Sub. Code	Subject	Teaching Hours		Assessment Patterns				No. of Credits
		No. Of Sessions of 90 Minutes	No. Of sessions per week	Continuous Assessment	Semester End Exami nation	Total Marks	Duration of Theory Paper	
4.1	Customer Relationship Management and Supply Chain Management (CRM & SCM)	30	2	40IA	60UA	100	3	2.5
4.2	Creativity and Innovation Management	30	2	40IA	60IA	100	3	2.5
4.3	Software Management	30	2	40IA	60UA	100	3	2.5
4.4	Entrepreneurship Management and Digital Entrepreneurship	30	2	40IA	60IA	100	3	2.5
4.5	Elective-I	30	2	40IA	60IA	100	3	2.5
4.6	Elective II	30	2	40IA	60IA	100	3	2.5
	Industry Oriented Dissertation			100				2.5
				Total No of	Credits			17.5

# **MMS SEMESTER IV (Core And Elective Papers)**

UA-University Assessment IA-Internal Assessment

## **Elective Papers For Semester IV**

Subject	Groups				
Code	Digital	Marketing &	Human Resource &	Finance &	Information
	Business	Digital Marketing	Digital Human	Digital	Technology
	Group I	Group II	Resource	Finance	Group V
			Group III	Group IV	
4.5	Digital	Lead Generation	Competency Mapping	Corporate	Software
	Technology	for business &	& Performance	Valuation	Project
	Management	Mobile Web	Management		Management
	-	Marketing			-
4.6	Digital Asset	Content	Compensation and	Security	IT
	Management	Marketing and	Rewards	Analysis &	Infrastructure
	-	Affiliate	Management.	Portfolio	Management
		Marketing	-	Management	-

Semester	Total No. of Credits
Semester I	20
Semester II	20
Semester III	22.5
Semester IV	17.5
TOTAL	80

## 4.1 Customer Relationship Management and Supply Chain Management-100 Marks-University Assessment-15 Sessions of 3 hours-Semester IV

SL.No.	Particulars	Sessions
1.	<b>Overview of SCM</b> - Meaning, Definition, Stages of SCM development Definition of E-SCM, Characteristics of e-SCM,	3 Sessions of 3 Hours
	E-SCM- Relation to ERP, e-Procurement, e-logistics, Internet Auctions, e-Markets, Electronic business process optimization, business objects in SCM	
	Developing e-SCM strategies the Game Plan for E-SCM Success	
	Changing view of Enterprise Strategy and Barriers to e-SCM,	
	Preliminary Stages in e-SCM Strategy Development, Developing the e- SCM Strategy	
2.	Customer Centric Supply Chain-	2 Sessions of
	Definition of CRM, CRM is strategic tool, Emerging concepts in CRM, Conceptual Framework of CRM, Mapping the Cluster of CRM Components, Today's Customer Dynamics, Creating Customer Centric Organization	3 Hours
3.	<b>Technology tools for CRM</b> - Data mining for CRM-some relevant	2 Sessions of
5.	issues, Changing patterns of e-CRM solutions in the future, how to structure a customer focused IT organizations to support CRM, Framework for Developing Customer relationship in organization, E- CRM, deriving value of customer relationship, review and comparative	3 Hours
	assessment of CRM solutions for key verticals, the evolution of relationship in e- CRM marketing.	
4.	<b>Implementing CRM</b> - Partner Relationship Management, Electronic Bill Presentment and Payment, CRM Analytics- Optical allocation rules for CRM, Measuring the effectiveness of relationship marketing, the past, present and future of CRM, implementing a technology based CRM solution, Decision metrics for CRM solutions , Characteristics of a good customer satisfaction survey CRM and its measurement-Customer Equity and Customer Life Time Value ("CLV")	2 Sessions of 3 Hours
5.	<b>Current Trends, Issues and Challenges in CRM</b> - To bid or to buy? Online shoppers preferences for online purchasing channels Overcoming visibility issue in a small to medium retailer and using automatic identification and data capture technology The Hispanic view of e-mail, popup and banner advertising The trade value perspective of EC: an integration of transaction value and transaction cost theory, Effect of e-CRM value perception on website loyalty	2 Session of 3 Hours
6.	<b>Supplier Relationship Management</b> -Integrating suppliers into the e- value chain-Definition and Components of SRM, Internet Driven SRM Environment Anatomy of E-SRM Market Place Exchange Environment, Implementing e-SRM	1 Session of 3 Hours
7.	<b>Logistic Resource Management(LRM</b> )-Definition, Defining e-LRM, Understanding the Third Party Logistics Network, Choosing and Implementing an LSP Solutions	1 Session of 3 Hours
8.	Architecting the e-SCM environment- Organizational and Technology Architecture, The future of e-sCM	1 Session of 3 Hours
9.	Case studies and Presentations	1 Session of 3 Hours

