



TEERTHANKER MAHAVEER UNIVERSITY, MORADABAD FACULTY OF ENGINEERING & COMPUTING SCIENCES

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Ms. Manveer Kaur

ENGLISH COMMUNICATION & SOFT SKILLS

Dr Sandeep Kumar Verma
Dr Barun Kumar Jha



ANDROID : MOBILE APPS DEVELOPMENT

Mr. Harjinder Singh, 9457580600
Mr Ajay Chakravartiy, 9897844622



PHP Professionals

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Mr Manish Joshi, 9897147852



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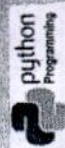


Introduction to ORACLE
11G SQL & VB.NET

Mr Ajay Rastogi, 9897694600
Ms Swati Vishnoi, 9412552978

INTERNET OF THINGS

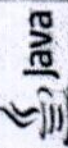
Mr Ajay Rastogi, 9897694600



LET'S PLAY WITH

PYTHON PROGRAMMING

Vineet Saxena, 9719426186
Mr Rupal Gupta, 9927040798
Mr Mohan Vishal Gupta, 9456032866



Java Essential

The Professional Module

Dr Rajeiv Kumar, 9897672215
Mr. Amit Vishnoi, 9528716907

WEBSITE CREATION USING

ANIMATED TOOLS

Ms Shikha Gambhir, 8791563390
Ms Hina Hashmi, 7417240458



CCNA

ROUTING & SWITCHING

Priyank Singh, 9319905957
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android

ANDROID: MOBILE APPS DEVELOPMENT

COURSE CONTENT

Lesson 1. Android introduction and its history

Lesson 2. Android architecture, Android features and Android initializing process

Lesson 3. Activities

- i. Creating activity
- ii. Activity life cycle
- iii. Activity back stack

Lesson 4. Views, View hierarchy, and View groups

- i. Working with Views
- ii. Writing custom views
- iii. Working on view groups

Lesson 5. UI

- i. Layouts
- ii. Menus
 1. Options menu
 2. Context menu
 3. Sub menu
- iii. Dialogs
 1. Alert dialog
 2. Progress dialog
 3. Date picker dialog
 4. Time picker dialog
- iv. Event listeners
- v. Notifications
 1. Toasts
 2. Status bar notifications
- vi. Applying styles and themes to UI
- vii. Adapter views
 1. List views
 2. Gallery
 3. Grid view
- viii. Adapters
 1. Array adapter
 2. Cursor adapter
 3. Image adapter





Lesson 6. An Introduction to Android Fragments

- i. What is a Fragment?
- ii. Creating a Fragment
- iii. Adding a Fragment to an Activity using the Layout XML File
- iv. Adding and Managing Fragments in Code
- v. Handling Fragment Events
- vi. Implementing Fragment Communication

Lesson 7. Services

- i. Services overview
- ii. Service life cycle
- iii. Starting a service (Extending IntentService, Service)
- iv. Binding a service

Lesson 8. Data storage

- i. Shared preferences
- ii. Internal & External storages (Files)
- iii. SQLite Database & Cursor

Lesson 9. Content providers

- i. Content providers over view
- ii. Using existing Android content providers
- iii. Creating own content providers
- iv. Using custom made content providers

Lesson 10. Intents, Intent filters

- i. Overview (Action, Data, category, etc)
- ii. How intent work and writing our own intent
- iii. How intent filter works and writing our own i—f
- iv. Intent resolution tests

Lesson 11. Broadcast receivers

Lesson 12. Alarms manager & Pending intents

- i. Alarm managers with broadcast receivers

Lesson 13. Saving activity states (Seamlessness of application)

Lesson 14. Process & Threads

- i. Process life cycle
- ii. Difference between process, thread, task, application
- iii. Process priorities

Lesson 15. Threads & Async tasks

- i. Threads
 1. UI(Main) thread versus worker thread
 2. Loopers, handlers, and event flow from system
 3. Writing multithreading programs
- ii. Async tasks
 1. Writing threading programs using Async tasks
 2. Updating UI from worker threads

Lesson 16. Securities & permissions

Lesson 17. Services – extended





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- i. Exploring more on binder services
- ii. AIDL

Lesson 18. Android Graphics (2D, Animations)

Lesson 19. Media Framework

- i. How to access image gallery files
- ii. How to access SD card files
- iii. Exploring on other media APIs

Lesson 20. Publish App into Play Store

