

IOT & EMBEDDED SYSTEMS

Certification Course

**READY TO TRANSFORM
YOUR CAREER?**

3 Months



In Collaboration With

About

THE IOT ACADEMY

The IoT Academy, established in 2017 is a fast emerging company imparting quality programs for skills training, internship and guidance in cutting edge technologies like **Data Science, Machine Learning, Artificial Intelligence, Internet of Things, Embedded Systems & many more** and focused on helping people develop the skills they need to thrive in the rapidly growing digital economy.

The IoT Academy has collaborated with various premier institutes e.g. **E&ICT Academy, IIT-Guwahati, IIT-Roorkee and IIT-Kanpur** for **Advance Certification courses** to take provide outcome-centric solutions to help them achieve their professional goals.

400+
Hiring Partners

45000+
Learners

8+ Years
Of excellence

81%
Salary Hike

91%
Happy Outcomes

Quality education and career opportunities shouldn't come at a high cost. While many ed-tech companies prioritize profits, **The IoT Academy** is committed to transforming students' lives. We make premium professional education accessible to the masses at just 10% of the market cost.



AWARDS & RECOGNITIONS



AWARDS & RECOGNITIONS



Our **ADVANCED LEARNING LABS**

Where Innovation Meets Hands-On Learning

Step into our modern lab facilities designed to turn your ideas into reality. Our well-equipped labs provide everything you need to master IoT and embedded systems through practical, hands-on experience.

What Makes Our Labs Special

Our labs bridge the gap between theory and practice. Every student gets access to industry-standard equipment and personalized guidance to build real-world projects with confidence.

Learn by Doing

Our "hands-on first" approach means you'll build, test, and troubleshoot real devices from day one. Work on your own projects beyond class hours with 24/7 lab access and peer collaboration.



FACULTY DEVELOPMENT PROGRAMS (FDPS)



- Conducted multiple intensive workshops for college faculty on AI-driven signal processing techniques.
- Delivered hands-on training using Edge Impulse, Python, and Hugging Face to build and deploy real-world AI models.
- Empowered educators to seamlessly integrate advanced AI/ML algorithms into their teaching and research.

INDUSTRIAL VISITS FOR STUDENTS

- Organized immersive visits to leading IoT manufacturing facilities and smart-factory labs.
- Enabled learners to observe real-world deployment of embedded systems, edge computing, and sensor networks.
- Fostered practical insights through direct interaction with industry engineers and live project demonstrations.



WHY THE IOT ACADEMY IS THE RIGHT CHOICE FOR YOU?

Climb the Mountain of Success with The IoT Academy

Just like climbing a mountain requires the right guide, equipment, and path - your digital marketing career needs the right mentor, tools, and learning approach. The IoT Academy provides everything you need for this transformational journey.

