

# **Faculty Profile**



**Dr.V. MUTHUKUMAR, M.E., Ph.D., FIE., C.Eng.,**

Professor – Mechanical

## **HIGHLIGHTS:**

- Number of Journal Publications: 22
- H-Index: 9
- Project Funding Received: 4
- Patents Published: 4
- Patents Granted: 2

## **PROFESSIONAL LINKS:**

- Scopus ID: [56296675200](https://www.scopus.com/authid/detail.uri?authorId=56296675200)
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=56296675200>
- Google Scholar ID: <http://scholar.google.co.in/citations?hl=en&user=5SOH3egAAAAJ=en>
- Anna University Faculty ID: 2122219
- AICTE Faculty ID: 1-469026020
- LinkedIn: <https://www.linkedin.com/in/muthukumar-v-2017821b3/>

## **PROFESSIONAL BACKGROUND:**

- Teaching Experience till date: 20 years
- Industrial Experience: 2 Years

## **INTERNATIONAL EXPOSURE:**

- Visited Taylors University, Malaysia and given a conference talk in International Conference.
- Visited MDIS (Management Development Institute of Singapore) University, Singapore and present my research paper in International Conference.
- Completed IUCEE (Indo Universal Collaboration for Engineerin Education) on International Engineering Education Certification Program with Distinction (Score 95.85)

**AREA OF SPECIALIZATION:**

- Design and 3D Printing of Engineering Components
- Artificial Intelligence and Machine Learning in 3D Printing and composite machining
- Development of Composite Materials, Testing and Analysis
- Machining of Composites and Optimization techniques
- Finite Element Simulation

**PH.DS VIVA-VOCE EXAMINER:**

- Viva examiner for the Candidate Mr. S. D. Kumar's Ph.D. Public Viva-Voce Exam" on 21/11/2024 at Vels Institute of Science, Technology & Advanced Studies (VISTAS), Chennai.
- Viva examiner for the Candidate Mr. Mr. Sanoop Sebastian's Ph.D. Public Viva-Voce Exam" on 22/07/2024 at Vels Institute of Science, Technology & Advanced Studies (VISTAS), Chennai.

**SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:**

<b>Name of the Coordinator</b>	<b>Title of the project</b>	<b>Amount sanctioned</b>	<b>Funding Agency</b>
Dr.V.Muthukumar	Design and Development of Biodegradable Tibia bone internal fixation plate using CT/CAD/Additive Manufacturing (Project Ref. No.- PG2015008)	Rs. 50,000/-	(Institution of Engineers (INDIA), Kolkata
Dr.V.Muthukumar	Design and Development of Biodigester for Effective Food Waste Disposal (Project Ref. No.- UG2015011)	Rs. 15,000/-	(Institution of Engineers (INDIA), Kolkata
Dr.V.Muthukumar	Design and development of smart dust bin (Project Ref. No.: EME-047)	Rs. 10,000/-	TNSCST, Chennai
Dr.V.Muthukumar	Development of Economic, Energy Efficient and Eco-friendly Cooling System for Solar Panels (Project Ref. No.: EME-033)	Rs.7500/-	TNSCST, Chennai

<b>Name of the Coordinator</b>	<b>Title of the program and duration</b>	<b>Amount sanctioned</b>	<b>Funding Agency</b>
Dr.V.Muthukumar	Two-week ISTE STTP workshop on "Environmental studies" from 2 <sup>nd</sup> June to 12 <sup>th</sup> June 2015	Rs. 2,03,360/-	MHRD, Govt. of India
Dr.V.Muthukumar	IEI-sponsored "All India Seminar on New Generation Composite Materials" October 19 and 20, 2023	Rs. 50,000/-	Metallurgical and Materials

