

**SHRI DOMBIVLI MITRA MANDAL'S  
MATRUSHRI KASHIBEN MOTILAL PATEL SENIOR COLLEGE OF  
COMMERCE & SCIENCE**

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**SIX DAYS HANDS-ON PRACTICE & TRAINING WORKSHOP ON ANDROID  
APP. DEVELOPMENT**

## Syllabus

**Unit I- Introduction to Java and Android.**

- i. Android Stack Introduction
- ii. Installing Android and creating first app on emulator.
- iii. Android architecture and building blocks, Android App building blocks, Android App build process. Java overview- Data types, Loops, Conditionals and Operators, Android UI- Resources, theme, threads etc.
- iv. Debugging in android, Assignments on Java Classes, Objects, Methods, Instances etc., Activities, Receivers, Adapters and Providers, Telephony System Architecture of Android.

**Unit-II**

- I. Introduction to System Programming in Android, Java Interface.
- II. Native library implementation. Building the sample native library, Using native functions in Java Code, Security and Permissions.

**Unit-III**

- I. Developing live App and modules.
- II. Exposure to development on Phones/Tablets/Set Top box.
- III. Developing custom launchers and skins.
- IV. Full Software lifecycle exposure from requirement to market launch.
- V. Applications utilizing location and maps.

**Project :-**

1. Attendance Management System android projects.
2. Women Safety App android projects.
3. Android Calculator App Project.
4. Age Calculator android projects.
5. Expense Tracker Android App.
6. Budget Manager Android App
7. Android Fitness App Project

**\* Note :- Any three project from the above.**