

## Ph.D Completion



**Dr. E. Arunkumar**, Assistant Professor, **Department of Robotics and Automation**, has successfully completed his **Doctor of Philosophy (Ph.D.)** at **VIT University** in **January 2025**. His research was titled *“Experimental Investigation and Multi-Objective Optimization of Machining Parameters using Hybrid Evolutionary Algorithms in Turning of Nimonic Alloys under NANO-MQL Machining Environment.”*

## Faculty Development Program

Our Robotics and Automation department faculty **Prof.T.Jayachandran**, **HoD / R&A**, **Dr.E.Arunkumar**, **AP / R&A**, and **Prof.A.Aravindhnan**, **AP/R&A** were attended the **AICTE Training and Learning (ATAL) Academy Faculty Development Program** under the title of **“AI Innovations in Additive Manufacturing for Enhanced Precision and Surface Quality of Composites in Micro machined Products”** at **MAHENDRA POLYTECHNIC COLLEGE, Namakkal** from **03/02/2025 to 08/02/2025**.



Our Robotics and Automation department faculty **Prof.T.Jayachandran, HoD / R&A, Dr.E.Arunkumar, AP / R&A, Prof.A.Aravindhnan, AP/R&A and Mrs.A.Vimal, AP/R&A** were attended the **AICTE Training and Learning (ATAL) Academy Faculty Development Program** under the title of “**Sustainable Carbon-Free Technologies for Hydrogen Generation and Storage**” at **National Institute of Technology, Tiruchirappalli** from **24/02/2025 to 01/03/2025**.

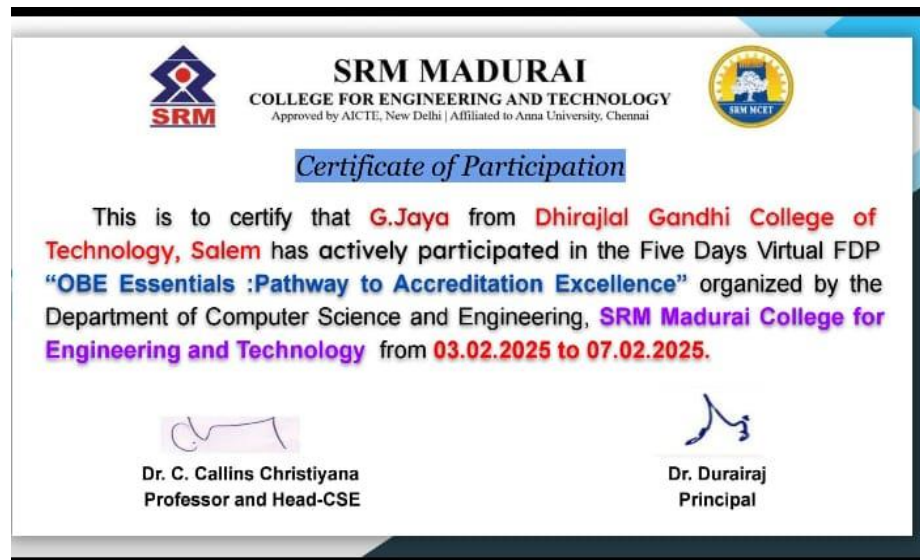


Our Robotics and Automation department **Prof.A.Aravindhnan, AP/R&A** were attended the **Indian Institute of Industrial and Social Research (iisr)-Faculty Development Program** under the title of “**Leveraging AI in Academic Writing and Research**” from **13<sup>th</sup> January 2025 to 17<sup>th</sup> January 2025**.



**Dr.E.Arunkumar**, Assistant Professor in the Department of Robotics and Automation, participated under the titled “**Masterclass Series under IP Utsav**” organized virtually by **the All India Council for Technical Education(AICTE) and Ministry of Education’s innovation cell**

(MIC) From 21<sup>st</sup> April to 26<sup>th</sup> April 2025.



**Mrs.G.Jaya**, Assistant Professor in the Department of Robotics and Automation, attended five Days Virtual FDP “**OBE Essentials: Pathway to Accreditation Excellence**” organized by **SRM Madurai College for Engineering and Technology** From **03<sup>rd</sup> February** to **07<sup>th</sup> February 2025**.





Our Robotics and Automation department faculty **Prof.A.Aravindhan, AP/R&A** were attended the **One day Faculty Development Program** organized by **Confederation of Indian Industry (CII)** at **Annapoorana Engineering College, Salem** on **19<sup>th</sup> October 2025**.




Our Robotics and Automation department all the faculties were attended the Two day Faculty Development Program “**Be a great Mentor, To be a Good Teacher**” session led by **Dr.Logasakthi kandasamy**, Certified Professional Trainer, Programme Director-BBA,RV University, Bangaluru organized by, **Dhirajlal Gandhi College of Technology, Salem**.

## Workshop



Our Robotics and Automation department **faculty members** were attended the **one day workshop** under the title of “**Funding Body Schemes & Trust Research Areas**” on **09<sup>th</sup> March 2025**. The session was led by **Dr.T.Ram Prabhu**, Joint Director / Scientist DRDO, Bangalore. The program was organized by DGCT.

## NPTEL



**Elite**

**NPTEL ONLINE CERTIFICATION**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**MRS A VIMAL**  
for successfully completing the course

**Introduction To Internet Of Things**

with a consolidated score of **83** %

Online Assignments	21/25	Proctored Exam	61.5/75
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Total number of candidates certified in this course: **38143**

Jan-Apr 2025  
(12 week course)



**Prof. Haimanti Banerji**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur

Roll No: NPTEL25CS44S456101349 To verify the certificate 

  
FREE ONLINE EDUCATION  
swayam

No. of credits recommended: 3 or 4

**Mrs. A.Vimal**, Assistant Professor, Faculty of the Robotics and Automation Department, has been awarded the **Elite + Silver certificate** in the **NPTEL** course titled “**Introduction to Internet of Things**,” a 12-week program completed in **April 2025**.

## CONFERENCE



**Best Paper Award**

This is to certify that Prof./Dr./Mr./Ms. A. Aravindhan / AP / Dhirej Lal Gandhi College of Technology participated and presented an oral presentation for the paper entitled Enhanced Polymer Composites Utilizing Fish Scale Powder: A Mechanical Properties Investigation, which has been awarded the “Best Paper Award” in International Conference on “Additive Manufacturing Technologies (Aerospace, Automobile, AI & ML, Bio-Medical, Computer Science, Electrical, Electronics, Mechanical, Petrochemical and Construction - 3DP)” organized by Department of Mechanical Engineering, Mahendra Institute of Technology (Autonomous), Namakkal, sponsored by Science and Engineering Research Board (SERB), New Delhi during 17-18 October 2024.



**CO-CONVENOR**  
Dr. S. SADHISHKUMAR  
ASP/Mech., MIT



**CONVENOR**  
Dr. L. SELVARAJAN  
HOD/Mech., MIT



**DEAN**  
Dr. J. RAJAVEL  
MIT



**PRINCIPAL**  
Dr. T. ELANGO  
MIT

**Mr.A.Aravindhan**, Assistant Professor in the Department of Robotics and Automation, participated and got **Best Paper Award** for the titled “**Enhanced Polymer Composite Utilizing**

**Fish Scale Powder: A Mechanical Properties Investigation”** at the International Conference on Additive Manufacturing Technologies, organized by **the Mahendra Institute of Technology (Autonomous), Namakkal**. The event was sponsored by **the Science and Engineering Research Board (SERB), New Delhi**, and held during **October 17<sup>th</sup> –18<sup>th</sup> October, 2024..**



**Mr. A. Aravindhan**, Assistant Professor in the Department of Robotics and Automation, participated and presented a paper titled “Performance **AnalysisEnhanced Polymer Composite Utilizing Fish Scale Powder: A Mechanical Properties Investigation**” at the **International Conference on Additive Manufacturing Technologies**, organized by **Mahendra Institute of Technology (Autonomous), Namakkal**. The event was sponsored by the **Science and Engineering Research Board (SERB), New Delhi**, held during **17<sup>th</sup> –18<sup>th</sup> October, 2024**.





# PATENT

**बौद्धिक संपदा कार्यालय, भारत सरकार, Intellectual Property Office, Government of India.**

**विज्ञापन संख्या / Publication No.: ०१५७३ ८२६९४ ८४२३३**

**पेटेंट नंबर / Patent No.: ०१५७३ ८२६९४ ८४२३३**

**दिनांक / Date:** १४/०८/२०२४

**परस्परिका तारिख / Reciprocity Date:** १२-१६-२०११

**देशा / Country:** भारत

**प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो TIP OVER INJURY PREVENTION DEVICE FOR MOTORCYCLES से संबंधित है, का पंजीकरण, श्रेणी १२-१६ में १.Dr.T.Sekar 2.Mr.T.Jayachandran 3.Mr.R.Chinnadurai 4.Mr.S.Jerome Christo 5.Mr.M.Gobinath 6.Mr.K.Gokul Krishna 7.Mr.K.Aswanth Kumar 8.Mr.V.Hari Prasath 9.Mr.S.Karan 10.Mr.C.Sanjay के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।**

**Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 12-16 in respect of the application of such design to TIP OVER INJURY PREVENTION DEVICE FOR MOTORCYCLES in the name of 1.Dr.T.Sekar 2. Mr.T.Jayachandran 3.Mr.R.Chinnadurai 4.Mr.S.Jerome Christo 5.Mr.M.Gobinath 6.Mr.K.Gokul Krishna 7.Mr.K.Aswanth Kumar 8.Mr.V.Hari Prasath 9.Mr.S.Karan 10.Mr.C.Sanjay.**