			Engineering Division of IEI
Dr.V.Muthukumar	IEI sponsored All India Seminar on “Recent Trends and Challenges in 3D Printing” May 25 and 26, 2023	Rs. 40,000/-	Production Engineering Division of IEI.
Dr.V.Muthukumar	IEI sponsored All India Workshop on "Parametric Design Using Fusion 360" March 23 and 24, 2023	Rs. 40,000/-	Mechanical Engineering Division of IEI
Dr.V.Muthukumar	IEI sponsored Two days All India Seminar on Rapid Prototyping 22/08/2024 and 23/08/2024	Rs. 40,000/-	Production Engineering Division of IEI.
Dr.V.Muthukumar	Seven days Faculty Development Training Programme on ME6503 - Design of Machine Elements from 13th to 20th June, 2016.	Rs. 30,000/-	Anna University Chennai
Dr.V.Muthukumar	Seven days Faculty Development Training Programme on ME 2352 – Design of Transmission systems on 12 <sup>th</sup> to 19th Dec 2014	Rs. 25,000/-	Anna University Chennai
Dr.V.Muthukumar	Two days Faculty workshop on "Engineering Graphics” from 31 <sup>st</sup> July 2015 to 1 <sup>st</sup> August 2015	Rs. 30,000/-	Oxford University Press (India)

## JOURNAL PUBLICATIONS:

### International Journals:

1. Krithik Raj A , Arulkumar M , Saravanan S and **Muthukumar V**, 2025, “Artificial Intelligence-based Autonomous Pesticide Spraying Drone Management for Sustainable Agriculture”, Advances in Engineering Research , PP 1076-1089, [https://doi.org/10.2991/978-94-6463-662-8\\_84](https://doi.org/10.2991/978-94-6463-662-8_84).
2. M. Arulkumar, A. Krithik Raja, S. Saravanan, **V. MuthuKumar**, “Prediction of Tribological Characteristics of Biomaterials Using Artificial Neural Networks" Journal of Materials and Engineering, January 2025
3. S. Panneer Selvan, D. Elil Raja, **Muthukumar, V** and Tushar Sonar, 2024, “Optimization of process parameters and predicting surface finish of PLA in additive manufacturing - a neural network approach”, Int J Interact Des Manuf. <https://doi.org/10.1007/s12008-024-01848-5>.
4. G. Venkatesan , N. Kulasekharan, **V.Muthukumar**, S. Iniyan, 2015, Regression analysis of a curved vane demister with Taguchi based optimization, Desalination, Vol. 370, pp. 33–43.
5. **Muthukumar, V.**, Sureshbabu, A., Venkatasamy, R., Senthilkumar, N., 2014, “An Accelerated Particle Swarm Optimization Algorithm on Parametric Optimization of WEDM of Die-Steel, Journal of the Institution of Engineers

6. **Muthukumar, V.**, Rajesh, N., Venkatasamy, R., Sureshbabu, A., Senthilkumar, N.,2014, Mathematical Modeling for Radial Overcut on Electrical Discharge Machining of Incoloy 800 by Response Surface Methodology, Procedia Materials Science Vol. 6, pp.1674 –1682. (Elsevier Publications).DOI :S2211812814005185.
7. K. Venkataraman, B.VijayaRamnath , **V.Muthu Kumar**, C.Elanchezhian, 2014, Application of Value Stream Mapping for Reduction of Cycle Time in a Machining Process, Procedia Materials Science, Vol. 6, pp. 1187 – 1196.(Elsevier Publications).
8. Senthilkumar, N, Sudha, J, **Muthukumar, V**, 2015, A Grey-Fuzzy approach for optimizing Machining parameters and Approach Angle in Turning AISI 1045 Steel, Advances in Production Engineering & Management, Vol. 10, No. 4(December 2015), pp 195–208.
9. **MuthuKumar, V.**, Suresh Babu, A.,Venkatasamy R. and Raajenthiren, M., 2010, “Multi Response Optimization of Machining Parameters of Wire-EDM using Grey Relational Analysis in the Taguchi Method”, International Journal of Applied Engineering Research, Vol.5, No.13, pp. 2325-2338.
10. D. Veenaraja, **V. Muthukumar**, R. Venkatasamy, M. Dharmendhirakumar, A. Sureshbabu,A. Antony George Fernando,2014, “Surface Roughness Analysis And Optimizationof EDM Machining Parameters In Machining Al/SiC MMC by Taguchi Method”, International Journal of Applied Engineering Research,Vol. 9 No.26 (2014) pp. 9386-9389.
11. 15) D. Veenaraja, **V. Muthukumar**, R. Venkatasamy, M. Dharmendhirakumar, 2015, “Effect of Machining Parameters on EDM Process Responses: A Taguchi Based Approach For Al-Sic MMC”, International Journal of Applied Engineering Research,Vol. 10, Number 2 (2015) pp. 3399-3410.
12. Arun Kumar, N.E.,Sureshbabu, A.,**Muthukumar, V.**,2014, “Parametric study along with selection of optimal solutions in Wire cut machining of Titanium (Gr2)”, Advanced Materials Research Vols. 984-985, pp. 37-41.
13. **Muthukumar, V.**,Venkatasamy, R., Mariselvam, V., Sureshbabu, A., Senthilkumar, N., Antony George Fernando, A.2014, “Comparative investigation on Mechanical properties of Natural fiber reinforced polyester composites”, Applied Mechanics and Materials Vols. 592-594, pp. 92-96.
14. Manickavasagam, V.M., VijayaRamnath, B., Elanchezhian, C., Jenish, J., Jayavel, S., **Muthukumar, V.**,2014, “Investigation on impact and compression Properties of Pineapple Reinforced Polymer Composite”, Applied Mechanics and Materials Vol. 591, pp 116-119.

