

Module Title:	DISTRIBUTED AND MOBILE COMPUTING
Academic year:	2009 – 2010
Credit Value:	5
Pre- requisites:	Networking 2
Assessment:	Exam-50%, CA-50%
Aims	This module provides the student with knowledge and skills To assess the nature and architecture of distributed and mobile applications and to be able to develop and deploy web-based applications comprising both server-side and client-side logic.
Module Content	<ul style="list-style-type: none"> • Introduction to Distributed Systems • The Internet • Mobile Computing
Intended Learning Outcomes:	<p>Having successfully completed this subject, the student will be able to :</p> <ul style="list-style-type: none"> • Explain the fundamental design of a distributed system and the concept of transparency within a distributed system • Describe RPC as a fundamental operation within a distributed system and the various RPC semantics • Describe the operation of the HTTP protocol and the use of server and client side processing technologies in a web-based application • Develop and deploy a web-based application on a web server using both server and client side processing technologies • Describe wireless and mobile communications technologies, mobile devices, and application development platforms for mobile devices • Demonstrate an understanding of the principles of encryption as they apply to distributed systems • Deploy a web-based application on a web server using a secure protocol

