



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Integrated MSc, 6th Semester
Branch: Computer Science
Subject Name: Mobile Application Development
Subject Code: 1360301

Teaching and Examination Scheme:

| Teaching Scheme | | | Credits | Examination Marks | | | | Total Marks |
|-----------------|---|---|---------|-------------------|--------|-----------------|----|-------------|
| L | T | P | | Theory Marks | | Practical Marks | | |
| | | | ESE(E) | PA (M) | PA (I) | ESE (V) | | |
| 3 | 0 | 2 | 4 | 70 | 30 | 20 | 30 | 150 |

Content:

| Sr. No. | Content | Teaching Hours | Module Weightage (%) |
|---------|--|----------------|----------------------|
| 1. | Overview of Android Introducing Android, The Android Application Components, The manifest file, Downloading and Installing Android, Exploring the Development Environment, Developing and Executing the first Android Application. | 5 | 10% |
| 2. | Using Activities, Fragments and Intents in Android Working with activities, Using Intents, Fragments, Using the Intent Object to Invoke Built in Application | 5 | 20% |
| 3. | Working with the User Interface Using Views and ViewGroups Working with View Groups, Building data with the AdapterView Class, Designing AutoText Complete View, Implementing Screen Orientation, Designing the views programmatically | 5 | 20% |
| 4. | Storing the Data Persistently Introducing the Data Storage Options, Using the internal storage, Using the external storage, Using the SQLite Database, Working with content Provider | 5 | 20% |
| 5. | Working with Location Services and Maps Working with Google Maps, Working with Geocoding and Reverse Geocoding. | 4 | 10% |
| 6. | Working with Graphics and Animation Working with Graphics, Using the Drawable Object, Using the Shape Drawable object, Hardware Acceleration, Working with Animation | 8 | 20% |



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Reference Books:

1. Android Application Development Black Book by Pradeep Kothari, DreamTech
2. Beginning Android 4 Application Development by Wei Meng Lee, Wrox
3. Android Wireless Application Development By Lauren Darcey, Shane Conder, Pearson U

Course Outcome:

| | |
|------|---|
| CO-1 | Understand Android architecture, activities and their life cycle. |
| CO-2 | Use View Groups comprising layouts and Views in application. |
| CO-3 | Manage data binding, user interface events, maps. |
| CO-4 | Work with graphics, animation. |