 48,29,934 | 3 Years |

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|---|---|--|--------|---|---|---------|
| 3 | Application of Machine Learning in PEM Fuel cell Stack Technology to predict the performance Enhancement using Novel Flow Field Design Patterns | PI: Dr. Praveenkumar S Co-PI: Dr. Vishvanathperumal S | TNSCST | - | - | 2 Years |
|---|---|--|--------|---|---|---------|

LIST OF MoUs SIGNED

| S.NO | NAME OF THE ORGANIZATION / COMPANY / INSTITUTE | DATE OF MOU SIGNED | LINKAGE OF THE MoU | BENEFITS OF MoU |
|------|--|--------------------|--------------------|---|
| 1. | Cadd Camm Solutions | 07-09-2023 | General agreement | <ul style="list-style-type: none"> • To set up Center of Excellence inside SAEC to promote research & development activities. • Training programs for the pupil of SAEC in the form of guest lectures, Seminars, Conferences, and Internships |
| 2. | Skyrider Aerosolutions | 07-09-2023 | General agreement | <ul style="list-style-type: none"> • To set up Center of Excellence inside SAEC to promote research & development activities. • Training programs for the pupil of SAEC in the form of guest lectures, Seminars, Conferences, and Internships |

DETAILS OF FACULTY INTERACTION WITH OUTSIDE WORLD

| S.N O | NAME OF THE FACULTY | INTERACTION CATEGORY | DETAILS OF INTERACTION WITH OUTSIDE WORLD |
|----------|---------------------------|-------------------------|--|
| 1. | Mr.C.Dhan esh | 2.RESOURCE PERSON | Session chair for a session in the 2nd International Conference on WATER, ENERGY & ENVIRONMENT [WEECON 2023] conducted on 29th & 30th December 2023, organized by ISET Research India in association with Maejo University Thailand & Saigon University Vietnam. |
| 2. | Dr.P.Sevvel | 5. JOURNAL REVIEWER | <ol style="list-style-type: none"> 1. Reviewed a paper submitted to the SCIE Journal “Scientific Reports” on 4th July 2023 2. Reviewed a paper submitted to the SCIE Journal “Journal of Nanomaterials, Nanoengineering and Nanosystems” on 4th July 2023 3. Reviewed a paper submitted to the SCIE Journal “Journal of Materials Engineering and Performance” on 19th July 2023 4. Reviewed a paper submitted to the SCIE Journal “Journal of Thermal Stresses” on 5th August 2023 5. Reviewed a paper submitted to the SCIE Journal “Welding International” on 16th August 2023 6. Reviewed a paper submitted to the SCIE Journal “Journal of Mechanical Engineering Science” on 5th October 2023 7. Reviewed a paper submitted to the SCIE Journal “Journal of Mechanical Engineering Science” on 26th October 2023 8. Reviewed a paper submitted to the SCIE Journal “Silicon” on 10th November 2023 |

FACULTY AWARD, RECOGNITION AND FELLOWSHIP

| S.NO | Name of full time teachers receiving awards from state level, national level, international level | Name of the award, fellowship, received from Government or recognized bodies |
|------|---|--|
| 1 | Mr.J.Vasanthe Roy (National) | Received Elite Gold award (Topper-5%) from NPTEL for excelling in the 8 Weeks course titled Accreditation and Outcome Based Learning(Aug-Oct 2023) |
| 2 | Mr.K.N.Ramu (National) | Received Elite Silver award from NPTEL for excelling in the 8 Weeks course titled Accreditation and Outcome Based Learning(Aug-Oct 2023) |
| 3 | Mr.K.Manimaran (National) | Received Elite award from NPTEL for excelling in the 8 Weeks course titled Accreditation and Outcome Based Learning(Aug-Oct 2023) |
| 4 | Mr.K.A.V.Roossvelt prabhu (National) | Received Elite award from NPTEL for excelling in the 12 Weeks course titled Fundamentals of Artificial Intelligence(Jul-Oct 2023) |

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| 5 | Mr.G.Prabaharan (National) | Received Elite award from NPTEL for excelling in the 8 Weeks course titled Research Methodology(Aug-Oct 2023) |
| 6 | Mr.K.Parthasarathy (National) | Received Elite award from NPTEL for excelling in the 4 Weeks course titled Product Design And Development (Jul-Aug 2023) |



EDITORIAL BOARD

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