



Course Weekly Outline

Course Name: Mobile Computing

Course Instructor											
E-mail											
Title											
Course Coordinator											
Course Objective	Give the student basic topics in mobile computing concepts, mobile device management (MDM) and Android Applications										
Course Description	The purpose of this course is to provide an introduction to the exciting and emerging world of wireless and mobile computing, and mobile technology. Reading this book will teach you the fundamentals of computer networking and protocols, radio frequency communication principles, and IEEE standards based wireless technology and give you an overview of hardware and software components, cellular communications, wireless site surveys, mobile device management, troubleshooting, and security principles for both wireless networking and mobility.										
Textbook	Mobile Computing Deployment and Management, by Robert J. Barts, by John Wiley & Sons, Inc., Indianapolis, Indiana, 2015.										
References	1- Mobile Computing Deployment and Management, by Robert J. Barts, by John Wiley & Sons, Inc., Indianapolis, Indiana, 2015. 2- Android Studio Development Essentials – Second Edition, by Neil Smyth, 2015.										
Course Assessments	<table border="1"> <thead> <tr> <th>Term Tests</th> <th>Laboratory</th> <th>Quizzes</th> <th>Project</th> <th>Final Exam</th> </tr> </thead> <tbody> <tr> <td>(10%)</td> <td>-----</td> <td>(10 %)</td> <td>(10 %)</td> <td>(70%)</td> </tr> </tbody> </table>	Term Tests	Laboratory	Quizzes	Project	Final Exam	(10%)	-----	(10 %)	(10 %)	(70%)
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(10%)	-----	(10 %)	(10 %)	(70%)							
General Notes											



Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Introduction Historical Notes		
2		Computer Network Types, Topologies, and the OSI Model	Seminar	
3		Common Network Protocols and Ports Radio Frequency and Antenna Technology	Seminar	
4		Fundamentals Standards and Certifications for Wireless Technology IEEE 802.11 Terminology and Technology Computer Network Infrastructure Devices		
5		Cellular Communication Technology Site Survey, Capacity Planning, and Wireless Design Understanding Network Traffic Flow and Control	Seminar	
6		Introduction to Mobile Device Management	Seminar	
7		Mobile Device Policy, Profiles, and Configuration	Seminar	
8		Implementation of Mobile Device Technology	Seminar	
9		Mid Examination		
10		Mobile Device Operation and Management Concepts	Seminar	
11		Mobile Device Technology Advancements,	Seminar	
12		Requirements, and Application Configuration	Seminar	
13		Mobile Device Security Threats and Risks	Seminar	
14		Android Application Design	Seminar	
15		Final Examination		

Instructor Signature:

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