KPR Institute of Engineering and Technology

Learn Beyond (Autonomous, NAAC "A")

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MI001

NBA Accredited
(CSE, ECE, EEE, MECH, CIVIL)

BASICS OF ROBOTICS

Event No	MI001
Organizing Department	Mechatronics Engineering
**Associate Dept.	NSC**	Mechatronics Engineering
Date	19/10/2023
Time	04:30 PM to 07:00 PM
Event Type	Workshop
Event Level	Dept. Level
Venue	COE (R&A)

Related SDG

4 QUALITY EDUCATION

Involved Staffs

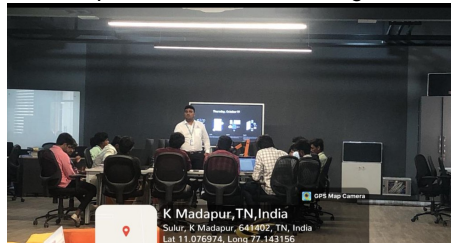| SI	Name	Role
1	Balaji Arunachalam	Convenor

Outcome

It's important to tailor the workshop to the specific needs and interests of the first-year students. The outcomes can be adjusted based on the intended learning objectives and the resources available for the workshop. Additionally, ongoing support and resources for students who wish to continue exploring robotics can be provided to further enhance their skills and knowledge in this field.

Event Summary

The 'Basics of Robotics Workshop' was a one-day event organized by Department of Mechatronics Engineering at COE (R&A). The workshop aimed to introduce first-year students to the fundamental concepts and principles of robotics and automation. It was designed to provide participants with hands-on experience and a theoretical understanding of robotics technology.The workshop included informative sessions that covered the following topics:*Introduction to Robotics:* An overview of what robotics is, its history, and its applications in various industries.*Types of Robots:* An exploration of different robot types, including industrial robots, service robots, and educational robots.*Sensors and Actuators:* Discussion on the role of sensors and actuators in robotics and how they facilitate interaction with the environment.*Programming Robots:* An introduction to programming robots, including basics of coding and controlling robot movements.*Robotics Ethics and Safety:* Addressing the ethical and safety considerations in robotics technology.The participants had the opportunity to work with small educational robots provided by the organizers. They were guided by experienced trainers on:Assembling and disassembling robotsProgramming robots to perform simple tasksTroubleshooting common issues in robot operation

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