



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







MANIT Bhopal



MNIT Jaipur



NIT Raipur



NIT Srinagar



NIT Jalandhar



IIIT Kalyani



### OUR FORTE

**INTERNET OF THINGS (IOT)** 

**AEROMODELLING** 

**EMBEDDED SYSTEMS** 

**ROBOTICS** 

**MATLAB & MACHINE VISION** 

**VLSI & VHDL** 

ANDROID APP DEVELOPMENT

**NETWORKING** 

**AUTOMATION (PLC & SCADA)** 

**ARDUINO** 

**PCB DESIGNING** 

**RASPBERRY PI** 

**IMAGE PROCESSING** 

**MSP430** (TEXAS INSTRUMENTS)

**IC ENGINE** 



### Quadcopter

### (Session 1&2)/7 Hours

#### Introduction to Flight

- History of manned and Unmanned flight
- Types of flying models (Rubber-powered, engine-controlled and electro-power
- controlled)
- Multi-rotor technology
- Helicopter to Quadcopter
- Operation, advancements and advantages of Quadcopters

### Quadcopter modeling (Dynamics)

PD and PID controller for stability and control

#### ❖ Components of a Quadcopter

- Frame (types, configuration and sizing)
- ➤ Propeller (design, sizing, forces acting on it and analysis of parameters such as pitch, diameter and RPM)
- Battery (Li-ion and Lipo batteries)
- Electronic speed controller (PWM, start-up, troubleshooting and working)
- Sensors (Accelerometer, Gyroscope and GPS)



DAY 2 (Session 3&4)/7 Hours

### Quadcopter

### **Assembling**

- Introduction to Microwave communication
- RF communication for flying models
- Accelerometer and gyroscope (introduction and interfacing)

# Calibrations and oscillation check Fly your Quadcopter

- Building techniques
- Outdoor flying
- Queries and Feedback

#### **Query Session**

All above Kits include:

- 1. \*Frame
- 2. \*Flight controller
- 3. \*Motor
- 4. \*ESC
- 5. \*Battery
- 6. \*Connectors
- 7. \*Propeller set (4 Nos)

Note: \*All kits will taken back after the completion of workshop. There are no take ways.



- ✓ A seminar hall/Class room with seating capacity of 100 students
- ✓ One projector.
- ✓ 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** 













### JAIPUR | HYDERABAD | DELHI | LUCKNOW | VIZAG | RAIPUR















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