**डिजाइन अधिनियम, २००० तथा डिजाइन नियम, २००१ के अन्वये प्रचलित हैं अनुसरण में। In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.**

**जारी करने की तिथि / Date of Issue:** ०२/०८/२०२४

**पात्रता परीक्षा (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वतंत्रता पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अभिवृत्ति एवं निषेधन दोनों के अधीन, पांच वर्षों की अवधि तक बढ़ाया जा सकता है। इस समय पत्र का उपयोग बिल्कुल कार्यवाही के लिये ही है। The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.**

**भारतीय पेटेंट अधिकारी / Indian Patent Officer**

**Controller General of Patents, Designs and Trade Marks.**

**Mr. T. Jayachandran**, Head of the Department of Robotics and Automation, has been granted design patent rights by the Patent Office, Government of India, for his innovation titled “**Tip Over Injury Prevention Devices for Motorcycles**” (Design No: 420065-001), dated **June 26, 2024**.

(12) PATENT APPLICATION PUBLICATION		(21) Application No 202441090849 A
(19) INDIA		
(22) Date of filing of Application :22/11/2024		(43) Publication Date : 29/11/2024
(54) Title of the invention : SMART MULTI-CONTROL AUTONOMOUS VEHICLE		
(51) International classification		(71)Name of Applicant :
G05D0901000000, G06Q010080000, G06Q010063100, G01C0021340000, G06V0020560000		<b>1)M.Larunkumar</b> Address of Applicant :Associate Professor,Department of Mechatronics Engineering Hindusthan College of Engineering and Technology (Autonomous),Coimbatore-641032 -----
(86) International Application No		<b>2)S PAVITHRA</b>
(87) International Publication No		<b>3)Dr.P.Vijayakumar</b>
(61) Patent of Addition to Application Number		<b>4)R. VIJAY</b>
(62) Divisional to Application Number		<b>5)A.ARAVINDHAN</b>
		<b>6)K.KATHIRESAN</b>
		<b>7)K.SATHIYAKUMARAN</b>
		Name of Applicant : NA
		Address of Applicant : NA
		(72)Name of Inventor :
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		<b>2)S PAVITHRA</b> Address of Applicant :Assistant Professor Department Of Internet of Things. Sri Krishna College of Technology, Coimbatore-641042 Coimbatore -----
		<b>3)Dr.P.Vijayakumar</b> Address of Applicant :Assistant Professor Department of Aeronautical Engineering Nehru Institute of Technology Coimbatore - 641105 Coimbatore -----
		<b>4)R. VIJAY</b> Address of Applicant :Assistant Professor Department Of Mechanical Engineering, Arunmungan College Of Engineering, Thenmalai, Aravakurichi Taluk, Karur District-639206. Karur -----
		<b>5)A.ARAVINDHAN</b> Address of Applicant :Assistant Professor, Department Department Of Robotics And Automation Engineering, Dhirajlal Ghandhi College Of Technology , Salem. - 637503 Salem -----
		<b>6)K.KATHIRESAN</b> Address of Applicant :Lecturer, Department Of Mechanical Engineering, Mahendra Polytechnic College,(Namakkal,DT)- 637503. Namakkal -----
		<b>7)K.SATHIYAKUMARAN</b> Address of Applicant :Lecturer Department Of Automobile Engineering, K.S.R Polytechnic College . KSR Kalvi Nagar, Tiruchengode Namakkal-637215 Namakkal -----
(57) Abstract		
The advent of smart multi-control autonomous vehicles represents a revolutionary leap in transportation technology, promising to reshape urban mobility and road safety. This cutting-edge innovation combines advanced sensors, artificial intelligence, and multi-modal control systems to create vehicles capable of navigating complex environments without human intervention. Recent market projections underscore the rapid growth and potential of this sector. The global autonomous vehicles market is estimated to grow by USD 974.5 billion from 2024-2028, with a remarkable CAGR of 58.78%1. This explosive growth is driven by increasing demand for vehicle autonomy from OEMs and the development of autonomous vehicles for cab and parcel delivery services. The market for near-autonomous passenger cars is similarly poised for significant expansion, with an estimated growth of USD 962.1 billion from 2024-2028 and a CAGR of 60.29%65. This growth is fueled by the rising popularity of semi-autonomous vehicles and increased funding.		
No. of Pages : 8 No. of Claims : 4		

**Mr.A.Aravindhnan**, Assistant Professor, Department of Robotics and Automation, has been Patent under the titled “**Smart Multi-Control Autonomous Vehicle**” (Application No: 202441090849A), dated **22/11/2024**.

## Guest Lecture



**Mr. T. Jayachandran**, Head of the Department of Robotics and Automation, has been given the seminar under the title “**Robotic Processing Automation**” on **17<sup>th</sup> March 2025** for the Student of **Department of computer science and Engineering**.