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CP5097 MOBILE APPLICATION DEVELOPMENT

DETAILED SYLLABUS

OBJECTIVES:

- Understand system requirements for mobile applications.
- Generate suitable design using specific mobile development frameworks.
- Generate mobile application design.
- Implement the design using specific mobile development frameworks.
- Deploy the mobile applications in marketplace for distribution.

UNIT I INTRODUCTION

Introduction to mobile applications – Embedded systems - Market and business drivers for mobile applications – Publishing and delivery of mobile applications – Requirements gathering and validation for mobile applications.

UNIT II BASIC DESIGN

Introduction – Basics of embedded systems design – Embedded OS - Design constraints for mobile applications, both hardware and software related – Architecting mobile applications – User interfaces for mobile applications – touch events and gestures – Achieving quality constraints – performance, usability, security, availability and modifiability.

UNIT III ADVANCED DESIGN

Designing applications with multimedia and web access capabilities – Integration with GPS and social media networking applications – Accessing applications hosted in a cloud computing environment – Design patterns for mobile applications.

UNIT IV ANDROID

Introduction – Establishing the development environment – Android architecture – Activities and views – Interacting with UI – Persisting data using SQLite – Packaging and deployment – Interaction with server-side applications – Using Google Maps, GPS and Wifi – Integration with social media applications.

UNIT VIOS

Introduction to Objective C-iOS features – UI implementation – Touch frameworks – Data persistence using Core Data and SQLite – Location aware applications using Core Location and Map Kit – Integrating calendar and address book with social media Application – Using Wifi - iPhone marketplace.

REFERENCES:

- 1. Charlie Collins, Michael Galpin and Matthias Kappler, —Android in Practicell, DreamTech, 2012.
- 2. David Mark, Jack Nutting, Jeff LaMarche and Frederic Olsson, —Beginning iOS 6 Development: Exploring the iOS SDKII, Apress, 2013.
- 3. http://developer.android.com/develop/index.html.
- 4. James Dovey and Ash Furrow, —Beginning Objective Cll, Apress, 2012.
- 5. Jeff McWherter and Scott Gowell, "Professional Mobile Application Development", Wrox, 2012.