



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 | Hours |
|---------|---|-------|
| 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 |

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|---|---|-----------|
| 8 | External Storage (public and private data storage), Permissions | 7 |
| 9 | Publishing application on Google Play Store | 1 |
| | Total | 60 |

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

Name of the Expert:

Signature:

Date: