



DEPARTMENT OF ROBOTICS AND AUTOMATION

-----Silent engine of Modern World

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**DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY
(AUTONOMOUS)**

Affiliation to Anna University, Chennai | NAAC Accredited
Opp : Salem airport, Kamalapuram, Sikkampatty, Omalur, Salem (Dt.) – 636 309

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Professor DHIRAJLAL A. GANDHI

Former Chairman - Dhirajlal Gandhi College of Technology,
Salem

Former Principal, Thiagarajar Polytechnic College, Salem
Former Secretary, Sona College of Technology, Salem
Former Managing Trustee, Gujarathi Samaj, Salem

Dhirajlal Gandhi College of Technology
Mukesh & Associates
Salem



Shri. Manojkumar Dhirajlal
Chairman



Smt. Archana Manojkumar
Secretary



Dr. A. Selvaraj
Principal – Dean R&D



Prof. T. Jayachandran
HoD / R&A

Editor Message

Greetings from the Department of Robotics and Automation!

It gives me immense pleasure to present this edition of our departmental newsletter, a reflection of the innovation, creativity, and relentless pursuit of excellence that define our students and faculty. As the world rapidly advances towards intelligent automation and smarter technologies, our department continues to stay at the forefront, nurturing future-ready engineers and fostering a culture of research, hands-on learning, and interdisciplinary collaboration.

This newsletter captures the highlights of our journey, from workshops and symposiums to industrial visits and student achievements. Each initiative is a testament to our commitment to bridging academic knowledge with real-world applications in the field of robotics and automation.

We extend our gratitude to all contributors, participants, and supporters who make these endeavours successful. Let this edition inspire us to continue pushing boundaries and building a future powered by innovation.

Warm regards,

Dr.E.ARUNKUMAR,

Assistant Professor,

Chief Editor, Department Newsletter,

Department of Robotics and Automation,

Dhirajlal Gandhi College of Technology,

Salem.

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About College:

Dhirajlal Gandhi College of Technology (DGCT) was established in the year 2011 with a mission of creating conducive learning environment, where the students can explore new frontiers and expand their horizons enriched with professional ethics, values and can enhance their knowledge to participate in the challenges of advanced engineering fields and can make them as a good professional.

The Institution has one of the best infrastructure facilities for an engineering college which facilitates the wholesome growth of students. DGCT boasts of 10.18 acres of lush green campus on Salem-Bangalore highway, near the Salem Airport providing the right ambience for students to pursue high level of technical education. The calm, serene and tranquil environment invigorates the mind and provide peaceful learning environment.

About Department:

Bachelor of Engineering (B.E.) in Robotics and Automation is a specialized undergraduate degree program started in the year 2023. This focuses on the design, development, and implementation of robotics systems and automated technologies. This field combines principles from various disciplines such as mechanical engineering, electrical engineering, Artificial intelligence, computer science and control systems to create intelligent and autonomous systems capable of performing tasks in diverse environments. Students in this program learn about robotics hardware and software, control systems, sensors and actuators, artificial intelligence, machine learning, and industrial automation. Graduates of this program can pursue careers in industries such as manufacturing, automotive, aerospace, healthcare, and more, designing and deploying robotic and automated solutions to solve complex problems. R&A department provides foreign language training and placement training from day one to enhance the skill sets of students.

Vision:

To develop technically proficient engineer in the field of Robotics and Automation engineering who can accept global need based challenges in changing technology and applications.

Mission:

- To impart good oriented, quality based and value added education in Robotics and Automation.
- To take continuous efforts to meet the technical challenges in the collaboration with industry.
- To establish centre of excellence in the area of Robotics and Automation where ideas, innovation and research will synergize.
- To create a environment for students to design and develop robots and automation processes for various applications like medical, agriculture, manufacturing, etc.,
- To motivate the students to enhance their knowledge in interdisciplinary research to cater to the local and global needs.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- 1 The program aims to develop a proficient engineer in Robotics and Automation field to serve the various technological needs of Industry and Society.
- 2 To develop the engineers to practice the multidisciplinary engineering knowledge in particularly in mechanical, electrical, electronic, control, manufacturing and software for Robotics and Automation systems development.
- 3 The program shall create engineers continuously to uplift the knowledge, skill, attitude, self-learning, teamwork, value of ethics and able to protect environmental eco-systems.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- (1) Multi-disciplinary Engineering in Robotics: Analyse the real world needs and design the robot and Automation solutions using the competency in multi domain engineering elements and integrated software tools
- (2) Enhancement and up gradation: Analyse conventional functions and process of various engineering elements and propose robots and automation solution for enhanced performance of conventional systems.
- (3) Robotic system integration and automated Solution and connectivity: Recommend the sensing, interfacing, controlling, actuating, communicating technologies and analysing the data through various subsystems and build the robots.

