

DEPARTMENT OF ELECTRONICS, TIST

BTech Electronics and Communication Engineering

BTech Robotics and Automation

IMPACT - Innovative Methods, Projects and

Community Technologies Lab



ODD SEMESTER 2024-25

Patent Granted

An Indian patent was granted to students and faculty of the Department of Robotics and Automation. The patent was granted for the term of 20 years from the 26th of September 2023 in accordance with the provisions of the Patents Act, 1970.

Title of the Invention: A System for a Solar-Powered Charging Station to Increase the Flight Distance Capabilities of Drones

Patent No. 553677, Application No. 202341064618, Date of Grant: 30.10.2024

Patentees: Anfil Shajo, Dr. Georgina Binoy Joseph, Justin Joe, Alwin Jojo, Amal Prakash and Asst. Prof. Hashfi K. H. – Department of Robotics and Automation

UAVs such as drones can be used to deliver medicines and other essential materials between waypoints. If the distance between waypoints is very large, the drone has to be recharged at charging stations enroute to enable it to cover longer distances. The solar powered charging station is designed to be located by the drone at metre level accuracy.



Congratulations! ***"Indian Patent Granted"***

"A System for a Solar-Powered Charging Station to Increase the Flight Distance Capabilities of Drones"



DEPARTMENT OF ROBOTICS AND AUTOMATION

Prize Winners of 2024 Project Expo hosted by IEEE MACE SB

A team comprising Sivadath, Sai Krishna. Basil George, Alwin Babu Aaron Benny from S5 B Tech ECE Electronics and Communication Engineering won the second prize for their project Smart City using IoT in hack (); 2024 Project Expo hosted by IEEE MACE SB on Aug 30,2024. Their project focused on leveraging Internet of Things (IoT) technology to enhance urban infrastructure and improve city management. **The project was an outcome of the Embedded IoT Project Based Learning PBL program conducted by the Skill Planning and Acquisition Cell SPAN of DoE, TIST.**



Prize Winners at NASA International Space Apps Challenge

A team comprising of 6 students from S1 Electronics and Communication Engineering did us proud by getting selected as Global Nominees at the NASA International Space Apps Challenge. We wish Muhammed Akthus C N, Sreehari Nandhanan, Sreelakshmi P G, Alna Binu, Pooja Shaji, Arjun P B all the best for their future endeavours.

Congratulations

for being selected as "Global Nominees" at NASA International Space Apps Challenge !!



**DEPARTMENT OF
ELECTRONICS AND COMMUNICATION**

YIP 5.0 District Level Winners

A team of 5 students from S7 Robotics and Automation - Abel Eugene D Silva, Adarsh K S, Levin Jeejan, John Lukose Cochetu and John Agnel Pinhero were declared as District Level Prize winners in YIP 5.0 organised by KDISC.



Student Projects – Achievements

International Project Collaboration

Congratulations to the final-year students Alikha Balan, Grigari T Jose, Siddarth R and Jeevan Raju S7 Robotics and Automation on their impressive collaboration with Telekinesis at TU Darmstadt, Germany, for their project under the supervision of Dr. Georgina Binoy Joseph. This international collaboration is a remarkable achievement.

The CEO of Telekinesis, Germany highlighted the outstanding contributions of final-year Robotics and Automation students Alikha Balan, Grigari T, Jeevan Raju and Siddarth R during a meeting with the **Consulate General of India**. This innovative work is a part of an Indo-German collaboration initiative.



Figure 10: MaskR-CNN results on the COCO test set. These results are based on ResNet-101, achieving a mask AP of 24.48, running at 9.75 fps. And having an inference time of 0.48 sec.

