



KCG

COLLEGE OF TECHNOLOGY

Department of Automobile Engineering



Value Added Programmes on Robotic Based Design & MAT Lab



Value Added Session (Robotics)

KCG College of Technology

Venue: KCG

Relevant for: Faculty, students, and researchers interested in robotics workflow.

Abstract

Time	Topic [Duration](speaker)
Date: 31-05-2021 11 am – 12:30pm	1. How to make a computer see? [90 min] – Day 1 (Anand and Akhil) In this session we will be showing how to make machines acquire, enhance, and make sense of the world around them. <i>Key Words:</i> Image processing, Computer Vision, Data acquisition, Sensors
Date: 01-06-2021 11am – 12:30pm	2. Equations to Robots?! [90 min] – Day 2 (Akhil and Anand) In this session we would be looking at how mathematical equations represent a robot and its motion. We will be learning by building a ball catching robot as a team. <i>Keywords:</i> Dynamics, Robotics, Physical modeling, Multi-disciplinary projects, Project Management
Date: 02-06-2021 11am – 12:30pm	3. Controlling the robot [90 min] – Day 3 (Akhil and Anand) In this session we will talk about how to ensure that the robot that we built is able to catch a ball accurately. <i>Keywords:</i> controller, control system, design.
Date: 03-06-2021 11am – 12:30pm	4. Deployment [90 min] – Day 4 (Akhil and Anand) In this session we will talk about how to take our robot from the computer world to the real world easily. <i>Keywords:</i> Hardware deployment, code generation





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MATLAB DAY

Hands-on MATLAB & SIMULINK SESSION

Date: 04th June 2021 | Time: 09.45 a.m.







Discussion Topics

- Access MATLAB/Simulink at KCG
- MATLAB Hands-on session
 - Introduction to Live Editor, Building UIs using MATLAB
- Simulink Hands-on Session
 - Introduction to System Modeling using Simulink and Simscape
 - Hardware Connectivity with Simulink

Organised by
Department of Electrical and Electronics Engineering

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