**DEPARTMENT OF ROBOTICS AND AUTOMATION
&
STUDENT ASSOCIATION *of* ROBITRON – 2K24**

Proposed Activity for Academic year 2025 – 26

S.No	Name of the Program
1	Association Inauguration (ROBITRON)
2	Symposium
3	Technical Event <ul style="list-style-type: none">• RC Plane• Robot Contests• Technical Seminar
4	Robot Project Expo
5	VAPs
6	Industrial Visit
7	International Robot Day Celebration
8	Inter Disciplinary Robotic Projects
9	Career guidance program
10	Designing a Robot for Loading / Unloading components in our CNC Turning Machine
11	Fabricating the Automation system for bottle filling application in Automation laboratory
12	Internship

**Chief Editor
Dr.E.Arunkumar**

**HoD
Prof.T.Jayachandran**

**Principal
Dr.A.Selvaraj**

Program organized
By
Robotics and Automation
Department

Demo Program

An **Equipment Demonstration Program** was organized for the course **MR3361 – Electrical Drives and Actuators Lab** on **14th August 2024** at the **Power Electronics & Drives Lab**, with the objective of providing students with **hands-on experience** in handling various electrical drives and actuators—key components in modern **industrial automation**



and control systems. The session was conducted by **Mr. R. A. Srikumar**, Senior Service Technician, **Prime Tech Instruments**, Chennai.

The program focused on demonstrating and explaining the **operation, functionality, and practical applications** of essential lab equipment. Students engaged with a wide range of devices, including **DC motors, AC motors, stepper motors, and various actuators**, along with their associated **drive circuits, controllers, and power electronic components.**



A total of **16 students** actively participated in the session, significantly enhancing their practical knowledge and technical competence.

The event was coordinated by **Dr. R. Manikandan**, Assistant Professor / EEE, and **Mr. E. Arunkumar**, Assistant Professor / R&A, under the guidance of **Dr. P. Selvakumar**, HoD / EEE, and **Prof. T. Jayachandran**, HoD / R&A.



An **Equipment Demonstration Program** was conducted for the course **MR3461 – Sensors and Instrumentation** on **14th August 2025** at the **Power Electronics & Drives Lab**. The objective of the program was to introduce students to

a wide range of **sensors and instrumentation devices** commonly used in modern

engineering systems. The session was led by **Mr. R. A. Srikumar**, Senior Service Technician from **Prime Tech Instruments**, Chennai.

The program provided students with **hands-on experience** in the tools and techniques used to measure, monitor, and control physical parameters such as temperature,



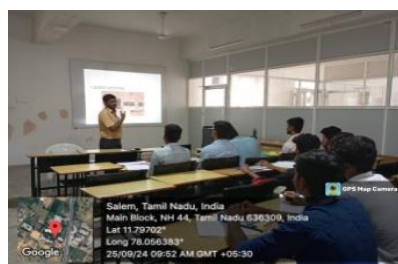
pressure, flow, and displacement. Participants interacted with various sensors, data acquisition systems, and **signal conditioning equipment**, gaining valuable practical insights into their **functionality and real-world applications**.

A total of **16 students** actively **participated**, enhancing their understanding and practical skills in the field of sensors and instrumentation.

The session was organized by **Dr.R.Manikandan**, Assistant Professor / EEE, and **Mr.E.Arunkumar**, Assistant Professor / R&A, under the guidance of **Dr. P. Selvakumar**, HoD / EEE, and **Prof. T. Jayachandran**, HoD / R&A.

Value Added Program

The **Department of Robotics and Automation** organized a **four-day value-added program** titled “**24VAP001 – Integrated Product Development using CAE**” from **23rd to 26th September 2024** at the **Robotics Conference Room, DGCT**. The program aimed to enhance students' understanding and skills in **Computer-Aided Engineering (CAE)**.





A total of **17 students actively participated** and gained valuable insights into integrated product development processes using advanced CAE tools and techniques.

The sessions were facilitated by **Dr. A. Selvaraj**, Principal & Dean of R&D, **Prof. T. Jayachandran**, HoD / R&A, and **Prof. E. Arunkumar**, Assistant Professor / R&A. In addition, **Prof. N. Pannerselvam**, Senior Assistant Professor / Mechanical, and **Prof. P.Raganathan**, Assistant Professor / Agriculture, were invited as **resource persons** to deliver technical sessions and share their expertise.

Student Association Inauguration



The inaugural ceremony of the department's first student association, **ROBITRON** (Robotics for Technical Revolution for the Next Generation), was held on **Wednesday, 9th October 2024**. The event witnessed the participation of nearly 25 students and 25 faculty members, including Heads of various departments.

Mr.K.Navaneetham, a second-year B.E. Robotics and Automation student and Chairman of the student association, warmly welcomed the guests and the gathering. **Prof.T.Jayachandran**, Head of the Department of Robotics and Automation, presented the annual report for the academic year 2023–24 and outlined the planned activities for 2024–25.