Student Project - Funding

- The final year student project proposal, "Bot-Arm" from S7 B Tech Electronics and Communication Engineering has been shortlisted at the college level for submission for funding under the APJ KTU CERD Student Project funding scheme 2024-25. Student Investigators: Fiya Ann Mary, Gopika Gopakumar, Safhana K.M, Nazrin K.N, Principal Investigator: Asst. Prof. Anu Jose, Co-Investigator: Asst. Prof Renjith.P.K
- The final year student project proposal, "ROS Enabled Agriculture Robot with ML and Custom User Interface" from S7 B Tech Robotics and Automation has been shortlisted at the college

level for submission for funding under the APJ KTU CERD Student Project funding scheme for the 2024-25 year. Student Investigators: Alikha Balan, Grigary T. Jose, Jeevan Raju, Sidharth R. Principal Investigator: Dr. Georgina Binoy Joseph, Co-Investigator: Asst. Prof. Nezla N.A

Student Start-up at the International Robotics Round Table Conference

Rizwan M. Shiras and Chackochan Benny of final year B Tech Robotics and Automation (2020-2024 Batch) represented their Start-Up named “Hyasta Innovations” at the first ever International Robotics Round Table Conference on August 23, 2024 at the Lulu Grand Hyatt Bolgatty International Convention Centre.



Participation in various Robotic Competitions

- Congratulations to S7 B Tech Robotics and Automation students Abel Eugene D'silva, John Lukose Cochetti and Levin Jeejan on qualifying for the second level of the **EDGE AI Innovation Challenge 2024** under the guidance of their mentor Dr. Georgina Binoy Joseph.
- Five Teams (Four teams of S7 Robotics and Automation and one team from S3 Robotics and Automation) has participated in the **IEEE RAS Build your Bot challenge** under the mentorship of Dr. Georgina Binoy Joseph. They successfully built a humanoid robot from the scratch in collaboration with students from GEC, Thrissur. They were ably mentored by Ms. Athira of TCS and IEEE RAS.

- Selection at College Level for **Smart India Hackathon 2024 (SIH 2024)**
 - Team DELTA: Mohammed Mishaal, Avinash B, Athul Krishna K R, Salman K S, Ashmi A N, Juhana Najeeb (S7 ECE), Faculty Mentors: Dr. Perumal Sankar S and Asst. Prof Sajitha K.S
 - Team HACKATEERS: Nazrin K N, Fiya Ann Mary, Gopika Gopakumar, Safhana.K.M (S7 ECE), Faculty Mentors: Asst. Prof Anu Jose and Asst. Prof Renjith P K
 - Team AI ARCHITECT: Nithin P B, Vaishnavi Balasubramanian, Aiswarya James, Maria Abraham (S7 ECE), Faculty Mentor: Dr. Deepa Elizabeth George
 - Team HACK n SAW: Basil George, Sivadath V.S, Saikrishna V (S5 ECE), Faculty Mentors: Dr. Sreelekshmi S and Asst. Prof Dhanya.R
 - Team RADAR X: Noby, Leela Bobby, Ann Mary George, Cyrus Babu Philp, John Savio Romy (S3 ECE), Faculty Mentors: Dr. Perumal Sankar S and Asst. Prof Annie Paul
 - Team UNIVEX: Basil T Abraham, Neeraj P Raju, Anandapadmanabhan H, Aswajith Raj A B, Sunaina Sanjeev, Ancy P Jacob (S3 Robotics and Automation), Faculty Mentors: Asst. Prof. Swathy Satheesh, Asst. Prof. Dhanya R
 - Team ECOGLIDER: N S Parvathy, Fathima Fidha P, Glenn George K R, Levin Jeejan, Muhammed Yazeen C Y, S Sidharth (S7 Robotics and Automation), Faculty Mentors: Asst. Prof Girish P, Asst. Prof Akhil Krishnan

Multi-institutional Collaboration

- The Department of Electronics & Communication Engineering has partnered with ACARR CUSAT, Indian Institute of Space Science and Technology (IIST) Thiruvananthapuram and Environmental Resources Research Centre (ERRC) Thiruvananthapuram on a ground-breaking project entitled "Creating an Automated Warning System for Landslides in the Landslide Susceptible Zones of the Meenachil River Basin in Kerala." The project is funded by New Space India Limited (NSIL) ISRO. Department ECE will be focussing on specific objectives including: Sensor development for determining soil moisture integrated with the Instrument derived data and providing an Early Warning Alert for Landslides



- The Department of Robotics and Automation has collaborated with ACARR CUSAT, the Indian Institute of Space Science and Technology (IIST) in Thiruvananthapuram and the Environmental Resources Research Centre (ERRC) in Thiruvananthapuram on an innovative project titled "Creating an Automated Warning System for Landslides in the Landslide Susceptible Zones of the Meenachil River Basin in Kerala." This initiative is funded by New Space India Limited (NSIL) under ISRO. The Department of Robotics and Automation will focus on several key objectives, including: Logging accelerometer data to create a local backup and upload it to a data server via WiFi or LoRaWAN, Evaluating the accelerometer data at various soil depths to determine its suitability, Data fusion with data from other sensors including GNSS.



