

MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)

Name of Department: CSE & IT

SUMMER INTERNSHIP PROGRAMME 2018

ON

“Android Application Development”

(JUNE 1 – 20, 2018)

Module Name	Android Application Development.	
Module Discipline	CSE & IT	
Module Faculty Coordinators	Prof. Mahesh Parmar	
Module Credit	02	
Pre requisite	• Basic knowledge of C and Operating Systems. • Java experience is required to get the most benefit from this program.	
Maximum numbers of students allowed	30 Students	
Students Workload	Lecture	01 Hour/day for 15 days
	Tutorial	01 Hour/day for 15 days
	Laboratory	02 Hour/day for 15 days
	Total	60 Hours
Module Objective and Competences to be acquired	The Summer internship programme in Android Application Development is a hands-on course which is designed for providing essential skills and experiences to the students in developing applications on mobile platform	
Module Description	• Build and deploy Android application. • Understand the operation of the application, application lifecycle, configuration files, intents, and activities. • Understanding of the UI - components, layouts, event handling, and screen orientation.	
Module Methodology	Lectures supported by tutorial, assignments and laboratory exercises	
Day	Contact Hour(In Hr)	Module Contents
1.	4	Basic Fundamentals of Java Programming. Loop, Array, Classes etc.

2.	4	Interfaces and Packages in java
3.	4	Android Overview and History, Installing Android SDK and Android studio.
4.	4	Creating Android Project Hello World App
5.	4.	Android Activity
6.	4.	Android Intents
7.	4.	Activity Lifecycles, Gradle Overview
8.	4.	Android Layouts
9.	4	Input Controls
10.	4	List Views and SQLite
11.	4	Android Services
12.	4	Content Providers
13.	4	UI and Fragments
14.	4	Multimedia Audio and video & camera
15.	4	Introduction to Google Play
Total	15	60Hr
Module Outcome		• Student able to build your own Android apps • Student able to explain the differences between Android™ and other mobile development environments • Student able to design and develop useful Android™ applications with compelling user interfaces by using, extending, and creating your own layouts and Views and using Menus. • Student able to utilize the power of background services, threads, and notifications.
Assessment / Evaluation & Grading System		Assignments, Tutorial Sheets , laboratory evaluation & Skill test
Registration		Registration is free of cost .Registration is online mode only through link on Institute website <u>The selection is on first come and first serve basis depending upon the availability of the seats.</u>

Dates to Remember Last date of online registration Confirmation of selection by E-mail	To be announced shortly
Address for Communication	Coordinator Name: Prof. Mahesh Parmar Department: CSE & IT Contact No. : 9977825839 Email :maheshparmarcse@gmail.com