The unveiling of the association's logo and name board was carried out by the Chief Guests, **Smt.Archana Manoj Kumar**, Secretary, DGCT, and **Dr.A.Selvaraj**, Principal,

DGCT.

The vote of thanks was delivered by **Ms.R.Bhavadharani**, a second-year B.E. Robotics and Automation student and the Student Secretary. The entire event was coordinated and organized by **Mr.E.Arunkumar**, Assistant Professor, R&A.

The **Welcome Robot Project** was developed by **Mr. Sudharasan** and his team from the **second year B.E. Robotics and Automation**, under the guidance of **Prof.T.Jayachandran**, HoD / R&A, and **Mr. E. Arunkumar**, Assistant Professor, R&A.

As a part of the **ROBITRON Student Association**, the robot greeted the **Chief Guest, Principal, Dean of Student Affairs, and other faculty members** with a welcome message: *“Hi, welcome to the ROBITRON Student Association inaugural function of the Department of Robotics and Automation at Dhirajlal Gandhi College of Technology, Salem.”*

The Chief Guest, Principal, and faculty members were **greatly impressed and delighted** by the robot’s warm and innovative welcome.



Robot Competition

The **Department of Robotics & Automation**, in collaboration with the **Institution’s Innovation Council (IIC)**, organized a two-day outreach program titled **“I – Robochakra”** for school students on **6th and 7th November 2024** at the Auditorium, DGCT Campus.





RoboChakra is a forward-thinking event designed to bring together technology enthusiasts, budding engineers, and young learners to explore the exciting world of robotics, automation, and artificial intelligence (AI). The program served as a dynamic platform for showcasing cutting-edge robotic technologies, fostering a spirit of innovation, and encouraging insightful discussions on the future of AI-driven automation across various industries.

Nearly 200 students enthusiastically participated, engaging in knowledge-sharing sessions and gaining exposure to emerging technologies.

The program was successfully coordinated by **Prof.A.Aravindhnan**, Assistant Professor / R&A, under the guidance of **Prof.T.Jayachandran**, Head of the Department, Robotics & Automation.

Idea Showcase Program

The Department of Robotics & Automation in collaboration with the Institution's Innovation Council (IIC) organized a workshop titled “**Idea Showcase – Visionary Forum 2024**” on **30th November 2024** at the Auditorium, DGCT Campus.

The event saw the enthusiastic participation of **around 65 students**. Visionary Forum 2024 was a vibrant and inspiring platform designed to celebrate creativity, innovation, and the limitless potential of young minds. This annual showcase offered students the opportunity to present their innovative projects, share forward-thinking ideas, and engage with peers, faculty, and industry professionals. The event stood as a testament to the power of imagination and determination, highlighting how student-led initiatives are shaping positive change through breakthrough innovations.



he program was successfully coordinated by Dr.E.Arunkumar, Assistant Professor / R&A and IIC Coordinator, and Dr.M.Archana, Assistant Professor / Civiland IIC Coordinator, under the guidance of **Prof.T.Jayachandran**, Head of the Department, Robotics & Automation.

Seminar

The **ROBITRON – Student Association** organized a workshop titled “**Enhancing Arduino Programming Skills**” for second-year students on **25th January 2025** at the



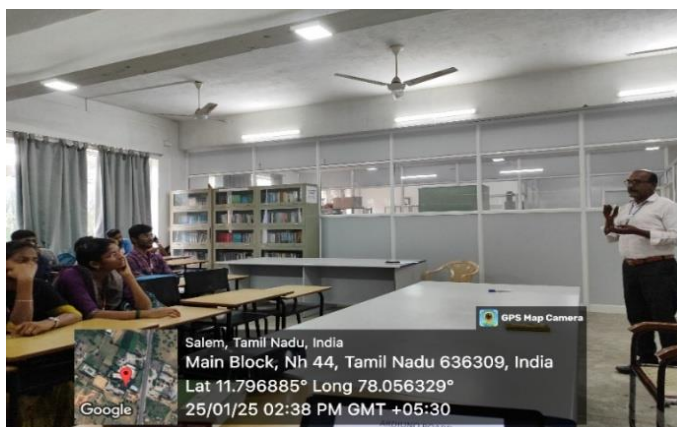
Robotics Conference Hall, DGCT Campus. The session was conducted by **Prof. M. Balasubraman** and **Prof. V. Aparna**, Assistant Professors from the **Department of Electronics and Communication Engineering.**

A total of **29 students** participated in the workshop. The program was designed to offer a **comprehensive understanding of**

Arduino microcontrollers and their practical applications. It covered a range of topics—from fundamental to advanced concepts in **Arduino programming, sensor and actuator interfacing**, and **real-world project development**.

