Course Name	**MOBILE COMPUTING**		Course Code		**COMP 555**	
Credit Hours	3		**Contact Hours**	Lec	Lab	Total
				2	2	4

Offered as	☐ University Requirement ☐ College Requirement ☒ Program Requirement ☒ Core ☐ Elective
	☐ ITEC ☒ COMP ☐ CNET

Level	9	Prerequisite	Nil

Course Description:

This course provides a comprehensive overview of mobile computing along with its security issues and mobility. The course will give you an understanding of mobile agent systems and platforms, multiple access schemes and about various communication satellite systems. This course broadly covers the standards issues and physical mobility including wireless LANs, mobile IP, mobile TCP, mobile ad-hoc networks as well as various routing protocols. This course focuses on the issues associated with small handheld portable devices and application development.

Upon completion, the student will be able to:

♦ Explain the fundamental concepts of mobile computing systems and its security issues
♦ Describe wireless and mobile communications systems and be able to choose an appropriate mobile system from a set of requirements
♦ Categorize the mobile computing environment and mobility support devices
♦ Acquire the skills to maintain wireless LAN and Mobile Ad-hoc networks
♦ Gain an understanding of mobile agent concepts, characteristics, requirements, and platforms
♦ Apply appropriate tools and frameworks for designing and implementing mobile applications

Assessment Methods	Exam-1	☒	10%	Exam-2	☒	10%	Assignments	☒	20%
	Attendance	☐	-	Lab Exam	☒	20%	Final Exam	☒	40%

Text Book:
♦ Kumkum Garg, "Mobile Computing: Theory and Practice", Pearson Education, ISBN: 978-81-317-3166-6, 2012.

References:
♦ Reza B'Far, "Mobile Computing Principles", Cambridge University Press, ISBN: 978-0-511-54696-9, 2003.
♦ John Schiller, "Mobile Communications, Pearson Education", Second Edition, ISBN: 0 321 12381 6, 2004.