



Event : Workshop
Topic : Android App Development
Resource Person : Mr. Neeraj Kumar Singh , Webtek labs pvt ltd Corporate Trainer, GN-12, 1st Floor, Shivaji Enclave, Rajouri Garden, New Delhi-110027

Schedule : 11.30 am onwards
Date : 29th October 2018
Day : Monday
Venue : MCA Deptt UG Building 4th floor Room no 2405
Faculty In charge : Ms.Sania Kukkar (Assistant Professor), MCA Department
No of Students : 42

Objectives:

1. To understand the basic concepts and technique of developing applications for the Android phone.
2. To understand Java programming as it related to application development for the Android platform.
3. To understand additional resources and security information needed for various types of Android applications features and services (maps, SMS, Email, Mobile App Development etc)



Mr.Neeraj Kumar Singh ,Webtek Labs Pvt.Ltd.New delhi ,
Addressing the Audience



Students Attending the Workshop

Report:

Tecnia Institute of Advanced Studies organized a workshop on 29th October 2018 at MCA Deptt(UG Block, 4th Floor Room no 2405), by Corporate Trainer Mr. Neeraj Kumar Singh Webtek Labs Pvt.Ltd, New delhi for MCA 1st,3rd,5th Sem. The workshop was divided into following modules:

Module 1: Android Basics and Application Fundamentals

- Introduction to Android
- Android Architecture
- Application Components
- Application Architecture



Module 2: Developing Android Application

- Installation
- Introduction
- Managing AVD
- Using Hardware Device
- Managing projects
- Building & Running
- Debugging
- Tools

Module 3: Activities

- Creating an activity
- Starting and Activity
- Managing Activity lifecycle
- Tasks & Backstacks

Module 4: User Interface

- Layouts
- Widgets
- Menus
- Dialogs
- Handling UI Events
- User Notification
- Binding data to Adapter

Module: Manifest & Application Resources

- Manifest & Application permissions
- Manifest Editor
- Application Resources - provisioning and access
- Resource Types



Module 6: Intents & Services

Intents & Broadcast

- Intent Resolution
- Creating Service
- User Notification

Module 7: Data Storage & Content Provider

- Shared preferences
- Internal Storage
- External Storage
- Database
- Network – HTTP
- Content provider basics
- Querying content provider
- Modifying data in content provider
- Creating Content Provider

Module 8: Graphics & Media

- Image View
- Bitmap creation and decoding
- Animation
- Camera
- Media Player
- VideoView

LEARNING OUTCOME:

Students have the following learning:

1. The basic concept of Android applications development, their life cycle, internal structure, and environment.
2. The essential characteristics of tool used for cisco router packet tracer.
3. Enabled the students to independently create new Android Applications



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