Social Outreach Program

Student Participation in BalaSangam at District Level

- On September 28 and 29, 2024, students from Department of Electronics & Communication Engineering, participated in the BalaSangam District Level Meet held at Koothathukulam, Ernakulam. First-year student Emil Kurian Eldhose, along with a team of senior students from the seventh semester—Fiya Mary, Nazrin KN, Safhana KM, and Gopika Gopakumar—showcased their innovative products. Students Sivadath S, Sai Krishna V, and Basil George from the fifth semester also presented their creative projects. Their participation not only highlighted their technical skills but also reflected the college's commitment to fostering innovation and collaboration among students.



- Students from the Department of Robotics and Automation also participated in the BalaSangam District Level Meet held at Koothathukulam, Ernakulam. Seventh Semester students—Alwin Shibu, Levin Jeejan, John Lukose Cochetto, John Agnel Pinherio, and Abel Eugene D'Silva—showcased their innovative work – a Lunar Rover. The aim was to ignite confidence and curiosity in the young visitors to the meet.



Project Expo Conducted by IMPaCT Lab during NAAC Peer Team Visit

A Project Expo was conducted by IMPaCT Lab during NAAC Peer Team Visit on 11, 12 September 2024 showcasing the innovative and technical skills of the students of the Department of Electronics and Communication Engineering and the Department of Robotics and Automation. Projects in areas such as Robotics, Artificial Intelligence (AI), Internet of Things (IoT), RF Antenna Design and Image Processing were showcased.



Proposal Submitted to the Department of Science and Technology (DST): "Urban Climate Research and Extreme Events"

The proposed project aims to develop an integrated dashboard and mobile application for "Climate Information Services for Urban Cochin," designed to support risk-informed early action. The initiative

is a collaborative effort involving Department of Robotics and Automation TIST, ACARR CUSAT, Kerala University of Fisheries and Ocean Studies (KUFOS), Kerala Institute of Local Administration (KILA), and NIT Calicut. Co-Principal Investigators for this project are Dr. Deepa Elizabeth George and Dr. Georgina Binoy Joseph, who will lead the team in addressing urban climate challenges and enhancing community resilience through effective information dissemination.

EVEN SEMESTER 2024-25

TIST AUTOBOTS Triumph in IIT PALS Innowah

TIST-AUTOBOTS - Sai Krishna V, Basil George, Alwin Babu, Aaron Bejy Mathew, and Sivadath V S (S6 Electronics and Communication Engineering), achieved a significant milestone by winning the First Prize in the 'Good Governance' category at the PALS InnoWAH! Innovation Competition 2024-25, held at IIT Madras on March 22, 2025. Competing against 68 teams from 41 institutes nationwide, they were recognized for their project, "Eco Sentinel - AI-driven system for wildlife detection and humane deterrence." The team was mentored by Dr Sreelekshmi S (Asst Prof ECE) with guidance from Dr Deepa Elizabeth George (HoD, ECE)



Grant Awarded for Real-Time Soil Moisture Monitoring System by ACARR, CUSAT

A grant of Rs 25,000 has been awarded for the project "Real-Time Soil Moisture Monitoring System," which is part of a broader initiative titled "Creating an Automated Warning System for Landslides in the Landslide-Prone Zones of the Meenachil River Basin, Kerala." The project team members are Sivadath V S, Saikrishna V, Basil George, and Alwin Babu from S6 Electronics and Communication Engineering. The research is led by Dr S. Perumal Sankar (Department of ECE) as the Principal Investigator, with Dr Deepa Elizabeth George (HOD, Department of ECE) and Asst Prof Dhanya R (Department of ECE) as Co-Investigators.



