

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

Course Structure

➤ **Part Time Course**

MBA (PT) Semesters	Paper	Credit (1=4)	Contact Hours(1cr=10hr)
I C*	4	16	160
II C*	4	16	160
III C*	4	16	160
IV 2C*+ 2E**	4	16	160
V 4E**	4	16	160
V Internship /Project## (1=3Cr)	2	6	60
VI 4E**	4	16	160
Course Total	26	102	1020

(# Project: Project Paper + Presentation + Viva)

(C*: CORE PAPERS/E: ELECTIVE PAPERS)**

CURRICULUM

Semester - I

- MBPT - 101 Managerial Economics (Micro)
- MBPT - 102 Organizational Behaviour
- MBPT - 103 Business Communications
- MBPT - 104 Quantitative Techniques

Semester - II

- MBPT - 201 Indian Economy and Policy
- MBPT - 202 Financial Reporting, Statements and Analysis
- MBPT - 203 Operations Management
- MBPT - 204 Legal and Business Environment (Micro and Macro)

Semester - III

- MBPT - 301 Marketing Management
- MBPT - 302 Indian Ethos and Business Ethics
- MBPT - 303 Management Information System
- MBPT - 304 Human Resource Management

Semester - IV

Core Papers:

- MBPT - 401 Project Management
- MBPT - 402 Corporate Strategy

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

Elective Papers: One from any one Functional Area (Major) and one from a different Functional Area (Minor). Major Minor selection should be same in all semesters.

Elective Papers:

FM/ MM/HR/OM/BA/MIS – MBPT-XX 403

FM/ MM/HR/OM/BA/MIS – MBPT-XX 404

Semester – V

Elective Papers: Three from any one Functional Area (Major) and one from a different Functional Area (Minor). Major Minor selection should be same in all semesters.

Elective Papers:

FM/ MM/HR/OM/BA/MIS – MBPT-XX 501

FM/ MM/HR/OM/BA/MIS – MBPT-XX 502

FM/ MM/HR/OM/BA/MIS – MBPT-XX 503

FM/ MM/HR/OM/BA/MIS – MBPT-XX 504

MBPT –581 Internship Project and Viva Voce

Semester – VI

Elective Papers: Two from any one Functional Area (Major) and two from a different Functional Area (Minor). Major Minor selection should be same in all semesters.

FM/ MM/HR/OM/BA/MIS – MBPT-XX 601

FM/ MM/HR/OM/BA/MIS – MBPT-XX 602

FM/ MM/HR/OM/BA/MIS – MBPT-XX 603

FM/ MM/HR/OM/BA/MIS – MBPT-XX 604

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

Elective Papers for Fourth Semester
Functional Specialization (4th Semester)

MARKETING		OPERATIONS	
CODE	COURSE NAME	CODE	COURSE NAME
MBPT-MM 403	B2B MARKETING	MBPT-OM 403	SUPPLY CHAIN & LOGISTICS MANAGEMENT
MBPT-MM 404	DIGITAL & SOCIAL MEDIA MARKETING	MBPT-OM 404	OPERATIONS STRATEGY

FINANCE		HUMAN RESOURCE	
CODE	COURSE NAME	CODE	COURSE NAME
MBPT-FM 403	TAXATION	MBPT-HR 403	TEAM DYNAMICS AT WORK
MBPT-FM 404	PROJECT APPRAISAL & FINANCE	MBPT-HR 404	HR METRICS AND ANALYTICS

MIS		BUSINESS ANALYTICS	
CODE	COURSE NAME	CODE	COURSE NAME
MBPT-MIS 403	DATA MINING FOR BUSINESS DECISIONS	MBPT-BA 403	DATA MINING
MBPT-MIS 404	E-COMMERCE & DIGITAL MARKETS	MBPT-BA 404	MARKETING ANALYTICS

Elective Papers for Fifth Semester
Functional Specialization (5th Semester)

MARKETING		OPERATIONS	
CODE	COURSE NAME	CODE	COURSE NAME
MBPT-MM 501	IMC/ PROMOTION STRATEGY	MBPT-OM 501	QUALITY TOOLKIT FOR MANAGERS
MBPT-MM 502	MARKETING RESEARCH	MBPT-OM 502	PRICING & REVENUE MANAGEMENT
MBPT-MM 503	CONSUMER BEHAVIOUR	MBPT-OM 503	SALES & OPERATIONS PLANNING
MBPT-MM 504	RETAIL MANAGEMENT	MBPT-OM 504	BEHAVIORAL OPERATIONS MANAGEMENT

FINANCE		HUMAN RESOURCE	
CODE	COURSE NAME	CODE	COURSE NAME
MBPT-FM 501	BEHAVIORAL FINANCE	MBPT-HR 501	CROSS CULTURAL MANAGEMENT
MBPT-	CORPORATE FINANCE	MBPT-	ORGANIZATIONAL DESIGN

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

FM 502		HR 502	
MBPT-FM 503	INVESTMENT ANALYSIS & PORTFOLIO MANAGEMENT	MBPT-HR 503	MANPOWER PLANNING RECRUITMENT & SELECTION
MBPT-FM 504	MANAGING BANKS & FINANCIAL INSTITUTIONS	MBPT-HR 504	EMPLOYEE RELATIONS&LABOUR LAWS
MIS		BUSINESS ANALYTICS	
MBPT-MIS 501	MANAGING SOFTWAREPROJECTS	MBPT-BA501	BUSINESS FORECASTING
MBPT-MIS 502	DATA SCIENCE USING R	MBPT-BA 502	DATA SCIENCE USING R
MBPT-MIS 503	IT CONSULTING	MBPT-BA 503	DATA VISUALIZATION FOR MANAGERS
MBPT-MIS 504	MANAGING DIGITAL PLATFORMS	MBPT-BA 504	BIG DATA TECHNOLOGY

Elective Papers for Sixth Semester

Functional Specialization (6th Semester)

MARKETING		OPERATIONS	
CODE	COURSE NAME	CODE	COURSE NAME
MBPT-MM 601	SALES & DISTRIBUTION MANAGEMENT	MBPT-OM 601	OPERATIONS RESEARCH APPLICATIONS
MBPT-MM 602	SERVICE MARKETING	MBPT-OM 602	SUPPLY CHAIN ANALYTICS
MBPT-MM 603	PRODUCT & BRAND MANAGEMENT	MBPT-OM 603	MANAGEMENT OF MANUFACTURING SYSTEM
MBPT-MM 604	INTERNATIONAL MARKETING	MBPT-OM 604	SOURCING MANAGEMENT
MBPT-EM 601	ENTREPRENEURSHIP	MBPT-EM 601	ENTREPRENEURSHIP
FINANCE		HUMAN RESOURCE	
CODE	COURSE NAME	CODE	COURSE NAME
MBPT-FM 601	MERGERS, ACQUISITION & CORPORATE RESTRUCTURING	MBPT-HR 601	COMPENSATION & BENEFITS MANAGEMENT
MBPT-FM 602	FINANCIAL DERIVATIVES	MBPT-HR 602	PERFORMANCE MANAGEMENT SYSTEMS
MBPT-FM 603	INTERNATIONAL FINANCE	MBPT-HR 603	STRATEGIC HRM
MBPT-FM 604	FINANCIAL MARKETS & SERVICES	MBPT-HR 604	INTERNATIONAL HRM
MBPT-	ENTREPRENEURSHIP	MBPT-	ENTREPRENEURSHIP

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

EM 601		EM 601	
MIS		BUSINESS ANALYTICS	
MBPT-MIS 601	STRATEGIC MANAGEMENT FOR IT	MBPT-BA 601	STATISTICS FOR BUSINESS ANALYTICS
MBPT-MIS 602	RELATIONAL DATABASE MANAGEMENT SYSTEM	MBPT-BA 602	DATABASE MANAGEMENT SYSTEM
MBPT-MIS 603	MANAGEMENT OF INFORMATION TECHNOLOGY	MBPT-BA 603	DATA ANALYTICS USING PYTHON
MBPT-MIS 604	MANAGING DIGITAL INNOVATION & TRANSFORMATION	MBPT-BA 604	HR METRICS AND ANALYTICS
MBPT-EM 601	ENTREPRENEURSHIP	MBPT-EM 601	ENTREPRENEURSHIP

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

FIRST SEMESTER

MAKAUT/PT-MBA/1ST SEM

(4 Credit: 40 hrs)

MBPT 101: MANAGERIAL ECONOMICS (MICRO)

MODULE I

1. Introduction to Managerial Economics [2L]

- (a) Basic problems of an economic system
- (b) Goals of managerial decision making
- (c) Resource allocation using PPC

2. Demand Analysis [10 L]

- A. Demand Functions - Law of Demand, Explaining the law of demand, Violations of the Law of Demand, Shifts in Demand; Elasticity of Demand: Price Elasticity (at a point and over and interval), Factors affecting price elasticity, Price elasticity and Change in Total Revenue, AR, MR and Price elasticity, Range of Values of Price Elasticity; Income Elasticity, Inferior, Superior and Normal goods, Income Elasticity and Share in Total Expenditure; Cross-Price Elasticity, Substitutes and Complements
- B. Indifference curves, budget line and consumer equilibrium
- C. Introduction to methods of demand estimation (concepts only)

3. Production and Cost Analysis [14L]

- A. Production Function, Short Run and Long Run, Production with One Variable Input, Total Product, Average and Marginal Products, Law of Variable proportions, Relationship between TP, AP and MP.
- B. Short Run Costs of Production, Fixed and Variable Costs, Short Run Total, Average and Marginal Cost and Relationship between them, Short Run Cost Curves, Relationship between AVC, MC, AP and MP; Long run cost curves, Relationship between LAC and SAC, Economies of Scale and Scope.
- C. Production with Two Variable Inputs, Isoquants - Characteristics, Marginal Rate of Technical Substitution, Laws of Returns to Scale, Iso cost Curves, * # Finding the Optimal Combination of Inputs, Production of a given output at Minimum Cost, Production of Maximum Output with a given level of Cost, Expansion Path, Finding the Long Run Cost Schedules from the Production Function,

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

D. Law of supply, elasticity of supply, market equilibrium, changes in equilibrium.

MODULE II

4. Alternate Goals of Managerial Firms

[2 L]

- (A) Profit maximization
- (B) Revenue maximization
- (C) Managerial utility maximization

5. Managerial Decision Making under Alternative Market Structures

[6 L]

- A. Characteristics of Perfect Competition, Profit Maximization in Competitive Markets, Output Decision in the Short Run, Shut Down Point, Short Run Supply for the Firm and Industry; Output Decision in the Long Run, Break Even Point, Long Run Supply for the Perfectly Competitive Industry
- B. Price and output decision under different market structure - Monopoly, Monopolistic Competition, Oligopoly - cartel, price leadership.

6. Pricing Decisions

[6 L]

- A. Price Discrimination under Monopoly, Transfer Pricing.
- B. Market Failure
- C. Game theory & Asymmetric information

Suggested Readings:

1. Damodaran, Suma - Managerial Economics - Oxford University Press
2. Lipsey & Chrystal - Economics - Oxford University Press
3. Peterson & Lewis - Managerial Economics - Pearson Education.
4. Pindyck and Rubinfeld - Micro Economics - Pearson Education
5. H.L. Ahuja- Managerial Economics, S. Chand
6. D.N. Dwivedi- Managerial Economics, Prentice Hall.

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

MAKAUT/PT-MBA/1ST SEM

(4 Credit: 40 hrs)

MBPT 102: ORGANIZATIONAL BEHAVIOUR

MODULE I

a.A. **OB - Overview** - Meaning of OB, Importance of OB, Field of OB, Contributing Disciplines, Applications in Industry. [2L]

a.B. **Personality**- Meaning of Personality, Determinants of Personality, Theories of Personality, Measurement of Personality, Development of Personality [6L]

a.C. **Perception** - Process and Principles, Nature and Importance, Factors Influencing, Perception, Perceptual Selectivity, Social Perception, Fundamentals of Decision making. [4 L]

a.D. **Work Motivation** - Approaches to Work Motivation, Theories of Motivation - Maslow's Hierarchy of Need Theory, Alderfer's ERG Theory, Herzberg's Motivation-Hygiene Theory, McClelland's Achievement - Motivation Theory, McGregor's Theory X & Y, Vroom's Expectancy Theory, Porter Lawler Expectancy Model [6L]

a.E. **Attitudes and Job Satisfaction** - Sources of Attitudes, Types of Attitudes, Attitudes and Consistency, Cognitive Dissonance Theory, Attitude Surveys. [2L]

MODULE -II

a.F. **Organization** - Mission, Goals, Characteristics, Types, Organizational Theory- Classical Theories: Scientific Management, Administrative Principals, Bureaucracy,

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

Human Relation Approach, Modern Theories: System Approach, Contingency Approach, Quantitative Approach, Behavioral Approach, Managing Organizational Culture. [6L]

a.G. **Group Behavior** - Characteristics of Group, Types of Groups, Stages of Development, Group Decision-making, difference work group and work team, Why work Teams, Work team in Organization, Team Building, Organizational Politics.

[4L]

a.H. **Leadership** - Leadership Theories, Leadership Styles, Skills and influence process, Leadership and power, Examples of Effective Organizational Leadership in India, Cases on Leadership, Success stories of today's Global and Indian leaders. [4L]

a.I. **Conflict in Organization** - Sources of Conflict, Types of Conflict, Conflict Process, Johari Window, Conflict Resolution, Cases on Conflict Resolution.

[2L]

a.J. **Organizational Change** - Meaning and Nature of Organizational Change, Types of Organizational Change, Forces that acts as stimulant to change. Resistance to change, How to overcome resistance to change, Approaches to managing Organizational Change, Kurt Lewin's three Step model, Action research model, Kotter's eight step model. [4L]

Suggested Readings:

1. Robbins, S.P. Judge, T.A. & Sanghi, S.: Organizational Behaviour, Pearson
2. Luthans, Fred: Organizational Behaviour, McGraw Hill
3. Newstrom J.W. & Devis K.: Organizational Behaviour, McGraw Hill
4. Aswathappa ,K : Organisational Behaviour ,Himalaya Publishing House
5. Shukla, Madhukar : Understanding Organizations - Organizational Theory & Practice in India, Prentice Hall
6. Sekharan, Uma: Organisational Behaviour , The Mc Graw -Hill Companies

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

MAKAUT/PT-MBA/1ST SEM

(4 Credit: 40 hrs)

MBPT 103: BUSINESS COMMUNICATION

Module I:

1. **Principles of Communication** - Definition, Purposes, Types, Process, Models and Barriers [2L]
2. **Verbal and Non Verbal Communication** - Presentation Skills (Planning and Preparation/ Using Visual Aids/ Delivery), Individual and Team Presentations, Public Speaking, Listening and Feedback, Body Language [4L+6 P]
3. **Written Communication** - Stages of Writing, Composing Business Messages, Preparing Notes, Style, Punctuation, Using simple words, Proof Reading. [4L]
4. **Report Writing** - Report Planning, Types of Reports, Developing an outline, Nature of Headings, Ordering of Points, Logical Sequencing, Graphs, Charts, Executive Summary, List of Illustration, Report Writing. [4L]

Module II:

5. **Internal Communication** - Circulars, Notices, Memos, Agenda and Minutes [4L +2P]
6. **External Communication** - Resume/CV, Using Facsimiles (Fax), Electronic Mail, Handling Mail [4 L]
7. **Writing Business Letters** - Formats, Styles Types - Request, Enquiry, Placing Order, Instruction, Action, Complaint, Adjustment, Sales, Reference, Good News & Bad News, Acknowledgement [2L + 4P]
8. **Handling Business Information** - Annual Report, House Magazine, Press Release, Press Report [2 L + 2P]

Suggested Readings:

1. Monipally: Business Communication, Tata McGraw Hill
2. [Business Communication Essentials \(6th Edition\)](#) by Courtland L. Bovee & John V. Thill, Pearson
3. [Business English: A Complete Guide for All Business and Professional Communications by](#) Prem P. Bhalla; UBS Publishers
4. The Effective Presentation: Talk your way to success by Asha Kaul; SAGE
5. Madhukar: Business Communications; Vikas Publishing House
Sengun J: Business Communication; Allied Publishers

MBPT 104: QUANTITATIVE TECHNIQUES

Module I:

- 1. Linear Programming:** Formulating maximization/minimization problems, Graphical solution, Simplex method, Artificial Variables – Big M – Method, Special cases of LP, Duality of LP and its interpretation, Post Optimality/Sensitivity Analysis, Applications of LP. [6L]
- 2. Transportation Problems:** Introduction - Mathematical formulation of transportation problem - the Transportation method for finding initial solutions-North West Corner Method - Least Cost Method - Vogel's Approximation method - test for optimality - steps of MODI method-loops in transportation table - Degeneracy. [6L]
- 3. Assignment Problems:** Introduction - Mathematical statement of the problem-Hungarian method of solution - Maximization case in assignment problem – unbalanced assignment problem - restrictions on assignment - Travelling salesman problem. [4L]
- 4. Theory of Games:** Introduction - Two person zero sum games - Pure strategies - games with saddle points - rules to determine saddle points - mixed strategies - Game without saddle points - the rules of dominance - Methods of solution for games without saddle points – algebraic methods, graphical methods. [4L]

Module II:

- 5. Basic Statistics:** Basic Concept (Variables, Population v/s Sample, Central tendency, Dispersion, data Visualization, Simple Correlation and Regression. [4L]
- 6. Probability & Distribution:** Probability – Introduction, Rules of Probability, Conditional Probability (Baye's Theorem), Random Variables, Discrete and Continuous Distributions (Binomial, Poisson and Normal), Sampling – Types and Distribution. [6L]
- 7. Theory of Estimation:** Estimation – estimation problems, standard error, margin of error, confidence error, confidence interval, characteristics of estimators, consistency unbiasedness, sufficiency and efficiency, most sufficient estimators. Point Estimation and Interval Estimation. [4L]
- 8. Statistical Inference:** Hypothesis Testing, Parametric Test – Z, F, t test, ANOVA, Non Parametric Test – Chi square test (goodness of fit, independence of attributes) Spearman's Rank Correlation Coefficient. [6L]

Software Packages to be used in illustrating the above methods

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

Suggested Readings

1. Statistics by Wayne L. Winston
2. Business Statistics by GC Berry
3. Business Statistics, Problems & Solutions by JK Sharma
4. Operations Research by A Ravindran, Don T Philips and James J Solberg..
5. Operations Research by V K Kapoor
6. Operations Research by S K Kalavathy

SECOND SEMESTER
MBPT 201: INDIAN ECONOMY AND POLICY

MODULE I

1. Circular Flow of Income

National Income Accounting –terms and concepts, three methods of measuring GDP/GNP (3L)

2. Theory of Income Determination

Simple Keynesian model: Aggregate demand – Aggregate supply method, Savings-investment method

Concepts of multiplier: Autonomous expenditure multiplier, introducing the Government, Government expenditure multiplier, Tax Rate Multiplier, Balanced Budget Multiplier, Open economy - Export and import multipliers.

