



Android Application Development

4 Weeks / 30 Hours

Offline/ Classroom

Internship & Training Program

Delhi-NCR | Lucknow | Bhubaneswar | Bhopal | Varanasi

Official Partner



EISYSTEMS TECHNOLOGIES

FF-113, Express Greens Plaza, Sector 1

Vaishali, Ghaziabad (Delhi NCR), Uttar Pradesh -201010

P: +91 9773976977 | E: info@eisystems.in | W: www.eisystems.in

Internship & Training Program

About EISystems

EISystems Technologies is a leading Indian technology identity with operations in 16 states and union territories of India. EISystems (We call it EISys) offers trainings in Machine Learning, Internet of things, Deep Learning, Computer Forensics, Automobiles, Robotics and Socialmedia related solutions for enterprises and student community. Our online edtech domain "Robokwik" have been in among top self learning products provider brands in India. We have trained about 70000 students and impacted around 2 lakhs students through our various outreach initiatives since our founding.

Our Clientele

Some of the colleges where we had already felt our presence are given below:-

Indian Institute of Science, Bangalore
Indian Institute of Technology, Bombay
Indian Institute of Technology, Delhi
Indian Institute of Technology, Madras
Indian Institute of Technology, Kanpur
Indian Institute of Technology, Roorkee
Indian Institute of Technology, Guwahati
Indian Institute of Technology (Banaras Hindu University), Varanasi
Indian Institute of Technology, Indore
Indian Institute of Technology, Bhubaneswar
Indian Institute of Technology, Jodhpur
Indian Institute of Technology, Hyderabad
National Institute of Technology, Tiruchirappalli
National Institute of Technology, Warangal
National Institute of Technology, Calicut
National Institute of Technology, Patna
National Institute of Technology, Jalandhar
National Institute of Technology, Jaipur
National Institute of Technology, Durgapur
National Institute of Technology, Surat
National Institute of Technology, Allahabad
Indian Institute of Information Technology, Allahabad
ABV- Indian Institute of Information Technology & Management, Gwalior
College of Engineering Guindy,
Anna University, Chennai
PSG College of Technology, Coimbatore
JNTUH College of Engineering, Hyderabad

and more than 100 other engineering colleges.

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Prerequisites

Participants from 1st year/ 2nd year / 3rd year / 4th year of CSE/IT/MCA/BCA/BSc IT/ECE branch will get more benefited after joining this program.

What to bring during training program?

Here's the checklist

1. Fully charged laptop with Microsoft Windows configuration.
2. Laptop Charger/ Adapter
3. USB Mouse for designing purpose.

What we are expecting for COVID19 prevention?

During visit at our center we expect students / interns :-

1. To wear facemask during training session enough to cover mouth & nose.
2. To have a bottle of sanitizer all the time.
3. To come with a bottle of drinking water with enough water as it will not be provided at center.
4. To use Aarogya Setu app otherwise entry will not be allowed.
5. Not to use or atleast discourage using of washroom at center.
6. To follow social distancing norms and follow all government guidelines regarding COVID19 prevention.

Training Deliverables

Every participant will get all under mentioned deliverables

1. 30 hours classroom training by specialized trainer.
2. Certificate of Internship with project mentioning on it.
3. EISystems Access ID Card & Stylish Storage Folder
4. Notepad & Pen

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Course & Content

All of the sessions will be practical oriented, so it will be really great if participant(s) can look on the syllabus which we are going to cover during training days.

Session #1

Introduction to JAVA

- Introduction to Programming
- Algorithms & Flowcharts
- Object Oriented Programming
- Starting with JAVA
- Basic Syntax & Practices in JAVA
- JAVA for Android Application Development

Session #2

Introduction to Android Development

What you will learn:

1. Android Installation
2. Android Architecture
3. Android Marshmallow 6.0 – Features
4. Creating Android Hello World Project in Android Studio

Session #3

Overview on Activity, Intent, Layouts and Controls

What you will learn:

1. Android Activity Lifecycle
2. Intents
3. Pass and launch Activities
4. Process of saving data using ActionBar
5. Define Layout and List Various Menu
6. Input Controls, Dialogs, Toast Messages and Settings.

