

INSPIRING ROBOTICS BROUCHER

- SUMMER TRAINING PROGRAM ON ARDUINO IN 6 DAYS (course ID IR.06A)



Program Details-

COURSE INTRODUCTION

This is a fast paced program for robotics enthusiasts to explore and learn the vast field of robotics at a lightning pace! Each participant will develop different robots using combinations of

various technologies in a span of 6 days. The program is going to be fast, exhaustive, challenging and fun at the same time

PROJECTS

- Line Follower Robot
 - Obstacle Avoider Robot
 - Obstacle Follower Robot
 - Mobile Robotics
 - Maze Solver Robot
 - Gesture Based Robot
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COURSE HIGHLIGHTS

- Learn to Design and Build different kinds of robots involving concepts from Sensor Based Autonomous Robotics, Mobile Operated Robots and Gesture Based Robotics
- Courses designed under the guidance of Professional Trainers
- Well-structured program that spans from basics to advanced robotics
- Develop live working Robotics Projects

COURSE STRUCTURE

- Introductory lecture
- Interactive design session

- Design session
- Live testing and competition of Robots
- Awards & Certificate distribution

TOPICS COVERED

- Basics of Robotics
- Understanding the application of various sensors and integration with Microcontrollers
- Embedded Systems and embedded C programming
- Sensor Guided Autonomous Robotics - using various sensors
- Exposure to Mobile Communication
- Mobile operated Robotics - using DTMF module
- Understanding of Accelerometer sensors
- Gesture Based Robotics
- Understanding the structure and programming of Microcontrollers

KIT DETAILS

- Robotics Development Board
- Microcontroller
- All ICs and IC Holders
- DC Motors
- Wheels
- IR Sensors
- RF Tx-Rx Module
- Programming Cable
- 12 V Battery
- Chassis
- Digital Multi Meter*

- Working Tools*
- Other miscellaneous items

Note : All the above components would be provided during the program to participants in groups of 5

CONTACT DETAILS

Please feel free to contact us in case of any queries.

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- SEVEN DAYS PROJECT DEVELOPMENT WORKSHOP
(course ID IR.07APD)



COURSE INTRODUCTION

In this program each group of participants will develop different projects using combinations of various technologies in a span of 7 days. The program is going to be fast, exhaustive, challenging and fun at the same time.

PROJECTS

- Navigation System for blind
- Gesture controlled Robot arm
- Gestured controlled Land Rover
- Line Follower Robot
- Obstacle Avoider Robot
- Obstacle Follower Robot
- Maze Solver Robot

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CERTIFICATION

- Certificate of Participation
- Certificate of Merit to the top-performers

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