



THE ANNUAL TECHNO-MANAGEMENT FEST, IIT (BHU) VARANASI

TECHNEX'19

Internship & Training Program



Android Application Development with Java

2 Weeks / 32 Hours

Job oriented exhaustive program

Winter Internship & Training Program

Bengaluru – Bhubaneswar – Bhopal – Lucknow

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EISYSTEMS SERVICES

FF-113, Express Greens Plaza, Sector 1, Vaishali, Ghaziabad
Delhi NCR – 201010 - India

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Internship & Training Program

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 computer forensics, automobiles, robotics and socialmedia related solutions for enterprises and student community. Our retail 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, 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
SRM University

and more than 100 engineering colleges across India.

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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. A laptop with Microsoft Windows configuration.
2. Laptop Charger/ Adapter for charging purpose.
3. USB Mouse for designing purpose.

Post Training Deliverables

Every participant will get all under mentioned deliverables

1. Certificate of Internship from EISystems Services & Technex IIT BHU Varanasi
2. Software Package with booklet for Laptop/Tab.
3. Printed Study Material Booklet
4. Notepad & Stylish Storage Folder
5. Access ID Card

Fees & Discounts

There are multiple type of discount(s) available as mentioned below:-

GROUP BASED DISCOUNTS

Category 1: Group Discount (2 to 7 Members Group)

Installments	Amount
First Installment	Rs. 1000 per participant only
Second Installment	Rs. 4300 per participant only
Total	Rs. 5300 per participant only

INDIVIDUAL BASED DISCOUNTS

Category 2: Single / Individual Entry

Installments	Amount
First Installment	Rs. 1000 per participant only
Second Installment	Rs. 4500 per participant only
Total	Rs. 5500 per participant only

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How to pay Confirmation fees?

The payment of registration fees can be made using undergiven modes:-

Online Mode

Credit Cards / Debit Cards
Net banking
Ola Money
PayTM

To pay fees, kindly check Payment link on Email / Website.

Offline Modes

Direct Bank Deposit in Kotak Mahindra Bank

Step 1: Go to any Kotak Mahindra Bank near you.

Step 2: Fill the Pay-In-Slip with required amount and undergiven account number

Step 3: Deposit the amount in bank account, the details of it are given below:-

Bank Name	:Kotak Mahindra Bank
Account Name	:EISYSTEMS SERVICES
Account Number	:2011117760
IFSC Code	:KKBK0000149
Type	:Current
Branch	:Mathura

Step 4: Take the countersigned Pay-In-Slip from bank counter with valid seal and transaction number and write the name of participants on the back side of it.

Step 5: Scan both sides of Pay-In-Slip and send it to **internship.eisystems@gmail.com** along with information of each attendee on that payment slip like Name, Phone Number, Email Address, Course Name, Center, City.

Step 6: Keep this payment slip with you and we will collect it at the time of registration otherwise we may not consider your registration.

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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

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Session #10

Network Operations

What you will learn:

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

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

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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

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

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 Services is nowhere specifying that center in Varanasi will be IIT BHU campus, our center in Varanasi is different and Technex which is an annual techno entrepreneurship festival of IIT BHU Varanasi is a certification partner for this internship program. Fees once paid will not be refunded except in case of cancellation of training program or as given in terms and conditions.

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