

AVR FOR ROBOTICS

Are you new to robotics?

Don't know where to start with??

Well then this workshop is for you where you get started with the avr architecture based Atmega 16.

This is your first step to an endless journey of adventures.

COURSE CONTENTS:

- 1. Introduction to Microcontrollers.**
- 2. AVR controller and concept of Embedded Programming.**
- 3. Serial communication.**
- 4. LED and LCD display interfacing.**
- 5. Proximity sensors and ultrasonic sensor, optical encoders.**
- 6. DC motors and stepper motors etc.**
- 7. Robo Kit assembly and programming.**

Hands on Session:

- 1. Interfacing of LED, LCD, DC motor, Stepper motor, sensors with AVR Controller.**
- 2. Obstacle avoidance and Line follower robot.**

Competition:

After the completion of the workshop a Line Follower competition will take place.

Details:

**Kit queries
Contact: +91 70108 48154**

**Queries and accommodation
Contact: +91 99401 75600**

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Team: Maximum of 4 per team.(LONE WOLVES are also allowed)

1. Rs. 499/- per head.(includes the Rs. 250/- reservation fee).(Team of 4 max.)
2. EARLY BIRD OFFER OF Rs.50/- will be reduced if the reservation is done on or before March 1.
3. Kit with the components specified in course contents will be provided to the team onsite.
4. Kit costs Rs.2500.

REQUIREMENTS:

- 1.Pen drive.
- 2.Laptop. (else we will provide you a desktop, IF POSSIBLE)
- 3.People from different colleges also can form a team.

Additional details:

This is a two days hands on workshop. The kit's cost is not included in the registration fee. Those who require the kit to work should pay separately for the kit. This kit costs Rs.2500 and those who require the kit should mail us at **mitra.mitindia@gmail.com** as soon as you register for the workshop. Reservation for this workshop should be done before March 5,2018 in order to get a kit. No kits will be provided to work with, if you have registered but not mailed us, or registered after 5th,March. The kit will be fabricated on our own and these components are hard to get on your own. So it is advised that you inform us before hand.

Note:

Snacks will be provided.

The participants are requested to arrange for lunch on their own.

If you want us to provide the kit, mail us before March 5.

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- 1.CERTIFICATION FOR HAVING BUILT A BOT.
- 2.CERTIFICATION OF EXCELLENCE (If your team wins the competition on Day 2)

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