Paradox of Thrift, Crowding out effect, Business cycle – phases and stabilization (6L)

3. Introduction of Money and Asset Market

IS-LM model, Fiscal policy and monetary policy using IS-LM (4L)

4. Inflation and Unemployment

Concepts of inflation – demand pull and cost push, Stabilization policies

Introduction to Philips curve as relation between inflation and unemployment. (3L)

5. Introduction to Foreign Trade & International Linkages

Concepts of Balance of Payments

Alternative exchange rate systems – fixed, flexible and managed float

Comparative Advantage as basis for trade;

Tariff and non-tariff barriers (4L)

MODULE II

6. Indian Economy - An Overview

Evolution of Indian economy since independence

Liberalization of Indian economy since 1991 (4L)

7. New Industrial Policy

LPG model, New Industrial Policy (1991) (4L)

8. Banking and Capital Market Reforms

Banking structure in India,

Composition of Indian Capital market,

SEBI and Capital Market Reforms (4L)

9. Monetary and Fiscal Policy Reforms

Composition of Indian money market

Components and Instruments of Monetary policy

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

Concepts and Management of Deficits (4L)

10. Trade Policy Reforms

Major components of trade policy reforms

Idea of FEMA, NITI AYOOG role and function

Current and capital account convertibility. (4L)

Suggested Readings:

1. Principles of Macroeconomics - SoumyenSikdar, (OUP)
2. Managerial Economics - Suma Damodaran, (OUP)
3. Macroeconomics – Dornbusch , Fischer &Startz (PHI)
4. Economic Environment of Business: S.K. Mishra and V.K. Puri,
5. Indian Economy: Datt & Sundharam,
6. Indian Economy since Independence, Uma Kapilaed.

MBPT 202: FINANCIAL REPORTING, STATEMENT AND ANALYSIS

MODULE I

1. **Basic Financial Accounting Concept:** Meaning and Scope of Accounting -Definition of accounting-classification of accounting- GAAP- Accounting Concepts and Conventions -Accounting Equation (2L)
2. **Preparation Of Books Of Accounts:** Event-Transaction- Accounting Cycle - Golden Rule- Journal-Ledger-Trial Balance-Final Account (10L)
3. **Basic Cost Accounting Concept-** Cost Concept-Cost Unit- Technique of Costing-Method of Costing- Cost center- Cost Unit- Cost Sheet preparation and Interpretation. (4L)
4. **Introduction to Accounting Standard:** Introduction to Indian GAAP and IndAS- Introduction to IFRS and IAS- Comparative Analysis of Indian GAAP and IndAS. (4L)

MODULE II

5. **Preparation Of Financial Statement:** Trading Account-Profit & Loss Account -Balance Sheet (As per Schedule VI, old & new) with Adjustment Entries -Preparation and Interpretation of Annual Report -Corporate Social Responsibility -Human Resource Accounting-Value Added Statement (10L)
6. **Financial Statement Analysis:** Comparative Statement- Common Size Statement-Trend Analysis- Ratio Analysis-Fund Flow Statement - Cash Flow Statement. (10L)

Suggested Readings:

1. M. Hanif & A. Mukherjee : Financial Accounting. McGraw Hill
2. S. K. Paul: Financial Accounting, New Central book Agency
3. S. P. Jain & K. L. Narang: Cost and Management Accounting. Kalyani Publication
4. P. M. Rao: Financial Statement Analysis and Reporting. PHI
5. T. P. Ghosh, N. Ankarnath, K. J. Mehta & Y. A. Alkafazi: Understanding IFRS Fundamentals, Wiley
6. Tulsian & Tulsian: Corporate Financial Reporting, S. Chand

MBPT 203: OPERATIONS MANAGEMENT

MODULE I

1. Introduction to Production and Operations Management: Difference between Manufacturing and Service Operations; Product Process Matrix capacity planning- Responsibilities of Production Manager; Production as a Coordination Function; Production Cycle, Production Planning & Control Concept. **(4L)**

2. Characteristics of Manufacturing Systems: Classification of Manufacturing Systems with Examples; Differences between Intermittent and Continuous Production **(2L)**

3. Plant Location: Need for a Good Plant Location; Factors influencing Plant Location – Tangible and Intangible Factors; Economic Survey of Site Selection. **(2L)**

4. Plant Layout: Need for a Good Plant Layout; Characteristics of a Good Layout; Costs associated with Plant Layout; Process Layout vs. Product Layout; Optimization in a Process Layout and Product Layout; Designing Product and Process Layout; Assembly Line Balancing – Concept and Problems; Cellular Manufacturing Concept **(6L)**

5. Maintenance Management: Types of Maintenance – Breakdown and Preventive Maintenance; Total Productive Maintenance (TPM) **(3L)**

MODULE II

6. Purchase Management: Purchasing Procedure; Value Analysis; Vendor Selection; Negotiation; Make or Buy decision **(2L)**

7. Inventory Management: Classification of inventory items – ABC, FSN, VED classification; Introduction to EOQ and EBQ; MRP – Concept, inputs and outputs, benefits, examples; Deterministic demand model-EOQ- Continuous and Periodic review Inventory models; Master Production Schedule and MRP; Concepts of MRP II, JIT and ERP **(6L)**

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

8. Inspection & Quality Control: Types of Inspection; Statistical Quality Control
- Acceptance Sampling and Control Charts **(5L)**

9. Scheduling: Sequencing - Definition and Assumptions; Sequencing of n jobs on a single machine - Shortest Processing Time, Longest Processing Time, Earliest Due Date and First Come First Serve basis; Sequencing of 2 jobs on 2 machines - Gantt Charts, Limitations of Gantt Charts; Sequencing of n jobs on 2 and 3 machines - Johnson's Rule; Introduction to Project Management - CPM and PERT, Identification and Importance of the Critical Path
(6L)

10. Work Study: Definition and its Importance; Basic Procedure in Performing a Work Study; Method Study -Objectives and Procedure; Work Measurement-Objectives and Procedure; Concepts of Performance Rating, Basic Time, Allowances and Standard Time **(4L)**

Suggested Readings:

1. Chary, S.N. - Production and Operations Management; TMH
2. Panneerselvam, R. - Production and Operations Management, PHI
3. Bedi, K. - Production and Operations Management; Oxford University Press
4. Chase, Jacobs, Aquilano and Agarwal - Operations Management for Competitive Advantage; TMH
5. Buffa, E. S. and Sarin, R.K. - Modern Production / Operations Management; John Wiley
6. Collier, Evans and Ganguly - Operations Management; Cengage Learning

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

MAKAUT/PT-MBA/2ND SEM

(4 Credit: 40 hrs)

MBPT 204: LEGAL AND BUSINESS ENVIRONMENT
(MICRO & MACRO)

Module I: Legal Environment

1. **Legal Aspects of Business** - Society, State and Law, Enforceability of Law, Mercantile Law. [2L]
2. **Indian Contract Act, 1872** - Contract defined, Elements of valid contract, Classification of contracts, Offer and acceptance, Consideration, Capacity to contracts, Free consent, Legality of object and consideration, Illegal agreements, Termination of contracts, Breach of contract, Indemnity and guarantee, Laws of agency [6L]
3. **Sale of Goods Act, 1930** - Classification of goods, Conditions & Warranties, Passing of ownership rights, Rights of an unpaid seller, Remedies for breach of Contract of Sale of Goods. [4L]
4. **Negotiable Instruments Act, 1881** - Definition and characteristics of different types of negotiable instruments, Parties to a negotiable instrument and their capacity, Dishonour of cheques, Discharge from Liability, Crossing of cheques, Bank drafts and Banker's cheques. [4L]
5. **Companies Act, 1956** - Nature and kinds of companies, Formation, Memorandum, Articles, Prospectus, Capital - shares, debentures, borrowing powers, minimum subscription, Appointment of Directors; Winding up of companies (Including Amendments) [6L]
6. **Consumer Protection Act, 1986** - Salient features and objectives of the Consumer Protection Act, 1986, Different Consumer redressal Forums, Composition and jurisdiction of district, state and National forum, Mode of complaints, Procedures for disposal of complaints, Penalty.[4L]
7. **Intellectual Property Right**- Laws relating to Patents (Patent Act, 1970), Trademarks (Trademark Act, 1999), Copyright (Copyright Act, 1957), Geographical Indications (Registration & Protection) Act, 1999 [4L]

Module II: Business Environment

8. **Economic Indicators** - Consumer Price Index, Interest Rate, Inflation Rate and its impact on Business, Business Risk [4L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

9. **Intellectual Property Regime** (WTO Guidelines) [2L]
10. **Legislation for Anti-competitive and Unfair Trade Practice** – Objectives of MRTP Act, 1969, Objectives of Competition Act, 2002, Monopolistic Trade Practice, Anti-competitive Agreement, MRTP vs Competition Act [4L]

Suggested Readings:

1. Sen & Mitra: Commercial law; World Press
2. Pathak: Legal Aspect of Business, TMH
3. Das & Ghosh: Business Regulatory Framework: Ocean Publication, Delhi
4. Pillai & Bagavathi: Business law, S. Chand
5. Dutt & Sundaram: Economic Environment of Business, S. Chand
6. Misra, S. K & Puri, D. K.: Economic Environment of Business, Himalaya Publishing

THIRD SEMESTER

MAKAUT/PT-MBA/3rd SEM

(4 Credit: 40 hrs)

MBPT 301: MARKETING MANAGEMENT

MODULE I

1. **Introduction:** Definitions of marketing; Core Concept of Marketing - need, want, demand, offering and branding, value and satisfaction, Evolution of marketing concepts (orientations); Marketing Mix - 4Ps and 4Cs.

[2L]

2. **Marketing Environment:** Major components of Internal Environment, the micro-environment and macro-environment; SWOT Analysis, PEST Analysis [2L]

3. **Strategy and Planning:** Concept of SBU, Choice of Corporate level Strategy; BCG matrix, Product-Market Grid, Porter's Five Force Model for Industry Analysis. [4 L]

4. **Market Segmentation, Targeting and Positioning (STP):** Concepts of market segmentation: Various bases for segmentation: Geographic, Demographic, Psychographic (VALS-II) and Behavioural; Targeting: Mass marketing, Segment Marketing, Niche Marketing, Micro Marketing and Customization; Concept of Differentiation and Positioning. [4L]

5. **Consumer Behaviour and Marketing Research:** A framework of consumer decision making process, overview of major factors influencing consumer behavior; marketing research: Role in decision making, Steps and process of Marketing Research, B2B Marketing.[4L]

MODULE II

6. **Product:** Product Classification, Service - characteristics and expanded service mix elements; Product Levels, Product Mix, Product Line Management, Product Life Cycle: concept and types, New Product Development. [6L]

7. **Branding and Packaging:** Purpose of branding; Brand equity; Branding strategies; Purpose of Packaging; Types of Packaging - primary, secondary, shipping packages. [3L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

8. **Pricing:** Procedure for price setting; Pricing objectives; Cost and Demand consideration; Pricing Methods, Pricing Strategies [3L]
9. **Marketing Channels:** Channel flows and functions; Channel design decisions; Wholesaling and Retailing, Concept of Supply Chain Management and Logistics Management, Channel Conflict Management [5L]
10. **Promotion:** Elements of Promotion Mix (Advertising, Sales Promotion, Personal Selling, Direct Marketing, Publicity & PR), 5M model of Advertising, Concept of Digital Marketing; Overview of Selling Process [5L]
11. **Basic concepts of market potential:** Sales potential/ Market Share and Sales forecast; Methods of Sales forecasting. [2L]

Suggested Reading:

1. Kotler, P., Keller, K., Koshy, A. & Jha, M. - Marketing Management; Pearson
2. Ramaswamy & Namakumari - Marketing Management; McMillan
3. Saxena, R. - Marketing Management; TMH
4. Kurtz, David L, Boone , Louis E - Principles of Marketing; Thomson
5. Keith Blois – Text Book of Marketing; Oxford University Press
6. Etzel, M.J., Walker, B.W. & W.J. Stanton - Marketing; TMH

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

MAKAUT/PT-MBA/3rd SEM

(4 Credit: 40 hrs)

MBPT 302: INDIAN ETHOS AND BUSINESS ETHICS

Module - I: Indian Ethos

1. **History & Relevance;** Principles, practiced by Indian Companies; Role of Indian Ethos (Management lessons from Vedas, Mahabharata, Bible, Quran, Arthashastra,) Indian Heritage in Business. Ethics Vs Ethos, Indian Vs Western Management; Work ethos and values for Indian Managers [6L]
2. **Relevance of Value-based Management in Global change-** - impact of Values on stake holders; Trans-cultural human values ; Secular - Vs Spiritual values; value system in work culture [4L]
3. **Stress Management,** - meditation for mental health, yoga [2L]
4. **Contemporary Approaches to Leadership** - Joint Hindu Family business; Leadership qualities of Karta [2L]
5. **Indian systems of learning-** Gurukul system of learning, advantages - disadvantages of Karma, Importance of Karma to managers , Nishkama Karma- laws of Karma ; Law of creation- Law of humility- Law of growth - Law of Responsibility- Law of connection - Corporate Karma Leadership [6L]

Module - II: Business Ethics

6. **Understanding Business Ethics** - Ethical Values, Myths and Ambiguity, Ethical Codes, Ethical Principles in Business; Theories of Ethics, Absolutism vs. Relativism [6L]
7. **Approaches to Business Ethics:** Teleological Approach, The Deontological Approach , Kohlberg's Six Stages Of Moral Development (CMD) [4L]
8. **Managing Ethical Dilemma:** Characteristics, Ethical Decision Making, Ethical Reasoning, The Dilemma Resolution Process; Ethical Dilemmas In Different Business Areas Of Finance, Marketing, HRM and International Business [4L]
9. **Ethical Culture in Organizations** - Developing Code of Culture in Organization, Ethical and Value-Based Leadership. Role of Scriptures in Understanding Ethics, Ethics in Business, Strategies of Organizational Culture Building, Ethical Indian Wisdom and Indian Approaches towards Business Ethics. [6L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

Suggested Readings

1. Beteille, Andre - Society and Politics in India, OUP
2. Chakraborty, S. K. - Values and Ethics for Organisations, OUP
3. Fernando, A.C. - Business Ethics - An Indian Perspective, Pearson
4. Gupta, Dipankar - Social Stratification, OUP.
5. Srinivas, M. N.- Social Structure and Caste and Other Essays, OUP.
6. Sandhya, N- Indian Society, Vrindya Publication

MBPT 303: MANAGEMENT INFORMATION SYSTEM

MODULE I

1. E-commerce / E-business [3L]

Overview, Definitions, Advantages & Disadvantages of E-commerce

Business models of e-commerce: models based on transaction party (B2B, B2C, B2G, C2B, C2C, E-Governance), models based on revenue models

Implementation ecommerce business, online and offline marketing

2. ERP, CRM, SCM [10L]

ERP (Enterprise Resource Planning):

Concepts of ERP, architecture of ERP, Generic modules of ERP, Applications of ERP, concept of XRP (extended ERP)

Features of commercial software like SAP, Oracle Apps, MS Dynamics NAV

CRM (Customer Relationship Management):

Concepts of CRM, Features, application of CRM

Sales force automation

SCM (Supply Chain Management):

Concepts of SCM, drivers of SCM, inbound & outbound

Definition, brief description and applicability of: eProcurement, eTailing, eLogistics, eCollaboration, eIntegration.

Case studies for ERP, CRM, and SCM

3. Data Communication & Networking [4L]

Need for computer networking, components of a data communication system,

Network topology

Types of networks: LAN, MAN, WAN; concepts of Internet, Intranet, Extranet, and WWW.

Network protocols, Network Architecture

MODULE II

4. Threats to Computer Systems and Control Measures

[2L]

Concepts of threats: Virus, hacking, phishing, spyware, spam, physical threats (fire, flood, earthquake, vandalism)

Concepts of security measures: firewall, encryption

Part Time MBA programme

(Effective for Academic Session 2018-2019)

5. Database Management Systems (DBMS) [e.g. MS-Access/ Oracle/ MS SQL Server / MySQL etc.] [4L+2P]

What is a DBMS; Need for using DBMS. Concepts of tables, records, attributes, keys, integrity constraints

SQL: DDL & DML, DCL concepts, SQL commands [ANSI standard].

6. Data Warehousing and Data Mining [3L]

Concepts of Data warehousing, data mart, meta data, multidimensional modeling, Online Analytical Processing (OLAP), Online Transaction Processing (OLTP), Data mining concepts, knowledge discovery v. data mining, data mining applications.

7. MS Office Applications [12P]

MS Excel: Graphs and Charts–Calculation of various financial functions Performing Mathematical Calculations (using Formula and Functions), Searching, Sorting and Filtering, Min Media Mode, Reference Operators, Functions: Typing a Function, Creating a Column Chart: Changing the Size and Position of a Chart Saving

MS Access: Tables and Queries, Forms, Relationship

MS Power Point: Introduction–Toolbar, their Icons and Commands– Navigating in Power point–Creation of slides, animation, and templates–Designing Presentations–Slide show controls–Making notes on Pages and Handouts–Printing Presentations–Customizing Presentations–Auto content Wizard.

Suggested Readings:

1. Waman S Jawadekar: Management Information Systems - Text and Cases 3ed. McGraw Hill
2. Mahadeo Jaiswal & Monica Mittal: Management Information Systems, OUP
3. Forouzan: Data Communication & Networking, TMH.
4. Tanenbaum: Computer Networks, Pearson Education
5. Ivan Bayross: SQL & PL/SQL, BPB ISRD, Introduction to Database Management Systems, Tata McGraw Hill
6. Sadagopan: ERP: A Managerial Perspective, Tata McGraw Hill.

