



WORKSHOP ON SENSOR GUIDED ROBOTICS

Greetings from Quassarian Innovations Pvt. Ltd.

We are a product R&D company and we conduct educational programs, establish robotics labs and innovate products for industry. As per our last discussion, I am sending you our proposal for conducting this workshop on robotics in your institution.

We are on a mission of raising industry leaders in this sector. We are busting the myth and common perception among students that robotics requires huge expertise by making robotics very simple for them to understand through hands on training opportunity in which they learn by building their own robots.

We are looking forward towards conducting this workshop on robotics in your college for giving your student's curiosity a new dimension of working towards development and innovation.

Furthermore, we convey to them the exact extent where global robotics is standing today and how individuals and curious brains like them can contribute and make a bright future into this area.

Robotics is a subject which is now being implemented in almost every sector including agriculture, dentistry, hospitality, space and innovation etc. This is the right time for students to leave a valuable mark by bringing innovation and automating their domain of interest by bringing innovative use of robots there.

The subject being multidisciplinary, its fit for every branch of study and we encourage everyone to participate.

We will be conducting a two days program that includes the following:

- Hands on training and robot development.*
- Exploring various areas where we need robotics*
- Programs and awards.*
- Startup and entrepreneurship opportunity*
- Government initiatives and methods of taking benefit*
- Career in robotics*
- Global robotics*
- Best robots and how they work*
- Managing resources*

Structure

1. # Lecture on Robotics and Programming.
2. # Video session of world class robots.
3. # Fabricating a Robot
4. # Programming a Robot
5. # Testing of Robots and Calibration
6. #Scope of Robotics
7. #Certificate Distribution

We are going to build 3 types of robots among the class of Sensor Guided Autonomous robots that responds to triggers by playing voice that simulates these robots to be more alive.

Sensor Guided Autonomous Robots (commonly known as autonomous robotics) comprises robots that function depending upon the inputs from sensors and are controlled with the help of a microcontroller.

- *Build a speaking robot.*
- *Sensor guided robotics*
- *Build 3 types of autonomous robots*
- *Infrared sensors and its interface with robots*
- *Experience arduino and C++ program*

Kit

**We will bring kits and they will be taken back.*

**1 laptop per team of 5 members is recommended.*

Certifications (Provided by Quassarian Innovations Pvt. Ltd.).

1. Certificate of Completion.
2. Certificate of Completion. with Distinction (for top performers)

Opportunity

Internship or Placement of shortlisted students at Quassarian Innovations Pvt. Ltd.

Participation Fee.

We will be charging Rs. 999 /- per head.

Minimum Registration:

For this workshop to be successfully organised in your college premise we need a minimum of 50 students.

Items required:

1. Projector Screen
2. Sound system
3. Microphone
4. Internet Connection

5. Table

6. White Board

TA and DA:

We request the institution to arrange for travelling and accommodation for our team of 3 experts, all coming from New Delhi.

* Flight tickets for to and fro journey if distance is more than 300 Km.