# JAVA DEVELOPMENT

## BROCHURE

### Connecting The Unconnected

# ABOUT US

We are a fast emerging company imparting quality and affordable programs for colleges and individuals for digital economy skills training, internship and guidance focused on helping people develop the skills they need to thrive in the rapidly growing digital economy.

**The IoT Academy** has made a niche name for itself providing rigorous online/offline training in Data Science, Machine Learning, AI, Python, Java, Internet of Things (IoT), Embedded Systems, Big Data, Data analytics, Industrial IoT, Industry 4.0, Digital marketing, Etc. Based in Delhi NCR since 2017 we have helped 150+ professionals, 600+ students and 100+ faculties across the states get trained, acquire certifications, and upskill their employees.

## MISSION

We aspire to provide learners an edge over the career they choose to stand out amongst today's competitive world through support in training and various academic and industrial collaborations.

## VISION

At IoT Academy We believe that the future is about Unified and Converged technologies as reflected in our mission statement. Every aspect of life will eventually lead in bringing forth a unified world of immense possibilities.

# Our Services
## For Educational Institutes

**05**

**Lab Setup**
We provide hardware and support in lab setup for IoT and LPWAN.

**04**

**Workshop/Seminars**
We conduct workshop and seminars on emerging technologies which are given by industry experts.

**03**

**Faculty Training**
We provide training to faculties of educational institutes under our 'Faculty Development Program' so that they become aware of how new technology is used in industry and they can impart the same knowledge to their students

**02**

**Center of Excellence**
Under our 'Center of Excellence' offering we provide all the services apart from encouraging R&D and entrepreneurship efforts by guiding both faculty and students.

**01**

**Student Training**
We provide training to students on various topics including the emerging technologies which are targeted towards making them more relevant and employable as per the industry.

# Our Services
## For Students

**05**

**Internships**
We provide interships to students where they are able to work in a professional environment and learn a lot.

**04**

**Summer/Winter Training**
Short duration trainings during summer and winter breaks are designed keeping school & college students in mind. Our aim is to give in-depth knowledge to students on a particular topic of their choice within the time frame.

**03**

**Projects**
We help students design and implement projects whether a small one or a big one on any topic within the scope of all the subjects that we provide training for.

**02**

**Training**
We provide training to students on various topics including the emerging technologies which are targeted towards making them more relevant and employable as per the industry.

**01**

**Placements**
Our complete training programs comes with 100% placement guarantee as the courses are designed specifically keeping enhancing skills for jobs in mind.

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# Educational Partners

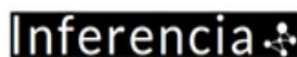| | | | | |
|---|---|---|---|---|
| E&ICT, IIT Kanpur | E&ICT, IIT Guwahati | E&ICT, IIT Roorkee | NIT Patna | ASTU University |
| J.S.S. Noida | IPEC | BVM Engineering College | BVP Pune | Jamia Hamdard |
| ITS Ghaziabad | VSSUT Odisha | JIIT Noida | JNTU Hyderabad | VIGNAN'S |

# Corporate Partners

{TECHSOURCE}     Inferencia     Embedded Artists

DrillMaps     fusionsoft     IoT ACADEMY Connecting THE Unconnected

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# Our Placements

## Congratulations!

To our students who have worked so hard to be placed within the Top Companies.

**Prakhar Maheshwari**
Capgemini

**Saumya Singh**
Bosch

**Anjuli Agarwal**
TCS

**Yogesh Mishra**
UniConverge Technologies

**Tanu Chinwan**
Capgemini

**Raghav Aggarwal**
Aerogram

**Vaishali Singh**
eWandzDigital Services

**Ayush**
TCS

# Our Certification



**The IoT Academy**

## The IoT Academy Trainees are working at

# The IoT Academy
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# Course Curriculum

## 01 CORE JAVA–MODULE 1

- Introduction To Java
- Language Fundamentals
- Operators & Expressions
- Flow of Control
- Modifiers, Encapsulation and Sub-Classing
- Polymorphism and Inheritance
- Abstract Classes
- Interfaces and Multiple Inheritance
- Exception Handling
- String Processing
- Generics and Collections
- Multi-Threading In Java
- Garbage Collection
- Overview of JDBC with MySQL
- Additional Concepts
- The JVM Architecture
- About MySQL & Its Features
- DDL Statements
- DML Statements
- CRUD Operations

  **MY SQL QUERIES**
  - About MySQL & Its Features
  - DDL Statements
  - DML Statements
  - CRUD Operations

  **Project**
  - One Console Project

## 02 Advanced CORE JAVA–MODULE 2

- JDBC
- Overview of Web Technologies
- HTTP Protocol
- Java Servlets
- Filters
- Web Security
- JSP
- JSTL

  **Project**
  - One Console Project

## 03 HIBERNATE-MODULE 3

- **Architecture of Hibernate**

- Hibernate Architecture
- Installation and Directory Structure
- Hibernate Data Types

- **Building A Hibernate Application**

- Building First Application using Hibernate
- Hibernate API
- Create-Read-Update-Delete(CRUD) Operations
- Primary Key Generators

- **HQL & Criteria Queries**

- Hibernate Query Language(HQL)
- Native SQL
- Criteria API
- Inheritance in Hibernate

- **Spring-Hibernate Integration**

- Relations
- Caching
- Connecting with Multiple Databases
- Integrating Hibernate with Servlets and Spring
- Hibernate Annotations

## 04 SPRING-MODULE 4

- **SPRING BASICS**
- What is Spring Framework?
- Inversion of Control
- Dependency Injection
- Bean Factory
- Developing First Spring Application
- Spring Container
- Built-In Bean Factories
- Application Context & Wiring Beans
- Bean Lifecycle In Container
- Spring Events
- **AOP IN SPRING**
- Introduction To AOP
- Role of AOP in Spring
- AOP Advice
- AOP Pointcuts
- Spring AOP Introductions
- **DATA ACCESS IN SPRING**
- JDBC Abstraction Layer
- Data Access Exceptions
- DAO Support
- **ORM IN SPRING**
- What is O-R Mapping
- O-R Mapping support in Spring
- Hibernate Support/Mapping
- Web MVC Architecture
- Role of Dispatcher Servlet
- Controller
- Handler
- View Resolving
- Data Binding
- File Upload Support
- Spring Security

# Flexible Batch Timings

## Classroom Training

**Weekday Batch**
MON - THU

**Duration**
4-5 Months

**Weekend Batch**
SAT & SUN

## Interested?

Get a Free Demo Session

**Book Now**

# Thank You!

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