

## Robotics with Robotics Club, IIT Guwahati

Total Sessions : 15

Sessions Duration : 1 Hr

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### Course objective

This exclusive course from Robotics Club, IIT Guwahati will train students about how to build a smart bulb, which can be operated using a mobile application. This course includes modules on Introduction to IoT, hardware components, circuit design, assembly and voice control using Google. The main focus of this course is to understand architecture of IoT applications and make a working bot. By the end of this course, you will be able to build a smart bulb and understand its applications to various other similar products like fan, water tap etc. Join this course to get hands-on knowledge on Robotics, and receive a participation certificate from Robotics Club, IIT Guwahati once you complete this course.

### Course Content

- 01 Introduction to IoT
- 02 Setting up the platform
- 03 Discussion & doubts
- 04 Introduction to Hardware
- 05 IDE and Blynk Libraries- 1
- 06 IDE and Blynk Libraries- 2
- 07 Doubts and Discussions
- 08 Hardware circuit design
- 09 Doubts and discussion

- 10** Connecting the circuit
- 11** Hardware Assembly and demo using mobile app
- 12** Doubts and discussion
- 13** Voice control using Google assistant
- 14** Final product demo and other applications
- 15** Next steps