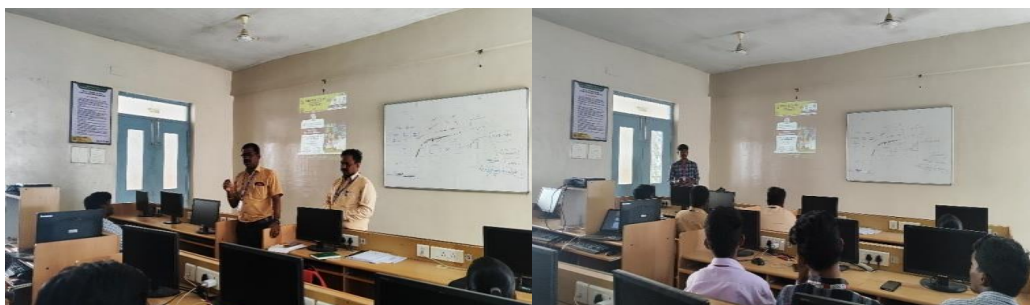
Through a combination of **hands-on workshops, practical demonstrations**, and **guided exercises**, students enhanced their programming skills, improved their understanding of circuit design, and gained valuable experience in working with embedded systems.

The event was organized by Dr. E. Arunkumar, Assistant Professor / R&A and Student Association Coordinator, under the guidance of Prof. T. Jayachandran, Head of the Department, Robotics & Automation.



The ROBITRON – Student Association organized a seminar titled “**Ideation on Exoskeletons in Robotics**” for second-year students on **1st February 2025** at the **CAD Lab, DGCT Campus**.

A total of 17 students actively participated and presented their ideas during the session. The seminar aimed to delve into the innovative design, applications, and future potential of robotic exoskeletons—wearable systems that enhance human abilities by offering support and strength augmentation. These devices are particularly beneficial for individuals with mobility challenges and are increasingly used to boost physical performance across diverse domains



The discussion emphasized recent advancements in the integration of **soft actuators, sensors, and intelligent control systems**, which have significantly improved the **efficiency and natural motion** of exoskeletons. These innovations are expanding their use in **medical**

rehabilitation, industrial support, and beyond.

The program was coordinated by **Dr. E. Arunkumar**, Assistant Professor / R&A and Student Association Coordinator, under the guidance of **Prof. T. Jayachandran**, Head of the Department, Robotics & Automation.

Symposium

The **Department of Robotics & Automation** and the **Department of Mechanical Engineering** successfully hosted a **one-day National Level Technical Symposium, SPARTANZ 2K25 & TITANZ 2K25**, on **29th March 2025** at the **DGCT campus**. The event was **entirely student-driven**, reflecting exceptional levels of planning, coordination, and execution.



The symposium commenced with an overview of the day's events and workshops presented by **Dr.E.Arunkumar**, Assistant Professor – Robotics & Automation.

Dr. V. Vinoth, Head of the Department – Mechanical Engineering, and **Prof.T.Jayachandran**, Head of the Department – Robotics & Automation, also addressed the gathering and welcomed the participants.

One day workshop were conducted on the title “**Computer Aided Engineering (CAE)**”. The session was handle by **Prof.T.Jayachandran**, **HoD / R&A** and

Prof.N.Pannerselvam, SAP/Mech.



More than **54 students from various institutions** registered through both **online and on-site** modes to participate in a diverse range of **technical and creative events**. The The symposium received **highly positive feedback** from participants, who described it as both **informative and enjoyable**.

The event concluded with a **vote of thanks** delivered by **Mr. K. Naveentham**, a second-year Robotics & Automation student and Chairman of the **ROBITRON Student Association**.

Workshop

The **Robotics & Automation Department's Student Association – ROBITRON** organized a **one-day workshop** titled **“Drone Aviation and Piloting”** on **4th April 2025 (Friday)** at the **Auditorium, DGCT**. Nearly **209 students** and **10 faculty members** actively participated, gaining valuable knowledge in the field of drones.

The program was led by **Mr. Kanishka Johnson** and **Mr. S. R. K. Praneeth Veera**, Trainers in Drone R&D at Hypstuma, Chennai.



This exciting and interactive workshop provided enthusiasts, students, and professionals with a comprehensive introduction to drone technology, aviation principles, and piloting skills through hands-on learning experiences.

The event was organized by **Dr. E. Arunkumar**, Assistant Professor / R&A, under the guidance of **Prof. T. Jayachandran**, Head of Department / R&A.

Student Industrial Visit

The **Department of Robotics & Automation**, in collaboration with the **Institution's Innovation Council (IIC)**, organized an “**AICTE IDEA LAB**” Visit for the First Year Student on **03rd May 2025** at the **Knowledge Institute of Technology, Salem**.