15. **V Muthukumar**, SS Makendar, V.S, Pasupathy, R Nandha Kishore, T Raja, 2018, "Optimization of Anaerobic Bio-Digester Process Parameters for Biogas Production Using Taguchi Method", Advanced Science, Engineering and Medicine, Vol. 10, No. 03, pp.518 – 521.
16. **MuthuKumar, V.**,Suresh Babu, A.,Venkatasamy R. and Raajenthiren, M., 2010, "Optimization of the WEDM Parameters on Machining Incoloy800 Super alloy with Multiple Quality Characteristics", International Journal of Engineering Science and Technology, Vol.2, No.6, pp1538-1547.
17. **MuthuKumar, V.**, Venkatasamy, R., SureshBabu, A ., Jagan, K and Nithin, K, 2011, "Wear characteristic of Al alloy (LM4)-Sic particulate reinforced MMC", International journal of production technology and Management Research, Vol.2, No.1, pp.49-54.
18. **MuthuKumar, V.**, Venkatasamy, R., SureshBabu, A and Arunkumar, D, 2011, "A study on Mechanical Properties of Natural Fibre Reinforced Laminates of Epoxy (LY 556) Polymer matrix composites", International journal of production technology and Management Research, Vol.2, No.2, pp.67-72.
19. **MuthuKumar, V.**,Suresh Babu, A.,Venkatasamy R. and Raajenthiren, M., 2010, "Parametric Optimization of Wire-Cut EDM Process Using Grey Based Taguchi Method for Machining Titanium Alloy (Ti-6Al-4V)", International Journal of Multidisciplinary Research and Advances in Engineering, Vol.2, No.2, pp.77-92.

#### **National Journals :**

1. **MuthuKumar, V.**, Suresh Babu, ., Venkatasamy, R., and Raajenthiren, M., 2011 " Process Optimization of Wire-EDM Parameters by Grey Relational analysis based Taguchi method", CURIE, Vol.3, No.3 and 4, pp.1538-1547.
2. Senthilkumar, N., Dhinakarraj, C.K.,**MuthuKumar, V.**, Kathiresan, S., and Sreenivasan, K.S., 2012, "Multi-response optimization of cylindrical grinding parameters using Taguchi's Technique and Simulated Annealing", Journal of Engineering Today, Vol.14, No.2.
3. Jeysingh, V.K., **MuthuKumar, V.**, Senthilkumar, N., 2013, "Analysis and Optimization of approach angle and surface roughness parameters in dry machining of AISI 1045 steel", Journal of Emerging Technology in Mechanical Science and engineering 4 (1) 46-52.