MBPT - 304: HUMAN RESOURCE MANAGEMENT

MODULE I

- 1. Human Resource Management:** Meaning, Scope, objectives, and functions of HRM , HR as a Factor of Competitive Advantage, Structure of HR Department, , Line and staff responsibility of HR Managers, Environmental factors influencing HRM (2L)

- 2. Human Resource Planning:** definition, objective, process of HRP. Supply and Demand Forecasting techniques, Manpower Inventory, Career Planning& Development, Succession Planning, Rightsizing, Restructuring. Human Resource Information System (HRIS) (6L)

- 3. Recruitment and Selection :** Process, Sources, Methods of selection, Interviewing Methods, Skills and Errors. (4L)

- 4. Human Resource Development:** Definition, objective, process of HRD, Assessment of HRD Needs, HRD Methods: Training and Non-Training, Training Process; Designing, Implementation and Evaluation of Training Programmes, Induction Training. Developing Managerial Skills for: team management, collaboration, interaction across business functions, presentation , Negotiation, and Networking (6L)

- 5. Performance Appraisal Systems :** Purpose, Methods, Appraisal instruments, 360 degree Appraisal,HR Score Card, Errors in appraisal, Potential Appraisal, Appraisal-Interview. (4L)

MODULE -II

- 6. Compensation Management :** Concepts, Components; System of Wage Payment, job evaluation, wage/ salary fixation, incentives, bonus, ESOPs, Fringe Benefits, Retirement Benefits. Compensation Plans (4L)

- 7. Industrial Relations in India:** Parties; Management and Trade Unions, Industrial Disputes: Trends, Collective Bargaining, Settlement Machineries, Role of Government, Labour Policy in India. (4L)

- 8. Workers' Participation in Management:** Concept, Practices and Prospects in

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

India, Quality Circles and other Small Group Activities. (2L)

9. Discipline Management : Misconduct, Disciplinary action, Domestic Enquiry, Grievance Handling
(4L)

10. Strategic HRM: Meaning, Strategic HRM vs Traditional HRM, SHRM Process, barriers to SHRM. Nature of e-HRM, eRecruitment & Selection, e-Performance Management, e-Learning
(4L)

Suggested Readings:

1. Agarwala T. - Strategic Human Resource Management, OUP
2. Aswathappa, K. - Human Resource Management, Tata McGraw Hill
3. Jyothi P. & Venkatesh, D.N. - Human Resource Management, OUP
4. Ramaswamy, E.A. - Managing Human Resources, OUP
5. Saiyadain, M.S - Human Resource Management : Tata McGraw Hill
6. Mondal Sabari & Goswami Amal - Human Resource Management: Vrinda Publications

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

Semester-IV

MAKAUT/PT-MBA/4thSEM

(4 Credit: 40 hrs)

MBPT 401: PROJECT MANAGEMENT

MODULE I: ENTREPRENEURSHIP

1. Introduction: Meaning and Concept of Entrepreneurship, Innovation and entrepreneurship, Contributions of entrepreneurs to the society, risk-opportunities perspective and mitigation of risks [2L]
2. Entrepreneurship - An Innovation: Challenges of Innovation, Steps of Innovation Management, Idea Management System, Divergent v/s Convergent Thinking, Qualities of a prospective Entrepreneur [2L]
3. Idea Incubation: Factors determining competitive advantage, Market segment, blue ocean strategy, Industry and Competitor Analysis (market structure, market size, growth potential), Demand-supply analysis [4L]
4. Entrepreneurial Motivation: Design Thinking - Driven Innovation, TRIZ (Theory of Inventive Problem Solving), Achievement motivation theory of entrepreneurship - Theory of McClelland, Harvesting Strategies [2L]
5. Information: Government incentives for entrepreneurship, Incubation, acceleration. Funding new ventures - bootstrapping, crowd sourcing, angel investors, Government of India's efforts at promoting entrepreneurship and innovation - SISI, KVIC, DGFT, SIDBI, Defense and Railways [4L]
6. Closing the Window: Sustaining Competitiveness, Maintaining Competitive Advantage, the Changing Role of the Entrepreneur. [2L]
7. Applications and Project Reports Preparation [4L]

MODULE II: PROJECT MANAGEMENT

8. Definitions of Project and Project Management, Issues and Problems in Project Management, Project Life Cycle - Initiation / Conceptualization Phase, Planning Phase, Implementation / Execution Phase, Closure / Termination Phase [4L]
9. Project Feasibility Studies - Pre-Feasibility and Feasibility Studies, Preparation of Detailed Project Report, Technical Appraisal, Economic/Commercial/Financial Appraisal including Capital Budgeting Process, Social Cost Benefit Analysis [2L]
10. Project Planning - Importance of Project Planning, Steps of Project Planning, Project Scope, Work Breakdown Structure (WBS) and Organization Breakdown Structure (OBS), Phased Project Planning [2L]
11. Project Scheduling and Costing - Gantt chart, CPM and PERT Analysis, Identification of the Critical Path and its Significance, Calculation of Floats and Slacks, Crashing, Time Cost Trade-off Analysis, Project Cost Reduction Methods. [6L]
12. Project Monitoring and Control - Role of Project Manager, MIS in Project Monitoring, Project Audit [2L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

13. Case Studies with Hands-on Training on MS-Project [4L]

Suggested Readings:

1. Innovation and Entrepreneurship by Drucker, P.F.; Harper and Row
2. Business, Entrepreneurship and Management: Rao, V.S.P. ;Vikas
3. Entrepreneurship: Roy Rajeev; OUP.
4. Text Book of Project Management: Gopalkrishnan, P. and Ramamoorthy, V.E.; McMillan
5. Project Management for Engineering, Business and Technology: Nicholas, J.M., and Steyn, H.; PHI
6. Project Management: The Managerial Process: Gray, C.F., Larson, E.W. and Desai, G.V.; MGH

MAKAUT/PT-MBA/4thSEM

(4 Credit: 40 hrs)

MBPT 402: CORPORATE STRATEGY

MODULE I:

1. Strategic Management: Objectives, policies, Tools – Balanced Score Card, Strategic Management process. [4L]
2. Environmental Scanning: SWOT Analysis, External Environment Analysis (Economic, Legal, Political, Social, Geographic, Technical); Internal Environment Analysis - Strategic Advantage Factors (Finance, Marketing, Production, HR, R & D, etc.) [4L]
3. Strategic Planning: Corporate; Functional and Managerial Goal Setting; Positioning Organization, Models for Resource Allocation, Environmental Turbulence Strategic Investment, Strategic Entry [6L]
4. Formulating Strategies: Corporate, Administrative/Executive and Operating Levels, Developing Functional Strategies – Production/Operations, Finance, Marketing, HR, Materials, R & D; BCG Matrix, Portfolio analysis. [6L]

MODULE II:

5. Implementation of Strategies: Role of Managers, Leadership, Strategic Control System and Measurement, Structural Implementation, Functional Implementation. [6L]
6. Strategic Actions: Mergers, Acquisitions, Diversification, Joint Ventures, De-Merger, etc. [4L]
7. Evaluation of Strategy: Need, Problems, Criteria for Evaluation (Qualitative/Quantitative), Process of Evaluation [4L]
8. Case studies – Strategic Planning and Management [6L]

Suggested Readings:

1. Corporate Strategies: Banerjee, Bani P.; OUP
2. Crafting the Strategy: Das, Ranjan :, Tata McGraw Hill
3. Business Policy and Strategic Management: Kazmi, A., Tata McGraw Hill
4. Global Strategic Management: Mellahi, K.,Frynas, J.G.and Finlay, P., OUP
5. Competitive Strategy: Porter, Michael E., The Free Press
6. Discourses on Strategic Management: Roy, Dilip; Asian Books

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

ELECTIVE PAPERS

SPECIALIZATION: MARKETING

MBPT-MM 403: B2B MARKETING

MODULE I:

1. Nature of Business Marketing: Business Marketing Concept, Business vs. Consumer Marketing, Economics of Industrial demand, Types of Industrial Markets, Types of Business Customers, Classifying Industrial Products and Services, Business customers' purchase orientations, Organizational Procurement Characteristics, Environment Analysis in Business Marketing. [6L]
2. Organizational Buying Behavior: Organizational Buying Process, Types of purchases/buying situations, Buying Centre Concept, Inter Personal Dynamics of Business Buying Behaviour, Roles of Buying centre, Conflict Resolution in Decision, The Webster and Wind model of Organizational Buying Behaviour, Ethics in Purchasing. [6L]
3. Business Marketing Research: Differences between B2C and B2B Marketing Research, Sales Forecasting Approaches, Top-Down, Bottom-up approaches. [2L]
4. Market Segmentation: Segmenting, Targeting and Positioning of Business Market, Value based segmentation, Model for segmenting the organizational Market. [4L]

MODULE II:

5. Product Policy of established products: Classification of the product types; the life cycle of the product; Management products; Strategies for established products. Product policy of new product development: Strategies for the development of new products; Marketing systems; Marketing of engineering services. [4L]
6. Formulating Channel Strategy: Nature of Business Marketing channels, Intermediaries, Direct and Indirect Channels, Channel Objectives, Channel Design, Managing Channel Members, Selection and Motivation of Channel Members, Channel conflicts [4L]
7. Pricing Strategy: Price Determinants, Factors that Influence the Pricing Strategies, Pricing Methods, concept of learning curves, Pricing Strategies, Pricing Policies, Terms of Payment, Competitive Bidding, Leasing [2L]
8. The Promotional Strategies: Communication Objectives, Role of personal relation, Advertising, Sales Promotion in Industrial Markets, Trade shows and Exhibitions. [2L]
9. Management of Sales Force: Personal Selling, steps involved in B2B personal selling, process of tendering, Key Account Management, Managing the Industrial Sales Force, Organizing and controlling the industrial sales force activity, planning for sales force deployment. [4L]
10. B2B through E-Commerce: Business-to-Business forms of E-Commerce, Models for B2B ecommerce, marketing strategy for the electronic market place. [4L]
11. Case Studies in Indian context only [2L]

Suggested Readings:

1. Industrial Marketing by P. K. Ghosh; Oxford University Press
2. Indian Cases in B2B Marketing by Dilip Sarwate

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

3. Fundamentals of Business to Business by Coe John; McGraw-Hill Education
4. Business Market Management by Jr. Anderson James C; Pearson
5. Driving Demand: Transforming B2B Marketing to Meet the Needs of the Modern Buyer by Carlos Hidalgo; Palgrave Macmillan
6. The Challenger Sale by Matthew Dixon, Brent Adamson; Penguin

MAKAUT/MBA-PT/4thSEM
(4 Credit: 40 hrs)

MBPT-MM 404: DIGITAL & SOCIAL MEDIA MARKETING

MODULE I:

1. Fundamentals of Digital Marketing: concept, history, types, implementation and benefits of digital marketing [2L]
2. Search Engine optimization: concept of Search Engines optimization, how SEO operates, website domain, file name, design layouts, optimized keywords, keyword frequency weightage, prominence, placement of keywords, finding keyword, word stemming, metatag optimization, title optimization, anchor optimization, mobile SEO techniques. [8L]
3. Social Media Marketing: concept, as a marketing tool, importance of social media marketing, Social marketing strategy (SMO) for business, SMO key concepts, business profile creation, brand awareness, social engagement; Viral marketing, tools of measurement of popularity, traffic , analytics and statistics. [8L]

MODULE II:

4. Facebook marketing: overview-types of facebook pages, growth of business through facebook; profile page setup, page navigation, influencer, ad options, page promotion, identity target ,likes philosophy, create and engaging fans, call to action, video promotion, marketing tricks, FB analytics. [8L]
5. Twitter Marketing: Concept, advantages, implementation of twitter; create of twitter account, follower growth, hash tags, sponsor of twitter/hash tags, twitter analytics. [4L]
6. Google+: Concepts, advantages, creating page on Google+, customization, integration with website/blog, increase in followers, promotion and tools. [4L]
7. LinkedIn: concept, benefits, promotion and growth of business using linkedin. [4L]
8. Case Study [2L]

Suggested Readings:

1. Understanding Digital Marketing by Damian Ryan , Pearson
2. Fundamentals of Digital Marketing by Puneet Singh Bhatia
3. Digital Marketing cases from India by Rajendra Nargudkar and Romi Sainy
4. Marketing 4.0: Moving from Traditional to Digital by Kotler, Kartajaya, Setiawan
5. Social Media Marketing by Tracy L Tuten and Michel R Solomon by SAGE
6. Social Media: 2017 Marketing Tools for Facebook, Twitter, LinkedIn, Youtube, Instagram and Beyond by Mcdonald Jason.

MBPT-OM 403: SUPPLY CHAIN AND LOGISTICS MANAGEMENT

MODULE I:

1. Introduction – Value Chain, Value System and Supply Chain, Supply Chain Drivers and Obstacles, Concept of Supply Chain Management (SCM) [4L]
2. Supply Chain Structure – Push-based Supply Chain vs. Pull-based Supply Chain, Trade-off between Push and Pull Strategies, Agile Supply Chain [4L]
3. Supply Chain Strategy – Strategic Decisions in SCM, Relating Supply Chain Strategies with Corporate Strategies, SBU Strategies and Functional Strategies [4L]
4. Role of Sales and Marketing in SCM – Personal Selling in SCM, New Roles for Sales Management, Relationship Marketing in SCM [2L]
5. Operational Aspects in SCM – JIT and Kanban in SCM, Green Logistics, Reverse Logistics, Ethical SCM [4L]
6. Role of Transportation in SCM – Key Role Players in Transportation, Transportation Modes, Performance Characteristics and Selection, Vehicle Scheduling and Routing, Distribution Management [4L]

MODULE II:

7. Sourcing in SCM – Importance of Sourcing in SCM, Buying Decision, Procurement Process, Strategic Sourcing [4L]
8. Supply Chain Planning – Demand Planning, Collaborative Planning, Scope of Planning Initiatives in SCM [2L]
9. Role of Inventory Management in SCM – Need for Inventory Management, Control of Inventory in Retail and Services, Costs in Inventory Management [2L]
10. Information Systems in SCM – Supply Chain Information Systems, Requirements Analysis of IT for SCM, E-Business and SCM, Challenges in Implementing Supply Chain Information Systems [4L]
11. SCM in the Global Environment – Global Business Environment, Approaches to Globalization, an Overview of Global SCM, Challenges in establishing a Global Supply Chain [4L]
12. Case Study [2L]

Suggested Readings:

1. Chandrasekaran, N. – Supply Chain Management – Process, System and Practice; OUP
2. Altekar, R.V. – Supply Chain Management; PHI
3. Chase, R.B., Shankar, R. and Jacobs, F.R. – Operations and Supply Chain Management; MGH
4. Agarwal, D.K. – Supply Chain Management: Strategy Cases and Best Practices; Cengage Learning
5. Chopra S., Meindl, P. and Kalra, D.V. – Supply Chain Management: Strategy, Planning and Operation; Pearson
6. Shah, J. – Supply Chain Management: Text and Cases; Pearson

MBPT-OM 404: OPERATIONS STRATEGY

MODULE I:

1. Introduction – Innovation and operations discipline; Frameworks for strategy and the decision category approach; Developing an operations strategy; Content of Operations Strategy; The Operations Strategy Matrix; Value chain dynamics and operations decisions; Enterprise architecture and operations strategy. [4L]
2. **Key Elements and Decision Categories** – Vertical integration and outsourcing; Business processes; Process technology decisions and multiple plants; Capacity strategy: How to make decisions on capacity and capacity expansion; Facilities strategies and globalization; Comparisons of plant productivity; facilities strategy and globalization; Sourcing and supplier management; Information systems and the impacts of the electronic economy. [6L]
3. **Capabilities and Different Approaches** – Competing on quality: Sources of quality and different measures of quality; Competing on cost versus competing on availability; Competing on cost versus competing on features and innovativeness; Competition in the various industries: Improving cost and quality. [6L]
4. **Strategic Operations Planning** – Environmental assessment including assessment of technology and competition, organization position assessment, mission, financial and non-financial goals, operational forecasts. [4L]

MODULE II:

5. **Modern Approach to Operations Strategy** – Integrating Operations strategy with Marketing, Finance and HR Strategies. International Operations Management: Key differences between Asia, Europe and USA, Productivity enhancement practices in Asia, Europe and USA, Role of competitive pricing. [6L]
6. **Globalization, Outsourcing and other Critical Issues** – Models for gaining advantage in a global environment; How to position within a value chain; Globalization, joint ventures, sourcing overseas, and macroeconomic effects of off-shoring; Supplier power and overseas sourcing: Moving up the value chain in outsourcing; basic concept of International trade and competitiveness. [6L]
7. **Strategy Implementation** – Tracking goal fulfillment, Quality and productivity, Technology Plans, Mechanization and Automation. Simulation: Techniques of simulation, simulating operational scenarios, integrating operations with other functional areas, simulating service operations based on known distributions. [6L]
8. Case Study [2L]

Suggested Readings:

1. Slack, N., Lewis, M. and Sharma, M.G. – Operations Strategy; Pearson India.
2. Krajewski, L.J. and Ritzman, L.P. – Operations Management – Strategy and Analysis; Addison-Wesley Publishers.
3. Garvin, D.A. – Operations Strategy: Text and Cases; Pearson.
4. Tan, K. H. and Matthews, R. – Operations strategy in action: A guide to the theory and practice of implementation; Edward Elgar Publishing.
5. Hayes, R., Pisano, G. and Upton, D. – Strategic operations: Competing through capabilities; Free Press.
6. Hayes, R. – Operations, Strategy and Technology: Pursuing the Competitive Edge; Wiley India.

