



## Android Application Development

4-6-8 Weeks / 30 Hours

Job oriented exhaustive program

### Online Internship & Training Program

LIVE ONLINE TRAINING WITH PROJECT

Official Partner



**EISYSTEMS SERVICES**

FF-113, Express Greens Plaza, Sector 1

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

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## About EISystems

EISystems Services 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  
PDP- Indian Institute of Information Technology & Management, Jabalpur  
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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## Internship & Training Program

### Prerequisites

Participants from CSE/IT/MCA/BCA/BSc IT/ECE/EEE/EN background are eligible to join this program. This is a basic level program.

### Other Requirements

We expect participant to have

1. A laptop with Microsoft Windows configuration & Smartphone.
2. Laptop Charger/ Adapter for charging purpose.
3. USB Mouse for designing purpose (if required).
4. A high bandwidth Internet Connectivity.

### Post Training Deliverables

Every participant will get all under mentioned deliverables

1. 30 hours online live training by specialized trainer.
2. Certificate of Internship from Eisystems Services & Technex IIT (BHU) Varanasi.
3. Guidance for Entrepreneurship in chosen field or employment support (if asked).
4. Chance to assist our trainer in our workshop(s) at IISc, IITs, NITs etc.

## Course & Content

All of the sessions will be practical oriented, kindly 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  
Android Installation  
Android Architecture  
Android Marshmallow 6.0 – Features  
Creating Android Hello World Project in Android Studio

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### Session 3

- Overview on Activity, Intent, Layouts and Controls
- Android Activity Lifecycle
- Intents
- Pass and launch Activities
- Process of saving data using ActionBar
- Define Layout and List Various Menu
- Input Controls, Dialogs, Toast Messages and Settings.

### Session 4

- Services and Broadcast Receivers
- Different types of Service
- Bound Service
- Demonstration to create Bound Service
- Lifecycle of Bound Service
- BroadCastReceiver with Demonstration

### Session 5

- UI and Fragments
- Fragment in Android Application
- Dynamic UI with Fragments
- Manage Task and Back Stack

### Session 6

- Content Providers
- Basic of Content Providers
- Process of creating content Provider
- Calendars and ContactProvider

### Session 7

- Locations and Sensors
- Learn to retrieve current location
- Apply Map with Location
- Sensors and list the different types

### Session 8

- Multimedia : Audio, Video and Camera
- Explain Media Playback and Media Router
- Camera Features for Android Application

### Session 9

- Introduction to Google Play
- Google Play and norms to upload your application
- Checklist to upload your application in Google Play

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**Session 10**

Network Operations  
Connecting to Network  
Managing Network Usage  
Parsing XML data

**Session 11**

Volley for Network Data Interaction  
Sending Simple request  
Setting up request queues  
Making Standard Request  
Implementing custom requests

**Session 12**

Fabric Plugins for Twitter and Digits Login  
Integrating Twitter Login Button  
Integrating Digits Button for Mobile Verification  
Building Crashlytics Reports  
Monetizing your application with MoPub

**Session 13**

Best Practices for User Interfaces  
Integrating Twitter Login Button  
Integrating Digits Button for Mobile Verification  
Building Crashlytics Reports  
Monetizing your application with MoPub

**Session 14**

Creating Wearable Apps  
Creating and executing Wearable App  
Ergonomics and Design Principal of Android Wear

Custom UI for Wearable Apps  
Creating Custom UI  
Defining Layout  
Creating Cards  
Creating Lists  
Showing confirmation  
Exiting full Screens

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## Internship & Training Program

### Session 15

- Wearable Features
- Adding Wearable features to Notification
- Creating Wearable Apps
- Data Syncing
- Integrating Twitter Login Button
- Integrating Digits Button for Mobile Verification
- Building Crashlytics Reports
- Monetizing your application with MoPub

### Session 16

- Watch Faces
- Design Watch Faces
- Building a Watch face services
- Drawing Watch Faces
- Showing Information in Faces
- Creating Interactive watch faces
- Battery Optimization

#### Disclaimer

Please make sure that IIT (BHU) Varanasi is nowhere charging any amount from any participant and this training/internship will be organized by EISystems Services in association with Technex, an annual techno-management festival of IIT BHU Varanasi, it is to note that Technex is only responsible for providing certification to attending students and rest of the matters like marketing, operations, publicity, scheduling, payment processing, content development etc. will be taken care by EISystems Services.

All of the matters/disputes related to internship/training needs to be addressed to EISystems Services only. See our terms and conditions on [www.eisystems.in/tnc.php](http://www.eisystems.in/tnc.php) and fees once paid is non refundable and non transferrable. Company reserves full right to withdraw any offer anytime without any prior notification, Also it is important to understand that center of internship in Varanasi will not be IIT (BHU) Varanasi and it will be at some other place in Varanasi itself.

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