#### **International Conference**

1. Analysis and Design of a Soft Switching Boost DC – DC Converter –International Conference on Electrical Electronics & Communication Technology ICEECT'24 on 27<sup>th</sup> Aril 2024 held at PERI Institute of technology.

## PATENTS PUBLISHED/GRANTED:

- “A bio-compatible and bio-degradable natural fiber polymer composite internal fixation plate” - Patent No:406799, **Granted** on 16/09/2022
- “Hybrid metal matrix composite for brake drum application” - Patent No:414423, **Granted** on 14/12/2022
- “A method for the manufacture of the automobile components from discarded materials”. **Published** in the Patent Office Journal of India (No. 12/2023, dated 24/03/2023, Application No. 202341008686 A).
- "Development of Eco-friendly Passive Heat Exchanger for Cooling Solar Panel" Application Number: 202341026677 A, Date of Filing: 25/04/2023, **Publication** Date: 05/05/2023, Patent Office Journal Issue: No. 18/2023, dated 05/05/2023

## COURSES CERTIFIED:

1. AICTE-QIP-PG Certificate Programme on 3D printing at Indian Institute of Technology Palakkad from July 2024 to December 2024.

## ACHIEVEMENTS AND AWARDS:

- Honored with the "**Exemplary Leadership Award 2024**" by The Institution of Engineers (India), Kanchepuram Local Centre on October 22, 2024, at Jerusalem College of Engineering, Chennai.
- Awarded the **Faculty Appreciation Award 2022** by **The Institution of Engineers (India), Kanchepuram Local Centre**, for his outstanding contribution and active involvement in promoting **Technical Activities through IEI Students Chapter in Saveetha Engineering College**. The award was conferred on 28th October 2022 at Jerusalem College of Engineering, Chennai.
- Received **Best Faculty Advisor and Coordinator** for the academic year 2018-19 during Student Chapters Meet & Award distribution function organized by The Institution of Engineers (India), Kanchepuram Local Centre on 30.10.2019 @ Sri Sai Ram Institute of Technology, Chennai.
- Received the '**Toycathon 2021 Evaluator**' Certificate issued by GOI Ministry of Education's Innovation Cell with support from AICTE, Ministry of Women and Child Development, Ministry of Commerce and Industry, Ministry of MSME, Ministry of Textiles and Ministry of Information and Broadcasting.
- Received the "**Best Participant Award**" and "**honored**" with "**3D printed Miniature Model**" in the Ministry of Human Resource Development (MHRD) sponsored one-week FDP on "3D printing in Engineering Education" organized by the Department of Mechanical Engineering in association with Teaching-Learning Centre (TLC), National Institute of Technology, Warangal (NITW) during 05-10 of June 2017.
- **Session chair** for one of the Poster presentation session titled "Sustainable energy, Recycling and Waste management" in 8th International Conference on Advancements in Polymeric Materials, APM 2017 (February13, 2017) organized by ARSTPS, Chennai, R&D wing of CIPET held at Indian Institute of Science, Bengaluru.

- Received the certificate of **Chartered Engineer (India)** from the Institution of Engineers (India) on 15/02/2016.
- Received the certificate of appreciation award for the propitious contribution as a **JUDGE in the “STAR Summit”** held on April 5, 2017 at Saveetha School of Engineering, Saveetha University, Chennai.
- Received the **certificate of training award** for the successful completion of training in “CARDIO PULMONARY RESUSCITATION” held on April 7, 2016 at Saveetha University as part of ‘SAVE A LIFE MOVEMENT”.
- Received the **Honour code certificate** for the successful completion of the course on “WHS791x: Technical Communication for Scientists and Engineers” issued on 21 December 2015 organized by IIT Bombay.
- Appointed as a **Question paper setter** for the UG and PG degree Examination of Anna University and It’s Autonomous Institutions.
- Appointed as **Anna University Result passing board member** in April/May 2019 Examinations.
- Appointed as **Chairman for Mechanical board paper evaluation** in April/May 2019 Examinations by Anna University Zone -2.
- Outstanding **UG-Project award for guided** the project Titled “ Design and Fabrication of Robo-Bin” in National Level Project Competition and Exhibition held on 19th April, 2013, Saveetha Engineering Collge, Chennai, India.
- Received "**Best Teacher award**" from Saveetha Engineering College in the year 2010