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

SPECIALIZATION: FINANCE

MBPT-FM 403: TAXATION

MAKAUT/MBA-PT/4thSEM

(4 Credit: 40 hrs)

MODULE I: DIRECT TAX

1. Concepts: Cannons of Taxation, Person, Assessee, Income, Previous Year, Assessment Year, Gross Avoidance, Planning, Exemption, Deduction, Rebate, Relief. [2L]
2. Residential Status and Tax Incidence: Individual and Corporate. [4L]
3. Income Exempted from Tax: Individual and Corporate. [2L]
4. Computation of Taxable Income of Individual, HUF, Firm and Corporate: Heads of Income – Salaries, Income from House Property, Profits and Gains from Business or Profession, Capital Gains, Income from Other sources. Deduction from Gross Total Income – 80CCC, 80D, 80DDB, 80E, 80G, 80GG, 80GGA, 80C, 80U; Set Off and Carry Forward of Losses – Principles, Meaning, Inter – sources and Inter – head Set Off, Carry Forward and Set Off of Losses under sections 71, 72 and 73. [8L]
5. Computation of Tax for Individual, H.U.F, Firm and Corporate: Rate of Tax and Surcharge Tax, Rebate Tax Management – Submission of Return and Procedure of Assessment, Pan, Tan, Preliminary ideas of Deduction and Collection of Tax at Source, Advance Payment of Tax, Refund of Tax, Minimum Alternate Tax. [6L]

MODULE II: INDIRECT TAX

1. Customs Act and Valuation: Basic Concepts only [2L]
2. Goods and Service Tax: GST in India. Features and Advantages, Structure of GST in India: CGST, SGST, UTGST, IGST, Taxes subsumed by GST, Commodities kept outside the scope of GST. Procedure for Registration; Deemed Registration, Cancellation of Registration, Revocation of Cancellation of Registration. Levy and Collection of Tax under GST: 16 Rates structure of GST, Scope of supply, Composition Scheme under GST [8L]
3. Tax Planning: Scheme of Tax Planning, Tax Planning for Salaries, Tax Planning for Profits and gains of Business or Profession, Tax Planning for Capital Gains. [6L]
4. Case Study [2L]

Suggested Readings:

1. Lal and Vasisht, Direct Taxes, Pearson Education
2. Singahnia, Direct Taxes, Taxman
3. Singhanian, Indirect Taxes, Taxman
4. Bhagawati Prasad, Direct tax law and Practice.
5. Gaur and Narang, Income Tax law and Practices, Kalyani Publisher
6. T. B. Chatterjee and V. Jalan, How to handle - GST-TDS and GST-TCS, GST audit, GST Annual Return, Book Corporation

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

MAKAUT/MBA-PT/4thSEM

(4 Credit: 40 hrs)

MBPT-FM 404: PROJECT APPRAISAL AND FINANCE

MODULE I:

1. Introduction to Project Finance, Overview and Fundamentals- Concepts, Functions, Types, Advantages and Disadvantages, Parties, Prerequisites of Project Finance. [4L]
2. Project Finance Risks and Risk Mitigation- Project Conceptualization Risk, Financial Closure Risk , Project Construction Risk , Political Risk , Market Risk ,Supply Chain Risk, Policy Risk, Exchange Risk, Environmental Risk , Force Majeure. [6L]
3. Sources of Capital- Various sources of debt and equity , Prudence in Mix of Long Term and Short Term Finance ,Forms of Long Term Project Finance ,Forms of Short Term Project Finance , Lease , Role of Non-Banking Finance Companies (NBFC) [6L]
4. Project Selection- Projects Procurement Process, Life – Cycle Costing, Market Analysis , Competencies and Promoter Analysis, Loan Documentation - Infrastructure and Public Private Partnership [6L]

MODULE II:

5. Cost of Project -Project specifications , Estimating Fixed Capital Investment in Project , Estimating Working Capital investment in the project, Means of Financing , Concepts of Depreciation and Amortization [4L]
6. Project Feasibility Analysis - Background , Net Present Value (NPV) , Profit v/s Cash Flow, Discount Rate , Tax-Shield on Interest , Tax-Shield on depreciation ,Internal Rate of Return (IRR) , XIRR , MIRR , Project IRR and Equity IRR , Payback Period , Discounted Payback Period , Economic IRR [6L]
7. Financial Projections-Projected Profit and Loss Account, Projected Balance Sheet, Projected Funds Flow, Project IRR , Equity IRR , Loan Servicing Capability: (a) Interest Coverage Ratio (ICR) (b) Debt Service Coverage Ratio (DSCR) (c) Long Term Debt Service Coverage Ratio (LDR) d) Sensitivity Analysis [6L]
8. Case Study [2L]

Suggested Readings:

1. Project Financing: Asset-Based Financial Engineering-John D. Finnerty, Wiley and Sons
2. Project Finance in Theory and Practice: Designing, Structuring, and Financing Private and Public Projects, Stefano Gatti- Academic Press
3. Principles of Project Finance- E. R. Yescombe,Academic Press
4. Corporate and Project Finance Modeling: Theory and Practice- Edward Bodmer, Wiley and Sons
5. Introduction to Project Finance-Andrew Fight, Elsevier
6. PPP And Project Finance -Das, Prabuddha, McGraw-Hill Education

SPECIALIZATION: HUMAN RESOURCE MANAGEMENT

MAKAUT/MBA-PT/4thSEM

(4 Credit: 40 hrs)

MBPT-HR 403: TEAM DYNAMICS AT WORK

MODULE I:

1. Meaning of a Group and Group Dynamics, Classification of Groups – Formal and Informal groups, Command, Task, Interest and Friendship groups. Why people join groups. The dynamics of group formation. Theories of group formation: Classic theory of George Homans, Theodore Newcomb's Balance theory, Exchange theory. Five stage group development model, Punctuated Equilibrium model of development of temporary groups with deadlines. Managerial Implications. [4L]
2. Group Properties: Roles, Norms, Status, Size, Cohesiveness - factors that increase, Decrease group cohesiveness, relationship between group cohesiveness, Performance norms and productivity. Deviant workplace behaviour, Typology of Deviant workplace behaviour, groups and deviant behaviour. Managerial Implications. [4L]
3. The Schachter Study - Implication of the Schachter study, Sociogram, Sociometry. The dynamics of Informal Groups - Norms and Roles in informal groups, informal Roles and the informal organization. The dynamics of formal Groups - Positive and negative attributes of committees. The dysfunctions of group norms violation and role ambiguity conflict. Groups' contribution to employee satisfaction and performance. Managerial Implications. [4L]
4. Group decision making: Group versus the Individual, strength and weakness of group decision making, Effectiveness and efficiency. Group Think – conformity problem, symptoms of groupthink. Group Shift - risky shift phenomenon. Dysfunctions perspective, social loafing. Group decision making techniques - Interacting groups, Brainstorming, Nominal Group Technique, Electronic meeting, Dialectic Decision Method (DDM), Delphi Technique. Managerial Implications. [4L]

Case Studies, Presentations, quizzes, experiential exercises, Team exercises, Group Discussions, Role Playing. [4L]

MODULE II:

5. Teams in the modern workplace, why teams have become so popular, difference between group and team, types of teams – problem-solving teams, self-managed work teams, cross-functional teams, virtual teams. Managerial Implications. [4L]
6. Creating effective teams, the Team Effectiveness Model – context, composition, work design, process. Ingredients of effective teams – supportive environment, skills and role clarity, super ordinate goals, team rewards. Potential team problems – changing composition, social loafing. Guidelines for developing effective self-managed teams. Turning individuals into team players, shaping team players – selection, training, rewards. Managerial Implications. [6L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

7. Team building: meaning of team building, need of team building, the process, specific building issues, team leadership, skills useful in team building – process consultation, T- group sensitivity training, communication skills, Negotiation skills, conflict resolution in teams, competitive vs collaborative behavior, developing collaboration facilitating behaviours, feedback. Managerial Implications. [4L]

8. Contemporary issues in managing teams: teams and quality management, teams and workforce diversity. Cultural/global issues. Characteristics of mature teams - individual territories versus team spaces. Managerial Implications. [2L]

Case Studies, Presentations, quizzes, experiential exercises, Team exercises, Group Discussions, Role Playing. [4L]

Suggested Readings:

1. Robbins, S.P. Judge, T.A. and Sanghi, S.: Organizational Behaviour, Pearson
2. Luthans, Fred: Organizational Behaviour, McGraw Hill
3. Newstrom J.W. and Devis K.: Organizational Behaviour, McGraw Hill
4. Aswathappa, K: Organisational Behaviour, Himalaya Publishing House
5. Shukla, Madhukar: Understanding Organizations – Organizational Theory and Practice in India, Prentice Hall
6. Sekharan, Uma: Organisational Behaviour, The Mc Graw -Hill Companies

MBPT-HR 404: HUMAN RESOURCE METRICS AND ANALYTICS

MODULE I:

1. Introduction: HR metrics - meaning, importance, what metrics should HR measure? Examples of HR metrics. HR Analytics - What is Analytics? Big data and Analytics, Stages in Data Analytics, Types of Analytics, Causal Modeling, What is HR Analytics? Objectives of HR Analytics. Its importance and benefits. [6L]
2. Realigning HR to business priorities, Stages of HR Analytics and the role of technology. Leveraging HR Analytics for organizational success. Mapping Business Analytics and HR Analytics. IMPACT Cycle. Pillars of HR Analytics success. Linking HR metrics to business outcomes. HR measurement tools and techniques: Identifying HR metrics, sources of data, tools and techniques of measurement. Excel, SPSS, SAP and Other software packages. [8L]
3. Human Capital Management (HCM) - Concepts, Phases-Scanning, Planning, Producing, Predicting. The Model for Predictive Management. Value Chain for HCM Model. Predictive Human Capital measurements. Guiding principles of Human Capital Analytics. [4L]

MODULE II:

4. HR Analytics and the HR delivery model. Requisites of effective HR Analytics. HR analytics modules: HR Planning, Hiring, HR Operations, Learning and Development, Performance Management, Compensation and Rewards, Succession Planning, Employee Engagement. [6L]
5. Human Resource Information System (HRIS): Understanding HRIS, Framework of HRIS. Benefits of HRIS. HRIS Trends: Talent Management Analysis, Data Analytics, Social media, cloud mobile enabled, Employee Engagement Analysis. Integrated HRIS. [6L]
6. Data and Information needs for HR Manager - Role of IT in HRM - IT for HR Managers - Concept, Structure, and Mechanisms of HRIS, survey of Software [4L]
7. Packages for Human Resource Information System including ERP Software such as SAP, Oracle. EHRM-objectives, advantages and disadvantages. [4L]
8. Case Study [2L]

Suggested Readings:

1. Michael Armstrong, A Handbook Of Human Resource Management Practice, Kogan Page
2. Gueutal and Stone, The Brave New World Of e-HR
3. Monk and Wagner, Concepts In Enterprise Resource Planning, Thomson
4. Steve VanWieren, Quantifiably Better: Delivering Human Resource Analytics from start to finish.
5. Bernard Marr, Data-driven HR: How to use Analytics and Metrics to drive performance.
6. Ramesh Soundararajan, Kuldeep Singh, Winning on HR Analytics: Leveraging data for competitive advantage.

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

MAKAUT/MBA-PT/4thSEM
(4 Credit: 40 hrs)

(MBPT-MIS 403-Data Mining for Business Decisions)

MODULE I:

1. Introduction to Data Mining: Data Mining Concept, Goals, Stages of Mining Process, Applications, Techniques, Knowledge representation methods, Challenges. [4L]
2. Data Preprocessing: Data types, Quality, Descriptive data summarization – central tendency and dispersion measure, Data cleaning, Outlier detection, Data integration and transform, Data reduction. [6L]
3. Association Rule Mining: Market-basket analysis basics, Naïve algorithm, Apriori algorithm, Software for Association Rule Mining. [4L]
4. Classification and Prediction: Decision Tree, Bayesian classification, Rule-based classification, Prediction – Linear Regression [4L]

MODULE II:

5. Data Warehouse and OLAP: Data Warehouse and DBMS, Multidimensional data model, OLAP operations. [6L]
6. Clustering: Basic issues in clustering, Partitioning methods: k-means, Hierarchical methods: distance-based agglomerative and divisible clustering, Cluster Analysis Software. [8L]
7. Data Mining Software and Applications: Text mining: extracting attributes (keywords), structural approaches (parsing, soft parsing), Bayesian approach to classifying text, Web mining: classifying web pages, extracting knowledge from the web, Social impacts of data mining, information privacy and data security, IT Act overview. [6L]
8. Case Study [2L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

Suggested Readings:

1. Tan, Steinbach and Kumar, Introduction to Data Mining, Pearson
2. Han and Camber, Data Mining: Concepts and Techniques, Morgan Kaufmann
3. Foreman, Data Smart: Using Data Science to Transform Information into Insight, John Wiley
4. Dunham, Data Mining : Introductory and Advanced Topics, Pearson
5. Vipin Kumar: Introduction to Data Mining, Pearson
6. Ian, H. Witten, Frank: Data Mining: Practical Machine Learning Tools and Techniques, Elsevier.

MAKAUT/MBA-PT/4thSEM
(4 Credit: 40 hrs)

MBPT-MIS 404: E-COMMERCE AND DIGITAL MARKETS

MODULE I:

1. E-Commerce /E-Business: Introduction, Advantages and Disadvantages, Benefits, Features, Business models of E-Commerce, Model based on revenue models, Implementation E-Commerce business, Infrastructure Requirement for E-Commerce, Different types of Networking for E-Commerce ,Internet, Extranet and Intranet, Intelligent System, Risk of E-commerce -Overview, Security for E-Commerce, Security Standards, Farewell, Cryptography [8L]
2. M-Commerce: Definition, Classification, Advantages and Disadvantages, Benefits, Pitfalls of M-Commerce, Hand Held Devices, Mobility and Commerce, Mobile Computing, Wireless Web, Payment Mode. [6L]
3. E-Strategy: Overview, Strategic Methods for developing E-Commerce, E-Advertisement, Payment Mode, E-Cheque, E-cash, E-Threats and Protection [6L]

MODULE II:

4. ERP and SCM: Definitions-ERP,CRM,SCM, Concept of ERP, Evolution of ERP, Scope and Problem of ERP selection and Implementation ,Selection of ERP process, Feature of Commercial Software, Concept of CRM, Features ,Applications, SRM portal, SCP tools, SCE, Framework, Internet's Effect on Supply Chain Power, Case Study [8L]
5. E- Marketing/ Digital Marketing: E-shopping, Role, Policies ,Online Marketing and Offline marketing, SEO,SMM,SEM, Meta Tags, Content Marketing, Marketing in Digital Age, Telemarketing, Commercial packages for E-shopping Portal, Case Study [6L]
6. EDI: Introduction, Definition, Features, Benefits, Application, Model, Protocol [4L]
7. Case Study [2L]

Suggested Readings:

1. Drop shipping E-commerce Business Model 2019: Steven Sparrow
2. Electronic Commerce: Gray P. Schneider
3. E-Commerce Website Optimization: Dan Croxson-John, Johann van Tonder
4. Electronics Commerce -Technologies and Applications: Bhaskar Bharat, TMH
5. Frontiers of Electronic Commerce: Kalakota ,Whinston, Pearson Education
6. E-Commerce : Strategy Technologies and Applications: Whiteley, David, TMH

MBPT-BA 403: DATA MINING

MODULE I:

1. **Introduction to Data Mining:** data mining, Related technologies - Machine Learning, DBMS, OLAP, Statistics, Data Mining Goals, Stages of the Data Mining Process, Data Mining Techniques, Knowledge Representation Methods, Applications [4L]
2. **Data Warehouse and OLAP:** Data Warehouse and DBMS, Multidimensional data model, OLAP operations [2L]
3. **Data Preprocessing:** Data cleaning, Data transformation, Data reduction, Discretization and generating concept hierarchies, Installing Weka 3 Data Mining System [4L]
4. **Data Mining Knowledge Representation:** Task relevant data, Background knowledge, Interestingness measures, Representing input data and output knowledge, Visualization techniques, Experiments with Weka- visualization [6L]
5. **Attribute-Oriented Analysis:** Attribute generalization, Attribute relevance, Class comparison, Statistical measures [4L]

MODULE II:

6. **Data Mining Algorithms I:** Association rules, Motivation and terminology, Generating item sets and rules efficiently, Correlation analysis [4L]
7. **Data Mining Algorithms II:** Classification, Basic learning/mining tasks, Inferring rudimentary rules: 1R algorithm, Decision trees, Covering rules [6L]
8. **Data Mining Algorithms III:** Prediction, The prediction task, Statistical (Bayesian) classification, Bayesian networks, Instance-based methods (nearest neighbor), Linear models [4L]
9. **Clustering:** Basic issues in clustering, conceptual clustering system, Partitioning methods: k-means, expectation maximization (EM), Hierarchical methods: distance-based agglomerative and divisible clustering, Conceptual clustering: Cobweb [4L]
10. **Case Studies** [2L]

Suggested Readings:

1. Cristianini N. and Shawe-Taylor J.: An Introduction to Support Vector Machines and Other Kernel-based Learning Methods, Cambridge University Press, 2000.
2. Hand D., Mannila H. and Smyth P.: Principles of Data Mining, MIT Press, 2001.
3. Langley P.: Elements of machine learning, Morgan Kaufmann Publishers, 1996.
4. Larose D.T.: Discovering knowledge in data: an introduction to data mining, Wiley-Interscience, 2005.

MBPT-BA 404: MARKETING ANALYTICS

MODULE I:

1. Introduction to Marketing Analytics: Need for Data Driven Marketing Approach, Marketing Engineering, Model Building in Marketing Engineering, Basic Principles of Marketing Analytics to Business Problems, Slicing and Dicing Marketing data with Pivot Tables, Excel Charts to summarize data [6L]
2. Pricing Analytics: Basic Concept of Pricing, Estimating Demand Curves and Optimize Price, Price Bundling, Non Linear Pricing and Price Skimming [6L]
3. Marketing Forecasting: Simple Regression and Correlation, Multiple Regression to forecast sales, Modeling trend and Seasonality, Ratio to Moving Average Method, Winter's Method [4L]
4. Strategic Marketing Analytics: The STP framework, Value generation through STP framework, Managing the segmentation process, Segmentation in Real world: Cluster Analysis, Hierarchical and Non-Hierarchical - K Means Clustering, Prediction of Customer's segment membership: Discriminant Analysis (DA), two Group DA [4L]

MODULE II:

5. Positioning Strategies: Concept of Product positioning, Conduct a Positioning Study, Perceptual Mapping using Principal Component Analysis (PCA), Multidimensional Scaling (MDS), Incorporating preferences into Perceptual Maps [6L]
6. Customer Lifetime Value (CLV): Concept of CLV, Comparison of CLV with related metrics, Analyzing CLV, Extensions of CLV Analysis, Drivers of CLV, Uses of CLV metrics [8L]
7. Product Designing: Concept of Product Designing, Conjoint Analysis as a decompositional preference model, Steps in Conjoint Analysis, Uses of Conjoint Analysis, Drivers of CLV, Uses of CLV metrics [4L]
8. Case Study [2L]

Suggested Readings:

1. Marketing Analytics - Data-driven Techniques with Microsoft Excel by Wayne L. Winston
2. Marketing and Sales Analytics: Proven Techniques and Powerful Applications from Industry Leaders by Cesar A. Brea
3. Marketing Analytics by Winston
4. Data Analytics using R - Seema Acharya, Mc. Graw Hill Publication
5. Advanced Customer Analytics: Targeting, Valuing, Segmenting and Loyalty Techniques' Mike Grigsby
6. Digital Marketing Analytics: Making sense of Consumer Data in digital world, Chuck Hemann, Ken Burbary; Que Publishing

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

Semester-V

MAKAUT/PT-MBA/5th SEM

(4 Credit: 40 hrs)

MBPT-MM 501: IMC/ PROMOTION STRATEGY

MODULE I:

1. Introduction to Integrated Marketing Communication: Definition, features and role of IMC and its relation with marketing program Concept, Evolution of IMC, Reasons for Growth and Features. Promotional Tools for IMC, IMC Planning Process, Communication Process, AIDA and Hierarchy of Effect Model, Establishing Objectives and Budgeting: Determining Promotional Objectives, Sales vs. Communication Objectives, DAGMAR, Problems in Setting Objectives, and Setting Objectives for the IMC Program. [4L]
2. Elements of IMC: Sales Promotion - Different Types of Sales Promotion, Advantages and Disadvantages. Public Relation and Publicity - Types of PR, Process, Advantages and Disadvantages, Types of Publicity, Direct Marketing - Features, Advantages and Disadvantages, Personal Selling - Features, Advantages and Disadvantages, Advertising - Features, Advantages and Disadvantages,, New Trends in IMC, International Media. [6L]
3. Sales Promotion: Definition, Reasons for rapid growth of sales promotion, Objectives of sales promotion, Types of sales promotion, Tools and techniques of consumer and trade promotion with merits and demerits, Role of sales promotion in IMC programme [4L]
4. Public Relations and Corporate Advertising: Definition, New role of PR, Objectives, tools and techniques of public relations with merits and demerits, Corporate advertising- scope and types, role of PR in IMC programme [2L]
5. Evaluation of Promotional Effectiveness: Reasons to measure effectiveness, What, when, where, how to test, Testing methods - pre-testing and post testing techniques, Essentials of effective measures, Problems with current methods, Measuring effectiveness of other promotion [2L]