The Visit was successfully coordinated by **Dr.E.Arunkumar**, Assistant Professor / R&A and **IIC Department Coordinator**, and **Dr.M.Archana**, Assistant Professor / Civil and **IIC Coordinator**.

Workshop

The **Department of Robotics & Automation**, in collaboration with the **Institution's Innovation Council (IIC)**, organized a workshop titled **“Protecting Intellectual Property Rights (IPRs) and IP Management for Startups”** on **19th May 2025** at the **A/C Seminar Hall, DGCT campus**.



The session was conducted by **Dr. Balaji Devarajan**, Head of the **Centre for IPR**, KPR Institute of Engineering & Technology, Coimbatore.

This program was designed to educate and empower startup founders, entrepreneurs, and innovators with essential knowledge and practical strategies to protect their intellectual property. In today's competitive innovation landscape, understanding IPRs is crucial for securing a startup's competitive edge, attracting investors, and enhancing business valuation. Participants were guided through the entire IP lifecycle—from ideation to commercialization—while gaining valuable insights into effective IP portfolio management, legal compliance, and global protection strategies.

The workshop was organized by **Dr. E. Arunkumar**, Assistant Professor / R&A and Department IIC Coordinator, and **Dr. M. Archana**, Assistant Professor / Civil, under the guidance of **Prof. T. Jayachandran**, Head of Department / R&A.

Faculty Achievement

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.

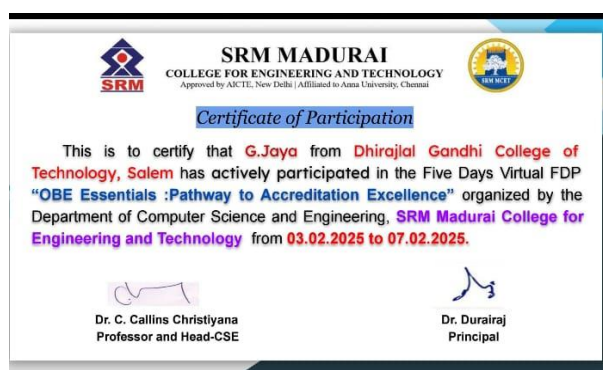


Our Robotics and Automation department Prof.A.Aravindhnan, AP/R&A were attended the Indian Institute of Industrial and Social Research (iiisr)-Faculty Development Program under the title of “Leveraging AI in Academic Writing and Research” from 13th January 2025 to 17th January 2025.





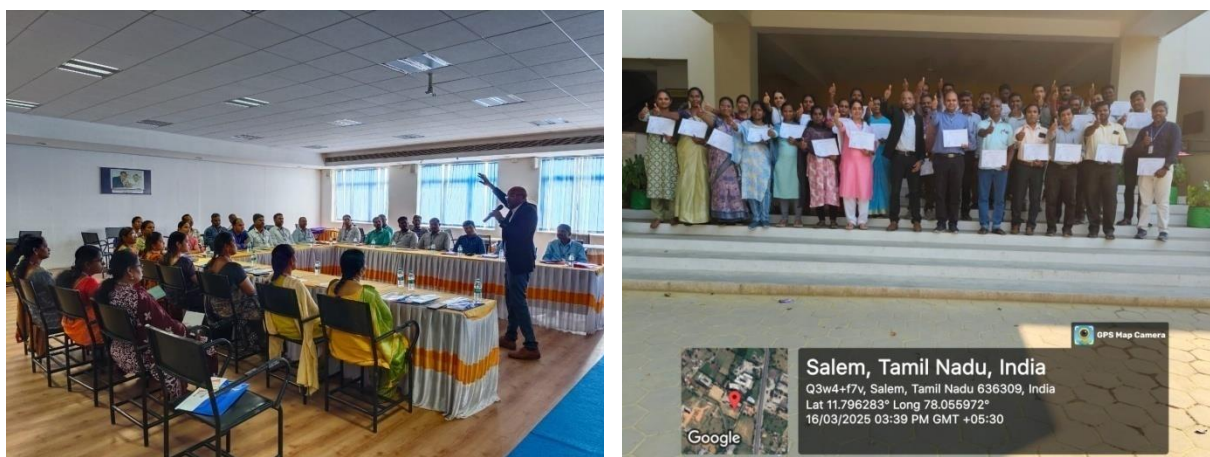
Dr.E.Arunkumar, Assistant Professor in the Department of Robotics and Automation, participated under the titled “**Masterclass Series under IP Utsav**” organized virtually by the **All India Council for Technical Education(AICTE)** and **Ministry of Education’s innovation cell (MIC)** From **21st April to 26th 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 **03rd February to 07th February 2025**.



