

Semester	II	Specialization	NA
Course Code	206	Type	Generic – Core
Course Title	Management Information Systems		

Course Objectives:

1	To develop conceptual understanding about latest developments in the field of Information Technology and the impact of I.T. in managing a business
2	To learn to use Information Technology to gain competitive advantage in business
3	To learn from, with a view to emulate, entrepreneurial ventures in e-Commerce and m-Commerce

Syllabus:

Unit Number	Contents	Number of Sessions
1	<p>Management Information Systems: Need, Purpose and Objectives - Data, Information, Knowledge – Types of Information Systems - Information as a strategic resource - Use of information for competitive advantage</p> <p>Information Technology Infrastructure: Information Systems Architecture – Mainframe, Client Server, Web Based, Distributed, Grid, Cloud - Overview of Hardware, Software, Storage and Networking Devices – Networks Types - Topologies of Networks</p>	7 + 2
2	<p>2.1 Data Base Management Systems: Concept – Relational Model Applications – DBMS Architecture</p> <p>2.2 Systems Engineering Analysis and Design: Systems Concept - Systems Development Life Cycle - Assessing Enterprise Information requirements – Alternative System Building Approaches - Prototyping - Rapid Development Tools – CASE Tools – Object Oriented Systems (<i>Only introduction to these tools & techniques</i>)</p>	7 + 2
3	<p>Decision Support Systems: Data Warehousing and Data Mining -Business Intelligence and Analytics - Group Decision Support Systems – Executive Information Systems - Executive Support Systems – Geographical Information Systems - Expert Systems and Knowledge Based Expert Systems – Artificial Intelligence</p>	7 + 2
4	<p>4.1 Digital firm Perspective: MIS Model for a digital firm – Organization Structure for digital firm – e-Business Models and Applications – Mobile computing, Call Centers, BPO</p> <p>4.2 Management Issues in MIS: Information Security and Control - Quality Assurance -Ethical and Social Dimensions - Intellectual Property Rights as</p>	7 + 2

	related to IT Services / IT Products	
5	Applications of MIS in functional areas as well as in the service sector should be covered with the help of minimum 5 case studies.	7 + 2

Note:

Emphasis should be given on management oriented problems and cases as compared to technical orientation expected from computer science/ computer management students.

Learning Resources:

1	Text Books	MIS-Bidgoli/Chattopadhyay- Cengage Learning Management Information Systems by Obrien, Marakas and Ramesh Behl, TMGH Management Information Systems by Dr. D. B. Bharati & Rohan Dahivale Himalaya Publications Management Information Systems by Jawadekar, TMGH, 4 th Edition
2	Reference Books	Management Information Systems by Jaiswal and Mittal, Oxford University Press Decision Support Systems and Intelligent Systems by Turban and Aronson, Pearson Education Asia
3	Supplementary Reading Material	Management Information Systems by Laudon, Laudon, Dass, Pearson Education Asia, 11 th Edition Management Information Systems by Davis and Olson, Tata McGraw Hill
4	Websites	-
5	Journals	MIS Quarterly, University of Minnesota CSI Communications, Computer Society of India, Mumbai