- 1. E-CRM analytics –igi-global.com
- 2. Customer Relationship Management, Jagdish Sheth & G shainesh
- 3. CRM : Emerging Concepts, Tools and Applications : Jagdish Seth & Parvatiyar
- 4. CRM Essentials, J W Gosney
- 5. N. Viswanathan, Analysis of Manufacturing Enterprise, Kluwer Academic Publishers, 2000
- 6. R.B. Handfield and E.L.Nochols Jr, Introduction to Sypply Chain Management, Prentice Hall, 1999
- 7. Sunil Chopra and Peter Meindel, Supply Chain Management Strategy, Planning and Operation, Prentice Hall 2002
- 8. Introduction to e-Supply Chain Management- A CRC Press Company

Semest		
SL.No.	Particulars	Sessions
1.	Introduction Creativity and Innovation- Nature of Creativity: Person,	2 Sessions
	Process, Product and Environment	of 3 Hours
	Nature of Innovation: Making the Idea a Reality	
2.	Need for Creativity and Innovation in Organizations3Role of	3 Sessions
	Creativity and Innovation in the Organisation	of 3 Hours
	Dynamics that underlie Creative Thinking	
3.	Creative insight: Why do good ideas come to us and when they do?	2 Sessions
	Idea evaluation: What to do with generated ideas?	of 3 Hours
	Creativity in Teams	
4.	Developing and Contributing to a Creative-Innovation Team	2 Sessions
	Managing for Creativity and Innovation	of 3 Hours
	Tools and Techniques in Creativity	
5.	Evolving a Culture of Creativity and Innovation in Organizations	2 Session of
	Creativity in the Workplace	3 Hours
	Creativity and Change Leadership	
6.	Researching/Assessing Creativity	2 Sessions
	Global Perspectives on Creativity	of 3 Hours
7.	Case Studies and Presentations	2 Sessions
		of 3 Hours

# 4.2 Creativity & Innovation Management 100 Marks -15 Sessions of 3 Hours Each Semester IV

- 1. Innovation Management Allan Afuah Oxford Publications
- 2. Managing & Shaping Innovation Steve Conway & Fred Steward Oxford Publications

SL.No.	Particulars	Sessions
1.	The Software Engineering Discipline – Evolution And Impact;	3 Sessions
	Programs Vs. Software Products; Why Should Software	of 3 Hours
	Engineering; Emergence Of Software Engineering: Early	each
	Computer Programming, High-level Language Programming,	
	Control Flow-based Design, Data Software Life Cycle Models;	
	Classical Waterfall Model; Iterative Watermill Model;	
	Prototyping Model; Evolutionary Model; Spiral Model	
2.	Software Project Management; Responsibilities Of A Software	2 Sessions
	Project Manager; Project Planning; Materials For Project Size	of 3 Hours
	Estimation:	each
3.	Classical Analysis & Design Of Software :	3 Sessions
	Requirements Gathering And Analysis; Software Requirements	of 3 Hours
	Specification (Srs): Contents Of The Srs Document, Functional	each
	Requirements, Traceability, Characteristics Of A Good Srs	
	Document;	
4.	Software Design; Cohesion And Coupling, Classification Of	2 Sessions
	Cohesiveness, Classification Of Coupling; Software Design	of 3 Hours
	Approaches: Function-oriented Design, Object-oriented	each
	Design; Function-oriented Software Design; Overview Of	
	Sa/Sd Methodology; Structured Analysis; Data Flow Diagrams	
	(Dfds): Primitive Symbols Used For Constructing Dfds, Some	
	Important Concepts Associated With Designing Dfds; Structured	
	Design: Flow Chart Vs. Structure Chart, Transformation Of A	
	Dfd Model Into A Structure Chart;	
5.	Software Quality: Coding: Coding Standards And Guidelines;	3 Sessions
	Code Review: Code Walk- throughs, Code Inspection; Testing:	of 3 Hours
	Verification Vs. Validation, Design Of Test Cases; Unit	each
	Testing; Black-box Testing; White-box Testing; Debugging;	
	Integration Testing; System Testing: Performance Testing;	
	Software Reliability And Quality Management: Software	
	Reliability: Reliability Metrics, Statistical Testing; Software	
	Quality; Software Quality Management System: Evolution Of	
	Quality System;	
6.	Case Study	2 Sessions
		of 3 Hours
		each
Reference	e Text	
	indamentals of Software Engineering, Mall, Rajib, PHI. 2. Software	
	ngineering - A Practitioner's Approach,	
	oger Pressman,	
	oftware Engineering, Sommerville, Pearson.	
J. D	or the month of the south of the state of th	

### 4.3 Software Management 100 Marks -15 Sessions of 3 Hours- Semester IV

- 3. Software Engineering, Sommerville, Pearson.
- 4. An Integrated approach to Software Engineering, Jalote, Pankaj

SL.No.	Particulars	Sessions
1.	Introduction- Concept of Entrepreneur, Entrepreneurship and Enterprise,	2 Sessions
	Intrapreneur, Attributes and Characteristics of a Successful Entrepreneur,	of 3 Hours
	Role of entrepreneur in Indian Economy and Developing economies,	
	Entrepreneurial Culture	
2.	Digital Business in Perspective- The digital opportunity, Business	1 Session
	risk and challenges, The need for business agility	of 3 Hours
3.	Developing a Business Plan-the Importance of Business Planning,	2 Session
	Components of Business Plan Business Planning Process, Environmental	of 3 Hour
	Analysis-Search and Scanning, Defining Business Idea, Government	
	Procedures to be complied with	
4.	Project Management- Technical, Financial, Marketing, Personnel and	3 Session
	Management Feasibility, Estimating Fund Requirement and Fun Raising,	of 3 Hour
	Venture Capital Funding	
5.	Business Models and Strategies- Business Models for e-business, Selection	3 Sessions
	of Appropriated Business model, Digital Strategy and Planning and	of 3 Hour
	Building Digital Business	
6.	Government Initiatives- Role of Central and State Government in	2 Session
	Entrepreneurship Promotion	of 3 Hour
	Different Agencies- District Industrial Centres(DIC), Small	
	Industries Service Institute (SISI), Entrepreneurship Development	
	Institute of India (EDII), National Entrepreneurship and Small	
	Business Development (NIESBUD), National Entrepreneurship	
	Development (NEDB),	
7.	Case Studies and Presentations	2 Sessions
		of 3 Hour

#### 4.4 Entrepreneurship Management and Digital Entrepreneurship-100 Marks -15 Sessions of 3 Hours- Semester IV

- 1. Entrepreneurship: New Venture Creation- David H, Holt
- 2. Entrepreneurship-Hisrich Peters
- 3. The Culture of Entrepreneurship-Brigtte Berger
- 4. Project Management- K. Nagarajan
- 5. Entrepreneurship Development-Dr. P.C. Shejwalkar
- 6. Entrepreneurship Development-Shri. Vasant Desai

#### GROUP I DIGITAL BUSINESS MANAGEMENT ELECTIVE PAPER

# 4.5 Digital Technology Management-100 Marks-15 Sessions of 3 Hours-Semester IV

SL.No.	Particulars	Sessions
1.	Digital Technology- Introduction, Technology Discontinuity,	1 Session
	Disruptive Technology, Value Creation, Strategic Implementation,	of 3
	Meaning and Definition of Digital Technology, Embedded Systems,	Hours
	Network Standards, Embedded Software (Give Examples of	
	Embedded Software use in different industry)	
2.	Strategic Implications of Digital Technology- Implications on	1 Sessions
	Industry Structure, Implications on Critical Success Factors and	of 3
	Implications of Generic Strategies	Hours
3.	<b>Technology Absorption and Diffusion</b> – Key Challenges in	<b>3</b> Sessions
	absorption, adaptation and improvement of Digital Technology- New	of 3
	competitive world, Market driven challenges, The Organizational	Hours
	Challenge of Managing complex networks	
	Diffusion of Technology: Rate of Diffusion- Innovation Time and	
	Innovation Cost-Speed of Diffusion-Technology indicators	
4.	Organization of Digital Technology- Major goals of the industry,	5
••	Digital Technology policies, incentives and Support mechanisms	Sessions of
	<b>Digital Technology and Process Innovation</b> - Digital Technologies	3 Hours
	and Organizational routines and business processes, Internet based	Silouis
	Collaborative Systems, Rethinking of Supply Base Relationship and	
	Consumer centricity	
	<b>Digital Technologies and Product/Service Innovation</b> - Organizing	
	for digitally enabled products/services, Digitization of physical	
	products and changes in strategy, Digital Product architecture,	
	Digitization, product modularity and related modes of organizing,	
	Digital controls and organizing	
	<b>Emerging Infrastructures-</b> Digital innovation platforms, Organizing	
	for the development of digital infrastructure, Digital tools enabling	
	creativity, design, engineering and other innovative activities e.g.	
	CAD, CASE tools and Software development, CAS tools,	
	Infrastructures for organizational and interorganizational innovation	
	such as Product Lifecycle Management systems in manufacturing,	
	Building information modelling, organizational elements of	
	integrating disparate digital technologies, or of digital with non	
	digital systems	
5.	<b>Functional Aspects</b> -Capturing Value from Digital Technology,	3 Sessions
5.		of 3
	System Safety, Cost of Digital Technology and Software Reuse,	Hours
	System Reliability, Software System Testing, The Role of Standards, The Human aspects in Digital Technology Management Integration	nours
	The Human aspects in Digital Technology Management-Integration	
6	of People and Technology	2.6
6.	Case Studies and Presentations	2 Sessions
		of 3
		Hours