Your Journey to Digital Marketing Success Starts Here

Strategic Noida Location

Latest AI Tools & Technology

Industry Partnership & Recognition

Small Batch Personal Attention

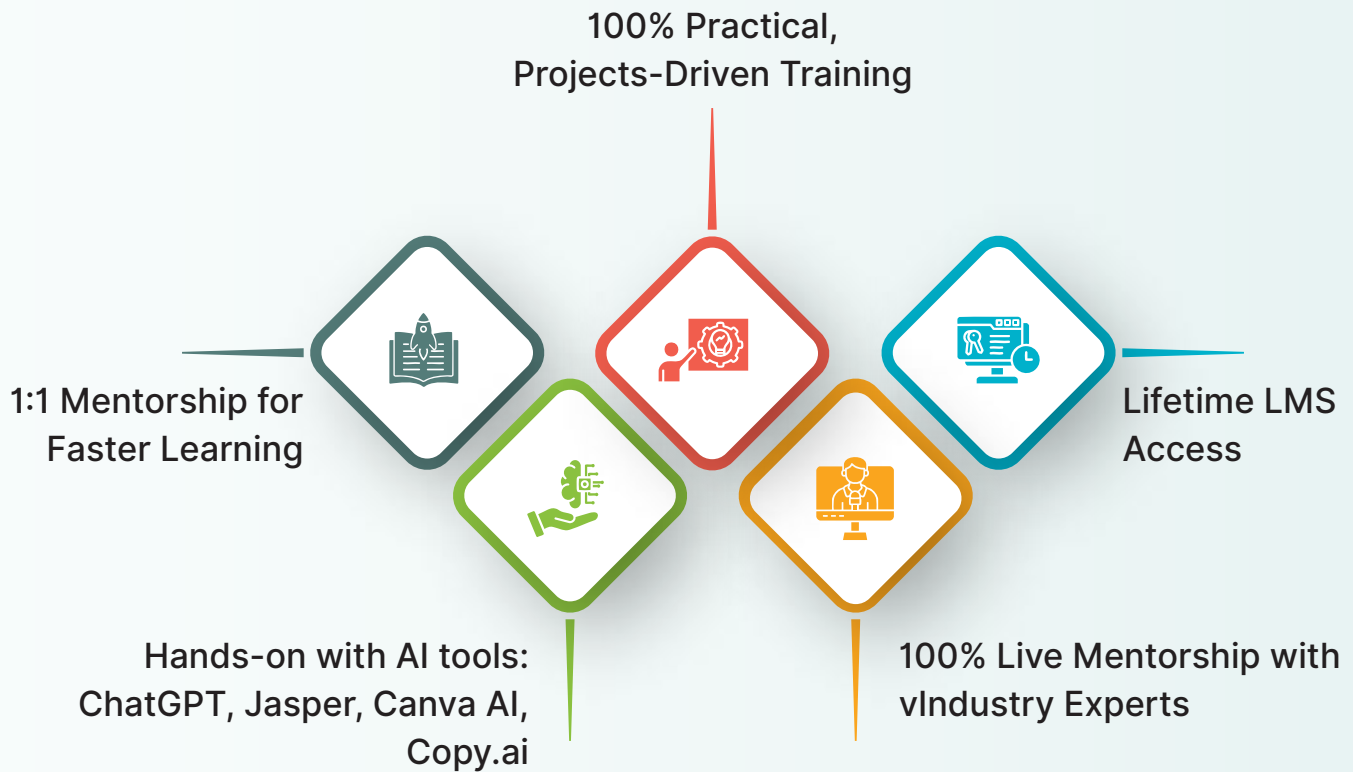
Most Affordable Premium Education

Proven Track Record

Founded by IIT Alumni Excellence



PROGRAM HIGHLIGHTS



PLACEMENTS & HIRING



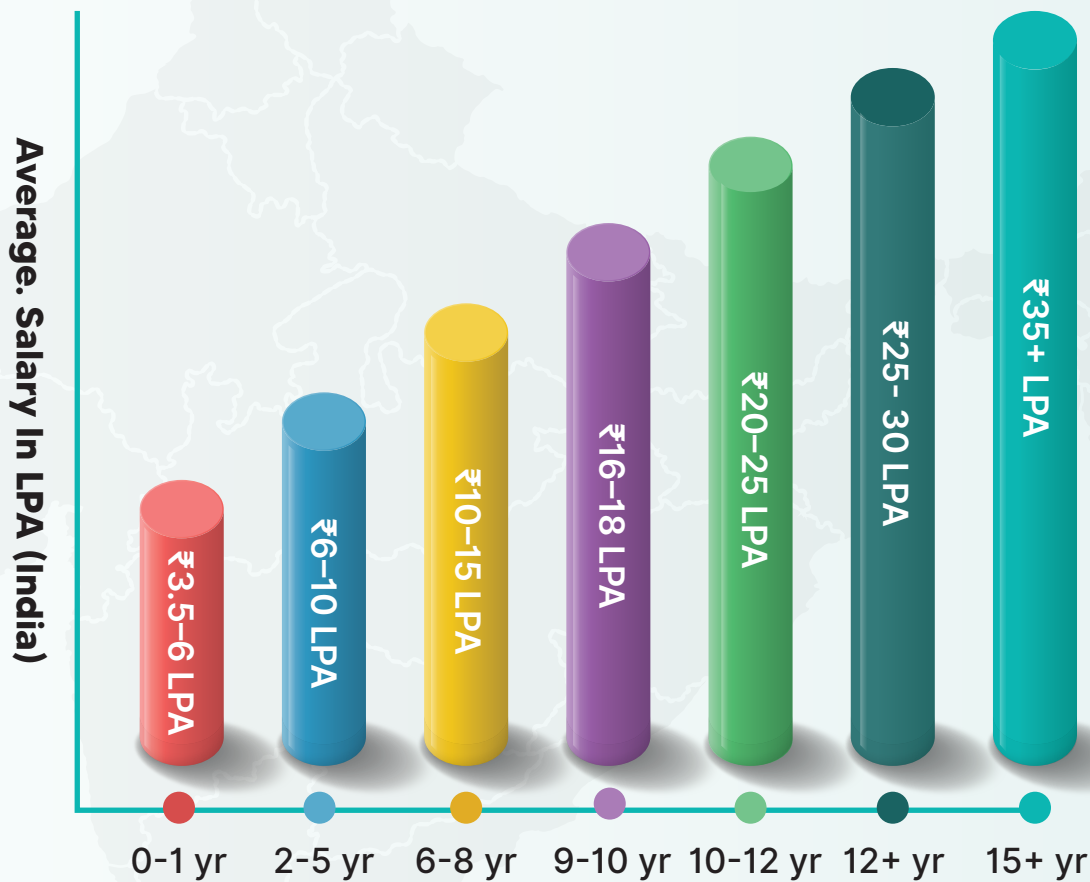
WHO SHOULD JOIN THIS PROGRAM?

- ▶ Engineering students seeking cutting-edge tech skills.
- ▶ Software developers wanting hardware integration knowledge.
- ▶ Electronics enthusiasts ready to build smart devices.
- ▶ Professionals aiming for IoT leadership roles.
- ▶ Basic programming knowledge is helpful but not mandatory.



CAREER ROLES

SALARIES



- Embedded Systems Engineer
- IoT Embedded Developer
- IoT Application Developer
- Embedded Linux Engineer
- Technical Lead (Embedded/IoT)
- Embedded Software Engineer
- PCB Design Engineer
- Systems Engineer
- R&D Engineer (Embedded/IoT)
- IoT Engineer

Why Learn **EMBEDDED SYSTEMS** **& IoT**

- ▶ **High Demand:** Over 30 million connected IoT devices by 2026.
- ▶ **Wide Opportunities:** Manufacturing, automotive, healthcare, smart homes, agriculture.
- ▶ **Growing Importance:** Every industry needs smart, connected products.
- ▶ **Problem Solving + Creativity:** Design, build, and deploy real-world systems.
- ▶ **Edge Advantage:** Develop low-latency, reliable solutions on resource-constrained hardware.