#### **SPECIAL SESSIONS DELIVERED:**

- Delivered an online guest lecture on the topic “**Application of Additive Manufacturing.**” organized by Dept. of Mechanical Engineering, Dr. MGR Educational & Research Institute University, Chennai during the Additive Manufacturing Faculty Development Program (FDP) on June 5, 2024.
- Delivered a guest lecture on the topic "**Empowering Mechanical Engineers in the Fourth Industrial Revolution: Unleashing the Transformative Potential of 3D Printing in Design and Prototyping**" organized by Dept. of Mechanical Engineering at St. Joseph College of Engineering, Sriperumbudur on October 18, 2023.
- Delivered an online guest lecture on the topic “**3D Printing of bio-based composite materials for medical applications**” during FDP in "Research Innovations in Materials and Manufacturing" from 02/01/2023 to 06/01/2023 organized by Dept. of Mechanical Engineering, Velammal Engineering College, Chennai on 3<sup>rd</sup> January, 2023.
- Delivered an Online Guest Lecture on ME8593 - Design of Machine Elements in the topic "**Design of Bearings**" during FDP organized by the Department of Mechanical Engineering, Mailam Engineering College, Mailam on 29/10/2022.
- Delivered an Online Guest Lecture on ME8594 – Dynamics of Machines in the topic "**Turning moment diagrams and Flywheel**" during ANNA University sponsored FDTP organized by the Department of Mechanical Engineering, Easwari Engineering College, Chennai on 22/07/2022.

- Delivered an guest lecture in the topic “**Design for Additive Manufacturing**” on 07.10.2021 at 10.00 am during the three days Faculty Development Program on “Product Design on Manufacturing” organized by the Department of Mechanical Engineering, CARE College of Engineering, Trichy.
- Deliver a invited talk in 7 Days Virtual Faculty Development Programme on Unconventional Machining Process on the topic "**EDM Characteristics and Control circuits -EDM Dielectric fluids, Flusing Techniques and Applications**" Organized by Organized by Sri Sai Ram Engineering College, Chennai on 31.07.2021
- An Expert talk given in AICTE - Sponsored STTP program on "**Fundamentals of Finite Element Analysis and its Applications in Engineering**", organized by the Department of Mechanical Engineering, Panimalar Institute of Technology, Chennai in the Topic: **3D Modeling and FE Analysis of Human Mandible using Reverse Engineering – Case Study** on 20th January 2021.
- Delivered a Invited Talk on " **Reverse Engineering and Finite Element Analysis of a Human Tibia Bone** " in 8th International Conference on Advancements in Polymeric Materials, APM 2017 (February 12-13, 2017) organized by ARSTPS, Chennai, R&D wing of CIPET held at Indian Institute of Science, Bengaluru.
- Delivered a Lecture on " **Design of Springs**" in Anna University approved Faculty Development Programme on ME6503: Design of Machine Elements (22nd May to 30th May 2017) organized by Department of Mechanical Engineering, Panimalar Engineering College, Chennai (26/05/2017).
- Delivered a Lecture on " **Design of Clutches**" in Anna University approved Faculty Development Programme on Design of Transmission Systems organized by Department of Mechanical Engineering, St.Joseph’s institute of technology, OMR , Chennai (10/12/2018).
- Delivered a Invited Talk on " **Reverse Engineering and 3D Printing of Patient Specific Hip Joint** " in International conference on Advancements in Polymeric Materials (APM 2019) Organized by CIPET- ARSTPS, CHENNAI (22-01-19 to 24-01-19).
- Delivered a Lecture on " **Development of Biodegradable Composite for Orthopedic Applications**" in AICTE sponsored Two weeks Faculty Development Programme on “Bio-degradable, Green and Nanocomposites for Industrial Applications: Manufacturing, Methodologies and Properties” (20th October - 2nd November 2017) organized by the Department of Mechanical Engineering, Sri Sairam Institute of Technology, Chennai (23/10/2017).
- Delivered a Lecture on in Workshop on "**Avenues in composites Materials – Processing and Characterization**” @ Rajalakshmi Engineering College from 06th to 08th June, 2019.
- Delivered an expert lecture in AICTE sponsored STTP on "**Natural fibre Composites-Recent Technology for sustainability and Eco-Friendly Environment**” Organized by Organized by Sri Sai Ram Engineering College, Chennai, 28th June 2019.
- Delivered an invited guest lecture titled “ **Development of Surfaces**” in **Three days Faculty development Programme on "Engineering Graphics"** organized by the Departments of Automobile and Mechatronics Engineering, Rajalakshmi Engineering College, Chennai on 26.07.19.



