



Gyanmanjari Institute of Technology (GMIT)

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Computer / IT Department

Skill Development Program (SDP)



Android Application Module-1

Table of Content

Chapter 1: JAVA Concepts (7-hr)

4-hr

- OOPs Concepts
- Inheritance in detail
- Exception handling
- Packages & interfaces
- Threading (Thread class & Runnable Interface)

Chapter 2: Introduction to Android

2-hr

- What is Android?
- Setting up development environment
- Fundamentals: (overview)
 - a. Basic Building blocks - Activities, Services, Broadcast Receivers & Content providers
 - b. UI Components - Views & notifications
 - c. Components for communication - Intents & Intent Filters
- Android API levels (versions & version names)



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Chapter 3: Application Structure (in detail)

2-hr

- AndroidManifest.xml
- uses-permission & uses-sdk
- Resources & R.java
- Assets
- Layouts & Drawable Resources
- Activities and Activity lifecycle
- First sample Application

Chapter 4: Basic UI design

6-hr

- Form widgets
- Text Fields
- Layouts

Chapter 5: Preferences

3-hr

- Shared Preferences
- Preferences from xml
- Examples

Chapter 6: Intents (in detail)

1-hr

- Explicit Intents
- Implicit intents
- Examples



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Chapter 7: UI design

3-hr

- Time and Date
- Images and media
- Alert Dialogs & Toast
- Examples

Project List:

1. Wake up android
2. Phone Mode Conversion Android Application.
3. E Bridge Android Application.
4. Collage Information System
5. Video library.
6. Feedback System
7. Budget planner.
8. Bluetooth chat.
9. Class management system.
10. Online meal order system.