Our Robotics and Automation department faculty **Prof.A.Aravindhnan, AP/R&A** were attended the **One day Faculty Development Program** organized by **Confederation of Indian Industry (CII)** at **Annapoorana Engineering College, Salem** on **19th 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 **09th March 2025**. The session was led by **Dr.T.Ram Prabhu**, Joint Director / Scientist DRDO, Bangalore. The program was organized by DGCT.

NPTEL



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)

Skill India
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Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur


Indian Institute of Technology Kharagpur



Roll No: NPTEL25CS44S456101349

To verify the certificate



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



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 17th –18th October, 2024..



Mr. A. Aravindhan, Assistant Professor in the Department of Robotics and Automation, participated and presented a paper titled “**Performance Analysis Enhanced 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 **17th –18th October, 2024**.



Our Robotics and Automation department **faculty members Prof.T.Jayachandran**, HoD and **Dr.E.Arunkumar**, Assistant Professor had attended the “**International IT & Tech Conference and Start-UP Expo**” organized by **Confederation of Indian Industry (CII)** on **31st January 2025**.

बौद्धिक संपदा कार्यालय, भारत सरकार, Intellectual Property Office, Government of India. (बौद्धिक सम्पत्ति कार्यालय, डाउन्ट चक्का, बौद्धिक संपदा दफ्तर, भारत सरकार, बौद्धिक सम्पन्न कार्यालय, डाउन्ट चक्का, इण्डिया) (बौद्धिक संपत्ती कार्यालय, भारत सरकार, बीडिआरपीओ, भारतसरकार, ബൗദ്ധിക സമ്പത്തു കാര്യാലയം, ഭാരത സർക്കാർ, ബौद्धिक संपदा कार्यालय, भारत सरकार, Интеллектуальная собственность, индия)

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PATENTS DESIGNS TRADE MARKS
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पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र Certificate of Registration of Design

डिजाइन सं. / Design No. 420065-001

तारीख / Date 14/06/2024

पारस्परिकता तारीख / Reciprocity Date:

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **TIP OVER INJURY PREVENTION DEVICE FOR MOTORCYCLES** से संबंधित है, का पंजीकरण, श्रेणी 12-16 में 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.Aswanah 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.Aswanah Kumar 8.Mr.V.Hari Prasath 9.Mr.S.Karan 10.Mr.C.Sanjay.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अंतर्धान प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि : 02/08/2024
Date of Issue

मानाधिकृत पेटेंट, डिजाइन और व्यापार विह्वल
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DEPARTMENT OF ROBOTICS AND AUTOMATION

Mr.A.Aravindhan, 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 **17th March 2025** for the Student of **Department of computer science and Engineering**.

Social Awareness



Mr. T. Jayachandran, Head of the Department of Robotics and Automation, has been participate in the blood camp which is organized by YRC – DGCT and donate the blood, on dated **18th September 2025**.

Faculty Industrial Visit









Dr.E.Arunkumar, Assistant Professor, Department of Robotics and Automation, visited the industry “**BRAKES INDIA Pvt. Ltd.**” and “**WHEELS INDIA LTD.**”on **23rd May 2025 (Friday)**. For enhancing educators' practical understanding of industrial processes, technologies, and best practices in the automotive components manufacturing sector. The industrial visit was organized by **Confederation of Indian Industry (CII) – Southern Region, Chennai**.



