

Curriculum for Sem. IV

Sr. No.	Subject Code	Semester-IV	Credit	Hrs./Week
1	CA16R401	Advanced PHP – TH	4	60
2	CA16R402	Advanced PHP – PR	2	60
3	CA16R403	Advanced Java Programming – TH	4	60
4	CA16R404	Advanced Java Programming – PR	2	60
5	CA16R405	Mobile Application Development – TH	4	60
6	CA16R406	Mobile Application Development – PR	2	60
7	CA16R407	System Design – TH	4	60
8	CA16R408	Project-III – PR	4	60
9	PD14R601 EC15R301	Personality Development & Job Skills – II English & Communication Skills – III – TH	4	60
Total			30	540

Detailed Syllabus

Unit	Mobile Application Development– TH	Hrs.
1	Introduction to Android Mobile Applications, Comparison of various Mobile Application Programming Languages, Basics of Android, Features of Android, Benefits of Android, Using Eclipse, Running and debugging Applications, Configuring Android Development Environment.	6
2	Android Development Tools Android Documentations, Debugging Applications with DDMS, Working with Android Emulator, Using other Android Tools.	6
3	Android Application Development Building an Android Application, Introduction to Application Context, Using Application Context, working with Activities, working with Intents, Working with Dialogs, Logging Application Information.	6
4	Managing Application Resources Using Application and System Resources, working with simple Resource Values, working with Drawable Resources, working with Layouts, Working with Files, working with other types of Resources available in Android.	6
5	Configuration with Manifest Configuring the Android Manifest File, Configuring basic Applications settings, Defining	6

3 Year Bachelor of Computer Application Program

	Activities, Managing Application Permissions, Managing other Application settings.	
6	The Application Framework Designing an Application Framework, Designing an Android Trivia, Prototype, Implementing an Application Prototype, Running the Prototype.	6
7	Developing GUI Splash Screen Layout, Implementing animated Splash Screen, working with Animation, Designing Main Menu Screen, Implementing Main Menu Screen Layout, working with ListView Control, working with other Menu types, Designing the Help Screen, working with Files, Designing the Screen with Tabs.	6
8	Collecting User Inputs Using Forms to collect User Inputs, Designing the setting screen, using common Form Controls, saving Form data with Shared Preferences, Using Dialogs to collect User Inputs, Activity Dialogs, DatePicker Dialogs, Custom Dialogs.	6
9	Testing and Publishing the Application Best Practices for Testing, Maximizing Test Coverage, Understanding Release Process, preparing Release Candidate Build, Testing Application Release Candidate, Packaging an Application, Testing the Signed Application Package.	6
10	Using Eclipse IDE Creating Classes and Methods, Organizing imports, Documenting Code, Using Auto-complete, Formatting Code, Refactoring, Resolving Build Errors, Creating Custom Log filters, Integrating Source Control.	6
Total Hours:		60

Unit	Mobile Application Development – PR	Hrs.
	Practical on above topics	60

Reference Books:

- 1) SAMS Teach Yourself – Android Application Development, Lauren Darcey, Shane Conder, Sams Publishers
- 2) Professional Android Application Development, Reto Meier, Wrox
- 3) Practical Android Projects, Lucas Jordan, Pieter Greyling, Apress