InternsForge

5G

Internet of Things

About Us

InternsForge is the bridge that takes you from books to the on-field application of any and everything you want to learn. You should be trained to apply all your learnings in the real world right from the start. This not only makes your learning process a lot more fun but sets you apart from the dense competition through your exceptional skills from our holistic learning approach.

"We're not here to just teach; we're here to transform"

- 30,000+ Students Turned Industry-Ready Professionals

- 4.5+ Star rating on Google from 325+ Happy customers

- Have our presence in over 4000+ colleges including top IITs, IIMs, NITs, IIITs etc

- Students from InternsForge are working in Top MNCs like IBM, Accenture, Innodata, Cognizant etc

IOT

What is IOT ??

Ladies and gentlemen, fasten your seatbelts and secure your smart devices, because we're about to embark on a wild ride through the Internet of Things (IoT), the technological wonderland where your toaster can text, your fridge has more friends than you on Facebook, and even your toothbrush could potentially tattle on your brushing habits to your dentist!

Welcome to a world where everything that can be connected, will be connected. Yes, even that. In the Internet of Things, your alarm clock doesn't just wake you up; it brews your coffee, heats your car, and might even gently nudge your fitness tracker to remind you that morning jogs are a thing you thought you wanted to do.

Scope of IOT ??

Congrats!! 🥳
You just made a great choice

Did You Know ??

- According to a report by Fortune Business Insights, the global IoT market size was valued at **USD 384.70 billion in 2021** and is projected to grow from **USD 478.36 billion in 2022 to USD 2,465.26 billion by 2029,** at a CAGR of 26.4% during the forecast period.
- It is estimated that there will be **41.6 billion** connected IoT devices by 2025, generating **79.4 zettabytes** of data, according to IDC. This explosive growth in devices highlights the expanding reach of IoT technology.
- In the consumer segment, smart home devices are the most visible examples of IoT. These include smart speakers, home security systems, and appliances. Statista predicts that revenue in the Smart Home market amounts to **USD 141.58 billion in 2023.**

Are We Really Different ??

'This is NOT a Course, This is a Commitment"

The internet is full of online courses- free as well as paid, college students have access to top professors and high quality study materials.

Still our unemployment ratio continues to grow.

At the same time, the stress and worry faced by today's college students reach the sky!

" Now it's time to leave all your worries up to us and experience a transformed way to learning "

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4 Gaps That We Fill for You

1 Learn From Your Idols

- **Learn from Your Idols Currently Working At Your Dream Jobs**

  You are already getting trained by top quality college professors, now time to cover the gap between theory and actual industry work. Get trained by professionals working at your dream jobs, get inspired, get guided, and get ready to reach your dreams.

- **Interactive-Live Classes**

  90% of the students never finish the online courses they enroll in. Get ready of an entirely different experience, where you learn while interacting with your mentors in a motivational environment where you can't wait for the next session. Get Inspired! Get Going!

2 Certifications

- **Course Completion Certificate & Project completion certificate in collaboration with E-Cell IIT Indore**

  At the end of course you will get some time to submit your project report. After submission of your project report you will get a course completion certificate and project completion certificate in collaboration with E-Cell IIT Indore.

- **Internship certificate from our partnered companies :**

  We have some of our partnered Companies like Datex, Corevo, Smart swift Innovation etc which operates in different type of technologies. You will get a chance to work on some live-projects from these companies and after the completion of project and submission of project report; you will be awarded with an internship certificate from these companies.

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Experience Working on Live Industry Level Projects

• 4 Live Industry Level Projects

There is a humongous difference between learning from your classroom, books, notes vs. having industry experience where you know the current industry demands and are an expert at fulfilling those demands.

At InternsForge we make sure that your learning runs parallel to the applications of your learning, i.e right from the start till the end you are consistently applying everything you are learning in form of 4 main projects that are going on in the current industry

• Projects Assigned and Guided by Industrial Mentors

Since the purpose of this program is to get you industry ready. You will be assigned projects through your mentors who are working in the industry. You get to work on the projects that are highest in demand as per the industry requirements of the time you are taking the course.

You get consistent guidance from your mentors with additional doubt clearing sessions as per your demand for the smooth running of your projects.