MODULE II:

6. Advertisement: Introduction to Advertising: History of advertising, Definition, features and role of advertising, Relationship of advertising with other promotional mixes and marketing mix elements, Various forms of Advertising: (national, retail, cooperative, trade, industrial financial, corporate, public services, political) [2L]
7. Advertising Industry: Advertisers, Advertising agencies and support organizations, Types of agencies, Structure, role and functions of ad agencies, Agency compensation and evaluation. [2L]
8. Advertising Planning and Budgeting: Planning process, steps, situation analysis, objective setting, budgeting, developing promotional strategies, implementation and control, Budgeting approaches - different methods, allocation of budget [2L]
9. Designing an Advertisement: Different dimensions, Importance of creativity to advertising, Creative process, developing a creative brief, Message Strategies: Message structure, Message appeals- rational, emotional, Message source-credibility, attractiveness, power. [4L]
10. Execution frameworks: for print and electronic media - copywriting, body copy, headlines, layout, visuals, slogans, logos, signatures, storyboards [2L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

11. Media Strategies: Media planning process, Media mix, Coverage, Reach, Frequency, Impact, Scheduling, Different types of media – television, radio, print, outdoor, characteristic features, advantages and limitations, Factors influencing choice of media flows and functions, Channel design decisions.. [4L]
12. Social Media marketing: Concept, role and features of SMO, SEO, Facebook, Twitter, Linked in, youtube as means of marketing communication. [2L]
13. Advertising and Society: Social – social and cultural, Ethical – deceptive, offensive, economical- effect on consumer choice, competition, cost and prices, and Regulatory aspects of advertising – ASCI [2L]
14. Case Study on aspects of Advertising [2L]

Suggested Readings:

1. Contemporary Advertising: Arens W.F.; TMH
2. Advertising and Promotion: Belch G.E. and Belch M.A; TMH
3. Integrated Advertising, Promotion and Marketing Communications: Clow K.E., Baack D.; Pearson
4. Advertising and Integrated Brand Promotion: O'Guinn T. C., Allen C.T.; South Western
5. Ogilvy on Advertising: Ogilvy David; Pan Books
6. Understanding Digital Marketing: Damian Ryan, Pearson

MAKAUT/PT-MBA/5th SEM
(4 Credit: 40 hrs)

MBPT-MM 502: MARKETING RESEARCH

MODULE I:

1. Marketing Research: Introduction, Application of research in managerial decision making, Aims, roles, functions and sources of research, Client-user interface – role conflict and resolution [2L]
2. Research Process: Steps in planning – research purpose and objectives, Converting a manager's problem to a researcher's problem, Problem formulation, research design, data collection, analysis, report presentation, Preparation of the research proposal. [4L]
3. Research Design: Types of research - exploratory studies, descriptive studies, causal studies, Types of information needed - behavioural and non-behavioural correlates [4L]
4. Sources of Data: Primary and secondary source (govt., non-govt. and syndicated research), Errors in data collection [4L]
5. Primary Source – Methods of Data Collection: Focus groups, Observations, Case histories; Surveys – survey methods - structured and unstructured, direct and indirect methods, in-depth interviews, panels, interview media: personal, telephone, internet and mail, questionnaire construction and pre-testing, qualitative and quantitative research. [4L]

MODULE II:

6. Measurement and Scaling: Types of scales (data/levels of measurements), nominal, ordinal, interval, ratio scales, Attitude measurement methods - variability methods (paired comparison, ranking, rating, ordered category sorting), Quantitative judgment methods [6L]
7. Sampling: Census vs. sample, Steps in sampling process, Definition of population, frame, unit and element, Types of sampling: Probabilistic and non-probabilistic sampling techniques Determination of sample size

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

[4L]

8. Analysis of Data: Classification of data, Analytical techniques – univariate analysis, hypothesis testing- parametric and non-parametric tests, bivariate analysis. Some multivariate analysis techniques like multiple regression, discriminant analysis, factor analysis, cluster analysis, multi - dimensional scaling and conjoint analysis, forecasting methods (application and interpretation only) [10L]
9. Application Areas: Advertising Sales analysis and forecasting, Case Studies [2L]

Suggested Readings:

1. Research for Marketing Decisions: P. Green and D. Tull and G. Albaum; PHI
2. Marketing Research: Text and Cases; Boyd and Westfall; AIT Bookseller
3. Marketing Research: Luck and Rubin; PHI
4. Marketing Research: D.R. Cooper and P.S. Schindler; TMH
5. Marketing Research: Naresh K Malhotra; Pearson
6. Marketing Research: G C Beri; Tata McGraw Hill

MAKAUT/PT-MBA/5th SEM
(4 Credit: 40 hrs)

MBPT-MM 503: CONSUMER BEHAVIOUR

MODULE I:

1. **Introduction to Consumer Behaviour:** Defining consumer behaviour, Impact on marketing strategies, Current trends in consumer behaviour [2L]
2. **Consumer Decision Process:** Need recognition, information search, evaluation of alternatives, purchase decision, consumption and post-purchase evaluation, Variables that shape decision process- individual differences, psychological processes, environmental influences, Types of decision process – complex decision making, variety seeking, impulse buying, loyalty, degree of involvement in buying [6L]
3. **Individual Characteristics:** Demographic and psychographic characteristics and market segmentation, Personality, personal values, lifestyle concepts and measurements [4L]
4. **Consumer Perception:** Marketing stimuli and perception, Perceptual selection - organization, interpretation, and selective perception process [2L]
5. **Learning and Memory:** Information acquisition and processing, learning elements, Theories, Memory processes [2L]
6. **Consumer Motivation:** Nature and role of motives, Classifying motives, Motive arousal, Motivation and Involvement [2L]
7. **Self-concept:** Perspective of self, Consumption and self concept, Gender roles [2L]
8. **Attitude:** Characteristics and functions of attitude, Attitude development, Attitude theories and models, Role of belief in attitude formation, Relationship of attitude and behaviour, Attitude reinforcement and change [6L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

MODULE II:

9. **Culture Subculture and Social Class:** Nature of culture, Cultural values, Changing values, Cross-cultural understanding of consumer behaviour, Types of subculture and their influence on behaviour, Nature of social class, Social stratification [4L]
10. **Reference Group Influence:** Nature and types of reference groups, How groups influence individuals, Opinion leadership, Word-of-mouth, Innovation and diffusion [2L]
11. **Family and Household:** Structural and sociological variables affecting families and households, Family life cycles, Role behaviour, Conflict resolution, Changing role of women, Children and household consumer behavior [4L]
12. **Case Studies** [4L]

Suggested Readings:

1. Assael, H.: Consumer Behaviour & Marketing Action; South-Western
2. Blackwell, R.D., Miniard, P.W. & Engel, J.F.: Consumer Behaviour; South-Western
3. Hawkins, D.I., Best, R.J. Koney, K.A.& Mookerjee, A.: TMH
4. Kumar: Conceptual issues in Consumer Behaviors; Pearson Education
5. Loudon & Bitta, Della: Consumer Behaviour; TMH
6. Shiffman & Kanuk: Consumer Behaviour; Pearson Education

MAKAUT/PT-MBA/5th SEM
(4 Credit: 40 hrs)

MBPT-MM 504: RETAIL MANAGEMENT

MODULE I:

1. **Introduction to Retailing:** Growth and importance, Strategic Retail Planning. Retail Organization, Models and Theory of Retail Development, Retail Formats, Rural Retailing, Environment and Legislation for Retailing [4L]
2. **Retail Operations Management:** Retail location research and techniques, Objectives of Store designing, Responsibilities of Store Manager, Store record and accounting system, Logistic and Information system [6L]
3. **Retail Planning:** Marketing and Strategic Management, Operations and finance in retailing, HRM in retailing, Mall Management, Relationship Management, Brand Management, Social Marketing in Retailing [6L]
4. **Retail Sales Techniques and Promotion:** Advertising communications and promotion, Promotion Impact, Tactical analysis, Consumer and Retail Sales promotion techniques. [4L]

MODULE II:

5. **Customer Relationships and Behaviour:** Understanding Consumer and Market Segment, Consumer Behaviour and Marketing Strategy, Consumer Perception, Self Concept, Relevance of Culture, Buying Decision, Opinion Leadership, Implications of Personal Influences [4L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

6. **International Retailing:** International Marketing Research and Information System, Market Analysis, Motives of International Retailing, International Retail Environment and Structure, Analysis of Retailing in Global Setting – methods and competition. [6L]
7. **Supply Chain Management:** Network, Challenges, Forecasting, Sourcing and Vendor Selection, Routing and Route sequencing, Inventory Management, Lead Time uncertainty and Product Availability, Cross Docking and Collaborative Planning. [4L]
8. **Electronic Retailing:** Use of IT in Retailing, Effective Management of Online catalogues, Direct Retailing Methods, Database Management, Data warehousing, Analysis of E – Retailing Strategies, Digital and Network marketing. [4L]
9. **Case Studies** [2L]

Suggested Readings:

1. Bajaj , Tuli, & Srivastava “Retail Management” Oxford University Press
2. Berman Barry & Evance J.R “Retail Management” Prentice Hall India
3. Jain J.N.& Singh P.P “ Modern Retail Management – Principal And Techniques ” Regal Publications
4. Swapna Pradhan “Retailing Management- Text And Cases” Tata Mcgraw-Hill
5. George H, Lucas Jr., Robert P. Bush, Larry G Greshan- Retailing
6. Barry Berman, Joel R Evans- Retail Management; A Strategic Approach

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

MAKAUT/PT-MBA/5th SEM

(4 Credit: 40 hrs)

**MBPT-OM 501: QUALITY TOOLKIT FOR
MANAGERS**

MODULE I:

1. Quality Philosophies - Defining Quality, Introduction to TQM, Benefits of TQM, Obstacles in Implementing TQM [2L]
2. Customer Satisfaction - Defining Customer, Customer Perception of Quality, Feedback, Customer Complaints Analysis, Customer Retention [4L]
3. Quality Leadership - Characteristics and Role of Quality Leaders/Gurus, Strategic Planning and Decision Making, Deming Philosophy [4L]
4. Quality Awards - Quality Audits, Documentation, ISO 9000 [2L]
5. Quality Function Deployment - Introduction, Benefits of QFD, Voice of Customer, House of Quality, QFD Process [4L]
6. Failure Mode and Effects Analysis - Reliability and Reliability Requirements, Failure Rate, Stages of FMEA [2L]

MODULE II:

7. Statistical Process Control - 7 QC Tools, Acceptance Sampling Plan, Control Charts - Mean and Range Charts, p-Chart, np-Chart, c-Chart [6L]
8. Continuous Process Improvement - PDCA / PDSA Cycle, Poka yoke, Kaizen, Theory of Constraints, Kaizen, Benchmarking, Business Process Reengineering, Kaikaku [6L]
9. Cost of Quality - Cost of Achieving Good Quality, Cost of Poor Quality, Optimum Quality Level [2L]
10. Six Sigma Implementation - Introduction to Six Sigma, Process Capability Indices, Six Sigma in Manufacturing, DMAIC and DMADV, Technology Development using Design for Six Sigma, Product Design using Design for Six Sigma, Six Sigma in Service Industries [4L]
11. Lean Manufacturing - Concept of Value and Waste, VA, NVA and NNVA activities, Value Stream Mapping, Concept and Features of Lean Manufacturing [2L]
12. Case Study [2L]

Suggested Readings:

1. Besterfield, D.H., Besterfield-Michna, C., Besterfield-Sacre, M. Besterfield, G.H. Urdhwareshe, H. and Urdhwareshe, R. - Total Quality Management; Pearson.
2. Feigenbaum, A.V. - Total Quality Control; MGH
3. Urdhwareshe, H. - Six Sigma for Business Excellence; Pearson
4. Charantimath, P.M. - Total Quality Management; Pearson
5. Omachonu, V.K. and Ross, J.E. - Principles of Total Quality; CRC Press
6. Wilson, L. - How to Implement Lean Manufacturing, Indian Edition; MGH

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

MAKAUT/PT-MBA/5th SEM

(4 Credit: 40 hrs)

MBPT-OM 502: PRICING & REVENUE MANAGEMENT

MODULE I:

1. Introduction – Historical background and context. Financial impact and Implications of Pricing and Revenue Management. [2L]
2. Revenue Management – Introduction, Revenue Management Process, Measuring Revenue Management Effectiveness, Revenue Management in Action. [6L]
3. Pricing Theory and Optimization – Traditional approaches to pricing, Basic pricing optimization, Price response function, Price response with competition, Price differentiation, Economies of price differentiation, Price differentiation and consumer welfare, Variable pricing. [8L]
4. Markdown Management – Markdown Pricing and Optimization; Estimating Markdown sensitivity; Markdown Management in Action. [6L]

MODULE II:

5. Customized Pricing – Introduction and Customized Pricing in Action, Bid Price Approach. [4L]
6. Forecasting – Demand Forecasting – Need, Types, Objectives and Steps. Overview of Qualitative methods, Quantitative methods – Naive, Moving Average (Simple and Weighted), Exponential Smoothing, Linear Regression, Implication of Forecasting in Revenue Management. [6L]
7. Capacity Allocation – Capacity Planning – Long range, Types, Developing capacity alternatives, Capacity Allocation with dependent demands, Forecasting and capacity planning. [4L]
8. Industry Applications – Industry Implementations and Practices, Case Studies. [4L]

Suggested Readings:

1. Philips R.L. – Pricing and Revenue Optimization, Stanford Business Book
2. The Oxford Handbook of Pricing Management Edited by Ozalp Ozer and Robert Philips, Oxford University Press
3. Talluri, K. and Van Ryzin, G. – The Theory and Practice of Revenue Management, Springer.
4. Bodea, T. and Ferguson, M. – Segmentation, Revenue Management and Pricing Analytics, Routledge.
5. Makridakis, S., Wheelright, S.C. and Hyndman, R.J. – Forecasting Methods and Application, Wiley.
6. John Hogan, Joseph Zale and Thomas T Nagle: The Strategy and Tactics of Pricing, published 2016 Routledge.

MBPT-OM 503: SALES & OPERATIONS PLANNING

MODULE I:

1. **Introduction:** Definition of sales and operations planning, benefits and best practices, relationship between sales and operations planning, role of top management. [2L]
2. **Operations Planning:** Need for operations planning and control, the Annual Operations Plan, steps, functions of operations planning and control, comparison of operations planning and control in manufacturing and service organizations, operations planning insights from the TOC school of thought. [4L]
3. **Demand Forecasting:** Objectives of forecasting in operations, elements of a good forecast, determinants of demand forecast, steps in the forecasting process, forecasts based on time-series data and associative forecasting techniques – moving average, weighted moving average, exponential smoothing, trend equation, monitoring forecast errors, qualitative forecasting techniques. [8L]
4. **Strategic Capacity Planning:** Defining and measuring capacity, determinants of effective capacity, capacity requirements planning, using forecasting information for capacity planning, challenges of planning service capacity, developing capacity strategies, constraint management and evaluating alternatives [4L]

MODULE II:

5. **Aggregate operations planning:** Concept of aggregation, strategies for meeting uneven demand, aggregate planning as an operational tool, factors affecting aggregate planning, objectives and importance of aggregate planning, techniques and strategies for aggregate planning, aggregate planning in services. [6L]
6. **Operations scheduling:** Purpose of scheduling, Master Production Scheduling (MPS), overview of MRP, MRP inputs, programs and outputs, MRP in services, scheduling methods – forward scheduling, backward scheduling, scheduling activities: routing, loading, dispatching, scheduling by type of operations: job operations, repetitive operations, labor-intensive operations and service operations. [8L]
7. **Enterprise Resource Planning:** Introduction, evolution of ERP, need for ERP, ERP implementation methodology, benefits of an ERP system, factors affecting ERP implementation, role of ERP in operations planning and control, economic impact of the adoption of ERP Systems. [4L]
8. **Case Studies** [4L]

Suggested Readings:

1. Stahl, R.A. & Wallace, T.F., Sales and Operations Planning: The How-To Handbook, SPD.
2. Russell, R.S. & Taylor III, B.W., Operations Management along the Supply Chain, Wiley India Edition.
3. Panneerselvam, R., Production and Operations Management, Prentice Hall India.
4. Stevenson, W.J., Operations Management, McGraw Hill Education (Indian Edition)
5. Leon, A., Enterprise Resource Planning, McGraw Hill Education.