- Delivered an expert lecture in AICTE Sponsored FDP on the topic “**3D Printed PLA Based Natural Fibre Composites for Bio Medical Applications**” Organized by Panimalar Engineering College, Chennai on 15th November 2019.
- Delivered an invited guest lecture to the participants of AICTE Sponsored Short Term Training Program (STTP) on “**3D Printing – Concepts, Methods and applications**” organized by the Department of Mechanical Engineering and Centre for Advanced Manufacturing, Rajalakshmi Institute of Technology, Chennai on 08/11/2019.
- Handled a lively session with the participants of Anna University Sponsored FDTP on “GE-8292 Engineering Mechanics” and delivered a lecture in the topic “**Equilibrium of Rigid bodies in Three Dimensions**” organized by St. Joseph’s Institute of Technology, OMR, Chennai on 18/11/ 2019.
- Delivered a Invited Lecture on “**Polymer Nano composites** ” in National conference organized by Jeppiaar Institute of Technology, Sriperumbudur , Chennai (25-Feb-2015).
- Delivered a Lecture on “**Design of Gear Box**” in Anna University sponsored Faculty Development Training Programme on Me 2352 – Design of Transmission systems organized by Department of Mechanical Engineering, Saveetha Engineering College, Chennai (12th Dec 2014).
- Delivered a Lecture on “**Design of Brakes**” in Anna University sponsored Faculty Development Training Programme on Me 2352 – Design of Transmission systems organized by Department of Mechanical Engineering, Saveetha Engineering College, Chennai (17th Dec 2014).
- Delivered a Lecture on “**Equilibrium of rigid bodies in 2D and 3D**” in Anna University approved Faculty Development Training Programme on Engineering Mechanics (04th Jan’16 – 11thJan’16) organized by Department of Mechanical Engineering, Rajalakshmi Engineering College,Thandalam, Chennai (6th January 2016).
- Delivered a Lecture on “ **Friction in brakes - Band and Block brakes** ” in Anna University approved Faculty Development Training Programme on Kinematics of Machinery – ME 6401 (13th June – 20th June 2016) organized by Department of Mechanical Engineering, Rajalakshmi Engineering College, Thandalam, Chennai (20th June 2016).
- Delivered a Lecture on “ **Velocity and acceleration analysis of Four bar mechanism** ” in Anna University approved Faculty Development Training Programme on Kinematics of Machinery – ME 6401 (5th December – 12th December 2016) organized by Department of Mechanical Engineering, Sri Sai Ram Institute of Technology, Chennai (6th December 2016).
- Delivered a Lecture on “ **2D - Scalar variable Problem** ” in Faculty Development Programme on Finite Element analysis – ME 6603 (08th December – 10th December 2016) organized by Department of Mechanical Engineering, Rajalakshmi Engineering College,Thandalam, Chennai (9th December 2016).

#### CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- ✓ **Participation in Academic Events** – Attended various national and international conferences, FDPs, workshops, and seminars at IITs, NITs, ATAL FDPs, and institutions across India.

- ✓ **Event Organization** – Organized 3 international conferences, 5 national conferences, 5 FDPs, 20 workshops, and 25 seminars.
- ✓ **Chief Guest & Judge** – Invited to hackathons, conferences, FDPs, workshops, seminars, and symposiums as a chief guest and judge.

