

**MBA SYLLABUS: SEMESTER IV
INFORMATION TECHNOLOGY MANAGEMENT - SPECIALIZATION**

Semester	IV	Specialization	Information Technology
Course Code	403IT	Type	Subject Core
Course Title	Software Project Management		

Course Objectives:

1	To understand different aspects of Software Project Management as an important field of practice under IT Management
2	To learn tools and techniques of Software Project Management
3	To understand importance of, and learning techniques to ensure, software quality
4	To learn to use a Software Package for Software Project Management

Syllabus:

Unit Number	Contents	Number of Sessions
1	Introduction to Software Project Management – Software Projects Vs. Other Projects – Contract Management and Technical Project Management – Activities under technical project management – Plans, Methods and Methodology – Stakeholders – Business Case.	7 + 1
2	Project Planning, Evaluation and Program Management – Steps in Project Planning and Project Evaluation – Strategic Assessment – Technical Assessment – Cost Benefit Analysis –Cash Flow Forecasting – Process Models – Prototyping – Dynamic Systems Development – Extreme Programming – Managing Iterative Processes.	7 + 2
3	Software Effort Estimation – Estimation Techniques – Expert Judgment – Analogy – Function Point Analysis – Object Points – Procedural Codes – COCOMO Model Activity Planning – Project Schedules – Sequencing and Scheduling – Network Planning – Using PERT and CPM for activity planning – Forward Pass – Backward Pass – Activity-on-arrow networks Managing Contracts – Types of contracts – Stages in contract placement – Contract Management and Acceptance Software Quality Management – Defining Software Quality – Requisite ISO Standards – Product Vs. Process Quality – Enhancing Software Quality – Quality Planning	9+2
4	Risk Management in Software Projects – Nature and Types of risk – Managing risks – Risk Analysis, Planning and Control – Strategies for risk reduction – PERT as a tool of Risk Management Resource Monitoring and Control–Creating Control Framework – Reporting for	7+2

	Control – Visualizing Progress – Cost Monitoring – Change Control	
5	Using Project Management Software – Introduction to either of Microsoft Project 2010, Prince2 and Primavera and learning to use any one of these products	5+3

Learning Resources:

1	Text Books	Software Project Management, 5 th Edition, Hughes, Cotterel, Rajib Mall, Tata McGraw Hill
2	Reference Books	Software Project management in practice by Pankaj Jalote Software project management by Rajendra Mishra
3	Supplementary Reading Material	
4	Websites	www.projectbubble.com www.sei.cmu.edu
5	Journals	International Journal of Software Project management

Semester	IV	Specialization	Information Technology
Course Code	404IT	Type	Subject Core

Course Title	Enterprise Resource Planning
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Course Objectives:

1	To acquire in-depth knowledge of ERP as a prime Application Software product
2	To learn operational aspects of ERP implementation and support
3	To know features of important ERP modules
4	To learn, through case studies, practical aspects of ERP in various industries

Syllabus:

Unit Number	Contents	Number of Sessions
1	Enterprise Resource Planning What is ERP? - Features of ERP (Basic and Advanced) – ERP Architecture – ERP Need Analysis – Return on Investment for ERP	7+2
2	ERP Implementation and Support ERP Life Cycle, Methodologies and Strategy – Vendor and Software Selection –Business Process Re-engineering related to ERP - Implementation Process – Change Management – Post Implementation Support, Maintenance, Security	5+2
3	ERP Functional Modules Human Resource Management Accounting and Finance Procurement, Inventory Control Production Planning, Operations Sales, Customer Relationship Management e-Commerce	9+2
4	ERP Technology Areas, Enterprise Applications Portal and Content Management, Data Warehousing and Data Mining, Business Intelligence and Analytics - Emerging Trends in ERP Applications	7+2
5	ERP Case Studies Case Studies of ERP Implementation in Manufacturing and Service Sectors	7+2



Learning Resources:

1	Text Books	Enterprise Resource Planning, Ray, Tata McGraw Hill
2	Reference Books	ERP Demystified, Alexis Leon, Tata McGraw Hill Enterprise Resource Planning, A Managerial Perspective, Goyal, Tata McGraw Hill
3	Supplementary Reading Material	Enterprise Resource Planning (ERP): A review of the literature by Young B. Moon, International Journal of Management and Enterprise Development, Vol. 4, No. 3
4	Websites	www.sap.com erp.iitkgp.ernet.in
5	Journals	Journal of Enterprise Resource Planning Studies