Lego Bot Workshop

The LEGO Mind storm series of kits contain software and hardware to create small, customizable and programmable robots. They include a programmable 'Brick' computer that controls the system, a set of modular sensors and motors, and LEGO parts from the Technics line to create the mechanical systems.

**Schedule:**

Day:1

• Introduction to NXT brick and Servo Motors

• Familiarization with the parts

• Introduction of Sensors

• Learning building of Edu-Bots

• Overview of NXT G (Pre-Programmed)

Day: 2

• L earning NXT-G Programming

• Learning the Forward, Backward Motion and

Steering of robot

• Learning different reactions of a robot when it

strikes with an Object, Sense different colors

(Gray Scale), Sense different sound and how to

react when there is any object in front of it

Activity:

• Line Follower

**Organized by:**

Lego Education in association with Techtronics Education

[www.techtronics-edu.in](http://www.techtronics-edu.in)

**Date :** 23-24 November

**Time :** 4-5hrs daily

**Requirements:**

1. Computer Lab
2. C-Hall
3. Projector
4. Audio System(mike)

**Certificates:**

Lego Educations Certificates will be awarded to all the participants for workshop participation.

**Website links:** <http://www.legoeducation.us/>

<http://en.wikipedia.org/wiki/Lego_Mindstorms>

**Video Embed:**

1. <https://www.youtube.com/watch?v=c09M0Ogr7NA>
2. <https://www.youtube.com/watch?feature=endscreen&v=Ln1ObqxyGy0&NR=1>
3. <https://www.youtube.com/watch?v=_d0LfkIut2M>
4. <https://www.youtube.com/watch?v=Mp8Y2yjV4fU>

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