#### **ADMINISTRATIVE RESPONSIBILITIES :**

- ✓ **Curriculum Development In-Charge** – Responsible for designing the curriculum and syllabi for the 3D Printing Honors/Minor program at Saveetha Engineering College.
- ✓ **Syllabus Committee Member** – Involved in drafting autonomous syllabi for Regulation 2019 & 2024 for Mechanical Engineering at Saveetha Engineering College.
- ✓ **PALS-IITM** – Served as an Executive Member from June 2019 to May 2023.
- ✓ **NBA and NAAC** – Head of Criteria 2.
- ✓ **Head of the Department (HoD)** – Mechanical Engineering from February 2011 to May 2013.
- ✓ **Overall Discipline In-Charge** for organizing major college events, including Graduation Day, College Day, Sports Day, Cultural Fest, and the Techfest "DRESTEIN."
- ✓ **Project Guidance** – Supervised 60 UG final-year projects and 15 PG final-year projects.
- ✓ **Established R&D Lab Facilities** at Saveetha Engineering College, including:
  - Stir Casting Machine
  - 3D Printer (for PLA/ABS materials)
  - 3D Printer (three-in-one facility)
  - Single Screw Extruder

#### **PROFESSIONAL MEMBERSHIPS:**

- Life Fellow Member in Institution of Engineers (India), No. F-150821-5
- Life Member in Indian Institute of Metals, No: CO6-LM-54767
- Life Member in Tribology Society of India, No : LM 5787
- Life Member in Operational Research Society of India, No: 1207/M/16/MSL
- Life Member in Indian Society for Technical Education, No : LM 78360
- Life Member in Indian Institute of Production Engineers – S/LF/8994
- Member, International Association of Engineers, No : 120585
- Member, HKSME, member ID is: m20160108001

## **OTHER DETAILS (If any):**

### **REVIEWER FOR JOURNALS**

- Materials & Design (Elsevier Publications)
- Silicon (Elsevier Publications)
- Journal of Industrial Textiles (Sage publications)
- Polymer Composites (Wiley publications)
- Journal of the Institution of Engineers (India): Series C (Springer Publications)
- Materials today proceedings (Elsevier Publications)
- Journal of the Taiwan Institute of Chemical Engineers (Elsevier Publications)
- Chemical engineering communications (Sage publications)
- International Journal of Machining and Machinability of Materials (Inderscience Publications)

### **GUIDE/MENTOR IN VARIOUS COMPETITIONS:**

1. **Guided** the SEC Team **Unaccounted**, which secured the **Runner-up position** in the **Final Round** of the **Underwater Robotics Challenge** under the **Software Simulation Category**. This prestigious competition was part of **Kurukshetra 2025**, organized by **Anna University**, and took place on **February 23, 2025**.
2. **Guided** the **Deeptech Team**, which achieved the **Runner-up position** in the **Final Round** of the **Underwater Robotics Challenge** under the **Project Proposal Category**. This esteemed competition was part of **Kurukshetra 2025**, organized by **Anna University**, and was held on **February 23, 2025**.
3. **Mentored** the SEC Team of **Divesh J and Praveenkumar R**, who won the **Special Prize for Innovative Design** at **IDW 2024**, a **national-level design competition** conducted by **ICT Academy and Autodesk**.
4. **Mentored** SEC Mechanical Engineering students **Kavyaambiga K (212222080028)** and **Sridharshini K (212222080050)**, who secured **First Prize** and a **cash award of ₹5000/-** in the **Final Round** of the **"Welding Quiz."**
5. **Mentored** **Nanda Kishor M, Vishak K, and Balaganesh V**, Class IX students of **The Pupil Saveetha Eco School**, who won the **Second Prize** in the **Final Round** of **GovTechThon - Open Innovation Challenge 2.0**, organized by the **Tirunelveli District Administration**, supported by **StartupTN**. Competing against adults, they were the **only school students** to achieve this remarkable feat. They received a **cash award of ₹50,000/-** and **certificates** from the **District Collector, Mr. Vishnu**, at the **District Science Centre, Tirunelveli**, on **April 30, 2022**.