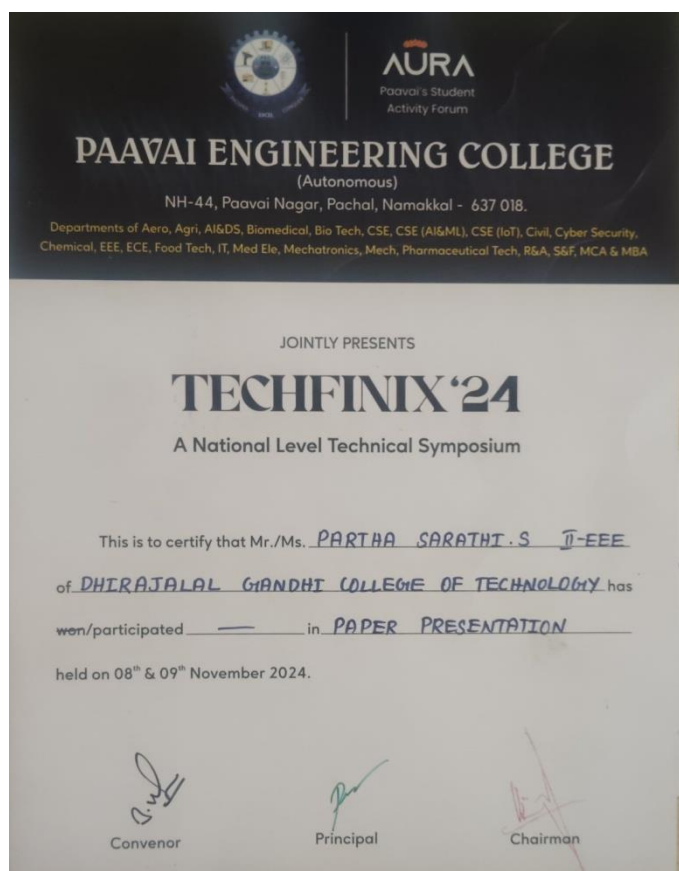
Student Achievement

ACADEMIC EXCELLENCE

Year of Study	Name of the student	Photo of the student	Award place
II	BHAVADHARANI R		First CGPA-8.49
I	KRISHMA G		First CGPA-73%
II	PARTHASARATHI S		Second CGPA-8.25
I	DHARANI K		Second CGPA-71%
II	VIGNESH S		Third CGPA-8.21
I	LISHANTH I		Third CGPA-68%

Workshop / Conference / Paper Presentation

Our Robotics and Automation department **II Year Student Mr.S.Parthasarathi**, has participated in workshop under the title “**QUANTUM COMPUTING**” PORT 2025– National level Technical Symposium at **Sona College of Technology** on **27th February 2025**.



Our Robotics and Automation department **II Year Student Mr.S.Parthasarathi**, has participated and Presented the paper in the “**National level Technical Symposium**” at **Paavi Engineering College** on **08th & 09th November 2024**.



Our Robotics and Automation department **II Year Student Mr.S.Parthasarathi**, has participated in the “**Viksit Bharat by 2047**” – Ideas for the vision by our Indian Government.



Our Robotics and Automation department **II Year Student Mr.S.Parthasarathi**, has participated in the “**Engineers Day Contest 2024**” at “**IMAGECON Academy**” on **15th September 2024**.



Our Robotics and Automation department **I Year Student Ms.K.Dharani**, has participated and presented the paper in “**TECHNOVIBEZ-25**” at “**Muthayammal College of Engineering**” on **11th March 2025**.



Our Robotics and Automation department I Year Student **Mr.I.Lishanth**, has participated the Quiz in “**TECHNOVIBEZ-25**” at “**Muthayammal College of Engineering**” on **11th March 2025**.




Our Robotics and Automation department I Year Student **Mr.G.Naveen**, has participated the Quiz and Debugging in “**TECHNOVIBEZ-25**” at “**Muthayammal College of Engineering**” on **11th March 2025**.



Our Robotics and Automation department I Year Student **Ms.G.Krishma**, has participated the Paper Presentation and Quiz in “**TECHNOVIBEZ-25**” at “**Muthayammal College of Engineering**” on **11th March 2025**.



Our Robotics and Automation department II Year students were attended the Online Workshop on “Proteus Vitruval System Modeling (VSM) Software”. The program organized by, **Department of Electrical and Electronics Engineering, DGCT, Salem.**



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TNEA 2345

The Head of Department, Staff and Students of
Department of Mechanical Engineering & Department of Robotics & Automation

Jointly Organizing

Guest Lecture on

YOUR JOURNEY INTO XR

15th
March 2025
Auditorium


Time
2:45 PM

in the presence of


Smt. Archana Manojkumar Secretary DGCT	Dr. A. Selvaraj Principal DGCT
Dr. V. Vinoth HoD Mech	Mr. T. Jayachandran HoD R&A
<p>Coordinator</p> <p>Mr. N. Pannerseelvam SAP Mech</p>	

Salem

Resource Person



Mr. Gowtham Ram K
Alumni - 2020 Batch
Co-Founder, HOLOTIE
Equinox Tech Solutions
Bangalore.







Salem

www.dgct.ac.in



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Our Robotics and Automation department II Year students were attended the Guest Lecture Under the title “**Your Journey into XR**”. The program organized by, **Department of Mechanical Engineering, on 15th March 2025, at DGCT, Salem.**

CO-CURRICULAR ACTIVITIES ACHIEVERS

Year of Study	Name of the student	Photo of the student	Achievements
II-Boy	NAVANEETHAM K		He participated in 3 national level Technical symposiums, 1 value added programme and one workshop
II-Girl	RUPA K		She actively participated in 3 national level Technical symposiums
I-Boy	NAVEEN G		He presented a paper in the national level Technical symposium and also project idea during IDEATION WEEK 2025.
I-Girl	KRISHMA G		She presented a paper in the national level Technical symposium and also project idea during IDEATION WEEK 2025.