MBPT-OM 504: BEHAVIORAL OPERATIONS MANAGEMENT

MODULE I:

1. **Introduction:** Definition of behavioral operations management, a brief history and the contemporary knowledge base, behavioral assumptions underlying operations models, objectives, aspirations and goals of behavioral operations management, foundational disciplines supporting behavioral operations – cognitive psychology, group psychology and system dynamics, the unified theory – linkage between operational design, individual traits, behavior and actions. [6L]
2. **The virtuous cycles of experimental learning:** Methods in behavioral operations – normative modelling, survey and archival methods, empirical experiments, system simulation, and field case studies, benefits of learning experiments. [4L]
3. **Process and perception:** Behavioral issues on process analysis, challenges with current state of management practice, traditional OM theory and its limitations. [4L]
4. **Envisioning motivation and performance in work design:** Importance of motivation in the workplace, ways to improve motivation, Maslow's need hierarchy theory, Alderfer's ERG theory, Herzberg's two-factor theory, McGregor's participation theory, Vroom's expectancy theory, Porter and Lawler theory of motivation, Hackman and Oldham's job characteristic model, meaning, relevance and significance of VUCA in the workplace. [6L]

MODULE II

5. **Impulsiveness and emotions:** Nature, types and sources of emotions, relationship with perception, attitude and personality, emotional intelligence, managing emotions at workplace, James-Lange and Cannon-Bard theories of emotion – their implications on operations. [4L]
6. **Sharing the risk:** risk sharing contracts – types and benefits, buyback and revenue sharing contracts, effect of behavioral characteristics on contract decisions. [2L]
7. **Incentives and rewards in operations:** Pay for performance, types of incentive schemes, wage incentive plans, pre-requisites of effective incentive schemes, merits and demerits of incentives, reward management, developing reward policies, reward strategy, developing total reward approach. [4L]
8. **Supply chain negotiator:** Negotiation of relationships between supply chain members, negotiation strategies - accommodating, avoiding, collaborating, competing, and compromising, conflict management strategies with supply chain members – avoiding, accommodating, competing, collaborating and compromising strategies, role of prospect theory and equity theory in decision making and role sharing [4L]
9. **A chain of hands:** Importance of value chain, bullwhip effects in the supply chain, power of suppliers and consumers and its effect on the supply chain, social sustainability – labor equity,

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

healthcare, safety and philanthropy. [2L]

10. **Case Studies** [4L]

Suggested Readings:

1. Bendoly, E., van Wezel, W., & Bachrach, D.G. (Eds.), *The Handbook of Behavioral Operations Management*, Oxford University Press.
2. Krajewski, L.J., Malhotra, M.K., Ritzman, L. P., & Srivastava, S.K., *Operations Management: Processes and Supply Chains*, Pearson.
3. Russell, R.S., & Taylor III, B.W., *Operations Management along the Supply Chain*, Wiley India Edition.
4. Robbins, S.P., Judge, T.A., & Vohra, N., *Organizational Behavior*, Pearson.
5. Aswathappa, K., *Human Resource Management, Text & Cases*, McGraw Hill Education.
6. Nagarajan, K., *Textbook of Operations Research*, New Age International

MAKAUT/PT-MBA/5th SEM
(4 Credit: 40 hrs)

MBPT-FM 501: BEHAVIORAL FINANCE

MODULE I:

1. Introduction to the Practical Application of Behavioral Finance: Concept of Behavioral Finance, History, Incorporating Investment Behavior into the Asset Allocation Process. [4L]
2. Investment Decision Cycle: Judgment under Uncertainty [2L]
3. Intro to Neoclassical Economics and Expected Utility Theory-Utility/ Preference Functions: Expected Utility Theory [EUT] [4L]
4. Brief History of Rational Thought: Pascal-Fermat to Friedman-Savage Paradoxes [4L]
5. Prospect Theory :Capital Asset Pricing Model, Misconceptions about Market Efficiency, and Agency Theory Prospect Theory, Framing, and Mental Accounting [4L]
6. Information Screening Biases : Anomalies, Noise Trading, and Limits to Arbitrage [2L]

MODULE II:

7. Information Processing: Bayesian Decision Making, Heuristics and cognitive biases Overconfidence, Emotional Foundations, Implication of Heuristics and Biases for Financial Decision-Making, Implications for Overconfidence for Financial Decision-Making, Individual Investors and the Force of Emotion [6L]
8. Forecasting Biases [2L]
9. Emotion and Neuroscience [4L]
10. Group Behavior: Conformism, Herding, Fatal Attractions [4L]
11. Investing Styles and Behavioral Finance [4L]
12. Case Study [2L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

Suggested Readings:

1. Behavioural Finance Chandra. Prasanna. Mcgraw Hill
2. Behavioural Finance M. M. Sulphrey. PHI
3. Understanding Behavioral Finance Lucy Ackert Cengage Learning India
4. Behavioural Finance ,William Forbes, Wiley
5. Behavioral Finance: Psychology, Decision-Making, and Markets ,Richard Deaves , South-Western College Publishing
6. Behavioural Finance, Shuchita Singh Vikas Publishing House

MAKAUT/PT-MBA/5th SEM
(4 Credit: 40 hrs)

MBPT-FM 502: CORPORATE FINANCE

MODULE I:

1. Introduction to Financial Management: Scope, Objectives, Functions [2L]
2. Capital Structure: Concepts, Component of Capital, Leverage, Models of Capital Structure [6L]
3. Introduction to Corporate Finance: Meaning of Corporation, Role of Financial Manager, Agency Problem. [2L]
4. NPV as Investment Decision Criteria: Comparing NPV with other methods of Investment Decisions, The problems of multiple rates of Return, Mutually Exclusive Projects, Capital Rationing. [4L]
5. The Investment Decision: The Cash Flow, Equivalent annual Costs, Project Interactions [4L]

MODULE II:

6. Capital Budgeting and Risk: Company and Project Costs of Capital, Measuring Cost of Equity, Cost of Capital, and Risk Adjusted Discount Rate, Sensitivity Analysis, Monte Carlo Simulation, Real Options and Decision Trees [4L]
7. Alignment of Managers and Owners Goal: Practical aspects of Capital Investment Process, Information and Capital Investment, Incentives and their role in agency Problem, Measuring and Rewarding Performance: EVA, Pros and Cons of EVA [4L]
8. Market efficiency and Corporate Financing Basics of EMH, The Anomalies, The lessons for the Corporate Manager [4L]
9. The Financing Decision: The Financing Process, The Financing Mix: Tradeoffs and Theory, The Optimal Financing Mix, The Financing Mix and Choices [4L]
10. The Dividend Decision: Dividend Policy, analyzing Cash Returned to Stockholders, Buybacks, Spinoffs, and Divestitures [4L]
11. Case Study [2L]

Suggested Readings:

1. Brearly, Myers, Mohanty: Corporate Finance, Tata McGraw-Hill
2. Copeland Weston Shastri: Financial theory and Corporate Policies, Pearson Education
3. Damodaran: Corporate Finance, Wiley

4. Ehrhardt and Brigham: Corporate Finance- a Focused approach, Thomson Learning
5. Megginson, Smart and Gitman: Principles of Corporate Finance, Thomson Learning
6. Ross, Westerfield and Jaffe: Corporate Finance, Tata McGraw-Hill

MBPT-FM 503: INVESTMENT ANALYSIS & PORTFOLIO MANAGEMENT

MODULE I:

1. **Concepts of Portfolio Management:** Financial Instruments, Overview of Indian Capital Market, Brief ideas on portfolio management, ideas on speculation, hedging, arbitraging. [4L]
2. **Security Analysis:** Concept of Security- Fundamental and Technical Analysis- difference between Fundamental and Technical Analysis - (support and resistance- Charts and graph - line chart - Candlestick Chart - various patterns) - Dow Theory - Elliot Wave Theory. [6L]
3. **Security Valuation:** Valuation of Bond - YTM and its calculation- Duration of Bond - Concept of Immunization- Valuation of Shares. [6L]
4. **Risk and Return:** Definition of Risk and Return- Different types of Risk- measurement of Risk and Return of single security - Beta of Security. [2L]

MODULE II:

5. **Portfolio Theory:** Concept of Portfolio, measurement of Portfolio risk and return, Markowitz Portfolio theory - Efficient Frontier and selection of Optimum Portfolio. [4L]
6. **CAPM Model:** Idea and interpretation - SML and CML. Analysis and interpretation - Usefulness. [4L]
7. **Other Portfolio Theory:** Sharp Single Index Model - Arbitrage pricing theory and Multi Factor Theory. [6L]
8. **Market efficiency and Portfolio Evaluation:** Concept of market efficiency - Different types of market efficiency and their interpretation - Techniques of analyzing portfolio performance - analysis and modification of portfolio. [4L]
9. **Case Studies** [4L]

Suggested readings:

1. Fischer and Jordon, Security Analysis and Portfolio Management, Prentice Hall.
2. Kevis, S, Security Analysis and Portfolio Management, Prentice Hall
3. Copeland, Weston & Shastri, Multinational financial analysis, Pearson
4. Nagarajan & Jayabal, Security analysis and portfolio management, New Age International
5. Avadhani, V.A., Security Analysis and Portfolio Management, Himalaya Publishing
6. Bhalla. B.K. Investment Management, S Chand Publication

MBPT-FM 504: MANAGING BANKS & FINANCIAL INSTITUTIONS

MODULE I:

- 1. Organization and Functions of banking industry:** types of banks, comparative features of different banks, banking business models, factors, necessitating banker's role in the economy, intermediation functions of bank, credit creation. [6L]
- 2. Competition in banking industry:** competition in commercial & investment banks, changes in bank's operation, managing competition among banks. [2L]
- 3. Failures of banks & Need for regulation:** risk associated in banking business, causes of bank failures, warning signals in predicting bank failures. Bank support mechanism, problems to bank, regulatory support, bank's supervision, financial crisis to bank. Regulatory cycle. [6L]
- 4. Basel committee norms:** capital adequacy, 3 pillars, Basel-I & II, measurement of market & operational. [4L]

MODULE II:

- 5. Interest rate & Risk Management:** asset & liability management, GAP analysis, duration analysis. [4L]
- 6. Business loan & Micro credit:** loan proposals, classification of loans based on pricing, methods of sanctioning loans, loan portfolio of banks, fundamentals of micro finance, micro finance credit model, institutions. [4L]
- 7. Credit rating & risk management:** structure of credit risk management, evaluation of credit risk, internal rating system, credit risk distribution. [4L]
- 8. Liquidity functions of banks:** liquidity management & conflict, action plan, time bucket. [2L]
- 9. Bank Merger:** Merger objectives, Stewart's motivating forces, evaluating mergers. [4L]
- 10. Rating of banks:** business risk of banks, ratio used in bank rating, application of bank grading. [2L]
- 11. Case Studies** [2L]

Suggested Readings:

1. M.Y. Khan, Indian Financial System, Tata Mc Graw Hill, Delhi
2. Jeff Madura, Financial Markets And Institutions, CenGage Learning, Delhi
3. H.R. Machiraju, Indian Financial System, Vikas Publishing House, Delhi
4. Pathak, The Indian Financial System, Pearson Education India
5. Suresh Padmalata & Paul Justin, Management of Banking and Financial Services; Pearson
6. Joel Bessis, Risk Management in Banking; Wiley

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

MAKAUT/PT-MBA/5th SEM

(4 Credit: 40 hrs)

MBPT-HR 501: CROSS CULTURAL MANAGEMENT

MODULE I:

1. Introduction - Concept of Culture For A Business Context; Organizational Culture and Its Dimensions; Cultural Background of Business Stake-Holders
[Managers, Employees, Share -Holders, Suppliers, Customers and Others] – An Analytical Framework [10L]
2. Culture and Global Management - Global Business Scenario and Role of Culture; A Frame Work for Analysis; Elements and Processes of Communication Across Cultures; Communication Strategy for/ of An Indian MNC and Foreign MNC and High Performance Winning Teams and Cultures; Culture Implications for Team Building [10L]

MODULE II:

3. Cross Culture – Negotiation and Decision Making - Process of Negotiation and Needed Skills and Knowledge Base – Over view with two illustrations from multi cultural contexts [India – Europe/ India – US settings, for instance]; International and Global Business Operations- Strategy Formulation and Implementation; Aligning Strategy, Structure and Culture in an organizational Context. [8L]
4. Global Human Resources Management - Staffing and Training for Global Operations – Expatriate - Developing a Global Management Cadre.. Motivating and Leading; Developing the values and behaviors necessary to build high-performance organization personnel [individuals and teams included] – Retention strategies. [4L]
5. Corporate Culture - The Nature of Organizational Cultures Diagnosing the As-Is Condition; Designing the Strategy for a Culture Change Building; Successful Implementation of Culture Change Phase; Measurement of ongoing Improvement. [6L]
6. Case Study [2L]

Suggested Readings:

1. Cashby Franklin, Revitalize Your Corporate Culture: PHI, Delhi
2. Deresky Helen, International Management: Managing Across Borders And Cultures, PHI, Delhi
3. Esenn Drlarry, Rchildress John, The Secret of A Winning Culture: PHI, Delhi
4. Deepak Kr. Bhattacharya, Cross Cultural Management, PHI
5. Jessica. L. Whiteman, Richard, L. Griffith, Critical Issues in Cross Cultural Management, Springer
6. Broweays, Understanding Cross Cultural Management; Pearson

MBPT-HR 502: ORGANIZATIONAL DESIGN

MODULE I:

1. Organization Theory - Classical Theories: Scientific Management, Administrative Principles, Theory of Bureaucracy, Human Relations Approach; Modern Theories: Systems Approach, Information processing Approach, Contingency Approach. Managerial Implications. [4L]
2. The Bureaucratic model, dysfunctions of Specialization, Hierarchy, Rules, Impersonal characteristics. Modern view of Bureaucracies, Modifications of Bureaucratic structuring, types of centralization and decentralization, optimum degree of decentralization, Flat and tall structures, Behavioral implications of Flat versus Tall Structure. Managerial Implications. [4L]
3. Organizational Structure and Design - Understanding organizational structure, Elements of Designs of organization's structure: Work Specialization, Departmentalization, Chain of command, Span of control, Centralization and Decentralization, Formalization Understanding Departmentalization by Function, Product, Location, process, customer. Types of structures: Line, Line and Staff, Functional, Project, Matrix structures. Managerial Implications [6L]
4. Case Studies, Presentations, quizzes, experiential exercises, Team exercises, Group Discussions. [6L]

MODULE II:

5. Mechanistic and Organic Models: Determinants of an Organization's Structure - Strategy, the strategy and structure relationship, Organization Size, Technology and Environment, Three Dimensional Model of the Environment. Organizational Designs and Employee Behaviour. Managerial Implications. [4L]
6. Emerging Organizational Designs: Horizontal design, Network design, Virtual Organization, Boundary less Organization, Learning Organisation, Empowered Organizations, e-Organization: implications for Individual Behaviour, Group behaviour, effects on interpersonal relationships. Restructuring Indian Organisations, Regrouping business activities, strategic business units. Managerial Implications. [6L]
7. Forces reshaping Organizations: Organizational Life Cycles, Impact of Culture on organization Structure, Types and forces of organizational change: Globalization, Changes in Information processing technologies, Automation, Demands on organizational processes. Roles and responsibilities in the changed process. Managerial Implications. [6L]
8. Case Studies, Presentations, quizzes, experiential exercises, Team exercises, Group Discussions. [4L]

Suggested Readings:

1. Robbins, S.P. Judge, T.A. and Sanghi, S.: Organizational Behaviour, Pearson
2. Luthans, Fred: Organizational Behaviour, McGraw Hill
3. Newstrom J.W. and Devis K.: Organizational Behaviour, McGraw Hill
4. Aswathappa, K: Organisational Behaviour, Himalaya Publishing House
5. Shukla, Madhukar: Understanding Organizations - Organizational Theory and Practice in India, Prentice Hall
6. Sekharan, Uma: Organisational Behaviour, The Mc Graw -Hill Companies

MBPT-HR503: MANPOWER PLANNING, RECRUITMENT & SELECTION

MODULE I:

- 1. Manpower Planning:** Concept, Benefits, Types of manpower planning, Macro Level Scenario of manpower planning, Factors affecting manpower planning, Process of manpower planning, barriers, requisites for successful manpower planning. [4L]
- 2. Methods and Techniques:** Demand Forecasting : Managerial judgement, Ratio-Trend Analysis, Work Study Techniques, Delphi Technique, Regression Analysis, New Venture analysis, Markov Analysis, Supply Forecasting : Analysis of existing Manpower, Analysis of internal supply; inflows and outflows, turnover rate, productivity level, movement among jobs, Analysis of external supply, Balancing Supply & Demand, Issues of Shortage and Surplus. [8L]
- 3. Job Analysis & Job Evaluation:** Job Analysis - Concepts, Process, Job Description, Job Specification, Uses, Limitations; Job Evaluations - Concepts, Methods, Uses, Limitations [4L]
- 4. Human Resource Information System (HRIS):** Understanding HRIS, its objectives, HRIS Framework, Benefits, Trends. [2L]
- 5. HR Audit, HR Accounting** [2L]

MODULE II:

- 6. Manpower Plan Implementation Strategies:** Recruitment, Redeployment, Downsizing Plan, Retention Plan, Training Plan, Career Plan, Succession Plan, Compensation Plan [4L]
- 7. Strategic Manpower Planning:** Concepts, objectives, SMP Process, Tools, Evaluation, Balanced Score Card, HR Dash Boards, HR score card. [4L]
- 8. Recruitment and Selection:** Concepts, Factors influencing recruitment, reservation rules, resettlement and rehabilitation rules, policy and programmes in Public Sector, Private Sector, MNCs, Government Establishments, Educational Institutions, Health Care & Hospitals, Process of Recruitment, Sources of Recruitment, alternatives to recruitment, The New Techniques: Web, Social Media, Mobile, Recruitment Issues in Core sector, Service sector and IT sector.
- Selection:** Meaning, use of selection for competitive advantage, Selection Process- Tests, types of tests, Group Discussions, Interviews, types of interviews, Common Interview Problems, Assessment Centres, Gamification, Physical fitness tests, Hiring Decisions, Barriers to effective selection, Evaluation of selection process, making selection effective, Outsourcing-gains, problems, issues. [8L]
- 9. Case Studies** [4L]

Suggested Readings:

1. Turner, Paul : HR Forecasting and Planning, Jaico Publishing House
2. Armstrong, Michael: A Handbook of Personnel Management Practice, Kogan Page ,London
3. Dessler,Gary : Human Resource Management, Pearson Education
4. Aswathappa, K : Human Resource Management, Tata McGraw Hill
5. Pattanayek, B : Human Resource Management, PHI
6. Saiyadain, M.S: Human Resource Management : Tata McGraw Hill

MAKAUT/PT-MBA/5th SEM

(4 Credit: 40 hrs)

MBPT-HR 504: EMPLOYEE RELATIONS & LABOUR LAWS

MODULE I:

1. **Employee Relations Management (ERM):** Overview, Tools, Core Issues ,ERM in multi union situations in Core Sector, ERM in Service & IT Sector , Strategic ERM-Strategy and Employment Policies, Future Challenges, Performance Management Services, Involvement and Commitment as Competitive Advantages, The Psychological Contract: Interest and Expectations, HR Infrastructure, Employee Surveys [4L]
2. **Industrial Relations:** Overview, importance, Approaches to IR, Parties to IR, System Model of IR, Industrial Employees of India, Problems of Industrial Workers (absenteeism, commitment, Work Ethics), Contemporary Issues in Employee Relations [4L]
3. **Employee Discipline:** Types, Misconduct, Disciplinary Action, Disciplinary Enquiry and Procedures, Grievance Handling and Redressal. [2L]
4. **Collective Bargaining:** Theories, Prerequisites, Process, Negotiating Skills and Strategies, Agreement – content, Validity, Implementation, Productivity Bargaining, Growth of Collective Bargaining in India. [2L]
5. **Trade Unionism in India :** Introduction, Trade Unions, Reasons for Joining Trade Unions, Types and Functions of Trade Unions, Type of Trade Union Agitations, Trade Unions in India and its Problems, Employers' Organizations in India, Managerial Associations. [2L]
6. **Employee Welfare and Employee Participation:** Concept, Purpose, Statutory and Non-Statutory Provisions, ILO Conventions and its application in India. Meaning of Employee Participation and Empowerment, Advantages, Employee Participation in India- WPM, EPM, Quality Circles- Concept and Practices in India [4L]

MODULE II:

7. **Legal Framework:** Evolution of Labour Laws in India [2L]
8. **Laws relating to Establishment:** Factories Act, 1948; Plantations Labour Act, 1951; Mines Act, 1952; Shops & Establishment Act. [4L]
9. **Laws relating to Wages:** Payment of Wages Act, 1936; Minimum Wages Act, 1948; Payment of Bonus Act, 1965; Equal Remuneration Act, 1976. [2L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

10. **Laws relating to Industrial Relations** : Trade Unions Act, 1926; Industrial Employment (Standing Orders) Act, 1946; Industrial Disputes Act, 1947; [4L]
11. **Laws relating to Social Security** – Employees’ Compensation Act, 1923; Employees’ State Insurance Act, 1948; Employees’ Provident Funds & Misc. Provisions Act, 1952; Maternity Benefit Act, 1961; Contract Labour (Regulations and Abolitions) Act, 1970; Payment of Gratuity Act, 1972, The Protection of. *Human Rights Act, 1993*, The Sexual Harassment of Women at *Workplace* (Prevention, Prohibition and Redressal) Act, 2013 . [6L]
12. **Case Studies** [4L]