## 4.6 Digital Asset Management-100 Marks-15 Sessions of 3 Hours-Semester IV

SL.No.	Particulars	Sessions
1.	CREATING DIGITAL CONTENT	3 Sessions
	Digital Primer, Any Content – Anywhere, Anytime, Digital Content	of 3 Hours
	Consumer, Tools and the Trade, Digital Recording, CGI and Digital	
	Content Creation, Digital Audio,	
	Rich Media, Streaming Media, Digital Interactive Television, Digital	
	Cinema.	
2.	COMPRESSING AND INDEXING	3 Sessions
	Document Databases, Compression, Indexes, Text Compression,	of 3 Hours
	Indexing Techniques, Image Compression, Mixed Text and Images	
3.	CONTENT MANAGEMENT	3 Sessions
	Systems for Managing Content, The Enterprise Content Management	of 3 Hours
	System (CMS), Major parts of a CMS, Need for a CMS, Roots of	
	Content Management, Branches of Content Management	
4.	DESIGN OF CMS	2 Sessions
	The Wheel of CMS, Working with Metadata, Cataloging Audiences,	of 3 Hours
	Designing Publications, Designing content Components, Accounting	
	for Authors, Accounting for Acquisition sources,	
5.	BUILDING CMS	2 Sessions
	Content Markup Languages, XML and Content Management,	of 3 Hours
	Processing Content	
6.	Case Studies and Presentations	2 Sessions
		of 3 Hours

- 1. John Rice and Brian Mckerman (Editors), Peter Bergman, "Creating Digital Content", McGraw-Hill, USA, 2001[UNIT 1]
- 2. Ian H Witten, Alistair Moffat, Timothy C Bell, "Managing Gigabytes", Academic Press, USA, 1999 [UNIT 2]
- 3. Bob Boiko, "Content Management Bible", John Wiley & Sons, USA, 2001 [UNITS 3,4,5]
- 4. Abdreas Ulrich Mauthe and Peter Thomas, "Professional Content Management Systems Handling Digital Media Assets", John Wiley & Sons, USA, 2004
- 5. Dave Addey, James Ellis, Phil Suh, David Thiemecke, "Content Management Systems (Tool of the Trade)", Apress, USA, 2003.

#### GROUP II MARKETING AND DIGITAL MARKETING ELECTIVE PAPER

# 4.5a Lead Generation for Business 50 Marks-08 Sessions of 3 Hours-Semester IV

SL.No	Particulars	Sessions
1.	Understanding Lead Generation For Business	6 sessions of 3 hours
	Why Lead Generation is important	
	Understanding Landing Pages	
	Understanding Thank You Page	
	Landing Page vs. Website	
	Best practices to create a landing page	
	Best practices to create a thank you page	
	Reviewing landing pages	
	What is A/B Testing	
	How to do A/B Testing	
	Selecting landing pages after A/B Testing	
	Converting leads into sales	
	Creating lead nurturing strategy	
	Understanding lead funnel	
	Steps in lead nurturing	
2.	Case studies and presentations	2 sessions of 3 hours

SL.No	Particulars	Sessions
1.	Understanding Mobile Devices	5 Sessions of
	Mobile Marketing and Social Media	3 hours
	Mobile Marketing Measurement and Analytics	
	Fundamentals of Mobile Marketing	
	Key Industry Terminology	
	Creating Mobile website through wordpresses	
	Using tools to create mobile websites	
	Using tools to create mobile apps	
	Advertising on mobile (App & Web)	
	Targeting ads on Apps	
	Targeting ads via location	
	Targeting ads on search engine	
	Targeting ads on telcos data	
	Content Marketing on Mobile	
	Mobile strategy segmentations option, targeting and	
	differentiation	
	Mobile Marketing Mix	
	SMS Marketing	
	Creating mobile application	
	Uploading mobile app in android and iox	
2.	Case studies and presentations	2 Session of
		3 hours each