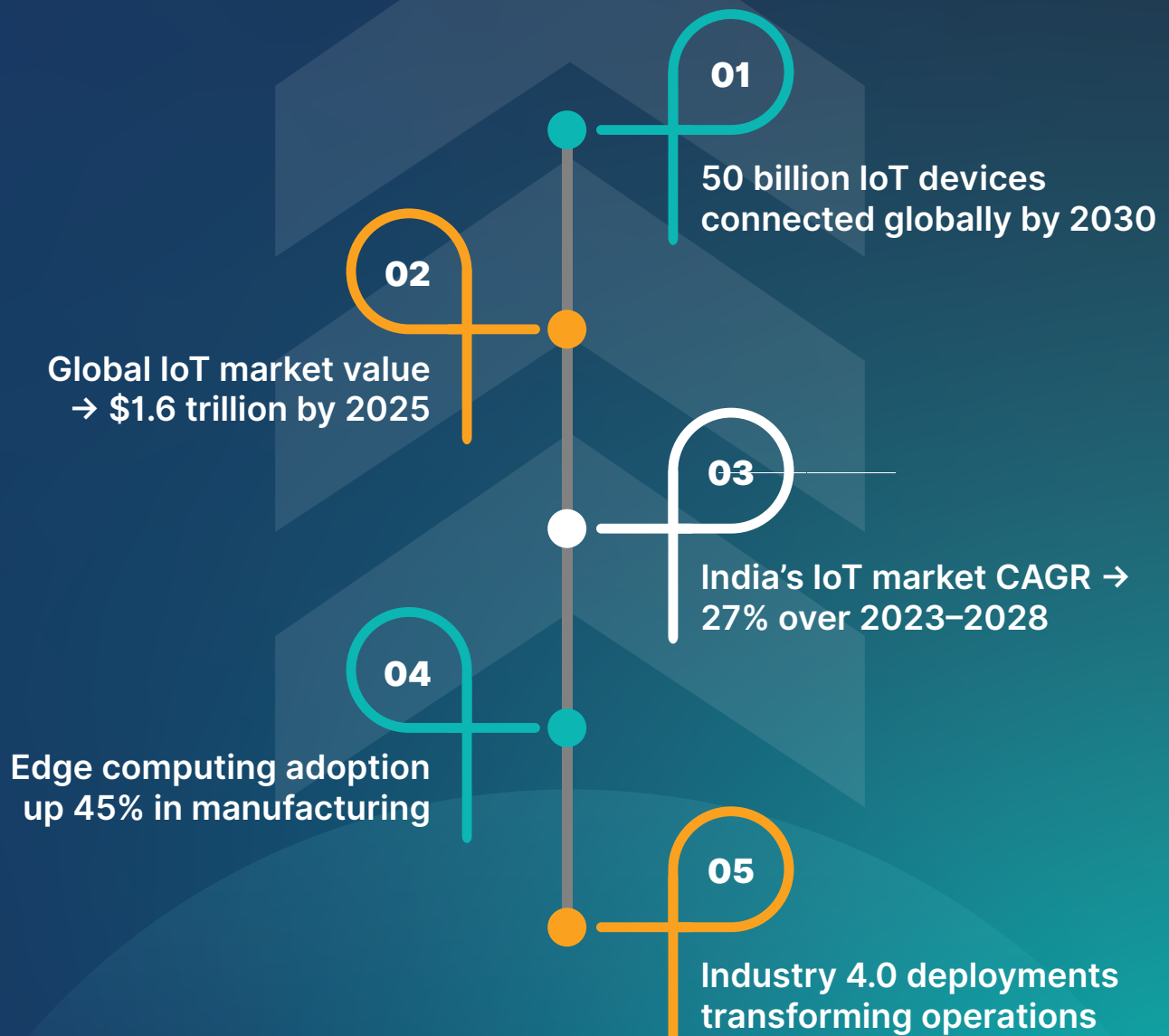
CAREER TRAJECTORY

Experience Level	Average Salary (India)
(0–2 yr)	₹3.5–6 LPA
(2–4 yr)	₹6–10 LPA
(5–7 yr)	₹10–15 LPA
(8+)	₹16–18 LPA
(12+ yr)	₹25–30 LPA