Suggested Readings:

1. Agarwal, S.L. : Labour Relations in India, McMillan
2. Pathak, A : Legal Aspects of Business, Tata McGraw Hill
3. Samant, S.R. & Dongle, B.N. (eds). CLR’s Yearly Labour Digest, Dwivedi
4. Srivastava, S.C. : Labour Law in Factories, Mines, Plantations etc., Prentice Hall
5. Labour Laws: Taxman Publications
6. Labour Laws in India : P.L. Malik

MAKAUT/PT-MBA/5th SEM

(4 Credit: 40 hrs)

MBPT-MIS 501: MANAGING SOFTWARE PROJECTS

MODULE I:

1. **IT Project Management:** Overview, Context and need of project management, Project goals, Project life cycle and IT development, ITPM (Information Technology Project Management), Project feasibility, Request for Proposal (RFP), Project selection and approval, Project contracting and approval, PMBOK [4L]
2. **Project Integration Management:** Project management process, Project integration management, the project charter, Project planning framework, the contents of a project plan, The planning process. [2L]
3. **Project Scope Management:** Scope planning Project scope definition and verification, Scope change control, The Work Breakdown Structure (WBS), The linear responsibility chart [2L]
4. **Project Time Management:** Developing the project schedule, Scheduling Charts, Logic diagrams and network (AOA, AON), Calendar scheduling and time based network, Critical path – PERT, CPM, PDM Network, Resource loading, Resource leveling, Goldratt’s critical chain [6L]
5. **Project Cost Management:** Cost estimating, Cost escalation, Cost estimating and system development cycle, Cost estimating process, Elements of budgets and estimates, Project cost accounting and MIS, Budgeting using cost accounts, Cost schedules and forecasts. [4L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

6. **Project Quality Management:** Quality tools and philosophies, Quality systems, The IT project quality plan. [2L]

MODULE II:

7. **Project Human Resource Management:** Organization and project planning, the project team, Multidisciplinary teams, The project environment, Project leadership, Multicultural projects Role of project manager, The change management plan, Dealing with resistance and conflicts [6L]
8. **Project Communication Management:** Monitoring and controlling the project, the project communications plan, Project metric, Project control, designing the control system, the plan-monitor-control cycle, Reporting performance and progress, Information distribution. [4L]
9. **Project Risk and Procurement Management:** Identification, Assessment, Project Procurement Management, Response planning, Outsourcing [4L]
10. **The Project Implementation Plan and Project Closure:** Project implementation, Administrative closure, Project evaluation and project audit [4L]
11. **Case Studies** [2L]

Suggested Readings:

1. Harold Kerzner; Project Management: A Systems Approach to Planning, Scheduling, and Controlling- Wiley India
2. Anna Murray; The Complete Software Project Manager: Mastering Technology from Planning to Launch and Beyond - Wiley India
3. Neal Whitten; Managing software development projects-Wiley
4. Richard E. Fairley; Managing and Leading Software Projects - Wiley
5. Joseph Phillips; IT Project Management - Tata McGraw Hill Edition
6. Frank F. Tsui; Managing Software Projects- Jones and Bartlett Publishers

(MBPT-MIS 502-Data Science using R)

MODULE I:

1. Programming in R: Basics of R, Conditional and loops, R packages/libraries, Data mining GUI in R, Data structures in R, Exceptions/ debugging in R [4L]
2. Data Wrangling: Reading CSV, JSON, XML, .XLSX and HTML files using R, ETL operations in R, Sorting/ merging data in R, Cleaning data, Data management using dplyr in R [4L]
3. Modeling in R: Linear regression model in R, Multiple linear regressions model, Representation of regression results, Non Linear Regression [10L]

MODULE II: 4. Mining Algorithms using R: Association analysis, Market-based analysis/ rules, Apriori algorithm, Segmentation analysis- types of segmentation, k-means clustering, Bayesian clustering, Principal Component Analysis (PCA) [12L]

5. Time Series Forecasting in R and model deployment: Basics of time series, Components of time series, Time series forecasting, Deploying predictive models [8L]

6. Case Study [2L]

Suggested Readings:

1. R for Data Science – Hadley Wickham and Garrett Grolemund
2. R in Action – Robert Kabacoff
3. R for Everyone: Advanced Analytics and Graphics – Jared P. Lander
4. The R Book – Michael J. Crawley
5. R and Data Mining: Examples and Case Studies – Yanchang Zhao
6. Data Analytics using R - Seema Acharya, Mc. Graw Hill Publication

MBPT-MIS 504: MANAGING DIGITAL PLATFORMS

MODULE I:

1. **Business Models for Digital Platforms & New Forms of Value:** Emergence of digital platforms Open Innovation & Crowd Sourcing Business Models, Social and Professional Networking Business Models, User-Generated Content & Long Tail Business Models & Revenue Generation [10L]
2. **Product platforms:** Internal and Supply Chain platforms [4L]
3. **Collaborative Computing Technologies:** Group Support system, technologies [4L]

MODULE II:

4. **Digital Platform Ecosystems & Digital Business Models:** Ecological Approaches to Strategy & Digital Business Ecosystems, Value Capture in digital platform Ecosystem- Two-sided markets, The Internet of Things (IoT): Implications of Smart Connected Products, Scoping your Digital Ecosystem Niche. [8L]
5. **Network Effect:** Direct and Indirect, the limitations of modularity, Managing the degree of openness [6L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

6. The Future of Digital Platforms: Re-Visioning Game Changers for Future [4L]

7. Case Studies [4L]

Suggested Readings:

1. Michael A. Cusumano, Annabelle Gawer, David B. Yoffie, *The Business of Platforms: Strategy in the Age of Digital Competition, Innovation, and Power*, Harper Business
2. Swaminathan T. N., Karthik Kumar, *Digital Marketing: From Fundamentals to Future*, Andrew McAfee and Erik Brynjolfsson, Cengage Learning India
3. Dave Chaffey, Fiona Ellis-Chadwick, *Digital Marketing*, Pearson
4. Abhishek Das, *Applications of Digital Marketing for Success in Business*, BPB Publications
5. Chris Westfall, *The New Elevator Pitch: The Definitive Guide to Persuasive Communication in the Digital Age*, Marie Street Press
6. Feras Alhlou, Shiraz Asif, Eric Fettman *Google Analytics Breakthrough: From Zero to Business Impact*, Wiley

MAKAUT/PT-MBA/5th SEM
(4 Credit: 40 hrs)

MBPT-BA 501: BUSINESS FORECASTING

MODULE I:

1. Historical perspective of Business Forecasting: Concept of Business forecasting, Difference among Econometrics, Mathematics and Statistics, Importance of Econometrics, Linkage of Econometrics with Business Forecasting-Types of Data [6L]
2. Regression Model: Steps, Linear, Non linear. [4L]
3. Univariate time series: Linear model, Stationarity, Autocorrelation, Partial Auto correlation, Multicollinerarity, ARIMA, ARMA process. [10L]

MODULE II:

4. Stationarity and Unit Roots Tests: Introduction, Unit Roots tests, Stationarity tests [4L]
5. Univariate Time Series: Volatility Models-Introduction, The ARCH Model, The GARCH Model [6L]
6. Multivariate Time Series Analysis: Vector Auto regression Model-Co integration [4L]
7. Introduction to E Views: E views Functions, Programming in E views [2L]
8. Introduction to R studios: Programming in R for time series forecasting [2L]
1. Case Study [2L]

Suggested Readings:

1. Damodar N. Gujarati, *Basic Econometrics*, McGraw-Hill Publication, 2003
2. Chris Chatfield, *The Analysis of Time Series: An Introduction*, Chapman and Hall
3. N. H. Chan, *Time Series: Applications to Finance*, John Wiley and Sons,
4. James D. Hamilton, *Time Series Analysis*, Princeton University Press,
5. Terence C. Mills, *The Econometrics of Financial Time Series* Cambridge University Press.
6. Box, Jenkins, Reinsel, Ljung, *Time Series Analysis: Forecasting and Control*; Wiley Publications

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

MAKAUT/PT-MBA/5th SEM

(4 Credit: 40 hrs)

MBPT-BA 502: DATA SCIENCE USING R

MODULE I:

1. Programming in R: Basics of R, Conditional and loops, R packages/libraries, Data mining GUI in R, Data structures in R, Exceptions/ debugging in R [4L]
2. Data Wrangling: Reading CSV, JSON, XML, .XLSX and HTML files using R,ETL operations in R, Sorting/merging data in R, Cleaning data, Data management using dplyr in R [4L]
3. Modeling in R:Linear regression model in R, Multiple linear regressions model, Representation of regression results, Non Linear Regression [10L]

MODULE II:

4. Mining Algorithms using R: Association analysis, Market-based analysis/ rules, Apriori algorithm, Segmentation analysis- types of segmentation, k-means clustering, Bayesian clustering, Principal Component Analysis (PCA) [10L]
5. Time Series Forecasting in R and model deployment: Basics of time series, Components of time series, Time series forecasting, Deploying predictive models [10L]
6. Case Study [2L]

Suggested Readings:

1. R for Data Science – Hadley Wickham and Garrett Grolemund
2. R in Action – Robert Kabacoff
3. R for Everyone: Advanced Analytics and Graphics – Jared P. Lander
4. The R Book – Michael J. Crawley
5. R and Data Mining: Examples and Case Studies – Yanchang Zhao
6. Data Analytics using R - Seema Acharya, Mc Graw Hill Publication

MBPT-BA 503: DATA VISUALIZATION FOR MANAGERS

MODULE I:

1. **Overview of Data Visualization & Web Technologies-** Visualize Data, Scalable Vector Graphics and Cascading Style Sheets, java script, vizhub., Making a Face with D3.js. [6L]
2. **Shapes of Data-**Data and Tasks, Loading and Parsing Data with D3.js [4L]
3. **Marks and Channels-**Encoding Data with Marks and Channels, Rendering Marks and Channels with D3.js and SVG, D3 Scales, Creating a Scatter Plot with D3.js [6L]
4. **Common Visualization Idioms-**Reusable Dynamic Components ,Bar Chart, Vertical & Horizontal, Pie Chart and Coxcomb Plot, Line Chart, Area Chart [4L]

MODULE II:

5. **Visualization of Spatial Data-** Networks, and Trees, Making Maps, Visualizing Trees and Networks, Using Color and Size in Visualization [4L]
6. **Encoding Data-** Encoding using Color, Encoding using Size, Stacked & Grouped Bar Chart, Stacked Area Chart & Stream graph, Line Chart with Multiple Lines. [6L]
7. **Interaction Techniques-**Interaction with Unidirectional Data Flow, UI elements to control a scatter plot, Panning and Zooming on a Globe, tooltips [4L]
8. **Multiple Linked Views-**Small Multiples, Linked Highlighting with Brushing, Linked Navigation: Bird's Eye Map [2L]
9. **Data Reduction-**Histograms, Aggregating Data with Group-By, Hexbin Mapping, Cross filtering [2L]
10. **Case Studies** [2L]

Suggested Readings:

1. Scott Murray: Interactive Data Visualization for the Web - 2nd Edition
2. Elijah Meeks: D3.js in Action - 2nd Edition
3. Jacques Bertin: Semiology of Graphics
4. Leland Wilkinson: The Grammar of Graphics
5. Hadley Wickham: ggplot2 Elegant Graphics for Data Analysis

MBPT-BA 504: BIG DATA TECHNOLOGY

MODULE I:

- 1. Overview of Big Data:** History of big data, elements of big data, career related knowledge in big data, advantages, disadvantages, structured and unstructured data. [6L]
- 2. Using Big Data in Businesses:** Use of Big Data in Marketing, Finance, HR, Production and Supply Chain Management. [8L]
- 3. Technologies for Handling Big Data:** Introduction to Hadoop, functioning of Hadoop, Cloud computing (features, advantages, applications), Application Data store (NOSQL, OLAP). [6L]

MODULE II:

- 4. Understanding Hadoop Ecosystem:** Pig: Introduction to PIG, Execution Modes of Pig, Comparison of Pig with Databases, Grunt, Pig Latin, User Defined Functions, Data Processing operators. Hive: Hive Shell, Hive Services, Hive Meta store, Comparison with Traditional Databases, Hive QL, Tables, Querying Data and User Defined Functions. Hbase: HBasics, Concepts, Clients, Example, Hbase versus RDBMS. Big SQL : Introduction [8L]
- 5. Hadoop Distributed File System:** The Design of HDFS, HDFS Concepts, Command Line Interface, Hadoop file system interfaces, Data flow, Data Ingest with Flume and Scoop and Hadoop archives, Hadoop I/O: Compression, Serialization, Avro and File-Based Data structures. [6L]
- 6. NoSQL Data Management:** NoSQL including document databases, Graph Database, Schema less database, CAP Theorem [4L]
- 7. Case Studies** [2L]

Suggested Readings:

1. Zomaya and Sakr: Handbook of Big Data Technology
2. Sumit Gupta: Real time Big Data Analytics Book.
3. E. Siegel: Predictive Analytics: The Power to Predict Who Will Click, Buy, Lie, or Die
4. A. Maheshwari: Data Analytics Made Accessible
5. J. W. Foreman: Data Smart: Using Data Science to Transform Information into Insight
6. V. Mayer-Schönberger and K. Cukier: Big Data: A Revolution That Will Transform How We Live, Work, and Think

Semester-VI

**MBPT-MM 601: SALES & DISTRIBUTION
MANAGEMENT**

MODULE I:

1. **Introduction to Sales Management:** Evolution of sales department, Nature & scope of personal selling & sales management, Roles and functions of a sales manager [2L]
2. **Personal Selling:** Types of selling situations, Buyer-seller dyad, Theories of selling, Personal selling process (pre-approach, approach, presentation, handling objections, closing a sale, follow-up) [4L]
3. **Planning and Organizing Sales Force Efforts:** Strategic planning and sales organization, Sales department relations, Distribution network relations, Sales forecasting, Sales budget, Sales objectives, Sales territories and quotas, functions of a sales manager, sales force planning [4L]
4. **Sales Force Development:** Sources of recruitment, Selection process, Methods of selection, Need and purpose of training, Types of training, Designing a training programme - ACMEE model [4L]
5. **Directing and Controlling the Sales Force:** Supervision, Territory management, Determination of quota/target, Determination of compensation of sales force, Leading and Motivating, Analysis of sales, Costs and Profitability, Evaluation of sales force performance [6L]

MODULE II:

6. **Marketing Channels:** Structure, Functions and advantages, Types of channel intermediaries - wholesalers, distributors, sales agents, brokers, franchisers, C&F agents, and retailers, Channel Conflicts and remedies [4L]
7. **Channel Design and Management:** Channel objectives & constraints, Identification, evaluation and selection of channel alternatives, Channel management and control - recruiting and selecting channel members, motivating, evaluating channel arrangements [4L]
8. **Physical Distribution & Logistics:** Goals, function, processing, warehousing, inventory & transportation [2L]
9. **Retail and Merchandise Management:** Retail strategies, Location, Types of retail formats, Stores layout, Visual merchandising techniques, Planning of assortment, Servicing and buying of merchandise, Supply chain management in retailing [6L]
10. **Case Studies** [4L]

Suggested Readings:

1. Cundiff, Still & Govoni : Sales Management - Decision, Strategies & Cases; PHI./Pearson Education
2. Levy, M. & Weitz, B.A.- Retailing Management - McGrawHill
3. Panda, Sahadev: Sales & Distribution Management; OUP

Part Time MBA programme

(Effective for Academic Session 2018-2019)

4. Shapiro, R.L., Stanton, W.J. & Rich, G.A.: Management of Sales Force; TMH
5. S.L. Gupta Sales and Distribution Management, Excel Books India, 2009
6. Krishna K Havaldar Vasant M Cavale Sales and Distribution Management: Text and Cases, Tata McGraw-Hill Education,

MAKAUT/PT-MBA/6th SEM
(4 Credit: 40 hrs)

MBPT-MM 602: SERVICE MARKETING

MODULE I:

1. **Service Concept:** Definition, Characteristics of services, Tangibility continuum, Marketing mix for services, Different types of service sectors - traditional and new, Service experience - moments of truth, zone of tolerance. [6L]
2. **Service Strategy Planning:** Understanding the customer and competition, Positioning services, Service triangle concept [2L]
3. **Creating the Service Product:** Creating service product, Customer value hierarchy, Flower of service, Service product mix, Branding service products [4L]
4. **Service Marketing Pricing and Communications:** Approaches to pricing of services, Elements of promotional mix for services [4L]
5. **Designing and Managing Service Demand and Capacity:** Designing service delivery system, Service blue printing, Customer as co-producer, Capacity constraints, Demand patterns, Strategies for matching capacity and demand, Wait lines and reservations [4L]

MODULE II:

6. **Planning the Service Environment:** Physical evidence, Servicescapes - types and role, customer response to environment, guidelines for servicescape strategies [2L]
7. **Managing People:** Critical importance of service employees, Problems and difficulties of boundary-spanning roles, Strategies for delivering service quality through people, Service leadership and culture [4L]
8. **Service Quality:** Service quality, Integrated Gap model - to identify and correct quality problems, Measuring and improving service quality [4L]
9. **Different Services:** Nature and characteristics of financial, hospitality, health-care, educational & professional, logistics, entertainment services and their respective marketing mix analysis [6L]
10. **Case Studies** [4L]

Suggested Readings:

1. Zeithaml, V.A., Bitner, M J, Gremler, D.D. & Pandit, A.: Service Marketing; TMH
2. Rao, K.R.M.: Services Marketing, Pearson Education
3. Rajendra Nargundkar, Services Marketing: Text & Cases, Tata McGraw-Hill Publishing Company, New Delhi, 2008
4. Apte, G.: Service Marketing; OUP
5. Lovelock, C., Wirtz, J. & Chatterjee, J.: Services Marketing; Pearson Education
6. Srinivasan R.: Services Marketing; PHI

MAKAUT/PT-MBA/6th SEM
(4 Credit: 40 hrs)

MBPT-MM 603: PRODUCT & BRAND MANAGEMENT

MODULE I:

1. **Product Concepts:** Product Mix concepts, Product Classification. Product Planning: Marketing Plan, Portfolio Analysis, Market Potential and forecasting [4L]
2. **Product Market Strategies.** New Product Development, Product Life Cycle Stages and corresponding Strategies, Product Evaluation, Product Modification, Line Extension & Brand Extension. [6L]
3. **Managing Brand:** Concept & function of Brand Management, Brand creation, Brand Name, Brand attributes, awareness, loyalty, Personality association, brand extension, co-branding, branding commodities [4L]
4. **Strategic Brand Management Process:** developing brand strategy Positioning concept, positioning statement, positioning process and steps; Brand Identity, Roles of brand, building Brand image, Brand dimensions [6L]