# 4.5b Mobile Web Marketing 50 marks (7 Sessions of 3 Hours Each) Semester -IV

# 4.6 Content Marketing and Affiliate Marketing 100 marks- 15 Sessions of 3 Hours Each- Semester- IV

SL.No	Particulars	Sessions
1.	Introduction to content marketing	6 sessions of
	Objective of Content Marketing	3 hours
	How to write Compelling Content	
	Understanding Keyword Research for Content	
	Content Marketing Process	
	Unique ways to write Magnetic headlines	
	Some content marketing secrets – learning from experts	
	Using Template to create content	
	Overcoming Content Marketing Roadblocks	
	Optimising Content for Search Engines	
	Promoting Content to increase traffic, engagement & sales	
	How to magnetise your content	
	Examples of top content marketing	
2.	What is affiliate marketing?	6 sessions of
	3A's of Affiliate marketing	3 hours
	How people make millions of dollars in Affiliate marketing	
	Affiliate Marketing History	
	Changes in Affiliate marketing industry over the years	
	Affiliate marketing scenario in India	
	How to be a super affiliate and make tons of money	
	Different ways to do affiliate marketing	
	Affiliate Marketing Secrets	
	How your trainer makes money in affiliate marketing	
	How people make money in affiliate marketing	
	Top affiliate networks in the world	
3.	Case studies and presentations	3 sessions of
		3 hours each

#### GROUP III HUMAN RESOURCE AND DIGITAL HUMAN RESOURCE ELECTIVE PAPER

# 4.5 Competency Mapping and Performance Mangement-100 marks- 15 Sessions of 3 Hours Each- Semester- IV

SL.No	Particulars	Sessions
1.	Competency at work	4 Sessions of
	□ The competency model for the New HR Professional	3 Hours each
	□ Strategic Contribution	
	Personal Credibility	
	□ HR Delivery	
	□ Business Knowledge	
	□ HR Technology	
	□ Concepts of competency, competency at work	
	□ Types of competencies – behavioural and technical	
	□ Competency description	
	□ Competency levels	
	□ Designing competencies dictionary	
	□ Measuring of mapping competencies	
	□ Assessment centre	
	□ Conducting and operating assessment centre	
	□Role of assessors in an assessment centre	
	□ Designing tools in an assessment centre	
	□ Feedback mechanism	
2.	Competency Method in Human Resource Management:	4 Sessions of
	Features of Competency Methods - Definitions - Approaches	3 Hours each
	to Mapping	
	Competency Mapping Procedures and Steps: Business	
	Strategies -Performance Criteria -Criteria Sampling- Tools	
	for Data Collection - Data Analysis -Validating the	
	Competency Models -Short Cut Method -Mapping Future	
	Jobs Single Incumbent Jobs =Using Competency Profiles in	
	HR Decisions	
	Methods of Data Collection for Mapping: Observation	
	Repertory Grid- Critical Incidence Technique- Expert Panels-	
	Surveys - Automated Expert System- Job Task Analysis-	
	Behavioral Event Interview	
	Developing Competency Models from Raw Data:- Data	
	Recording- Analyzing The Data - Content Analysis of Verbal	
	Expression- Validating the Competency Models	
	Zapression - randaling the competency models	
3.	Performance Management(PM)-Definition, The PM	1 Session of
	Contribution, aims and Role of PM systems, Characteristics	3 Hours
	of an Ideal PM System, PM Process, PM and Strategic	
	Planning	
	······································	

4.	Performance Appraisal System Implementation-Defining	2 Sessions of
	Performance, Determinants of Performance, Dimensions of	3 Hours
	performance, Approaches to Measuring Performance,	
	Diagnosing The causes of poor performance, Differentiating	
	Task from Contextual Performance, Choosing a	
	Performance Measurement Approach, Measuring Results	
	and behaviours, Gathering Performance Information,	
	Implementing PMS	
5.	Conducting Staff Appraisals-Introduction, need, Skills	1 Session of
	required, The role of the Appraiser, Appraisal methods,	3 Hours
	Raters errors, Data Collection, Conducting an Appraisal	
	interview, Follow Up and Validation	
6.	Performance Consulting-Concept, Need, Role of the	1 Session of
	Performance Consulting, Designing and using Performance	3 Hours
	Relationship Maps, Contracting for Performance Consulting	
	Services, Organizing Performance Improvement Department	
7.	Case Studies and Presentations	2 Sessions of
		3 Hours

