Internet of Things (IoT) Internship

30 Days 160* hours Intensive Certified Internship

India’s biggest ever course work based Internship on

Internet of Things (IoT) Tools, Technologies and Application development

Highlights of the Internship

- Dedicated Industry Expert to clarify doubts and give reviews on your work.
- High Quality Study Materials.
- Case Study based approach for better problem solving.
- Various High quality Technical Assignments.
- One Major Industry Expert Guided Project
- ISO 9001: 2015 by UKAS, UK, EIAC, DUBAI LMS a Globally Valid one month internship certification to boost your career prospects.
- Higher Education and Career Guidance Counselling Sessions by Experts.
- Top Performers will be selected and given opportunity to work on projects with companies.
Internship Structure

No of Days: **8** (Offline) + 3 Weeks (Online)

No of Hours: Total 160Hrs (70 Hands-On Training & Hands-On Projects) + (90 Hours of Online learning + Major Project)

Technologies you learn

- Raspberry Pi
- ESP 8266 or ESP 32
- Cloud Platforms – Particle Cloud & U BizDots
- Protocols – MQTT
- Firebase – Realtime Database by Google
- Embedded C
- MIT App Inventor
- IFTTT
- Embedded Python – scripting language.
- HTML5 & Bootstrap
- LoRa
- Sig Fox
- Narrow Band – IoT
- Tensor Flow
- Zigbee

Week 2: LPWAN

1. LPWAN (Low Power Wide Area Network)
   a. LoRa (Long Range)
   b. SigFox
   c. NB-IoT

Week 3: IoT Wireless Sensors

1. IoT Wireless Sensors
   i. Beacon
   ii. NFC
   iii. How Bluetooth Enhances IoT Architecture to Next Level
   iv. Bluetooth 5
   v. Zigbee
   vi. Z-Wave
IoT with Artificial Intelligence

1. IoT with Artificial Intelligence
   i. ChatBot
   ii. Tensor Flow
   iii. Open Platform 3.0

Internship Benefits

After the Internship the students should be able to:

- Understand IoT landscape and all emerging areas to develop products
- Understand and build IoT applications
- Implement concepts of UI, data handling and control instructions.
- Integrate various services available in market to enhance the IoT apps or product.
- Learn Advanced and Various tools and techniques in IoT and get exposure into it.
- Integrate AI Tools into IoT and make intelligent applications.
- Emulate real time IoT application sequence
- Implement Industrial IoT concepts and develop working models.
- Conceptualize and develop products using IoT
- Develop confidence of presenting their project/Product
- Inclination towards entrepreneurship and business opportunities
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*no of hours mentioned are calculated by both class room training & the time student spend by interns to complete tasks given in the online platform and time taken for doing project work

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