

ITE1016	Mobile Application Development		L	T	P	J	C
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Pre-requisite	CSE1001	Syllabus version					
		1.0					
<b>Course Objectives:</b>							
<ul style="list-style-type: none"> <li>To expose the technology and business trends in mobile applications.</li> <li>To understand the mobile design principles</li> <li>To gain the working knowledge of Apple's Xcode app development tool.</li> </ul>							
<b>Expected Course Outcome:</b>							
1) Understand different mobile application models/architectures and patterns.							
2) Evaluate and contrast the requirements for mobile platforms.							
3) Describe the components and structure of a mobile development framework.							
4) Apply mobile development framework for the development of mobile applications.							
5) Create apps for Android and iOS platform devices.							
6) Interpret a scenario to plan, design and develop a prototype as a native mobile application.							
7) Understand, design and implement the data storage of iPhone for various applications.							
8) Develop the various mobile applications for the operating systems of android and iPhone.							
<b>Student Learning Outcomes (SLO):</b> 5, 6, 12							
[5]	Having design thinking capability						
[6]	Having an ability to design a component or a product applying all the relevant standards and with realistic constraints						
[12]	Having adaptive thinking and adaptability						
<b>Module:1</b> <b>Introduction to Mobile Application:</b> <b>6 hours</b>							
A brief history of mobile-Mobile ecosystem, Designing for context, Developing a Mobile Strategy, Mobile Information Architecture, Mobile Design, Types of mobile application.							
<b>Module:2</b> <b>Technologies:</b> <b>6 hours</b>							
Introduction-HTML5, CSS3, Javascript, JQuery.							
<b>Module:3</b> <b>Introduction to Android programming:</b> <b>5 hours</b>							
Android toolkit, Java for android, components of an Android Application.							
<b>Module:4</b> <b>Android software development:</b> <b>7 hours</b>							
Eclipse Concepts and Terminology, Eclipse Views and Perspectives, Eclipse and Android, Effective java for Android							

<b>Module:5</b>	<b>Android Framework:</b>	<b>6 hours</b>	
Building a View, Fragments and Multiplatform Support, Drawing, Handling and Persisting Data.			
<b>Module:6</b>	<b>Introduction to iOS:</b>	<b>6 hours</b>	
Basic iPhone Styling, Advanced iPhone Styling, Animation			
<b>Module:7</b>	<b>Iphone data storage:</b>	<b>6 hours</b>	
local Storage and session Storage, Client-Side Database PhoneGap tool.			
<b>Module:8</b>	<b>Contemporary issues:</b>	<b>3 hours</b>	
	<b>Total Lecture hours:</b>	<b>45 hours</b>	
<b>Text Book(s)</b>			
1.	App Programming Guide for iOS-Apple developer - 2014 Apple Inc		
<b>Reference Books</b>			
1.	Jonathan Stark, Building iPhone Apps with HTML, CSS and JavaScript, O'Reilly Media, 2011.		
2.	Paul Deitel, Harvey Deitel, Android for programmers an app-driven approach Deiteldeveloper series, Abbey Deitel,Michael Morgano-2012 Pearson Education, Inc.		
3.	Laird Dornin, G. Blake Meike, and Masumi Nakamura, Programming Android by Zigurd Mednieks, O'Reilly Media, 2011.		
Recommended by Board of Studies		05-03-2016	
Approved by Academic Council		No. 40	Date 18-03-2016