- 1. The Handbook of Competency Mapping: Understanding, Designing and Implementing Competency Models in Organizations by Seema Sanghi Sage Publications Pvt. Ltd;
- 2. Competency Mapping by R K Sahu, Publisher : Excel ASTD Competency Study: Mapping the FuturebyPaul R. Bernthal, Publisher: ASTD Press (June 6, 2004)
- 3. Performance Management by Julie Freeman.
- 4. Bringing out the best in people by Daniels.
- 5. Effective Performance Appraisal by James Neil.

# 4.6 Compensation and Rewards Management- 100 marks- 15 Sessions of 3 Hours Each-Semester- IV

SN.	Particulars	Sessions
1.	Introduction-Reward Strategies, Elements of reward strategies,	6 Sessions
	Compensation /Remuneration in place reward strategies	of 3
	Different elements of compensation structure, Types of grades and pay	Hours
	Structures	
	Developing grade and pay structures, Individual pay, team paying for organizational performance	
	CTC of each element of compensation structure, understanding inflation	
	and Provident Fund, Types of Variable Pays, Arriving at CTC of an	
	employee/Candidate, Remuneration Survey, Equity Compensation Plans	
2.	Reward Management: Definition, Aims of reward management, reward	6 Sessions
	system, elements of reward system, factors affecting reward system,	of 3
	policy and practice, impact of environment, internal & external	Hours
	Reward management for special groups- Rewarding directors and senior	
	executives, international reward, rewarding sales and customer service	
	staff, rewarding knowledge workers, shop floor pay	
	Union role in Reward Management- Impact of Trade Union on reward	
	determination, unions and alternative reward system, Govt. and legal	
	issues in reward system, reward system in India, National wage policy	
3	E-Compensation Systems-Employee Information, Attendance Record,	2 Sessions
	Leave Record, Emoluments and PF details, Generate Pay Slips, TDS	of 2 H
	forms, Form 16, Employee Training Identifier and Training programmes	3 Hours
	Need for E-Compensation System, Overview of different vendors	
	providing E-compensation systems	
4	Case Studies and Presentations	1 Session of 3 Hours

#### GROUP IV FINANCE AND DIGITAL FINANCE ELECTIVE PAPER

#### 4.5 Corporate Valuation-100 marks- 15 Sessions of 3 Hours Each- Semester- IV

SL.No	Particulars	Sessions
1.	Approaches to Valuation	1 Session of
		3 Hours
2.	Valuation Tools: An overview	1 Session of
	The Time Value of Money, Risk Measurement, Accounting data,	3 Hours
	Statistics, Looking for Relationships in the Data	
	Purposes For Valuation And Various Special Situations	
3.	Discounted Cash Flow Valuation - a) Basics b) Estimating	2 Sessions
	Inputs Discount RatesGrowth flowsGrowth Growth	of 3 Hours
	Patterns	
	c) Choosing the Right Model	
	d) Loose Ends Dealing with Cash and Cross Holdings	
	Dealing with Management Options/ Warrants/ Convertibles	
	e) Examples of Valuation	
4.	Relative Valuation a. Basics and Tests b. Multiples	3 Sessions
	PE Ratio	of 3 Hours
	PEG Ratios	
	Relative PE Ratios	
	EV/EBIT Multiples	
	Book Value Ratios	
	Sales Multiples	
	Choosing the right multiple	
5.	Brand Name Valuation	1 Session of
		3 Hours
6.	Valuing Private Companies	1 Session of
		3 Hours
7.	Option Pricing Applications in Valuation	1 Session of
		3 Hours
8.	Valuation in Acquisitions	2 Sessions
		of 3 Hours
9.	Value Enhancement : DCF, EVA, and CFROI	1 Session of
		3 Hours
10.	Case Studies and Presentations	2 Sessions
		of 3 Hours

- 1. Koeller, Goedhart, and Wessels, Valuation: Measuring and Managing the Value of Companies, John Wiley & Sons, 4th Edition, 2005.
- 2. Palepu, Healy, and Bernard, Business Analysis and Valuation Using Financial Statements, Southwestern Publishing, 3rd Edition, 2000.
- 3. Pereiro, Valuation of Companies in Emerging Markets: A Practical Approach, John Wiley & Sons, 1st Edition, 2002.
- 4. Ross, Westerfield, Jaffe, Corporate Finance
- 5. Brearly Myers, Corporate Finance
- 6. Aswath Damodaran, Valuations
- 7. Corporate Valuation Prasanna Chandra