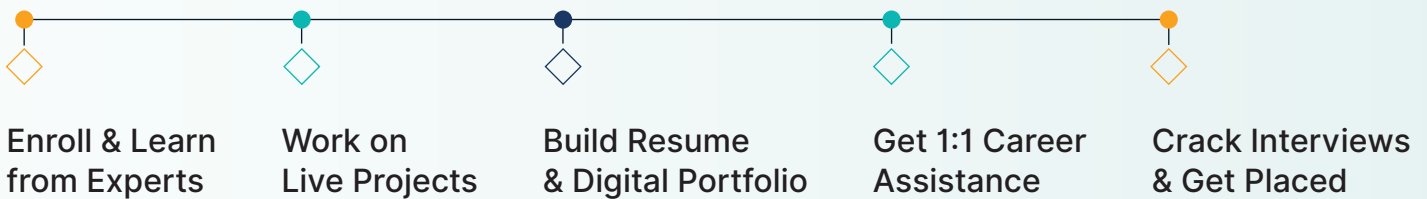
**START CAREER WITH
DIGITAL MARKETING
COURSE**

WHY EMBEDDED SYSTEMS & IOT THE MARKET OPPORTUNITY

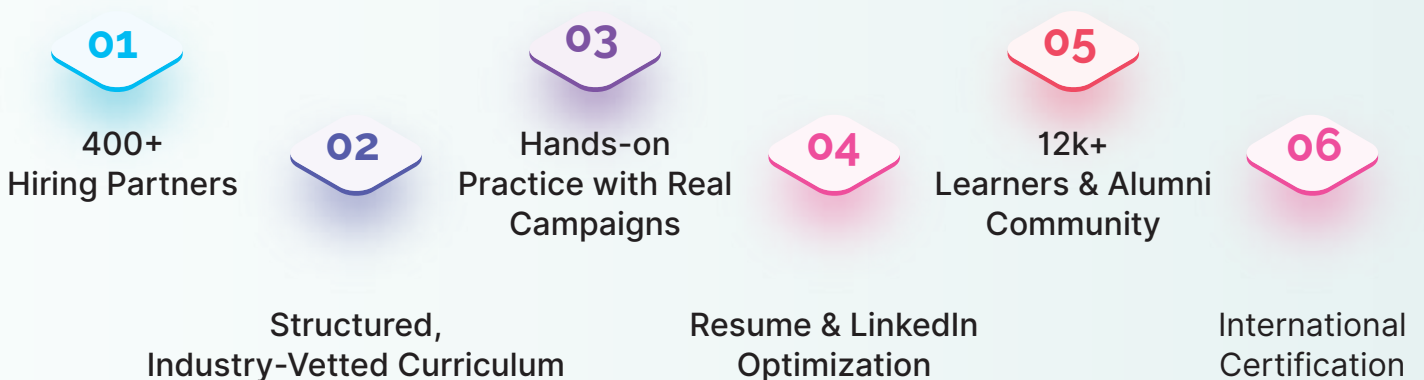


Professionals with Embedded & IoT expertise earn
25% higher salaries

HOW WE MAKE YOU JOB READY



THE IOT ACADEMY EDGE



PLACEMENT SUPPORT

WE

400+ Hiring Partner Opportunities

Access a vast network of 910+ hiring partners, giving you more chances to land interviews and secure your dream job.

Company-wise Interview Questions

Practice with real interview questions from leading companies to boost confidence and improve your selection chances.

Resume, LinkedIn & Portfolio Building

Get expert guidance to create a powerful resume, optimize LinkedIn, and build a portfolio that highlights your skills to employers.

Alumni Referral Network

Leverage our alumni working in top companies to get trusted referrals and unlock hidden job opportunities.



WANT YOU

THE IOT ACADEMY

OTHERS

Factors	The IoT Academy	Other Institutes
Founder Background	IIT Alumni	Varied
Batch Size	10-15 students	50-100 students
Fee Structure	₹29,499 (with EMI)	₹50,000-₹80,000
AI Tools Training	Comprehensive	Limited/None
1:1 Mentorship	Daily sessions	Group sessions only
Placement Rate	70% salary hike	30-50% average
Industry Partnerships	IIT Collaboration	Limited
Live Projects	Real client work	Simulated projects

Why Students **CHOOSE US OVER COMPETITORS**



Hemant Raj

Placed in



The IoT Academy's Embedded System course was a game-changer for me! The hands-on projects helped me understand complex concepts easily. I feel confident in my skills now and ready for a career in IoT!