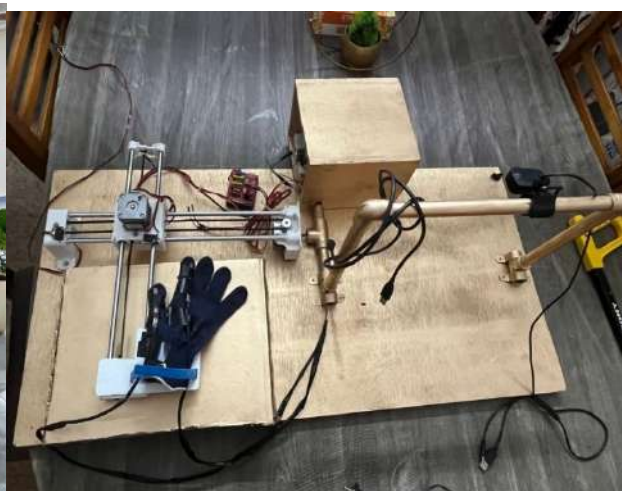
Grant Awarded for Landslide Prediction Project by ACARR, CUSAT

The Advanced Centre for Atmospheric Radar Research (ACARR) has granted Rs 1,15,500 in funding for the project "Integration of MEMS Accelerometer and GNSS for Landslide Prediction." This initiative is part of a network project approved by NewSpace India Limited (NSIL), ISRO. The student team includes Sreyas Ajayyan and Ashin Sebastian of S6 Robotics and Automation. The project is led by Dr Georgina Binoy Joseph (Dean UG & Associate Professor, Department of Robotics and Automation) as the Principal Investigator, with Dr. Deepa Elizabeth George (HOD, Department of Robotics and Automation) and Asst Prof Dhanya R (Department of ECE) as Co-Investigators.



Financial Assistance for Student Project under KTU CERD Funding Scheme

1. KTU, through its Centre for Engineering Research and Development (CERD), has sanctioned funding under the CERD Student Project Scheme 2024–25 for the project “BOT ARM – Assisting Differently Abled Students”. Guided by Asst. Prof. Anu Jose (Department of Robotics and Automation) and Asst. Prof. Renjith P K (Department of ECE), the project is undertaken by final-year BTech Electronics and Communication Engineering students Nazrin K.M, Safhana K.M, Fiya Ann Mary, and Gopika Gopakumar. The project focuses on developing a robotic arm to enhance accessibility for students with disabilities, with CERD funding supporting its research, prototyping and testing.



2. The APJ Abdul Kalam Technological University (KTU), through its Centre for Engineering Research and Development (CERD), has sanctioned funding under the CERD Student Project

Scheme 2024–25 for the project titled “ROS-Enabled Agricultural Robot with Machine Learning and Custom User Interface”, guided by Dr Georgina Binoy Joseph (Department of Robotics and Automation). The project, undertaken by final-year BTech Robotics and Automation students Alikha Balan, Jeevan Raju, Sidhharth R and Gregory T Jose, aims to develop a smart agricultural robot integrating ROS, machine learning, and a custom interface to enhance efficiency in farming practices.



Design Patent Granted

A team of researchers and faculty members from Toc H Institute of Science and Technology (TIST) and M.A. College of Engineering, Kothamangalam has been awarded a Certificate of Registration of Design by the Patent Office, Government of India for their innovative work titled "AI Based Robot for Vehicle Manufacturing." The design, registered under Design No. 438974-001 on November 29, 2024 and officially issued on February 20, 2025, is classified under Class 15-99. The contributors to this include Dr Deepa Elizabeth George, Dr Georgina Binoy Joseph, and Ms Dhanya R from TIST, along with Ms Elizabeth Paul, Dr Soni Kuriakose, Dr Biju Cherian Abraham, Dr Joby Joseph, Dr Georgekutty S Mangalathu, and Dr Kora T Sunny from M.A. College of Engineering. This recognition marks a significant milestone in fostering

innovation and advancing intellectual property development in the field of robotics and advanced manufacturing.



"AI Based Robot for Vehicle Manufacturing"

Registered under **Design No. 438974-001** on **29/11/2024** and officially issued on **20/02/2025**

Best Project Award in Robotics at Srishti 2025

Adarsh K.S., John Agnel Pinhero, and Abel Eugene D'Silva of S8 Robotics and Automation won the Best Project Award in Robotics at Srishti 2025, the 11th National Level Technical Project Exhibition and Competition. Their project, titled "Autonomous All-Terrain Surveillance Rover for Military Patrolling," was recognized for its innovation and impact under the theme "Innovations for a Sustainable Inclusive Future." The project was guided by Dr. Georgina Binoy Joseph, Associate Professor, Department of Robotics and Automation, and demonstrated cutting-edge technology aimed at enhancing military surveillance and patrolling capabilities.



