M.Tech (COMPUTER SCIENCE AND ENGINEERING)

CO 501 ADVANCED DATABASE MANAGEMENT SYSTEMS

Text Books:

Text Books:

Text Books:
2. Yourdon, “Modern Structured Analysis”, PHI.

CO 502 PARALLEL COMPUTER ARCHITECTURE

Text Books:
1. Kai Hwang, “Advanced computer architecture”; TMH.
2. D. A. Patterson and J. L. Hennesssey, “Computer organization and design”.
3. J.P.Hayes, “computer Architecture and organization”; MGH.

Text Books:
2. V.Rajaranam & C.S.R.Murthy, “Parallel computer”; PHI.

CO 503 DATA STRUCTURES AND ALGORITHMS

Text Books:
2. Ellis Horowitz, Sartaj Sahni Sanguthevar Rajasekaran, “The Design and Analysis of Computer Algorithms”.
4. Tannenbaum, “Data Structures”, PHI

Reference Books:
4. Narsingh Deo-Graph Theory with Application to Engineering and Computer Science,Prentice Hall of India.
CO 551 DISTRIBUTED SYSTEM

Text Books:

Text Books:

CO 552 COMPUTER NETWORKS

Text Books:

Text Books:

CO 601 INFORMATION AND NETWORK SECURITY

Text Books:

Reference Books:

First Year M.Tech.(CSE) II Semester

OBJECT ORIENTED SOFTWARE ENGINEERING

Text Books:

Reference Books:
1 I. Sommerville, “Software Engineering”, Addison Wesley, 2004
ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS

Text Books:
2. Introduction to Expert Systems, Peter Jackson, AWP, M.A., 199.

Reference Books:

REAL-TIME SYSTEMS

Text Books:

Reference Books:

DESIGN OF EMBEDDED SYSTEMS

Text Books:
3. Embedded System by Raj Kamal, TMH.

Text Books:
2. Microcontrollers by Deshmukh, TMH.
3. 8051 Microcontroller & Embedded systems by Rajiv Kapadia, Jaico.
4. Computer as components by wayne wolf, Harcourt India Pvt. Ltd.
5. Real time System and Analysis by Philip A. Laplante, Wiley.

DIGITAL SIGNAL PROCESSING

Text Books:

Text Books:
ROBOTICS ENGINEERING

Text Books:

Reference Books:
1. An Introduction to Robot Technology, / P. Coiffet and M. Chaironne / Kogam Page Ltd.
3. Robotics and Control / Mittal R K & Nagrath I J / TMH.

First Year M.Tech.(CSE) II Semester

BIOINFORMATICS

Text Books:
1. “Bioinformatics, Sequence and Genome Analysis”, David W. Mount; Cold Spring Harbor Laboratory Press

Text Books:

WIRELESS & MOBILE COMMUNICATION

Text Books:
1. Mobile and Personal communication System and Services- Raj Pandya

Reference Books:

FAULT TOLERANT AND TESTABLE SYSTEMS

Text Books:
2. Design and Analysis of Fault-Tolerant Digital Systems, B.W.Johnson, Addison-Wesley

Text Books:
ADVANCED COMPUTER GRAPHICS
Text Books:

Text Books:

RELIABLE SYSTEM DESIGN
Text Books:
2. Design and Analysis of Fault-Tolerant Digital Systems, B.W.Johnson, Addison-Wesley

Reference Books:

First Year M.Tech.(CSE) II Semester

OPTIMIZATION TECHNIQUES
Text Books:
1. H.A.Taha – Operations Research, 8/e , Pearson Education.

Text Books:
1. Kanti Swarup, Gupta Pk, Man Mohan, Operations Research, Sultan Chand & Sons

DISTRIBUTED ALGORITHMS
Text Books:

Text Books:

MODELING & SIMULATION
Text Books:
QUANTUM COMPUTING
Text Books:
1. Introduction to Quantum Computing, Philip Kaye et al., Oxford University Press.
2. Introduction to Quantum Computers, Gennady Berman, World Scientific.

Text Books:

ENTERPRISE COMPUTING IN JAVA
Text Books:

Text Books:

First Year M.Tech.(CSE) II Semester

OPTICAL NETWORKS
Text Books:
2. John Senior: Optical Fiber Communications, PHI.

Text Books:

CLUSTER & GRID COMPUTING
Text Books:
2. Bart Jacob, Michael Brown, Introduction to grid computing

SOFTWARE TESTING
Text Books:

Reference Books:

COMPUTER VISION
Text Books:

NANO TECHNOLOGY
Text Books
1. Additional handouts will be provided from the following books:

Reference Books
1. S. Datta, Electron Transport in Mesoscopic Systems, Cambridge University

First Year M.Tech.(CSE) III Semester

DATA WAREHOUSING AND DATA MINING
Text Books:
1. Data Warehousing Fundamentals, P.Ponnian, John Weliey.
2. Data Mining Introductory & Advanced Topics, M.H.Dunham, Pearson Education.
3. Data Mining Concepts & Techniques, Han,Kamber, M.Kaufman.

PATTERN RECOGNITION
Text Books:
Reference Books:

NATURAL LANGUAGE PROCESSING
Text Books:
2. C. Manning and H. Schutze, “Foundations of Statistical Natural Language Processing”

Reference Books:

SOFT COMPUTING
Text Books:
1. “An Introduction to Neural Networks”, Anderson J.A., PHI.

Reference Books:
1. “An Introduction to Genetic Algorithm”, Melanie Mitchell, PHI.

SEMANTIC WEB
Text Books:

Reference Books:

DIGITAL IMAGE PROCESSING
Text Books:

Text Books:
First Year M.Tech.(CSE) III Semester

GEO-INFORMATICS

REFERENCE BOOKS
2. Joseph L. Awange, Erik W. Grafarend, Ba(c)La Palacz, Béla Paláncz, Piroska Zaletnyik,” Algebraic Geodesy and Geoinformatics”, Springer.

ADVANCES IN INTERNET AND WEB TECHNOLOGY

Text Books:
4. Modeling the Internet and the Web,Pierre Baldi,Paolo Frasconi, Padhraic Smyth, John Wiley and Sons Ltd.

ADVANCES IN MULTIMEDIA TECHNOLOGY

Text Books:
4. Modeling the Internet and the Web,Pierre Baldi,Paolo Frasconi, Padhraic Smyth, John Wiley and Sons Ltd.

VLSI DESIGN

Text Book:

Reference Books:
2. “VHDL”, Bhaskar, PHI
4. “Modern VLSI Design: system on silicon” Wayne Wolf; Addison Wesley Longman
5. “Basic VLSI Design” Douglas A. Pucknell & Kamran Eshraghian; PHI

VLSI DESIGN AND CAD OF VLSI

Text Books:
SOFTWARE PROJECT MANAGEMENT

Text Books:

Reference Books: