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Level 11, Prestige Trade Towers, 46
Palace Road,
Bangalore-560001

Workshop Document: Humanoid Robot Building Workshop – Day 2

Event Context – Humanoid Robot Building Workshop

- **Date:** 28th March 2026
- **Venue:** IIT Hyderabad

Event Detail:

Time Slot	Session Title	Topics to Cover
11:00 AM – 11:30 AM	**Introduction to Humanoid Robotics**	• Welcome and session overview • Introduction to humanoid robots • Applications of humanoid robots in education, service robotics and automation • Overview of humanoid robot components such as Arduino, servo motors, sensors and power supply • Explanation of robot movements like head rotation and hand movement
11:30 AM – 12:30 PM	**Hardware Distribution & Setup**	• Distribution of humanoid robot kits • Explanation of components (Arduino board, servo motors, jumper wires, robot frame) • Safety precautions • Overview of wiring and connections
12:30 PM – 1:30 PM	**Kit Building & Arduino Coding**	• Step-by-step humanoid robot assembly • Connecting servo motors to Arduino • Assembling robot hands and head mechanisms • Introduction to Arduino IDE • Writing and uploading basic servo motor control code • Controlling head and hand movements

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1:30 PM – 1:45 PM	**Testing & Debugging**	• Testing servo motor operations • Verifying hardware connections • Debugging Arduino code • Ensuring head rotation and hand movements work properly
1:45 PM – 2:00 PM	**Task Assignment**	• Participants implement assigned tasks such as programming multiple servo movements • Creating movement sequences • Adjusting angles and improving robot motion
11:00 AM – 11:30 AM	**Evaluation & Demonstration**	• Participants demonstrate their humanoid robot functions • Mentors check code and hardware connections • Feedback and improvements • Session wrap-up