



## Course Weekly Outline

### Course Name: Mobile Computing

<b>Course Instructor</b>					
<b>E-mail</b>					
<b>Title</b>					
<b>Course Coordinator</b>					
<b>Course Objective</b>	<b>Give the student basic topics in mobile computing concepts, mobile device management (MDM) and Android Applications</b>				
<b>Course Description</b>	<b>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.</b>				
<b>Textbook</b>	<b>Mobile Computing Deployment and Management, by Robert J. Barts, by John Wiley &amp; Sons, Inc., Indianapolis, Indiana, 2015.</b>				
<b>References</b>	<b>1- Mobile Computing Deployment and Management, by Robert J. Barts, by John Wiley &amp; Sons, Inc., Indianapolis, Indiana, 2015.</b> <b>2- Android Studio Development Essentials – Second Edition, by Neil Smyth, 2015.</b>				
<b>Course Assessments</b>	<b>Term Tests</b>	<b>Laboratory</b>	<b>Quizzes</b>	<b>Project</b>	<b>Final Exam</b>
	<b>(10%)</b>	<b>-----</b>	<b>(10 %)</b>	<b>(10 %)</b>	<b>(70%)</b>
<b>General Notes</b>					



### Course Weekly Outline

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

Instructor Signature:

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