EXTRA-CURRICULAR ACTIVITIES ACHIEVERS

Year of Study	Name of the student	Photo of the student	Achievements
II-Boy	VIGNESHWAR AS		He actively participated in the event of basket ball and he is role played as a volunteer in the national level roboscience champions.
II-Girl	RAJESWARI M		Represented in various Women's Team for DGCT
I-Boy	MUGUNDHAN M		He role played as a volunteer in the national level roboscience champions
I-Girl	RATHINA K		She won tamilnadu chief minister's trophy in the event KHO-KHO

Students Co-Curricular ACTIVITIES

S.NO	NAME OF THE STUDENT	YEAR	NAME OF THE EVENT/ACTIVITY	TITLE OF THE EVENT	ORGANIZATION NAME	DATE OF THE EVENT	NO OF DAYS ATTENDED	PRIZE WINNERS (I/II/ PARTICIPATION)
1	S.Mohamed Asif	II	A National level Technical Symposium	Paper Presentation	Paavai Engineering college	8.11.2024 9.11.2024	2	PARTICIPATION
2	S.Mohamed Asif	II	Port 2025 National level Technical Symposium	Quantum Computing	Sona college of Technolgy	27.02.2025	1	PARTICIPATION
3	R.Bavadharani	II	Port 2025 National level Technical Symposium	Black Chain	Sona college of Technolgy	27.02.2025	1	PARTICIPATION
4	M.Rajeshwari	II	Port 2025 National level Technical Symposium	Quantum Computing	Sona college of Technolgy	27.02.2025	1	PARTICIPATION
5	K.Rupa	II	Port 2025 National level Technical Symposium	Quantum Computing	Sona college of Technolgy	27.02.2025	1	PARTICIPATION
6	R.Sreehari	II	Port 2025 National level Technical Symposium	Quantum Computing	Sona college of Technolgy	27.02.2025	1	PARTICIPATION
7	S.Parthasarathi	II	Port 2025 National level Technical Symposium	Quantum Computing	Sona college of Technolgy	27.02.2025	1	PARTICIPATION
8	K.Navaneetham	II	Port 2025 National level Technical Symposium	Quantum Computing	Sona college of Technolgy	27.02.2025	1	PARTICIPATION
9	A.Srivatsan	I	Port 2025 National level Technical Symposium	Quiz & Debugging	Muthayammal college of Engineering	11.03.2025	1	PARTICIPATION

Students SPECIAL AWARD

Year of study	Name of the student	Photo of the student	Achievements
II	SUDHARSAN S		Sudharsan and Sreehari are invented a welcome robot and self balance robot by work togethered.
	SREEHARI R		
II	NAVEEN PRATHAP S & MOHAMED ASIF S		Naveen prathap and Mohamed Asif are successfully invented the ornithopter robot
			
II & I	KARTHICK G & SRIVATSAN A		Karthick and Srivatsan have invented a line follower robot
			
II	HARIHARAN R ARJUN S & SABARITH K		An obstacle detector robot was invented by Hariharan, Arjun and Sabarith
			
			

Social Connection / Awareness



Our Robotics and Automation department **II Year** Student **Mr.S.Parthasarathi**, contribute as a **volunteer** at “**SARVAVIDHYA FEST 2024**” – National level Roboscience Championship at **Dhirajlal Gandhi College of Technology** on **7th November 2024**.

Membership



Our Robotics and Automation department **II Year** Student **Mr.S.Parthasarathi**, is an active member in “**Global Society for Technical Education**”.

Cultural Program



Our Robotics and Automation department Students Participate in the **dance event** in the **Cultural Day** at **Dhirajlal Gandhi College of Technology, Salem**.

SPORTS

Our Robotics and Automation department, Ist - Year Students **Ms.G.Krishma** Participate in the “ANNA UNIVERSITY ZONAL LEVEL – CHESS (Women)” at **Government Engineering College, Bargur on 21-09-2024 & 22-09-2024.**



Our Robotics and Automation department, IInd - Year Students **Mr.G.Karthick** Participate in the “ANNA UNIVERSITY ZONAL LEVEL – CIRCKET (Men)” at **Adhiyamaan College of Engineering, Hosur on 03-10-2024 & 05-10-2024.**



Our Robotics and Automation department, IInd - Year Students **Mr.M.Rajkumar** Participate in the “ANNA UNIVERSITY ZONAL LEVEL – HAND BALL (Men)” at **Adhiyamaan College of Engineering, Hosur on 18.10.2024 & 19.10.2024.**



Our Robotics and Automation department, IInd - Year Students **Mr.R.Vignesh** Participate in the “ANNA UNIVERSITY ZONAL LEVEL – Athletics (Men)” at Adhiyamaan College of Engineering, Hosur on 25.10.2024 & 26.10.2024.



Our Robotics and Automation department, Ist - Year Students **Mr.Mugunthan** Participate in the “FOOTBALL ALUMNI MEET” at Kongunadu College of Engineering, Thottium on 14.03.2025.



Our Robotics and Automation department, IInd - Year Students **Mr.S.Vignesh** Participate and winner in the “State Level Kho-Kho” Organized by **YOUTH & SPORTS PROMOTION ASSOCIATION OF TAMILNADU** at KSR, THIRUCHENGODE on 27.04.2025

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