



Program	Master of Business Administration (MBA)	Semester - 3
Type of Course	Major	
Prerequisite		
Rationale	-	
Effective From A.Y.	2024-25	

Teaching Scheme (Contact Hours)				Examination Scheme				
Lecture	Tutorial	Lab	Credit	Theory Marks		Practical Marks		Total Marks
				T	T	P	P	
4	-	-	4	50	30	-	-	150

SEE - Semester End Examination, T - Internal Theory, P - Internal Practical

Course Content		T - Teaching Hours W - Weightage	
Sr.	Topics	T	W
1	Introduction <ul style="list-style-type: none"> • <ul style="list-style-type: none"> ◦ System Definition and Concepts ◦ System Environments and Boundaries ◦ Real-time and distributed systems ◦ Basic principles of successful systems ◦ Structured System Analysis and Design • Systems Analyst <ul style="list-style-type: none"> ◦ Role and Need of Systems Analyst. ◦ Qualifications and responsibilities. ◦ System Analysis as a Profession • System Development Cycle: <ul style="list-style-type: none"> ◦ Introduction to Systems Development Life Cycle (SDLC). ◦ Various phases of SDLC: Study, Analysis, Design, Development, Implementation, Maintenance 	15	25
2	Systems Documentation Consideration <ul style="list-style-type: none"> • <ul style="list-style-type: none"> ◦ Principles of Systems Documentation ◦ Types of documentation and their importance ◦ Enforcing documentation discipline in an organization System Planning • Assessing Project Feasibility: <ul style="list-style-type: none"> ◦ Technical, Operational, Economic ◦ Cost Benefits Analysis ◦ Schedule, legal and contractual, Political ◦ Modern Methods for determining system requirements ◦ Assessing the value of IT investment 	15	25
3	Modular and Structured Design	15	25



Course Content		T - Teaching Hours W - Weightage	
Sr.	Topics	T	W
	<ul style="list-style-type: none"> • <ul style="list-style-type: none"> ◦ Module specifications ◦ Top-down and bottom-up design ◦ Module coupling and cohesion ◦ Structure Charts • System Design and Modelling: <ul style="list-style-type: none"> ◦ Process Modeling, logical and physical design ◦ Conceptual Data Modeling: <ul style="list-style-type: none"> ▪ Entity Relationship Analysis, Entity-Relationship Modeling, DFDs. • Process Description <ul style="list-style-type: none"> ◦ Structured English ◦ Decision Tree, Decision Tables ◦ Documentation <ul style="list-style-type: none"> ▪ Data Dictionary, Recording Data Descriptions. ◦ Input and Output: <ul style="list-style-type: none"> ▪ Classification of forms, Input/output forms design. ◦ User-interface design, Graphical interfaces. ▪ Standards and guidelines for GUI design ◦ Unified Modeling Language ▪ The Systems Analysts Toolkit – Communication Tools, CASE Tools, 		
4	System Implementation, Maintenance/Audit (Software Applications and IT Projects)	15	25
	<ul style="list-style-type: none"> • <ul style="list-style-type: none"> ◦ Planning considerations. ◦ Conversion methods, procedures and controls. ◦ System acceptance criteria. • System Implementation and Maintenance: <ul style="list-style-type: none"> ◦ Financial Analysis Tools ◦ Project Management tools ◦ System Evaluation and Performance ◦ Testing and Validation ◦ Preparing User Manual ◦ Maintenance Activities and Issues 		
Total		60	100

Suggested Distribution Of Theory Marks Using Bloom's Taxonomy

Level	Understanding	Analyze	Evaluate	Create
Weightage	25	25	25	25

NOTE : This specification table shall be treated as a general guideline for the students and the teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Course Outcomes

At the end of this course, students will be able to:	
CO1	Describe the concepts of systems analysis and Information Systems Development Cycle.
CO2	Solve a wide range of problems related to the analysis, design and construction of information systems.
CO3	Explore recent trends in software projects.
CO4	Design information system requirements of a business using modelling techniques such as data flow diagrams and entity relationship diagrams & systems maintenance program.



CO PO Mapping

CO	CO - 1	CO - 2	CO - 3	CO - 4
PO - 1	3	3	3	3
PO - 2	2	2	2	2
PO - 3	0	0	1	1
PO - 4	0	0	2	0
PO - 5	0	1	0	2

Reference Books

1.	Modern Systems Analysis and Design (TextBook) By Jeffrey A. Hoffer, Joey F. George, Joseph S. Valacich Pearson Latest Edition
2.	Software Engineering (TextBook) By Roger Pressman, Bruce Maxim McGraw Hill 8th, Pub. Year 2014
3.	System Analysis and Design (TextBook) By Kenneth A. Kendall, Julie E. Kendall Pearson 9th, Pub. Year 2013
4.	Software engineering principles & practice (TextBook) By Waman S. Jawadekar McGraw Hill Latest Edition