ROADMAP

Orientation Session

Within the first week of initial payment you will have your first orientation session where you will get an in-depth introduction to our process.
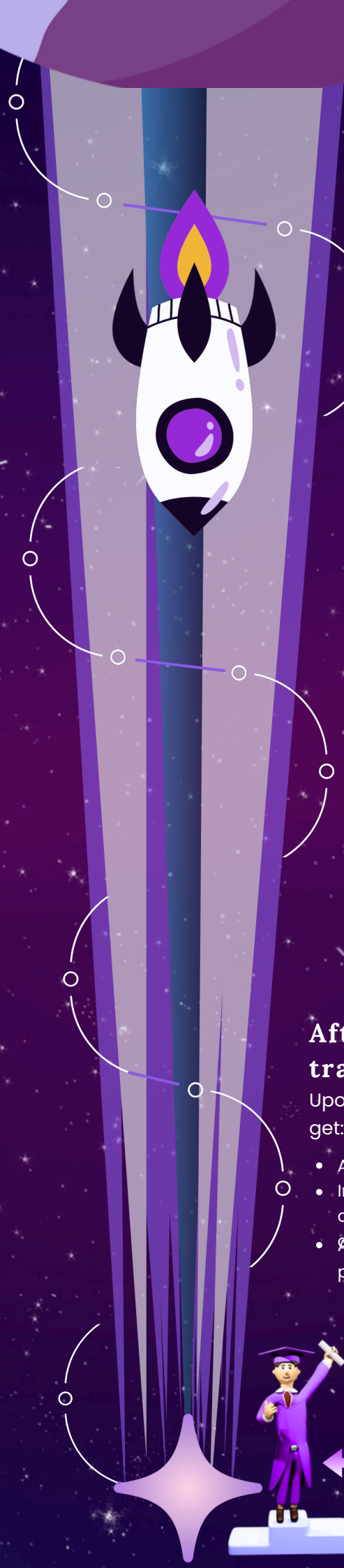
Introduction Webinar

Between 20 to 25th of the month, you will have your introduction webinar where you will get expert insights on the scope of the subject and your growth graph with the selected career.

2 Months of Intensive Training

Then we will start your 25+ hrs of intensive training. Where we make sure you are industry-ready.

During 2 Months of Intensive Training

During your training the following will be covered:

- 25+ hrs of interactive-live sessions with industry experts
- 2 Industry Level Projects

After Completion of training:

Upon submission of project report You will get:

- A course completion certificate from
- InternsForge A project completion certificate from InternsForge in collaboration with E-cell of IIT Indore
- An Internship certificate from our partnered companies

"The best version of you all set to conquer your Dreams"

Curriculum

MODULE 1

Introduction to Internet of Things :

- M2M towards IoT-the global context
- IoT Products by Indian Companies

MODULE 2

Hardware Layer -Arduino :

- Industrial Internet of Things
- Getting started with ArduinoUno R3
- Switch Interfacing with Arduino

MODULE 3

Hardware Layer –Sensor Interfacing :

- Introduction to basic sensors
- Sensor 1: Working & Interfacing of IR Proximity Sensor
- Sensor 2: DHT11 Interfacing, working principle

Curriculum

Introduction to NodeMCU& Device Data/ Control :

- *Arduino–OpensourceHardware Platform*
- *Pin Configuration and functionalities*
- *Accessing UI in a local network*

Network Layer –Wireless Communication Protocols :

- *IPv4 VsIPv6*
- *Introduction to 6LowPAN*
- *IoTPhysical Layer Protocols -Bluetooth/ WiFi/ LoRAWAN/ NFC*

IoT Application Layer Protocol :

- *IoT Application Layer Protocols -HTTP/ MQTT/ XMPP/ CoAP/ AMQP/*
- *WebSockets*
- *Publishing data to the broker*

Curriculum

Python Programming :
- *Getting started with Python Variables, and Data Structure*

Introduction to MQTT, Basic MQTT concepts, Working with online MQTT Brokers

replace Raspberrypi with ESP8266

Curriculum

MODULE 10

- *Using MQTT broker for:*
- *Controlling actuators connected to one NodeMCU based on data from another NodeMCU.*
- *Wireless sensor network using multiple NodeMCUs.*
- *Node to Node talk*

MODULE 11

Webserver with ESP8266 websockets

MODULE 12

- *Introduction to anaconda prompt,*
- *MQTT from command prompt and anaconda prompt*
- *IoT with CLI commands*

Curriculum

MODULE 13

Introduction to LPWAN :

- **Communication technology: Wired and wireless Internet of Things: Different wireless technologies**
- **Low Power Wide Area Network (LPWAN)**

MODULE 14

Industrial IoT :

- **Industrial Internet of Things**
- **Smart Factory Concept**
- **Automation to Digitalization**

MODULE 15

THANK YOU

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