



# MANIPAL INSTITUTE OF TECHNOLOGY

Manipal University, Manipal  
Karnataka -576104

## COURSE PLAN

Department : Information and Communication Technology  
Course Name & code : Advanced Technology Lab [ICT:405]  
Semester & branch : VII SEM, B. Tech (IT)  
Name of the faculty : Ms. Chetana Pujari, Mrs. Vibha, Mrs. Sumana A C, Ms Divya Rao  
No of contact hours/week: 3

### ASSESSMENT PLAN:

#### 1. In Semester Assessments - 60 %

Regular Evaluation: Biweekly

Record Book: 4 Marks, Execution: 2 Marks, Viva/Quiz:4 Marks

5 evaluation for 10 marks each=50 Marks, Project Synopsis 5 Marks, Report 5 Marks, Total 50+10=60 Marks

#### 2. End Semester Examination - 40 %

Write up and execution: 20 Marks (Duration 2 hrs)

Project Demo: 15 Marks, Project Report: 5 Marks

### Course Outcomes (COs)

*At the end of this course, the student should be able to:*

		No. of Contact Hours	Program Outcomes (POs) addressed
CO1:	Apply the knowledge of concept learnt to design appropriate user interface layouts for mobile application.	6	PO1
CO2:	Analyse variety of interactive components in application's user interface as per requirements	9	PO2, PO5, PO7
CO3:	Comprehend the captured events in their program and take appropriate action as per requirements.	15	PO2, PO3, PO5, PO7
CO4:	Emphasize on integration of database with the application as per requirement.	6	PO2, PO3, PO5, PO7
CO5:			
CO6:			



# MANIPAL INSTITUTE OF TECHNOLOGY

Manipal University, Manipal  
Karnataka -576104

## COURSE PLAN

Department : Information and Communication Technology  
Course Name & code : Advanced Technology Lab [ICT: 405]  
Semester & branch : VII SEM, B. Tech (IT)  
Name of the faculty : Ms. Chetana Pujari, Mrs. Vibha, Mrs. Sumana A C, Ms Divya Rao  
No of contact hours/week: 3

## ASSESSMENT PLAN:

### 1. In Semester Assessments - 60 %

Regular Evaluation: Biweekly

Record Book: 4 Marks, Execution: 2 Marks, Viva/Quiz: 4 Marks

5 evaluation for 10 marks each=50 Marks, Project Synopsis 5 Marks, Report 5 Marks, Total 50+10=60 Marks

### 2. End Semester Examination - 40 %

Write up and execution: 20 Marks (Duration 2 hrs)

Project Demo: 15 Marks, Project Report: 5 Marks

## Course Outcomes (COs)

*At the end of this course, the student should be able to:*

	No. of Contact Hours	Program Outcomes (POs) addressed
CO1: Apply the knowledge of concept learnt to design appropriate user interface layouts for mobile application.	6	PO1
CO2: Analyse variety of interactive components in application's user interface as per requirements	9	PO2, PO5, PO7
CO3: Comprehend the captured events in their program and take appropriate action as per requirements.	15	PO2, PO3, PO5, PO7
CO4: Emphasize on integration of database with the application as per requirement.	6	PO2, PO3, PO5, PO7
CO5:		
CO6:		

### Course Plan

L. No	Topics	Course Outcome Addressed
L1	Introduction to Android: Create a simple helloworld program and test it by using emulator.	CO1
L2	Write a program which displays user profile.(include profession description)	CO2
L3	Write a program to list the grocery item and print the item selected.	CO2
L4	Write a program to add two numbers in first activity and display the result in the second activity.	CO3
L5	Develop an application that encrypt the TextField given by user.	CO3
L6	Develop an application to change background based on user selection.	CO3
L7	Develop a simple calculator application.	CO3
L8	Develop a simple quiz application.	CO4
L9	Develop a clinic management system. (using database)	CO4
L 10	Introduction to J2ME	CO1
L11	Simple program on J2ME to display user profile.	CO2
L12	Create a program which creates the following kind of menu:Cut, Copy and Paste using J2ME.	CO3
L 13	Lab Exam	
L 14	Project demo	

### References:

1. Bill Phillips & Brian Hardy, Android Programming: The Big Nerd Ranch Guide, Pearson technology group, 2013
2. Ian G. Clifton, Android User Interface Design: Turning Ideas and Sketches into Beautifully Designed Apps, 2013
3. James Keogh, The Complete Reference J2ME McGraw-Hill, 2003
- 4.
- 5.
- 6.
- 7.

Submitted by:

Chetana Pujari

Vibha  
[VIBHA]

[Sumana A.C.]

[Divya Rao]

(Signature of the faculty)

Date: 4-8-2016

Approved by:

4/8/16

(Signature of HOD)

Date:

\*\*\*\*\*