

Syllabus for Master of Business Administration, 1st Semester Subject Name: Information Technology Management Subject Code: 1519606 With effective from academic year 2020-21

1. LearningOutcomes:

Learning Outcome Component	Learning Outcome (Learner will be able to)			
Business Environment and Domain	• Analyze how various information technology			
Knowledge (BEDK)	systems work together to accomplish the information needs			
	and objectives of an organization.			
Critical thinking, Business Analysis,	• <i>Analyze</i> the role played by types of information technology			
Problem Solving and Innovative	systemsatvariouslevelsandfunctionalareasoftheorganization			
Solutions(CBPI)				
Global Exposure and Cross-	• Understand how data communication and networking			
Cultural Understanding(GECCU)	concepts are used by various organizations across			
	theworld.			
Social Responsiveness and Ethics (SRE)	• <i>Illustrate</i> the impact of information technology in society			
	in context of ethical, social and securityconcerns.			
Effective Communication (EC)	• Explain relationships between concepts of information			
	systems, organization, management andstrategy.			
Leadership and Teamwork (LT)	• Evaluate the internet applications and role of information			
	systems in supporting various levels of business strategy.			

LO – PO Mapping: Correlation Levels:

1 = Slight (Low); 2 = Moderate (Medium); 3 = Substantial (High), "-"= no correlation

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Sub. Code: 4519206	PO	PO9							
	1	2	3	4	5	6	7	8	
LO1: Analyze how variousinformation technology systems work together to accomplish the information needs and objectives of an organization.	3	3	2	1	1	1	-	1	2
LO2: Analyze the role played by types of information technology systems at various levels and functional areas of theorganization.	2	2	1	1	-	-	-	2	2
LO3: <i>Understand</i> how data communication and networking concepts are used by various organizations across theworld.	2	2	1	1	3	1	1	1	1
LO4: <i>Illustrate</i> the impact of information technology insociety in context of ethical, social and securityconcerns.	1	-	-	2	1	1	3	1	1
LO5: Explain relationships between concepts of informationsystems, organization, management and strategy.	2	2	2	3	-	-	2	-	1
LO6: <i>Evaluate</i> the internet applications and role of information systems in supporting various levels of businessstrategy.	2	1	3	3	-	-	3	1	1



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2. Course Duration: The course duration is of 40 sessions of 60 minuteseach.

3. CourseContents:

Module No:	Contents	No. of Sessions	70 Marks (External Evaluation)
I	 Organization and Information Technology Systems: The Organization: Structure, Managers and activities. The level of people and types of decisions and their information needs. Changing Environment and its impact on Business - The IT/IS and its influence. Information Technology Systems: Data, information and its attributes. Information Systems - meaning, functions and dimensions and need. Categorization of Organizational Information Systems - hierarchical and functional perspective. Managerial challenges related to use of information technology and systems in organization Strategic business use of IS: Interdependence between organization and IS 	10	17
	IS strategies for competitive advantage using Porter's Five Forces Model and Value Chain Model Growth of IT Sector in India; Trends in IT sector		
II	Types of Information Technology Systems - I: Meaning, functions and applications of: - Transaction Processing Systems - Management Information Systems - Decision Support Systems - Executive Support / Information Systems o Digital Dashboards o Data Visualization – Overview, Importance & Hands on session on Excel / Tableau o Artificial Intelligence and Machine Learning - Expert Systems	10	18



