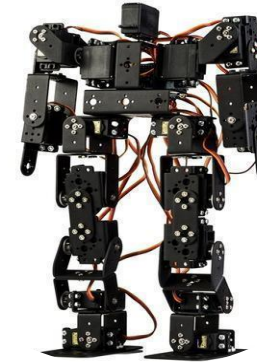


Two-Days
National Level Workshop Series
on
“Biped Walking Robot”



Workshop Features:

- practical based learning during workshop
- workshop will be delivered by Professional Expert
- Workshop Certificate of completion to each participants

About Biped Robot workshop

Participant will learn to build a two legged robot or a biped walking robot which will have six degrees of freedom with a hip, knee & foot and

By building this biped walking robot project, you will practically learn about Arduino architecture & its programming, working of the servo motors - which acts as actuators & the programming logic behind the human's walking action.

Course Outcomes

- Introduction to Servo Motors, Embedded systems & Microcontroller
- Introduction to design and development of Biped robot
- Understanding the Electronics circuit involved in Biped
- Understanding Arduino Architecture and its programming
- Programming of Biped according human's walking strategy

2-Days Biped Robotics Training Course Content

Day1	<p>Introduction to the Biped Robot</p> <ul style="list-style-type: none">• The Biped Robot• Introduction to robotics• Introduction to types of robotics• Applications in different areas• Robotics in automation• Difference between microcontroller vs microprocessor <p>The Arduino Platform</p> <ul style="list-style-type: none">• The Arduino Open-Microcontroller Platform• Arduino Basics• Arduino Board Layout & Architecture• Arduino Programming <p>Simple LED Program for Arduino</p> <ul style="list-style-type: none">• Servo motor concept• Servo Motor Interfacing.• 90 degree lock programming.

2-Days Biped Robotics Training Course Content

Day2	<p>Assembly of Robots.</p> <p>Integrating Arduino with Robot (Biped Projects)</p> <ul style="list-style-type: none">• 1 leg split stunt robot.• 180 degree split stunt robot• forward direction walking• Right left direction moving• Walking Robot• Dancing Robot <p>Hands on practice</p> <ul style="list-style-type: none">• Designing of robot• Building of robots• Programming• Robot debugging and testing <p>Doubt clarification</p>

Workshop Charges

Workshop Duration	Training Charges(Excluding GST)
Two Days Training Charges	Rs. 1800/-per attendee

Participants Eligibility

The program is open to the Faculty/ Research Scholars/ Students of science & Engineering institutes and other working professionals are also, eligible.

Requirements from the hosting institution to organize 2-days workshop

- ❖ Seminar hall/classroom having the enough capacity to conduct hands-on-session for all.
- ❖ Good Quality public address system ideally two cordless mic will be required.
- ❖ Projector/ Screen along with black/white board for teaching and presentation purposes.
- ❖ One small stereo jack cord to in laptop for its sound system.
- ❖ Training center can only be arranged for a minimum of 60 Attendees.
- ❖ Hospitality to one training expert.

THANK YOU



Team EduxLabs



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