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Fifure Vision By K B Hemanth Raj

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WIRELESS NETWORKS AND MOBILE COMPUTING [As per Choice Based Credit System (CBCS) scheme] (Effective from the academic year 2017 -2018) SEMESTER – VI					
Subject Code	17CS663	IA Marks	40	1	
Number of Lecture Hours/Week	3	Exam Marks	60)	
Total Number of Lecture Hours	40	Exam Hours	03	3	
CREDITS – 03					
Module – 1				Teaching Hours	
Mobile Communication, Mobile Com Mobile Devices Mobile System Management, Security Cellular Ne Smartphone, Smart Mobiles, and Handheld Devices, Smart Systems, Li Automotive Systems	Networks, Dat etworks and Systems Hat	a Dissemination, M Frequency Reuse, M ndheld Pocket Com	obility Mobile	8 Hours	
Module – 2					
GSM-Services and System Architectu GSM Localization, Call Handling General Packet Radio Service High-sp Modulation, Multiplexing, Controllin Frequency Hopping Spread Spectrum Multiple Access, IMT-2000 3G Wird 3G Communications Standards ,CDM mode, OFDM, High Speed Packet Acc Long-term Evolution, WiMaxRel Access,4G Networks, Mobile Satellite Module – 3	Handover, Sec beed Circuit Sw ng the Medium n (FHSS),Codi eless Commun IMA2000 3G (cess (HSPA) 30 1.0 IEEE 802	curity, New Data Se vitched Data, DECT, n Access Spread Spe ng Methods, Code Di ication Standards, WC Communication Standa G Network 2.16e, Broadband W	rvices, ctrum, ivision CDMA urds, I-	8 Hours	
IP and Mobile IP Network Layers, Packet Delivery and Handover Management Location Management, Registration, Tunnelling and Encapsulation, Route Optimization Dynamic Host Configuration Protocol, VoIP, IPsec Conventional TCP/IP Transport Layer Protocols, Indirect TCP, Snooping TCP Mobile TCP, Other Methods of Mobile TCP-layer Transmission ,TCP over 2.5G/3G Mobile Networks				8 Hours	
Module – 4					
Data Organization, Database Trans Processing Data Recovery Process, Caching, Client-Server Computing for Adaptation Software for Mobile Com Context-aware Mobile Computing	, Database Ho Mobile Comp	oarding Techniques , uting and Adaptation	Data	8 Hours	
Module – 5		1 11	F	0.77	
Communication Asymmetry, Classifi Dissemination Broadcast Models, S Digital Audio Broadcasting (DAB), D Synchronization, Synchronization Sof Software for Mobile Devices SyncML-Synchronization Language	elective Tunin vigital Video Bi tware for Mob	g and Indexing techr oadcasting ile Devices, Synchroni	niques,	8 Hours	

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Synchronized Multimedia Markup Language (SMIL)

Course outcomes: The students should be able to:

- Understand the various mobile communication systems.
- Describe various multiplexing systems used in mobile computing.
- Explain the use and importance of data synchronization in mobile computing

Question paper pattern:

The question paper will have TEN questions.

There will be TWO questions from each module.

Each question will have questions covering all the topics under a module.

The students will have to answer FIVE full questions, selecting ONE full question from each module.

Text Books:

- Raj kamal: Mobile Computing, 2ND EDITION, Oxford University Press, 2007/2012
- 2. MartynMallik: Mobile and Wireless Design Essentials, Wiley India, 2003

Reference Books:

- 1. Ashok Talukder, RoopaYavagal, Hasan Ahmed: Mobile Computing, Technology, Applications and Service Creation, 2nd Edition, Tata McGraw Hill, 2010.
- 2. ItiSahaMisra: Wireless Communications and Networks, 3G and Beyond, Tata McGraw Hill, 2009.

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