SSN COLLEGE OF ENGINEERING KALAVAKKAM-603110 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Staff Incharge Ms.Beulah A.
Batch 2014 - 2018
Academic Year 2016 - 2017

Class VI Sem - CSE - B Section

Subject Mobile Computing

Subject Code IT6601

Teaching Methodology/Aids Black Board, Chalk /OHP

S.No	Topic LINIT L. INTRO	Content Delivery Methods	Proposed hours	Actual hours
	UNIT I - INTRO	DUCTION	1	
	Mobile Computing – Mobile Computing Vs			
1	wireless Networking		1	
2	Mobile Computing Applications		1	
3	Characteristics of Mobile computing		1	
4	Structure of Mobile Computing Application		1	
5	MAC Protocols – Wireless MAC Issues		2	
6	Fixed Assignment Schemes		1	
7	Random Assignment Schemes		1	
8	Reservation Based Schemes		1	

Total hours for Unit 1

9

	UNIT II - MOBILE INTERNET PROTOCOL AND TRANSPORT LAYER				
9	Overview of Mobile IP		1		
10	Features of Mobile IP		1		
11	Key Mechanism in Mobile IP		1		
12	Route Optimization		1		
13	Overview of TCP/IP		1		
14	Architecture of TCP/IP		1		
15	Adaptation of TCP Window		2		
16	Improvement in TCP Performance		1		

Total hours for Unit 2

9

	UNIT III MOBILE TELECOMMUNICATION SYSTEM			
17	Global System for Mobile Communication (GSM)		3	
18	General Packet Radio Service (GPRS)		3	
	Universal Mobile Telecommunication System			
19	(UMTS)		3	

	UNIT IV - MOBILE AD-HOC NETWORKS				
20	Ad-Hoc Basic Concepts – Characteristics		1		
21	Ad- Hoc Applications	S	1		
22	Design Issues		1		
23	Routing – Essential of Traditional Routing Protocols		1		
24	Popular Routing Protocols		2		
25	Vehicular Ad Hoc networks (VANET)		1		
26	MANET Vs VANET		1		
27	Security		1		

Total hours for Unit 4

9

	UNIT V - MOBILE PLATFORMS AND APPLICATIONS				
28	Mobile Device Operating Systems		1		
29	Special Constrains & Requirements	S	1		
30	Commercial Mobile Operating Systems	S	1		
	Software Development Kit: iOS, Android,				
31	BlackBerry, Windows Phone		2		
32	MCommerce – Structure – Pros & Cons	S	2		
33	Mobile Payment System		1		
34	Security Issues		1		

Total hours for Unit 5

9

Total hours

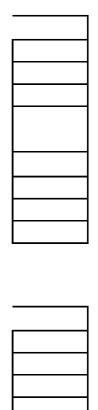
45

Prepared by
(Beulah A.)

Reviewed By (PAC Team)

Approv (HOD-

Deviation	



/ed By -CSE)