Semester		
SL.No	Particulars	Sessions
1.	RISK AND RETURN	2 Sessions
	• Risk and return in each asset class - equity, fixed income, MF etc.	of 3 Hours
	• Simple determination of stock market price using time value of	
	money - simple one period and multi period case.	
	• Return on common stock under uncertainty, for a single stock	
	Expected Return, Variance of Return, and Concept of probability	
	Distribution of Returns.	
	Co-movement of two Assets returns, Measuring of Covariance	
	definition and Simple Numerical Example, Correlation	
	Coefficient	
	• Two asset portfolio case, expected return and variance of returns	
	of a Two asset Portfolio Simple Numerical Example and	
	Graphical Illustration	
2	Diversification of Risk, Systematic and Unsystematic risk	2 5
2.	MODERN PORTFOLIO THEORY	2 Sessions
	General N-asset Portfolio Problem, Marches Model: Objectives     Example and Constants	of 3 Hours
	Function and Constraints, Magning of Efficient Frontier / Set Concert of CML (Conital	
	Meaning of Efficient Frontier / Set, Concept of CML (Capital Market Line). Concept of	
	Market Line), Concept of Market Partfalia, Bigk Free rate, Barrowing and Londing rates	
3.	Market Portfolio, Risk Free rate, Borrowing and Lending rates     SHARP'S SINGLE INDEX OR MARKET MODEL:	2 Sessions
5.	<ul> <li>How Asset Returns move with the market.</li> </ul>	of 3 Hours
	<ul> <li>Slope of security Market Line (SML)</li> </ul>	01 5 11001 5
	<ul> <li>Properties of any asset on the line.</li> </ul>	
	<ul> <li>Assumptions and some empirical evidence of CAPM</li> </ul>	
	<ul> <li>Arbitrage pricing theory - Introduction</li> </ul>	
4.	CAPITAL ASSET PRICING MODEL:	2 Sessions
	Statement of CAPM.	of 3 Hours
	• Slope of security Market Line (SML)	
	<ul> <li>Properties of any asset on the line.</li> </ul>	
	<ul> <li>Assumptions and some empirical evidence of CAPM</li> </ul>	
	• Arbitrage pricing theory – Introduction	
5.	EFFICIENT MARKET HYPOTHESIS (EMH) :	2 Sessions
	Random walk theory	of 3 Hours
	• Weak, Semi-Strong and Strong form	
	• Empirical Evidence of EMH	
	• Anomalies in the markets: Firm Size Effect, January Effect,	
	Monday Effect.	
6.	HEDGING, SPECULATION AND MANAGING RISK - RETURN	2 Sessions
	BALANCE	of 3 Hours
	• Effect of taxation on investment decision, permissible deductions,	
	exemptions, tax free investments, tax lots and loss harvesting	
	• Asset allocation basics - as per IPS, tolerance definitions,	
	substitution rules	
	• Weighted average cost of capital, portfolio beta and risk premium	

4.6 Security Analysis and Portfolio Management-100 marks- 15 Sessions of 3 Hours Each-Semester- IV

	<ul> <li>Using fundamental analysis for security selection and technical analysis for timing of orders</li> <li>Investor behaviour analysis - cyclic nature, need induced decisions, tax dependencies, risk and return expectations, modeling using intelligence derived from behavioural analysis</li> </ul>	
7.	PORTFOLIO PERFORMANCE MEASURES	1 Session of
	• Sharp Index	3 Hours
	Treynor Index	
	• Jensen's Measure	
	• · Empirical Test of Mutual Fund Performance & EMH	
8.	Case Studies and Presentations	2 Sessions
		of 3 Hours

### Reference Text:

1. Security Analysis and Portfolio Management (6th Edn.) By Donald Fischer and Ronald Jordan, Prentice Hall of India (1995)