Prize Winners of VIGNETTE - INDUSTRY 4.0: Celebrating Student Excellence in Industrial Innovation

The VIGNETTE - INDUSTRY 4.0 project presentation, organized by the Department of Mechanical Engineering, TIST on March 5, 2025, showcased innovative student projects in cutting-edge industrial technologies.

1. Jeevan Raju and Alikha Balan, S8 Robotics and Automation won the **First Prize**. Faculty Mentor - Dr Georgina Binoy Joseph, Department of Robotics and Automation.
2. Gopika Gopakumar and Safana KM, S8 Electronics and Communication Engineering won the **Second Prize**. Faculty Mentors Asst Prof Anu Jose, Department of Robotics and Automation and Asst Prof Renjith P.K, Department of Electronics and Communication Engineering.
3. The **Third Prize** was awarded to NS Parvathy and Fathima Fida, S8 Robotics and Automation mentored by Asst Prof Girish P, Department of Robotics and Automation.

Final Year Robotics and Automation Team Advances to YIP 5.0 State Level

A team of final-year Robotics and Automation students—John Lukose Cochetto, Levin Jeejan, John Agnel Pinhero, Adarsh K S and Abel Eugene D'Silva — has successfully advanced to the state level of YIP 5.0. They are among the 37 teams selected from a pool of 118 qualified teams. The team is mentored by Asst Prof Anu Jose (Department of Robotics and Automation).



Python Team Challenge for 1st Semester B.Tech Students

The Skill Planning and Acquisition Cell (SPAN) and IMPaCT Lab conducted a Python Team Challenge competition for first Semester BTech Electronics and Communication Engineering (ECE) and first Semester BTech Robotics and Automation students on December 16, 2024. The competition tested students' proficiency in Python programming, while fostering teamwork and enhancing their technical skills, requiring solutions to real world problems in their respective domains. The winners are:



PROJECT EXPOS @ TIST

IMPACT Lab organized various Project Expos to showcase the technical and innovative skills of the students of the BTech program in Electronics and Communication Engineering and BTech program in Robotics and Automation.



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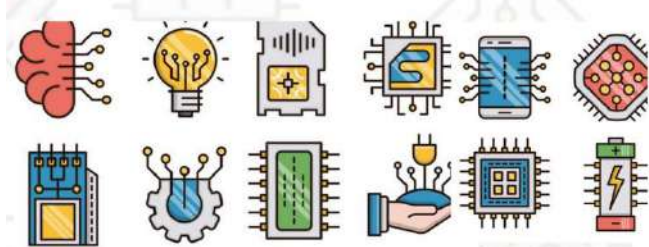


ELECTROGENESIS 2025

Where Ideas in Electronics Begin

Project Expo for Semester 2

Electronics and Communication Engineering
Robotics and Automation



Departments of
Electronics and Communication Engineering
Robotics and Automation

28 March 2025



Organized by IMPaCT Lab & SPAN



PROJECT EXPO WINNERS

(ELECTRO GENESIS 2025 for S2 ECE)



Competition	Semester and Branch	Prize	Team Number	Team Members	Faculty Mentor	Project Title
ELECTROGENESIS 2025	S2 ECE	I	7	ABHAY ALEXANDER	Dr. Georgina Binoy Joseph	Smart Bicycle Safety Systems
				HARI PRASAD S		
				JISNA RAJU		
				MARIA SHYNU		
	S2 ECE	II	4	JOEL ANTONY		Proximity Indication System for Vehicles using Haptic and Audio-Visual Feedback
				KURIAS TENSON		
				MUHAMMED AKTHUS C N		
				SREEHARI NANDANAN		
	S2 ECE	III	6	EVELYN RENI BRIGIT		Sound Activated Fan and Light Circuit for Home Automation
				MEHTHAB SHIYAS		
				SARANGI REJI		
				SREELEKSHMI P G		

SP  N		PROJECT EXPO WINNERS ELECTROGENESIS 2025 for S2 ROBOTICS & AUTOMATION			
Competition	Semester and Branch	Prize	Team Members	Faculty Mentor	Project Title
ELECTROGENESIS 2025	S2 RA	I	AMALKRISHNA T B	Dr. Georgina Binoy Joseph	Automatic Street Light System and Trash Can System for Smart Cities
			JARVIN JOLLY		
			MAX MILAN V J		
			SAM XAVIER ANTONY		
	S2 RA	II	AMIT P JAIKUMAR		Fluid level Indication and Control for Factory/Home Automation
			BIA MARY BOBAN		
			DEVI ANJANA ANOOP S		
			GRANIA ANI THOMAS		
	S2 RA	II	SMRITHI ANN MAJU		Automatic Traffic Light System
			AARON AUGUSTINE		
			ASWANTH B KUMAR		
			EMIL KURIAN ELDHOSE		
S2 RA	III	JOHN JISS JOLLY	Proximity Indication System for Vehicles using Haptic and Audio-Visual Feedback		
		ALEN SAM ANSON			
		ELDHO JACOB			
		NOEL ISSAC A J			
			REMITH R		

Project Expo under the theme IoT and Embedded Systems focussing on real world problems for students of Fourth Semester BTech ECE and BTech Robotics and Automation was conducted on 28.3.2025.



 PROJECT EXPO WINNERS IoT IGNITE: EMBEDDED EXCELLENCE 2025 for S4 ROBOTICS & AUTOMATION 					
Competition	Semester and Branch	Prize	Team Members	Faculty Mentor	Project Title
IoT IGNITE: EMBEDDED EXCELLENCE 2025	S4 RA	I	ARJUN K M	Dr. Georgina Binoy Joseph	IoT based Home Automation System with Mobile Application
			ASWAJITH RAJ A B		
			BLESSEN BINOSH		
			HARIKRISHNAN PB		
			AUGUSTINE SALVIN A F		
	S4 RA	II	ABHINAV N A		IoT based Home Security Automation and Garage Door Control with Mobile Application
			AMID FARZEEN S		
			GLADWIN GEORGE		
			GOKUL T S		
			JERINT P VINOJ		
	S4 RA	III	GLEN XAVIER		IoT based Smart Parking System with Mobile Application
			NIHAL VINEESH A		
			NIHARIKA MADHU		
			SHERIN SHANAVAZ		

Electrobotics 2025

Students of S6 Electronics and Communication Engineering and S6 Robotics and Automation showcased their mini projects on 28.3.2025.



Project Expo for Semester 6

Electronics and Communication Engineering
Robotics and Automation

ELECTROBOTICS 2025



Organized by
IMPACT Lab & SPAN

Departments of
Electronics and Communication Engineering
Robotics and Automation



28 MARCH 2025



ELECTROBOTICS 2025	S6 ECE	I	ABHIJITH SIVAN	Dr.Sreelekshmi.S, Asst.Prof Dhanya.R	ProxiPatch - Microstrip patch Antenna for 5G
			ABRAHAM MARIA		
			ASLAM K A		
			JUHANA NAJEEB		
	S6 ECE	II	AISWARYA	Asst.Prof Roshni Polly	Design and Implementation of RISC V using Verilog HDL
			BHAVANA V NAIR		
			ASHMI A N		
			BINOY BIJU		
	S6 ECE	III	AARON BEJY MATHEW	Dr.Sreelekshmi, Asst.Prof Roshni Polly	REPELIX-"A Humane AI Driven Animal Detection
			SANJANA AJITH		
			HIBA BEERAN		
			NAVANEETH KRISHNA		
	S6 ECE	III	ALWIN BABU	Dr.S.Perumal Sankar, Dr.Deepa Elizabeth George	Robopine: An AI powered pinapple sorting system
			BASIL GEORGE		
			SAIKRISHNA V		
			SIVADATH V S		

