

Workshop
Presented On

Arduino

in collaboration with





2017-2018



Celebrating the alliance

with the most prestigious institutes of our country



TechieNest takes proud on its Success everyday...

Certified by the **Standards of ISO** and **leading Institutes** of the Nation we have proven to be a symbol of faith and dignity for our students.

Our QUALITY NETWORKs













IIT Bombay



IIT Roorkee

IIT Mandi

IIT Jodhpur

IIT Indore











IIT Hyderabad

MANIT Bhopal

MNIT Jaipur

NIT Raipur

NIT Srinagar



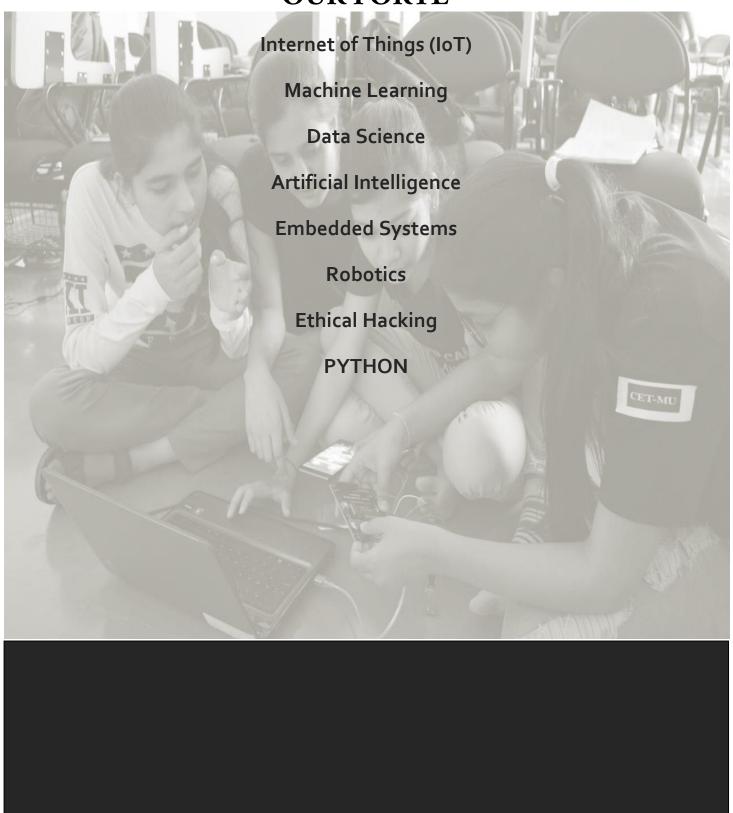




IIIT Kalyani



——OUR FORTE—





DAY 1 (Session 1 & 2)/6-8 Hours

Arduino

Introductory & Theoretical session

- Introduction to Arduino.
- Future aspects.
- Wide description about Microcontrollers.
- Wide description about Arduino
- Memory organization in Arduino.
- Input & Output peripherals in Arduino.
- Resisters in Arduino.
- Programming of arduino.

Kits Distribution

Practical session

- Interfacings of peripherals.
- Output devices interfacings.
- Programming for LED interfacings with Microcontrollers.
- Different patterns of LED blinking.

Motor Interfacing

- Actuators to be used in Robots.
- Wide description about L293D.
- Interfacing motor driver IC with Microcontroller.
- Interfacing of Motors with microcontrollers via L293D.
- Differential drive mechanism of Robot.

Project: Development of an Autonomous Robot.



DAY 2 & 3 (Session 1 & 2)/6-8 Hours Arduino

Introduction to IR sensor

- Interfacing of IR sensor through Arduino.
- Introduction and working of LM358 comparator IC.

Project: Development of obstacle avoider robot.

Project: Development of obstacle follower robot.

Project: Development of never falling bot.

Concept of line follower.

Project: Development of line follower robot.

Serial communication & Bluetooth Technology

- Accessing internal USART of Arduino.
- Interfacing Bluetooth module with Arduino.
- Transmitting & receiving data wirelessly through Bluetooth of Laptop/Android mobile phone.

Project: Bluetooth Controlled Robot via laptop.

Project: Bluetooth Controlled robot via Android mobile.

Concept of basic networking

• Accessing camera in private network.

Project: Spy Bot.

Query Session & Comptetion



- ATmega8/Arduino Development Board,
- D type programming cable.
- On board voltage regulated Power supply unit.
- IR Sensor pair.
- Bluetooth module.
- Universal Robotics Platform.
- DC Motors pair.
- Wheels.
- Screws.
- Screw driver.
- Supporting cables.
- Adaptor

Workshop Toolkit

(Provided in a group of 5 students)

- ✓ A seminar hall/Class room with seating capacity of 100 students
- ✓ One projector.
- \checkmark 2 Collar mike with sound system.
- ✓ White board and marker.
- ✓ Workshop coordinators(3-5)
- ✓ Laptop charging points.
- ✓ One laptop/PC to each group.

Workshop
Arrangements
By college coordinator



Take Aways

Certificate of Participation
Certificate of Coordination
Certificate of Appreciation to College
Memento to College from TechieNest
Relevant Software.
Study Material (Soft Copy) FREE.

- ✓ Acquaint yourself with practical knowledge.
- ✓ Workshop taken by Exceptionally Qualified and Professional Trainers actively involved in Research & Development.
- ✓ Learn your Area of Interest directly from Industry Experts.
- ✓ Scales up your CV/ Resume in Technical while boosting your Logical Abilities.
- ✓ Brings Confidence in you for Technical rounds of Interview.
- ✓ Lifetime assistance on any of your projects.

Associated Benefits of our workshops



TechieNest in Motion (PAN India)































PEC Chandigarh

IPEC Ghaziabad

AMU Aligarh

Modern College of Engg, Pune

MIT Pune

BMS Bangalore

Mody Laxmangarh

Manipal University, Jaipur

Amity University, Jaipur

Banasthali University

JECRC Foundation & JECRC University, Jaipur

BITS Mesra, Jaipur

AIET Jaipur

SGSIT Indore

KIIT Bhubaneswar

Santosh Rungta Bhilai, Raipur

Vignan Hyderabad

GITAM Hyderabad

KITS Warangal

Thejus Thrissur, Kerala

GEC Barton Hills, Thiruvananthapuram













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7, Jawahar Nagar Colony, Gate No. 1, Near Glass Factory, Tonk Road Jaipur, Rajasthan, India- PIN 302015



+91-9251494002, +91-9251094002

