

DMAD-1-03P: Introduction to Android Lab

Total Marks: 50
External Marks: 35
Internal Marks: 15
Credits: 2
Pass Percentage: 40%

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| Course: Introduction to Android Lab | |
| Course Code: DMAD-1-03P | |
| Course Outcomes (COs) | |
| After the completion of this course, the students will be able to: | |
| CO1 | Attain proficiency in Android app development by gaining hands-on experience in designing, coding, and debugging basic Android applications using the Android Studio IDE. |
| CO2 | Develop expertise in designing visually appealing and user-friendly Android user interfaces (UI), applying Android's design principles, layouts, and widgets effectively. |
| CO3 | Learn to integrate and utilize various device features such as camera, sensors, and location services in Android applications, demonstrating the ability to create feature-rich and interactive mobile apps. |
| CO4 | Acquire strong debugging and troubleshooting skills in the Android development environment, including the use of debugging tools and techniques to identify and fix common issues in Android applications. |
| CO5 | Understand the process of deploying Android applications on physical devices or emulators, and gain proficiency in testing and validating the functionality of Android apps on different devices and screen sizes. |

Detailed List of Programs:

| Programme No. | Name of Program |
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| P1 | Create a simple Android app that displays "Hello, World!" on the screen. |
| P2 | Develop a calculator app that performs basic arithmetic operations like addition, subtraction, multiplication, and division. |
| P3 | Design an app that calculates and displays the tip amount based on the entered bill and tip percentage. |
| P4 | Build an app that converts temperatures between Celsius and Fahrenheit. |
| P5 | Create a simple to-do list app that allows users to add, edit, and delete tasks. |
| P6 | Develop an app that displays a list of images and allows users to view them in a larger format. |

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| P7 | Create a flashlight app that turns the device's flashlight on and off. |
| P8 | Design an app that simulates rolling a six-sided die. |
| P9 | Build a Body Mass Index (BMI) calculator app that takes height and weight inputs and calculates the BMI. |
| P10 | Develop a quiz app with multiple-choice questions and provides feedback on the user's answers. |
| P11 | Create an app that converts currencies based on the latest exchange rates. |
| P12 | Build an app that displays a list of contacts and allows users to view details and make calls. |
| P13 | Develop a basic music player app that allows users to play, pause, and skip tracks. |
| P14 | Implement an app that tracks and displays the user's current location using GPS. |
| P15 | Create an app that allows users to take pictures using the device's camera. |
| P16 | Design a simple chat application that allows communication between two devices via Bluetooth. |
| P17 | Build an alarm clock app that allows users to set alarms and receive notifications. |
| P18 | Implement an app that logs data from device sensors, such as accelerometer or gyroscope. |
| P19 | Create an app that recognizes and responds to different touch gestures, such as swipe or pinch. |
| P20 | Build an app that fetches and displays weather information based on the user's location. |