2. Securities Analysis and Portfolio Management , Prasanna Chandra, Tata McGraw Hill (2002)

#### GROUP V INFORMATION TECHNOLOGY ELECTIVE PAPER

## 4.5 Software Project Management-100 marks- 15 Sessions of 3 Hours Each- Semester- IV

SL.No	Particulars	Sessions
1.	An overview of IT Project Management - Introduction, the	2 Sessions
	state of ITproject management, context of project	of 3 Hours
	management, need of project management, project goals, project	
	life cycle and IT development, extreme project management,	
	PMBOK.	
	IT Project Methodology ITPM), project feasibility, request for	
	proposal (RFP), the business case, project selection and approval,	
	project contracting, IT governance and the project office.	
2.	The Human Side of Project Management- Introduction,	1 Session of
	organization and project planning, the project team, the	3 Hours
	Project environment.	
3.	Introduction, project management process, project integration	2 Sessions
	Management, the project charter, project planning framework, the	of 3 Hours
	contents of a project plan, the planning process. The Work	
	Breakdown Structure (WBS), the linear responsibility chart,	
	Multidisciplinary teams.	
4.	The Scope Management Plan- Introduction, scope planning,	1 Session of
	project scope definition, project scope	3 Hours
	Verification, scope change control.	
5.	The Project Schedule, Budget and Risk Management-	2 Sessions
	Introduction, developing the project schedule, project	of 3 Hours
	management software tools, methods of budgeting, developing the	
	project budget, improving cost estimates, finalizing the project	
	schedule and budget.	
	IT project risk management planning process, identifying IT	
	project risks, risk analysis and assessment, risk strategies, risk	
	monitoring, and control, risk responses and evaluation.	
6.	Allocating Resources to the Project- Resource loading, resource	1 Session of
	levelling, allocating scarce	3 Hours
	resources to projects and several projects, Goldrattís critical chain.	
7.	The Project Communication Plan-Introduction, monitoring and	1 Session of
	controlling the project, the project communications plan, project	3 Hours
	metric, project control, designing the control system, the plan	
	monitor control cycle, data collection and reporting, reporting	
	performance and progress, information distribution.	
8.	Managing Change, Resistance and Conflicts	1 Session of
		3 Hours
9.	Managing Project Procurement and Outsourcing	1 Session of
	10.1 Introduction, project procurement management, outsourcing.	3 Hours

10.	Project Leadership and Ethics- Introduction, project leadership, ethics in projects, multicultural projects.	1 Session of 3 Hours
11.	The Implementation Plan and Project Closure- Introduction, project implementation, administrative closure, project evaluation, project audit.	1 Session of 3 Hours
12.	Case Studies and Presentations	1 Session of 3 Hours

- 1. Information Technology Project Management", Jack T. Marchewka, 3rd edition, Wiley India, 2009.
- 2. S. J. Mantel, J. R. Meredith and etl.. "Project Management" 1st edition, Wiley India, 2009.
- 3. John M. Nicholas, "Project Management for Business and Technology", 2nd edition, Pearson Education.
- 4. Joel Henry, "Software Project Management, A realworld guide to success", Pearson Education, 2008.
- 5. Gido and Clements, "Successful Project Management", 2nd edition, Thomson Learning.
- 6. Hughes and Cornell, "Software Project Management", 3rd edition, Tata McGraw Hill
- 7. Joseph Phillips, "IT Project Management", 2nd edition, Tata McGraw Hill
- 8. Robert K. Wyzocki and Rudd McGary, "Effective Project Management", 3rd edition, Wiley
- 9. Brown, K.A. Project Management, McGraw Hill, 2002.
- 10. EBook Project Management Body of Knowledge.
- 11. Dinsmore, P. C. (Ed.). (1993) The AMA Handbook of Project Management. AMACOM

SL.No	Particulars	Sessions
1.	The need for IT Infrastructure Management	2 Sessions
	IT Infrastructure Management Overview – ITIL Model	of 3 Hours
2.	Organizing and managing people	3 Sessions
	Managing System Development	of 3 Hours
3.	Capacity Planning	3 Sessions
	Availability Management	of 3 Hours
4.	Change Management	3 Sessions
	Operations Management	of 3 Hours
5.	Asset and Facilities management	2 Sessions
	Business Continuity Planning	of 3 Hours
6.	Case Studies and Presentations	2 Sessions
		of 3 Hours

#### 4.6 IT Infrastructure Management-100 Marks- 15 Sessions of 3 Hours Semester IV

#### **Reference Text**

1. Rich Schiesser,

∥ IT System sM anagem ent∥

- 2. E Turban, E Mclean and James Wetherbe, —Information Technology for Management ||
- 3. Kenneth C Laudon, Jane P Laudon, —Management Information Systems || (Parts 2 and 5)
- 4. Roger S Pressman, —Software Engineering: A Practitioner's Approach
- 5. James A O'Brien, —Management Information Systems

6. Walker Royce, — Software Project Management: A Unified Framework

# Industry Oriented Dissertation

100 Marks