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	Overview of Data Communications and Networking		
	Layers:		
	Analog and Digital data, Analog and Digital Signals, Analog		
	versus Digital, Data Rate Limit, Transmission Impairment,		
	More about signals.		
	Data Communication: Characteristics of Data		
	Communication, Components of Data Communication		
	Data Flow : Simplex, Half Duplex, Full Duplex		
	Network Hardware: - LAN, MAN, WAN, Wireless		
	Networks and Internetworks		
	Network Software: Protocol Hierarchies, Design Issues for		
	the Layer, Interfaces and Services		
	Networking Layers: Physical Layer, Data Link Layer,		
III	Network Layer, Transport Layer, Session Layer, Presentation		
	Layer, and Application Layer.		
	Reference Models: Comparison of the OSI and TCP / IP		
	Reference Model	10	18
	Internet Fundamentals:		
	Internetworking, History & Scope of internet, Internet		
	protocol and standardization, Role of ISP & Factors for		
	choosing an ISP, Internet service providers in India, Types of		
	connectivity such as Dial Up, leased line, VSAT etc., Internet		
	server & client modules.		
	Internet Applications & Services:		
	E-Mail, Email protocols, Format of an email message, Email		
	routing, Email client, FTP, Types of FTP servers, FTP clients,		
	Telnet, Telnet protocol, Telnet Server, Telnet clients, Internet		
	Relay Chat, IRC network & servers, Channels, WWW (World		
	Wide Web), Browser.		
***	Information Security:	10	177
IV	• First line of defense – People /employees, Computer	10	17
	crime – hacking & cracking, cyber theft, unauthorized use		
	at work, software piracy, theft of intellectual property,		
	viruses & worms, adware and spyware		
	• Second line of defense – Technology for authorization,		
	prevention, detection and response - (Digital Signatures,		
	cryptography, Firewalls, Intrusion Detection Systems)		
	Information security Audit		
	• Information security Addit		
	Contemporary/ emerging technologies:		
	Cloud and mobile computing		
	• E-commerce, M-commerce		
	• E-Governance		
	• Internet of Things (IoT)		



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	Practical:	
V	Students should simulate an organization and its processes and create a hypothetical information system. Students	 (30 marks CEC)
	should study the information systems adapted by various	
	business entities.	

Pedagogy:

- ICT enabled Classroomteaching
- Casestudy
- Practical / liveassignment
- Interactive class roomdiscussions

4. Evaluation:

Students shall be evaluated on the following components:

	Internal Evaluation	(Internal Assessment- 50 Marks)
A	 Continuous EvaluationComponent 	30 marks
	Class Presence & Participation	10 marks
	• Quiz	10 marks
В	Mid-Semester examination	(Internal Assessment-30 Marks)
C	End –Semester Examination	(External Assessment-70 Marks)

5. ReferenceBooks

No.	Author	Name of the Book	Publisher	Yearof Publication / Edition
	Kenneth Laudon, Jane Laudon	Essentials of Management Information Systems	PHI	10 th
	Kenneth Laudon, Jane Laudon	Information Systems: Managing the Digital Firm Management	Pearson	Latest
3	Andrew S. Tanenbaum	Computer Networks	РНІ	Latest
4	Behrouz A. Forouzan	Data Communications and Networking	McGraw Hill	Latest
	Stephen Haag, Amy Philips	Business Driven Technology	McGraw Hill	Latest
6	James A O'Brien, George	Management Information	TMH	Latest

	M Marakas, Ramesh Behl	Systems		
7	Stephen Haag, Maeve	Management Information	McGraw Hill	Latest
	Cummings, Amy Philips	Systems for the		
		Information Age		
8	W.S. Jawadekar	Management Information	TMH	Latest
		systems		
9	Raymond McLeod and	Management Information	Pearson	10 th
	George P. Schell	systems		

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	Efraim Turban, Jay E.	Decision Support Systems	Pearson	Latest
	Aronson and Ting-Peng	and Intelligent Systems		
	Liang	Management		
11	EfraimTurban, Dorothy	Information Technology	Wiley	Latest
	Leidner, Ephraim McLean	for Management:		
	and James Wetherbe	Transforming		
		Organizations in Digital		
		Economy		

Note: Wherever the standard books are not available for the topic appropriate print and online resources, journals and books published by different authors may be prescribed.

6. List of Journals / Periodicals / Magazines / Newspapers / Web resources,etc.

- 1. MIS Quarterly, University of Minnesota
- 2. CIO
- 3. Computer Express
- 4. Digichip
- 5. PC World
- 6. Computer Shopper
- 7. Dataquest