

interdisciplinary nature of robotics in today's technological landscape. Students will gain insights into the challenges and opportunities of developing robotic vehicles for various applications, including transportation, exploration, and surveillance.

## DRONE WORKSHOP

The workshop on drones offers participants an immersive experience into the world of unmanned aerial vehicles (UAVs) or drones. The workshops provide a unique opportunity for students to learn about drone technology, applications, and regulations. Participants in drone workshop typically engage in hands-on activities such as drone assembly, flight training, and aerial photography/ videography demonstrations. Attendees are guided through the basics of drone operation, safety protocols, and best practices for piloting drones in various environments. Workshop also cover topics such as drone regulations, ethical considerations, and emerging trends in the drone industry. Workshop provide a comprehensive introduction to UAV technology, equipping participants with the skills and knowledge to responsibly and effectively operate drones in various contexts.

## RESOURCE PERSONS



**Mr Arun Narath**  
Project Manager, Siemens  
Teacher and Public speaker

**Ms Saritha Anilkumar**  
Software Developer  
Ecraftz Info Solutions, Calicut



**Mr Sooraj S**  
Faculty Coordinator  
e-Yantra Robotics Lab, M-DIT Kozhikode



**Mr Akash S R**  
Student Coordinator  
Robotics Club, M-DIT Kozhikode



**Mr Muhammed Mussammil M**  
Drone Developer  
Drone Racers Kerala



**AUTONOMOUS**  
THE ROBOTICS CLUB

## HANDS-ON WORKSHOP on ARTIFICIAL INTELLIGENCE and ROBOTICS

26th & 27th FEB 2024

Exclusively for  
Final-year Diploma Students

Organized by  
ECE Department Association and  
Autonomous, The Robotics Club

For Free Registration: <https://bit.ly/mdit-ece>  
Certificates will be provided for all the participants

Coordinators  
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M-DIT KOZHIKODE

**M Dasan Institute of Technology**  
Ulliyeri P.O, Kozhikode 673323

### **VISION OF THE COLLEGE**

To be a centre of excellence in the nation in quality education and innovative research that can create a better tomorrow.

### **MISSION OF THE COLLEGE**

1. To provide high quality education through a creative balance of in house, academic, professional and extracurricular programmes.
2. To contribute to the nation's technological and engineering base through innovation in education, research and transfer of concepts and results.
3. To maintain a diverse, collegial, open and supportive environment that encourages discovery, creativity and professional development.

### **ABOUT THE COLLEGE**

M Dasan Institute of Technology (M-DIT) was established in 2012-13., with a total of seven academic departments. The technology institute was named after the late dynamic visionary Shri M. Dasan, former Member of Kerala Legislative Assembly. The programs offered at M-DIT extend beyond the horizon of engineering and also cover the key aspects of management. The college is approved by the All India Council for Technical Education, New Delhi and affiliated to the APJ Abdul Kalam Technological University (KTU). M-DIT Kozhikode is a venture of M. Dasan Memorial Co-operative Institute of Engineering and Information Technology. In a short span of time, the Institute has carved a niche in the field of technical education in the state through its advanced courses in engineering and technology and has become one of the most preferred institutions for aspiring students in the state.

### **VISION OF THE DEPARTMENT**

Be a unique provider of Electronics and Communication Engineering programs by imparting value-based, innovative, technical skills and problem- solving ability to serve the nation at large.

### **MISSION OF THE DEPARTMENT**

1. The students will understand and apply concepts in Electronics & Communication Engineering and solve related problems.
2. To prepare students to work in teams for taking up entrepreneurial and community service ventures.
3. To make technology accessible and at the disposal of the common man.

### **ABOUT THE DEPARTMENT**

The Department of Electronics and Communication Engineering was established in the academic year 2012-13. In our journey since inception, we have evolved and expanded our offerings to meet the growing demands of the industry. We provide two cutting-edge B.Tech degree programs:

1. Electronics and Communication Engineering (full-time) with an intake of 30 students
  2. Electronics and Computer Engineering (full-time) with an intake of 30 students.
- Our department has been at the forefront of shaping future engineers in the dynamic field of Electronics and Communication. At the heart of our department's ethos is our commitment to providing not just theoretical knowledge but also practical, hands-on experience. We take pride in our association named EZAIC, which fosters technical and innovation activities for our students. Our dedicated e-Yantra Robotics lab, facilitated by IIT Bombay, focuses on offering specialized training in Robotics and Internet of Things (IoT). In line with this, our robotics club, Autonomous, is actively engaged in promoting a culture of innovation and creativity among our students. Robotics projects done by students have won prizes and recognitions in competitions conducted across the state.

### **WORKSHOP ON ARTIFICIAL INTELLIGENCE**

The function and popularity of Artificial Intelligence are soaring by the day. The workshop on artificial intelligence offers participants a unique opportunity to delve into the fascinating world of AI, exploring its applications, methodologies, and potential impact on various industries. The workshop provides hands-on learning experiences, practical insights, and interactive sessions aimed at demystifying AI concepts and fostering skill development. It covers emerging trends such as deep learning, natural language processing, and computer vision. Sessions include Overview of AI, Types of AI, Applications of AI, Python Fundamentals, Introduction to Libraries for AI in Python and Hands-on exercise with Python.

### **ROBOTICS WORKSHOP**

The workshop provides hands-on exposure to designing, building, and programming robots, offering a practical understanding of the principles that govern this field. Students are guided through the fundamentals of robotic vehicle technology, including sensors, actuators, and navigation algorithms. Participants engage in activities such as assembling robotic components, coding algorithms, and troubleshooting real-world challenges. Beyond technical skills, robotics workshop promotes critical thinking, problem-solving, and teamwork. Participants will collaborate on projects, promoting a collaborative environment that mirrors the