Dharmendra

Placed in



I loved the Embedded System certification course! The instructors were knowledgeable and supportive. The practical experience I gained was invaluable. I highly recommend this course to anyone looking to enter the IoT field!



Ritik Verma

Placed in



Completing the Embedded System course at The IoT Academy was an amazing experience. The curriculum was well-structured, and I learned so much. I now have the skills to pursue my dream job in technology!





SUPPORT CAREER GUIDANCE

Discover Strengths & Interests

Every learner has unique talents, skills, and passions but many are unsure how to identify and apply them in their career. That's where we step in. Through assessments, mentoring sessions, and hands-on exercises, we help learners discover what they're truly good at and where their genuine interests lie. This self-awareness becomes the foundation for making smarter career choices, ensuring that learners not only land a job but also enjoy long-term growth and satisfaction in their chosen field.

Explore Career Paths


The world of work is full of opportunities, but without proper guidance, learners often feel lost. We provide detailed insights into diverse industries, in-demand roles, and future career trends, helping learners explore multiple options before deciding on the right path. By understanding the scope, responsibilities, and growth potential of each career track, learners can confidently pursue the path that matches both their skills and aspirations—leading to meaningful and sustainable career success.

Prepare for Interviews

A strong resume can get you an interview, but it's the preparation that gets you the job. Our structured interview training includes mock sessions, role-specific practice questions, and personalized feedback to polish communication and problem-solving skills. Learners gain confidence in tackling tough questions, handling pressure, and presenting themselves professionally. With this kind of preparation, they enter interviews not just as applicants, but as top contenders ready to impress employers.

Build Professional Portfolios

In today's competitive job market, employers want proof of skills—not just promises. We guide learners in building professional portfolios that showcase real projects, case studies, and achievements. These portfolios act as a visual proof of their abilities, giving them a strong edge over other candidates. Whether it's tech projects, design work, research, or case studies, a well-crafted portfolio makes a lasting impression on recruiters and ensures learners are remembered long after the interview ends.



THE IOT ACADEMY MILESTONES

78%

Average Salary Hike

₹40 LPA

Highest Package

7000+

Success Stories

95%

Placement Rate

400+

Hiring Partners

₹21 LPA

Average CTC



ENROLLMENT PROCESS

Step 1: Free Consultation

- Book a free career counseling session
- Understand your career goals and fit

Step 2: Trial Class

- Attend one free trial class
- Experience our teaching methodology

Step 3: Enrollment

- Choose your batch timing
- Complete admission formalities

Step 4: Begin Learning

- Start your transformation journey
- Access lifetime support system

Next Batch Details:

Batch Start Date: Every Monday

Mode:

Live Online + Offline (Noida Center)

Class Timings:

Weekday Batch: **7:00 PM - 9:00 PM**

Weekend Batch: **10:00 AM - 1:00 PM**

Batch Size:

Limited to 15 students

Result

DRIVEN SYLLABUS CHALLENGE

Embedded Systems & IoT



MODULE 1

Embedded C Programming Foundation

- Recap of Embedded C
- Datatypes
- Array
- Conditional Statements
- Functions / Callback function
- Structures
- Pointers
- Storage classes

MODULE 2

Embedded System Fundamentals & Hardware

- Embedded System
- Basic Concepts
- Sensors/Actuators
- Microcontroller units and Architecture (Arduino)
- Interfaces (serial port, SPI, I2C, UART)
- ADC, Timers, RTC, Interrupts, Polling
- Memory architecture
- Application-driven Selection of Microcontrollers