Competition	Semester and Branch	Prize	Team Members	Faculty Mentor	Project Title
ELECTROBOTICS 2025	S6 RA	I	AFIL HAMEED	Asst.Prof Sheethal Ann Ajith	Automatic Stamping and AI Powered Quality Control System with Material Handling
			ALWIN JOSEPH P A		
			ARAVIND KRISHNA S		
			MATHEW C ABRAHAM		
			MUHAMMED SAHEER BASHEER		
	S6 RA	II	ABHIJITH M P	Dr. Deepa Elizabeth George, Asst.Prof Edu Krishnan V	Development of manually operated Fire Extinguishing drone
			ADITHYA SUNIL		
			ASHIL MANOJ		
			EBENEZER JUSTIN		
	S6 RA	II	AASHNA BAI M N	Dr. Georgina Binoy Joseph	Smart Shopping Trolley with IoT and Obstacle Avoidance
			ADITHYA R PAI		
			RISHI A		
			SAGER BINSAL SCARIAH		
			SANJAY K S		
	S6 RA	III	ANGELEENA GIBI	Asst.Prof Girish P, Asst. Prof Anu Jose	Robotic manipulator for Automated PCB Assembly
			ASHIN SEBASTINE		
			JOISIN MATHEW		
			RAJATH RAVIKUMAR		
			RAZID C		

ElectroYantra Innovation Expo 2025

Students of S8 Electronics and Communication Engineering and S8 Robotics and Automation showcased their major projects on 28.3.2025.



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SPAN

ELECTROYANTRA INNOVATION EXPO 2025

Project Expo for Semester 8

Electronics and Communication Engineering Robotics and Automation

Organized by IMPaCT Lab & SPAN



28 March 2025



INNOVATION



NEEDING PLACE FOR DISRUPTIVE MINDS

Departments of
Electronics and Communication Engineering
Robotics and Automation

 PROJECT EXPO WINNERS ELCTROYANTRA INNOVATION EXPO 2025 for S8 ECE) 					
ELCTROYANTRA INNOVATION EXPO 2025	S8 ECE	I	FIYA ANN MARY	Asst.Prof.Anu Jose, Asst.Prof.Renjith P K	BOTARM:Assistive technology for differently abled students
			GOPIKA GOPAKUMAR		
			NAZRIN K N		
			SAFHANA K M		
	S8 ECE	II	AISWARYA JAMES	Dr.Deepa Elizabeth George, Asst.Prof.Roshni Polly	Hydroguard: AI driven underwater ROV for crack detection of marine
			M B ASWINRAJ		
			NITHIN P B		
			VAISHNAVI BALASUBRAMANIAN		
	S8 ECE	III	ANTONY SUNIL	Asst.Prof.Deepamary Varghese, Asst.Prof.Renjith P K	Autobreeze
			CHERIN SAJU		
			MARYMOL SUNNY		
			ROSHAN R K		



PROJECT EXPO WINNERS
ELCTROYANTRA INNOVATION EXPO 2025 for S8 ROBOTICS & AUTOMATION



Competition	Semester and Branch	Prize	Team Members	Faculty Mentor	Project Title
ELCTROYANTRA INNOVATION EXPO 2025	S8 RA	I	ABEL EUGENE D'SILVA	Dr. Georgina Binoy Joseph	All - Terrain UGV with ML-Based Thermal Image Processing and Teleoperation UI for Day/Night Military Operations
			ADARSH K S		
			JOHN AGNEL PINHERO		
			JOHN LUKOSE		
			LEVIN JEEJAN		
	S8 RA	II	AMAL ROY	Asst.Prof. Mahesh C	ROS - SLAM Powered Autonomous Vacuum Cleaner
			ANANDHA KRISHNAN S		
			BASITH RAFFEEQUE MOHASIN		
			CHACKOCHAN BENNY		
			RIZWAN M SHIRAS		
	S8 RA	II	FATHIMA FIDA P	Asst.Prof Girish P	Eco Glider - AI enhanced Autonomous UAV for Forest Fire Detection and Post Fire Reforestation through Innovative
			GLENN GEORGE K R		
			MUHAMMED YAZEEN C Y		
			N S PARVATHY		
	S8 RA	III	ALWIN SHIBU	Asst.Prof. Akhil Krishnan M	Intelligent Logistics Solutions Enhancing Warehouse Navigation with ROS -Enabled Autonomous Robot
			SANDEEP PRAKASH		
			SIVAPRIYA D		
			VIMAL JAYAKUMAR		

Dr. Georgina Binoy Joseph

Coordinator - IMPaCT Lab

