



Sub Committee for Curriculum Development

Course Name: Mobile Programming

Course Code: T3201

(UG/PG): UG

Number of Credits: 4

Level: 3

Learning Objective(s):

To impart the fundamentals concepts of mobile technologies, discuss the current trends in mobile technologies and develop mobile applications using Android.

Pedagogy:

- Lab Sessions,
- Lectures,
- Discussions,
- Self study

Pre-learning: Java SE, SQL

Course Outline

Sr. No.	Topics	Hrs
1	Introduction - Mobile Application Development and various application development frameworks	3
2	Introduction to Android, Advantages, Architecture, Android SDK, Eclipse IDE, Build Process	3
3	Building blocks of Android, Activity life-cycle, LogCat	3
4	Views – TextView, EditText, Button, Spinner, RadioButton, CheckBox, RatingBar, Tab, SeekBar, WebView, ImageView	3
5	Layouts – Linear, Table, Relative, Frame, Grid and ScrollView	8
5	Event Handling, Toast Notification, AlertDialog	12
6	Intents, Passing data through intents	5
7	Internal Storage – SharedPreferences and SQLite (executing create, insert, delete, update queries using SQLiteOpenHelper class)	15
8	External Storage (public and private data storage), Permissions	7
9	Publishing application on Google Play Store	1

Book References:

1. Hello, Android by Ed Burnette
2. Head First Android Development by Jonathan Simon
3. Beginning Android 4 Application Development by Wei-Meng Lee
4. Professional Android 4 Application Development by Reto Meier

General Reading

Suggested Evaluation Methods:

- Quiz,
- Assignments,
- Written exam,
- Practical exam

Parallel/Similar courses the existing curriculum:

S.No.	Name of the course	Institute where it was offered
1		

Name of Member	Shrikant Mapari	Gayatri Venugopal			
Designation	Assistant Professor	Research Associate			
Org. / Inst.	SICSR	SICSR			
Signature					

Name of the Expert:

Signature:

Date: