

## COURSE CONTENTS

The Course is planned to be conducted as three phases, each with one session for five days. It includes Hands-on sessions in specific topics, which could help the Research scholars working in the area of Robotics.

### Phase I:

#### Introduction to Robotics (IROBO '22)

Introduction to Robotics and its applications, Robot Kinematics, Robot Dynamics, Introduction to Robotic manipulators and Mobile Robots.

**Phase II:** Sensors and Actuators, Robotic Motion Planning, Control of Robots, Robotic Vision.

**Phase III:** Introduction to AI and ML, AI in Robotics, Application and Research directions in Robotics.



## SESSIONS TIMINGS

ONE Online session per day from 02:00 pm to 04:30 pm (IST).

Phase II will be conducted during May 2022 and Phase III during June 2022.

The link for the FDP will be sent to the registered participants through WhatsApp/email.

## TARGETED PARTICIPANTS

The FDP is open to Industrialists in the field of Robotics, Faculty members, Research Scholars and PG/UG students of various Engineering Colleges.



For further details,

**Dr. Shalu George K.**

Associate Professor, EED.

**Ms. Archana A. N.**

Assistant Professor, EED.



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## FDP on Robotics: Control and Applications - Phase I

Department of Electrical and  
Electronics Engineering



**MAR BASELIOS**  
COLLEGE OF ENGINEERING AND TECHNOLOGY

**AUTONOMOUS**

Coordinators:  
**Dr. Shalu George K.,**  
**Ms. Archana A. N.**

4-8 April, 2022

## ABOUT THE INSTITUTION

Mar Baselios College of Engineering and Technology (MBCET) was established in 2002 by the Major Archdiocese of Trivandrum with the noble objective of providing quality Technical Education based on fundamental human values, without any distinction of caste, creed or religion. Being a proud part of the Mar Ivanios Vidyanagar on the blessed Bethany Hills, deriving the inner strength of truth and goodness from visionary patrons, MBCET inspires the aspirations of generations of knowledge seekers.

The College aims at achieving the integral development of human personality and is just 8 kms away from Trivandrum Central Railway Station and 12 kms from Trivandrum International Airport. MBCET offers B.Tech programmes in five branches with an intake of 120 each, M.Tech in five specializations and also PhD programmes. All the B.Tech programmes are accredited by NBA and the Institution is accredited by NAAC with 'A' Grade (CGPA: 3.13). The UGC has conferred Autonomous status on MBCET which has been notified by the Kerala Technological University (KTU) as per the direction of the Government of Kerala.

## ABOUT THE DEPARTMENT

The Department of Electrical & Electronics Engineering of MBCET which started its journey in 2002 fosters a dynamic academic environment that is committed to a tradition of excellence in teaching, research and service. The department offers UG as well as PG Programmes. The department has a team of well qualified and competent faculty who are active in research with a number of publications to their credit. To encourage research and development, the department regularly organizes Conferences, Workshops, Webinars, Short Term Training Programmes etc. The department continues to strive in excellence to produce highly qualified, well-groomed and motivated graduates possessing fundamental knowledge in Electrical & Electronics Engineering, who can provide leadership & sincere service to the nation and to the world as a part of which it attained NBA accreditation in 2016.



## VISION OF THE DEPARTMENT

To be a Centre of Excellence in Electrical & Electronics Engineering Education, Research and Application of knowledge to benefit the society at large.

## MISSION OF THE DEPARTMENT

To mould quality Electrical Engineers, fostering creativity and innovation to address global issues.

## REGISTRATION DETAILS

No Registration FEE.

**Last date of registration:**

02/04/2022

**Registration link:**

<https://tinyurl.com/3bszh62j>

or Scan the QR code given below.



- E-Certificate will be issued to all the participants after the submission of the feedback form and final assessment.
- Confirmation email and detailed schedule will be circulated to the participants on **03/04/2022**.