SSN COLLEGE OF ENGINEERING, KALAVAKKAM – 603 110

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

VI SEMESTER – CSE 'B' SECTION

IT6601 MOBILE COMPUTING

ACADEMIC YEAR: 2016-2017 (Even)   **BATCH: 2014-2018**

COURSE OBJECTIVES
This Course makes the student to:
- Understand the basic concepts of mobile computing
- Be familiar with the network protocol stack
- Learn the basics of mobile telecommunication system
- Be exposed to Ad-Hoc networks
- Gain knowledge about different mobile platforms and application development

BLOOMS TAXONOMY

Remember	Understand	Apply	Analyze	Evaluate	Create
K1	K2	K3	K4	K5	K6

COURSE OUTCOMES
At the end of the course, the student should be able to:
- Understand the concepts of mobile computing. (K2)
- Identify and discuss the functionalities of different layers. (K2)
- Understand the functions of mobile telecommunication systems. (K2)
- Identify the protocols to be used for ad-hoc networks (K2)
- Choose appropriate mobile platform to develop applications (K2)

COURSE ASSESSMENT MATRIX

Assessment Tool	CO1	CO2	CO3	CO4	CO5
Test - 1	✓	✓			
Test - 2			✓		
Test - 3				✓	✓

CO	Knowledge Level	Reasoning
CO1	K2	To understand the difference between Mobile Computing and Wireless Networking, basic structure and MAC protocols of Mobile Computing.
CO2	K2	To identify and discuss the functionalities of network and transport layer protocols in Mobile Computing.
CO3	K2	To understand the functions of various telecommunication systems such as GSM, GPRS, UMTS.
CO4	K2	To understand the working mechanism of Ad-hoc networks, its routing protocols and VANETs.
CO5	K2	To describe various mobile OS development kit and issues associated with M-Commerce.

PROGRAM OUTCOMES (PO)

1. Engineering knowledge: Our graduates will have the knowledge of mathematics, logic, probability and statistics, computer science and engineering, and the skill to apply them in the fields of computer software and hardware. **(K3)**
2. Problem analysis: Our graduates will have the knowledge and skill to identify, formulate, and solve hardware and software problems using sound computer science principles. **(K4)**
3. Experimentation: Our graduates will have the skill to design and conduct experiments, organize, analyze, and interpret data. **(K5)**
4. Design and development: Our graduates will have the skill to design and construct hardware and software systems, components, or processes as per needs and specifications**. (K4)**
5. Team work: Our graduates will have the interpersonal and communication skills to function as team players on multidisciplinary teams.
6. Modern tools usage: Our graduates will be able to use the techniques, skills, and modern hardware and software tools necessary for computer engineering practice. **(K3)**
7. Social and environmental responsibility: Our graduates will demonstrate knowledge related to social, ethical, legal, economical, health and safety, sustainability and environmental dimensions.
8. Communication skills: Our graduates will be able to effectively communicate technical information in speech, presentation, and in writing.
9. Contemporariness: Our graduates will have knowledge of contemporary issues in the practice of their profession.
10. Self-learning: Our graduates will develop confidence for self learning and ability for life-long learning.
11. Competitive exam preparedness: Our graduates will participate and succeed in competitive examinations such as GATE, IES, GRE.

12. Leadership: Our graduates are trained to enhance their managerial skills, leadership quality and entrepreneurial spirit.

COURSE OUTCOMES MAPPED TO PROGRAMME OUTCOMES

PO CO		PO											
		PO1 K3	PO2 K4	PO3 K5	PO4 K4	PO5	PO6 K3	PO7	PO8	PO9	PO10	PO11	PO12
CO1	K2	2	2	0	0	0	0	0	0	0	0	0	0
CO2	K2	2	2	0	0	0	0	0	0	0	0	0	0
CO3	K2	2	2	0	0	0	0	0	0	0	0	0	0
CO4	K2	2	2	0	0	0	0	0	0	1	0	0	0
CO5	K2	2	2	1	2	0	2	0	0	1	1	0	0

1	Reasonable	2	Moderate	3	Strong

Prepared by
(Beulah A.)

Reviewed by
(PAC Team)

Approved by
(HOD-CSE)