



THIRD-YEAR DIPLOMA COMPUTER ENGINEERING SYLLABUS

Semester: 5th

Course Code: -002204574

Type of Course: PEC-LC - 1

Course Name: Mobile Computing Lab

Course Prerequisites: To learn how to evaluate and enhance Mobile system using android studio.

COURSE OBJECTIVE(S):

The use of mobile communication and android based applications are increasing day by day. It is therefore necessary for students to know that how mobile communication works and how to build mobile apps for android operating system. This course covers the necessary concepts which are required to understand mobile communication and to develop Android Applications. Thus it is key course for computer engineers, who want to work in the area of communication.

TEACHING & EXAMINATION SCHEME:

Teaching Scheme (Hrs/Week)				Examination Scheme				
Theory	Tutorial	Practical	Credit	SEE		CA		
				Th	Pr	MSE	PLE	LA
0	0	2	1	00	25	00	00	25
				Total				
				50				

Th: Theory; Pr: Practical; FA: Final Assessment; CAT: Continuous Assessment Theory; CAP: Continuous Assessment Practical;

*TOTAL Practical Hours: No. of Practical Hrs/Week*15 = 30*

LIST OF PRACTICALS: *(sample for 2 hrs/week)*15 weeks*

Sr. No.	Content	Unit No.	Time Duration
1	Installation and setup of java development kit(JDK),setup android SDK,setup eclipse IDE,setup android development tools (ADT) plugins,create android virtual device	II	4
2	Create "Hello World" application. That will display "Hello World" in the middle of the screen using TextView Widget in the red color	II	4
3	Create application for demonstration of android activity life cycle	III	2
4	Create sample application with login module.(Check username and password) On successful login, Change TextView "Login Successful". And on failing login, alert user using Toast "Login fail"	III	4
5	Create an application for demonstration of Scroll view in android	III	2
6	Create an application for demonstration of Explicitly Starting New Activity using Intent.	III	2
7	Create an application that will get the Text Entered in Edit Text and display that Text using toast (Message).	III	4
8	Create an application that will Demonstrate Button onClick() Event and change the TextView Color based on button Clicked.	IV	4
9	Create an application that will Demonstrate Dialog Box Control In Android	V	4
	TOTAL		30



THIRD-YEAR DIPLOMA COMPUTER ENGINEERING SYLLABUS

Text Book(s):

Title of the Book	Author(s)	Publication
Mobile Computing	J B Patel, D K Thakar	Atul PArakashan

Reference Book(s):

Title of the Book	Author(s)	Publication
Building Android Apps	IN EASY STEPS	McGraw-Hill Education
Professional Android 2 Application Development	Reto Meier	Wiley India Pvt Ltd
Beginning Android	Mark L Murphy	Wiley India Pvt Ltd
Pro Android	Sayed Y Hashimi and Satya Komatineni	Wiley India Pvt Ltd

Web Material Link(s):

- a) <http://www.tutorialspoint.com/android>
- b) http://www.tutorialspoint.com/android/android_overview.htm
- c) <http://www.codelearn.org/android-tutorial/android-introduction>
- d) <http://pl.cs.jhu.edu/oose/resources/android/Android-Tutorial.pdf>
- e) <http://mobisys.in/blog/2012/01/introduction-to-android-sqlite-database/>
- f) www.appmakr.com/Android
- g) developer.android.com/training/basics/firstapp

Equivalent/Corresponding Course on NPTEL (SWAYAM):

NPTEL course on

<https://nptel.ac.in/courses/106106147>

COURSE EVALUATION:

Sr. No.	Activity	Marks	Weightage
1	Semester End Examination (External Th)	60	60%
2	Internal Examination	40	40%
2(a)	Mid Semester Examination	20	
2(b)	Attendance	10	
2(c)	Assessment Types (Any One from 2(c).1 to 2(c).7)	10	
2(c).1	Subject (Course) based Mini-Project		
2(c).2	Industry/Site Visit & Report		
2(c).3	Assignment		
2(c).4	Seminar		
2(c).5	Case Study		
2(c).6	Surprise Class Quiz		



THIRD-YEAR DIPLOMA COMPUTER ENGINEERING SYLLABUS

2(c).7	Design Exercise		
2(c).7	Presentation		
2(d)	Practical (if Applicable)		

* For 4 Credit Subjects

1 Credit = 25 Marks

Theory: 3 Credits = 75 Marks

Practicals: 1 Credit = 25 Marks

SEE Evaluation will be of 100 marks and converted to 50 Marks (75 Th + 25 Pr)

CA Evaluation will be of 100 Marks and converted to 50 Marks. (75 Th + 25 Pr)

Distribution of Marks for Theory Evaluation as per Bloom's Taxonomy Level:

Level	Remember	Understand	Apply	Analyse	Evaluate	Create
% Weightage	25%	20%	20%	10%	10%	5%

COURSE OUTCOMES: (in the range of 1 to 5)

CO1	Explain functioning of different mobile technology
CO2	Demonstrate Android activities life cycle
CO3	Execute operations on GUI objects
CO4	Perform Event driven programming
CO5	Apply various techniques on working with menu