Session #4

Services and Broadcast Receivers

What you will learn:

1. Different types of Service
2. Bound Service
3. Demonstration to create Bound Service
4. Lifecycle of Bound Service
BroadCastReceiver with Demonstration

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Session #5

UI and Fragments

What you will learn:

1. Fragment in Android Application
2. Dynamic UI with Fragments
3. Manage Task and Back Stack

Session #6

Content Providers

What you will learn:

1. Basic of Content Providers
2. Process of creating content Provider
3. Calendars and ContactProvider

Session #7

Locations and Sensors

What you will learn:

1. Learn to retrieve current location
2. Apply Map with Location
3. Sensors and list the different types

Session #8

Multimedia : Audio, Video and Camera

What you will learn:

1. Explain Media Playback and Media Router
2. Camera Features for Android Application

Session #9

Introduction to Google Play

What you will learn:

1. Google Play and norms to upload your application
2. Checklist to upload your application in Google Play

Session #10

Network Operations

What you will learn:

1. Connecting to Network
2. Managing Network Usage
3. Parsing XML data

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Session #11

Volley for Network Data Interaction

What you will learn:

1. Sending Simple request
2. Setting up request queues
3. Making Standard Request
4. Implementing custom requests

Session #12

Fabric Plugins for Twitter and Digits Login

What you will learn:

1. Integrating Twitter Login Button
2. Integrating Digits Button for Mobile Verification
3. Building Crashlytics Reports
4. Monetizing your application with MoPub

Session #13

Best Practices for User Interfaces

What you will learn:

1. Integrating Twitter Login Button
2. Integrating Digits Button for Mobile Verification
3. Building Crashlytics Reports
Monetizing your application with MoPub

Session #14

Creating Wearable Apps

What you will learn:

1. Creating and executing Wearable App
2. Ergonomics and Design Principal of Android Wear

Custom UI for Wearable Apps

What you will learn:

1. Creating Custom UI
2. Defining Layout
3. Creating Cards
4. Creating Lists
5. Showing confirmation
6. Exiting full Screens

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Session #15

Wearable Features

What you will learn:

1. Adding Wearable features to Notification
2. Creating Wearable Apps

Data Syncing

What you will learn:

1. Integrating Twitter Login Button
2. Integrating Digits Button for Mobile Verification
3. Building Crashlytics Reports
4. Monetizing your application with MoPub

Session #16

Watch Faces

What you will learn:

1. Design Watch Faces
2. Building a Watch face services
3. Drawing Watch Faces
4. Showing Information in Faces
5. Creating Interactive watch faces
6. Battery Optimization

Location aware Wearable Apps

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Updation & Duration of Course

The course (given above) is a proposed structure and we are currently working to update it considering industry requirements, we may add / delete / modify sessions in it without any prior notification. The internship program is divided into two parts i.e. training period (2 weeks) and project period(2 weeks) however total duration of program will remain 4 weeks only.

Disclaimer

A session doesn't necessarily depict the day count or the day on which it is going to be covered, we may cover more than or lesser than one session in a day and even alter/amend the schedule by rearranging of session(s) by removing/adding anything from/to overall course, the course structure may differ center wise, Also this is to notify that Eisystems Technologies is nowhere specifying that center in Varanasi will be IIT (BHU) Varanasi campus, our center in Varanasi is different. Fees once paid will not be refunded, Please check our refund policy given on website before proceeding for payment. It is important to note that IIT (BHU) Varanasi or any of its body is not charging anything for this training program and whatever amount which you will be paying will either go to Eisystems Technologies or its associates or both.

COVID-19 Policy

No amount will be refunded in case of non conduction of program due to government guidelines for COVID-19 prevention and instead remaining / all sessions will be conducted online through mentor led training however we will also give flexibility to students/ attendee to continue the remaining session when things normalize at other center.

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