



GUJARAT TECHNOLOGICAL UNIVERSITY

Syllabus for Bachelor of Vocation (B.Voc), 4th Semester

Branch: Software Development

Subject Name: Android Application Development Laboratory

Subject Code: 1140205

With effective
from academic
year 2018-19

Type of course: Core

Prerequisite: Java programming and Object-oriented programming, Knowledge of RDBMS and OLTP

Rationale: Mobile Application development is becoming need of the day as webpage development was about ten years ago. Most companies are developing their mobile applications so that customers may interact with them on mobiles itself. Android is most popular mobile operating system of today. Android application development course is therefore designed to enable the diploma information technology students to build mobile applications on this platform. This course covers the basics of Android along with required programming codes for developing necessary programming skills for mobile applications. Thus this course is an important course for Software Development students with possibilities of self-employment.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory		Practical		
			C	University exams (ESE)	Internal evaluation (PA)	External Practical /viva Exam(ESE)	Internal Practical /viva Exam(PA)	
-	-	2	2	-	-	30	20	50

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment

Practical List:

Sr. No.	Practical / Hands on Exercise	Hrs.
1	Write a simple Application which will print "Hello World!"	2
2	Write a simple Application that uses UI Layout and Control.	4
3	Write a simple Application that makes use of Style & Themes.	2
4	Write a simple Application that uses Event Handling.	2
5	Write a simple Application that uses Alarm, Notification.	2
6	Make a location based app.	2
7	Write a program that shows the use animation.	4
8	Write a program that shows the use of Image Effects.	2
9	Write a program that shows the use Image Switcher.	4
10	Write a program that shows the use of database.	4
	Total	28

Reference Books:

1. Beginning Android, Mark L Murphy, Wiley India Pvt Ltd
2. Professional Android, Sayed Y Hashimi and Satya Komatineni, Wiley India Pvt Ltd
3. Android in Action, Chris King, Robi Sen and W. Frank Ableson, Manning Publications
4. Learning Android, Ramesh Bangia, Khanna Publishing House



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Course Outcomes:

Sr. No.	CO Statement	Marks % Weightage
CO-1	Understand the concept of open source mobile development and Android Architecture	20
CO-2	Design Android UI Layout.	20
CO-3	Develop applications using menu and dialogue box.	20
CO-4	Develop applications using map, location and animation.	20
CO-5	Develop applications using content provider and services	20

List of Open Source Software/learning website:

Students must refer to following sites to enhance their learning ability.

- <https://www.udacity.com/course/ud853>
- www.w3schools.com
- <https://www.eclipse.org/downloads/>
- www.mysql.com
- <http://www.codelearn.org/androidtutorial>