IoT Architecture & Signal Processing

- IoT Architecture
- Architecture.
- Tech Stack.
- Hardware Development Platforms
- Software Development Platforms
- Communication Protocols
- Power Requirements in IoT
- Cloud, its components and IoT
- Data Streaming and IoT
- Data Store and IoT
- Analytics & Visualization and IoT
- Security
- Signal And Acquisition
- Analog and Digital
- Industrial Terminology
- Live Use Cases
- H/W Components
- Client, Device, Rule, Alarm, Device Data, Event
- Sensor data is being sent to the Cloud platform
- Actuation through BLE
- Visualization through a time dashboard
- How the problem gets solved through big data and visualization

MODULE 4

NODEMCU Development & Practical Implementation

- NODEMCU (ESP8266)
- Install IDE Software
- Introduction to NODEMCU(Esp8266)
- Pinout of NODEMCU
- Programming Of NODEMCU
- Weather monitoring solution
- Automatic street lights

MODULE 5

IoT Protocols & Communication Technologies

- IoT Protocols
- HTTP/REST
- MQTT
- COAP
- AMQP
- WEBSOCKETS
- 6LoWPAN
- Communication
- Introduction to communication architecture - Network protocol stack
- Different protocols
- RF: ZigBee, BlueTooth, BLE, Zwave.
- Communication Channels: GSM/GPRS, WiFi, LoRa & LoRaWAN
- NB-IoT, Comparison between different RF Technologies.
- IPv4 addressing problem for IOT and introduction to IPV6

MODULE 6

NODE-RED Development Platform

- NODE-RED
- Installation of Nodejs,
- Installation of Node-Red,
- Building your first flows
- Basic nodes and flows
- A tour of the core nodes
- The Node-RED programming model
- Dashboards and UI techniques
- Local broker installation,
- Connection between local broker and Node-RED

MODULE 7

Cloud Computing & IoT Platforms

- Cloud Computing
- Cloud Computing
- Benefits of Cloud
- Deployment Models
- AWS-IOT Core/ SageMaker
- Greengrass
- Google IOT Cloud
- Thingspeak
- IBM Bluemix
- AWS
- AZURE
- Google Firebase
- SQL and NoSQL Databases
- Integration with MySQL
- MongoDB
- IoT Cloud Platform: Device Management

MODULE 8

IoT Security, Cloud Services & Industry 4.0

- IoT Security
- Introduction to mbed TLS and SSL
- Importance of IoT applications
- AES encryption
- IoT Cloud Services
- IoT Cloud Architecture
- Services-SAAS-PAAS-IAAS
- Industry 4.0
- Introduction to Industry 4.0
- Road to Industry 4.0

Certifications & Investment

Industry-Recognized Certificates

Upon successful completion, you'll receive:

- The IoT Academy Certificate in Embedded Systems & IoT
- ARM Accredited Engineer (AAE) Certification
- Cisco IoT Fundamentals Certification
- AWS Certified IoT Developer – Specialty
- Raspberry Pi Certified Developer
- EdgeX Foundry Practitioner Certificate

Course Investment & ROI

₹29,499

Total Course Fee

3 Months

EMI Options Available

Upto 30%

Scholarship Available

What's Included:

- 6 months of comprehensive training
- Lifetime LMS access
- 1:1 mentorship sessions
- Hands-on labs & real-world case studies
- Placement assistance
- All certification exam fees are covered
- Tools & hardware kit (worth ₹50,000+)

Average Salary Increase:

70%

(₹4–5 LPA to ₹7–8.5 LPA)

**Course Fee
Recovery Time:
2 months**



READY TO TRANSFORM YOUR CAREER?

DON'T WAIT - THE DIGITAL FUTURE IS NOW!

Join thousands of successful professionals who transformed their careers with The IoT Academy. **Limited seats available.**


BOOK YOUR FREE CONSULTATION TODAY!

The IoT Academy - Where Technology Meets Opportunity
Empowering India's Digital Workforce Since 2017

 www.theiotacademy.co

 info@theiotacademy.co

 +91-9354068856

 C-56/12, 3rd Floor, Sector 62,
Noida, Uttar Pradesh 201309

Connect With Us:



THE FUTURE IS NOW