MODULE II:

5. **Planning & Implementing Brand Marketing Programs:** Criteria for Choosing Brand Elements, Options & tactics for Brand Elements, Use of IMC for Brand Building, Leveraging Secondary Brand Associations to Brand building. [6L]
6. **Brand Equity:** Concept of brand equity, Brand equity vs brand value, brand equity benefits, brand review, brand value, creating brand equity and brand value. [4L]
7. **Brand Personality:** Concept, advantages, importance of brand personality, brand personality and user imaging. Brand ambassadors, Brand promise. [2L]
8. **Brand Communication:** Understanding branding objective, brand communication strategy, mapping brand strategy with IMC, Media strategy. [2L]
9. **Global Brands:** Concept of global brand, benefits, advantages of global branding, building on successful global branding global brand strategy. [2L]

10. Case studies

[4L]

Suggested Readings:

1. Lehmann, R. Donald & Winer, Russel S. (2004), Product Management, Pearson Education
2. Donald R. Lehmann and Russell S. Winer, Product Management, Fourth Edition, TMH
3. Keller, Kevin Lane (2007), Strategic Brand Management
4. Niraj Kumar & Paras Tripathi, Brand Management (text & cases), Himalaya Publishing House.
5. M. G. Parameswaran, 2006, Building Brand Value: Five Steps of Building Powerful Brands, New Delhi: Tata McGraw Hill
6. H. V. Verma, 2004, Brand Management, New Delhi: Excel Books

MAKAUT/PT-MBA/6th SEM

(4 Credit: 40 hrs)

MBPT-MM 604: INTERNATIONAL MARKETING

MODULE I:

1. **Introduction:** Definition of international marketing, Domestic vs. international marketing, Benefits of international marketing, Process of internationalization, marketing orientation of a firm. [4L]
2. **Trade Theories:** Basis of international trade, Principles of absolute and relative advantage, Factor endowment theory [2L]
3. **Dynamics of World Market:** Identifying and satisfying global needs, Coordinating activities and recognizing constraints [4L]
4. **Environment of International Marketing:** Economic-cultural – culture and its characteristics, influence of culture on consumption decisions, cultural universals, Politico- Legal – concept of multiplicity of political and legal environment, different political and legal systems. [4L]
5. **International Institutions:** (only the objectives) – WTO, World Bank, IMF, ADB, UNCTAD, EEC, SAPTA, NAFTA etc. [2L]
6. **International Product Policy:** New product policy, International product life cycle, Product line policies, Branding, packaging and labelling [4L]

MODULE II:

7. **International Pricing Strategies:** Factors in pricing, Alternative strategies, Forfeiting, Transfer pricing, Dumping, Counter trade [4L]
8. **Distribution:** Methods of entry into foreign markets, Foreign market channels, Global logistics [4L]
9. **Promotion:** Global promotion mix, Standardized global communication. [2L]
10. **Foreign Exchange:** Concepts of spot rate, forward rate, arbitrage, translation; FEMA

11. **Procedure of Foreign Trade and Documentation:** Process of importing and exporting, Documentation (only the purpose) – certificate of origin, bill of lading, mates receipt, letter of credit, line of credit. [4L]
12. **Case Studies** [2L]

Suggested Readings:

1. Black & Sundaram: International Marketing: PHI
2. Doole, J. & Lowe, R.: International Marketing Strategy; Thomson
3. Johansson, J.K., TMH
4. Joshi: International Marketing: OUP
5. Keegan: Global Marketing Management: Pearson
6. Paul, J, & Kapoor, R, International Marketing, TMH

MAKAUT/PT-MBA/6th SEM
(4 Credit: 40 hrs)

MBPT-OM 601: OPERATIONS RESEARCH APPLICATIONS

MODULE I:

1. **Linear Programming:** Revised simplex method, dual simplex method, introduction to Lingo software. [4L]
2. **Integer Linear Programming:** Gomory's cutting plane method, branch & bound method, vehicle routing problems [6L]
3. **Goal Programming:** Difference between linear programming & goal programming approach, model formulation – single goal with multiple sub goals and equally ranked multiple goals, graphical solution, modified and alternative simplex method [6L]
4. **Dynamic Programming:** Developing Optimal Decision Policy, Dynamic Programming under Certainty and Dynamic Programming Approach for solving Linear Programming Problem. [4L]

MODULE II:

5. **Non Linear Programming Models:** The general non-linear programming model, graphical solution, quadratic programming – Kuhn Tucker conditions, Wolfe's modified simplex method, Beale's method, applications of quadratic programming. [6L]
6. **Staff transfers problem:** Two stage supply chain distribution problem. [2L]
7. **Queuing Theory:** Structure of a queuing system and performance measures, probability distributions in queuing theory, solution of queuing models. [2L]
8. **Markov chains and forecasting:** Steady state equilibrium, study of switching behaviour of customers between brands, absorbing states and accounts receivable applications, application to the study of click stream data. [6L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

9. **Introduction to Data Envelopment Analysis (DEA)** [2L]

10. **Case Studies** [2L]

Suggested Readings:

1. Sharma, J.K., Operations Research: Theory and Application, Macmillan.
2. Taha, Hamdy A., Operations Research: An Introduction, Pearson Education.
3. Kalavathy, S., Operations Research, Vikas Publishing.
4. Hillier, F.S., Lieberman, G.J., Nag, B., & Basu P., Introduction to Operations Research, McGraw Hill Education.
5. Rardin, Ronald L., Optimization in Operations Research, Pearson Education.

MAKAUT/PT-MBA/6th SEM

(4 Credit: 40 hrs)

MBPT-OM 602: SUPPLY-CHAIN ANALYTICS

MODULE I:

1. **Introduction:** Overview of supply chain, analytics and supply chain analytics, supply chain decisions, purchasing and e-commerce in supply chain, types of supply chain. [2L]
2. **Supply chain metrics:** Definition, key metrics – cash to cash cycle time, perfect order measurement, customer order cycle time, fill rate, supply chain cycle time, freight bill accuracy, freight cost per unit, inventory turnover, inventory days of supply, days sales outstanding, on time shipping rate, average payment period, gross margin return on investment. [2L]
3. **Integrated models for facility location selection and capacity allocation:** p-Median location models, fixed charge location-allocation models, gravity models, locating plants and warehouses simultaneously, location and allocation in multiple stages. [6L]
4. **Facilities layout:** Heuristic algorithm. [2L]
5. **Production planning decisions:** Aggregate planning in a supply chain – role of aggregate planning in a supply chain, aggregate planning strategies, role of IT in aggregate planning in a supply chain, aggregate planning in practice. Tools and methods for aggregate planning – graphical approach, tabular method, linear programming, transportation problem, dynamic programming. [8L]

MODULE II:

6. **Production control decisions:** Scheduling – shop loading and sequencing, branch and bound algorithm, heuristics, line balancing, JIT, TOC. [4L]
7. **Resource planning and control:** Deterministic inventory models – EOQ, EBQ, quantity discounts, and multiple items inventory models, buffer/safety stock model, intentional shortages. Probabilistic inventory models (lot sizing for time varying demand), periodic review model. [6L]

Part Time MBA programme

(Effective for Academic Session 2018-2019)

8. **Quality planning and control models:** Overview on application of SQC, SPC, TQM and TPM. [2L]
9. **Designing automated dashboards** with relevant KPIs for production planning and control, resource planning and control, material planning and control, capacity planning and control, quality planning and control and distribution system optimization. [4L]
10. **Numerical examples and case studies** [4L]

Suggested Readings:

1. Chopra,S., Meindl, P., VirKalra, D., Supply Chain Management: Strategy, Planning and Operation, Pearson.
2. Srinivasan, G., Quantitative Models in Operations and Supply Chain Management, PHI.
3. Ravi Ravindran, A., Warshing Jr., D.P., Supply Chain Engineering, Models and Applications, CRC Press, Taylor and Francis Group.
4. Mathirajan, M., Rajendran, C., Sadagopan, S., Ravindran, A., & Balasubramanian, P. (Eds.), Analytics in Operations/Supply Chain Management, I.K International Publishing House Pvt. Ltd.
5. Krajewski, L.J., Malhotra, M.K., Ritzman, L. P., & Srivastava, S.K., Operations Management: Processes and Supply Chains, Pearson.
6. Palekar, A. & Shiralkar, S.W., Supply Chain Analytics with SAP NetWeaver Business Warehouse, Tata McGraw Hill.

MAKAUT/PT-MBA/6th SEM
(4 Credit: 40 hrs)

MBPT-OM 603: MANAGEMENT OF MANUFACTURING SYSTEM

MODULE I:

1. **Manufacturing systems:** Types and process mapping, manufacturing process planning – definition, scope and elements, functions of manufacturing managers, manufacturing concept planning, requirements of good manufacturing and assembly lines, layout planning and analysis. [6L]
2. **Group technology/cellular manufacturing I:** Definition, objectives, cell formation, methods and production flow analysis. [2L]
3. **Group technology/cellular manufacturing II:** Layout design for cellular manufacturing, operator allocation, sequencing and scheduling of cellular manufacturing systems, set-up time reduction to enhance cell performance and flexibility definition, objectives, cell formation, methods and production flow analysis. [6L]
4. **Just In Time (JIT systems):** Overview, principles and benefits, elements of JIT, design and improvement aspects of JIT, role of suppliers in JIT, Kanban systems – definition and principles, types of Kanban – single card and two card Kanban, push and pull concepts of kanban, constant work-in-process (CONWIP) – concept and comparison with Kanban system. [6L]

MODULE II:

5. **Synchronous manufacturing:** Definition, operation planning and control based on Theory of Constraints, measures of performance, constraints in manufacturing system, Drum-Buffer-Rope (DBR) methodology, Flexible Manufacturing Systems (FMS) – meaning, components and types, conceptual model of FMS, applications of FMS. [8L]
6. **Agile manufacturing:** Concept, advantages, similarities and differences with lean manufacturing, agile manufacturing systems. [2L]
7. **Green manufacturing:** Importance, methodology and applications. [2L]
8. **Intelligent manufacturing systems:** Industry 4.0: First to fourth industrial revolutions, objective of Industry 4.0, Cyber Physical Systems (CPS) and Cyber-Physical Production Systems (CPPS), introduction to Artificial Neural Network (ANN). [4L]
9. **Case Studies** [4L]

Suggested Readings:

1. Mahadevan, B., Operations Management – Theory and Practice, Pearson.
2. Chase, R.B., Shankar, R., & Jacobs, F.R., Operations and Supply Chain Management, McGraw Hill Education.
3. Ohno, T. & Mito, S., Just-in-Time for Today and Tomorrow, Productivity Press
4. Cheng, T.C.E., & Podolsky, S., Just-in-Time Manufacturing: An Introduction, Chapman & Hall
5. Irani, S.A. (Editor), Handbook of Cellular Manufacturing Systems, John Wiley & Sons

MAKAUT/PT-MBA/6th SEM
(4 Credit: 40 hrs)

MBPT-OM 604: SOURCING MANAGEMENT

MODULE I:

1. **Introduction:** Importance of sourcing, sourcing objectives, purchasing policy and procedures – policy overview, purchasing procedural areas. [2L]
2. **Strategic sourcing:** Category strategy development, supplier scorecards, supplier relationship management, types of supply management strategies [4L]
3. **Sourcing cost management:** price analysis, cost analysis techniques, Total Cost of Ownership (TCO) model. [2L]
4. **Supplier evaluation and selection:** Need for supplier selection, identification of potential supply sources, supplier evaluation criteria, supplier risk management, capabilities of suppliers, supplier financial analysis and stability, supplier rating. [6L]
5. **Sourcing tools and techniques:** Learning curve analysis, value analysis/value engineering, quantity

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

discount analysis, process mapping. [4L]

6. **Global sourcing:** Overview, objectives and barriers, types of intermediaries and organization for global sourcing, cultural issues, language and communication differences, legal systems, factors driving successful global sourcing programs, future global sourcing trends. [2L]

MODULE II:

7. **Negotiations:** Importance, framework, planning, power in negotiation, negotiation tactics, impact of electronic media on negotiations. [4L]
8. **Contract management:** Overview, elements of a contract, framing a contract, types of contracts - fixed price and cost based contracts, long term contracts, settling contractual disputes - legal alternatives, arbitration and other forms of conflict resolution [4L]
9. **Supply performance measurement and evaluation:** Objectives, categories of purchasing and supply chain measures, developing a performance measurement and evaluation system, performance benchmarking. [6L]
10. **Emerging sourcing trends:** Corporate social responsibility, environment and sustainability, E-sourcing and its benefits, green sourcing. [2L]
11. **Case Studies** [4L]

Suggested Readings:

1. Handfield, R.B., Monczka, R.M., Giunipero, L.C., & Patterson, J.L., Sourcing and Supply Chain Management, Cengage Learning.
2. Baily, P., Farmer, D., Crocker, B., Jessop, D., & Jones, D., Procurement Principles and Management, Pearson Education.
3. Johnson, P. F., & Flynn, A.E., Purchasing and Supply Management, McGraw Hill.
4. Gopalakrishnan, P., Purchasing and Materials Management, McGraw Hill Education.
5. Panneerselvam, R., Production and Operations Management, Prentice Hall India.
6. Sharif, Materials and Purchase Management: Theory and Practice, Narosa Publishing House

MAKAUT/PT-MBA/6th SEM
(4 Credit: 40 hrs)

MBPT-FM 601: MERGERS, ACQUISITIONS & CORPORATE
RESTRUCRING

MODULE I:

1. **Introduction to mergers and acquisitions:** Meaning, types, advantages & disadvantages. [2L]
2. **Strategic evaluation of M & A opportunities:** Selection criteria, key steps in the strategic planning of a merger, feasibility analysis, features of acquisition of sick companies.

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

[4L]

3. **Strategizing and structuring M & A activities:** Merger process from planning to implementation, five stage model, and methods of financial mergers. [4L]
4. **Synergy and value creation in mergers:** Types of synergy, role of industry life cycle, value creation in synergy, factors contributing to M & A. [4L]
5. **Corporate Restructuring:** Meaning & need, different methods of corporate restructuring. [4L]

MODULE II:

6. **Demergers:** Meaning & characteristics, structure of demerger, tax implications. [4L]
7. **LBOs, MBOs, MLPs, ESOPs:** Concepts, mode of purchase in LBO, key motives behind an MBO, classify types of MLP, & ESOP. [4L]
8. **Joint ventures:** Meaning & characteristics, role of joint venture in business strategy, Tax aspect of joint venture, reasons for failure in joint venture. [4L]
9. **Valuation of assets:** basis of valuation, different methods of valuation, valuation of synergy. [6L]
10. **Legal & regulatory framework of M& A:** Provisions of the Companies Act 1956 relating to M & A., buy back of shares, provisions for SEBI act 1992, income tax act for M & A. [2L]
11. **Case Studies** [2L]

Suggested Readings:

1. Kamal Ghosh Roy (2010). Merger & Acquisitions. PHI
2. Rabi Narayan Kar & Minakshi (2017). Mergers Acquisitions & Corporate Restructuring. Taxmann
3. Kapil & Kapil (Mergers and Acquisitions: Valuation Leveraged Buyouts and Financing. Willey
4. Donald M. De Pamphilis ,Mergers, Acquisitions, and Other Restructuring Activities, Academic Press
5. Robert F. Bruner ,Applied Mergers and Acquisitions, University Edition, Wiley
6. Jean Tirole, The Theory of Corporate Finance, , Princeton University Press

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

MAKAUT/PT-MBA/6th SEM

(4 Credit: 40 hrs)

MBPT-FM 602: FINANCIAL DERIVATIVES

MODULE I:

1. **Introduction to Forward Contract:** Forward contracts, Limitations of forward markets, pay-offs, Forward Rate Agreement (FRA) and Forward Foreign Exchange Contract – Cost of Carry Model [6L]
2. **Introduction to Futures:** Introduction to futures, Stock Futures, Index futures, Commodity Futures and Currency Futures - Distinction between futures and forwards contracts. [4L]
3. **Concept of Margin** – Types of Margin in Futures – ITM, ATM, OTM - Concept of Lot size - Open Interest- Hedging through Forward and Futures – Contango and Backwardation – Basis Risk [4L]
4. **Credit Derivatives:** Types of Credit Derivatives- Types of Swap-Credit Default Swaps - Collateralized Debt Obligations(CDO) - The Indian Scenario, credit risk mitigation, Weather and Energy Derivatives [6L]

MODULE II:

5. **Option:** Call and Put Option- American and European Option- Put Call Parity [4L]
6. **Different Option Strategies:** Bully, Bearish, Neutral Non Directional Strategy, Option Strategy – Profit & Loss Chart [4L]
7. **Option Valuation:** Pricing and Valuation of Option Contract- Binomial Option Pricing Model - Black Scholes Model – their interpretations [8L]
8. **Option Greeks:** Theta, Vega, Gamma, Delta [2L]
9. **Case Studies** [2L]

Suggested readings:

1. Options, Futures and other Derivatives, John C. Hull, Pearson Education
2. Derivatives, Dubofsky and Miller, Oxford University Press
3. Financial Derivatives, Gupta, S.L., Prentice Hall.
4. Financial Derivatives and Risk Management, O.P. Agarwal, Himalaya Publishing
5. Derivatives & Risk Management, Rajiv Srivastava, Oxford Publication House
6. Financial Derivatives: Risk Management, Bhalla. V. K., S. Chand & Company

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

MAKAUT/PT-MBA/6th SEM

(4 Credit: 40 hrs)

MBPT-FM 603: INTERNATIONAL FINANCE

MODULE I:

1. **International Financial Management:** Domestic Financial Management & International Financial Management. The Emergence of the MNC, Nature of the MNC [2L]
2. **International Monetary System:** History of International Monetary System, Bretton Wood System, Present Day Currency Regimes, Birth of EMU and EURO, Role of IMF, IBRD, WTO [4L]
3. **Balance of Payments (BOP):** Principles of BOP Accounting, Components of BOP, Significance of 'Deficit' & 'Surplus' in BOP, India's BOP and Economic Performance, Capital Mobility and Capital Account Convertibility. [4L]
4. **Exchange Rate Determination:** International Parity Conditions - Purchasing Power Parity- Interest rate Parity, Fishers International Parity Theory [6L]
5. **International Trade Procedure:** Process of Export and Import- necessary documentation- LC, Bank Guarantee, Letter of Intent etc. [4L]

MODULE II:

6. **The Foreign Exchange Market:** - Functions, Participants and Transactions - Exchange Rates and Quotations - Bid & Ask rate - Cross rate- Indian foreign Exchange Market, Foreign Currency Derivatives - Forward Foreign Exchange Contract , Futures, Forwards, Swaps - Currency Swap and Interest rate Swap , Quality Spread Differential-Concept of Netting [8L]
7. **Foreign Exchange Exposure & Risk Management:** Two dimensions of Foreign Exchange Risk- Transactions Exposure & Translation Exposure, Arbitrage opportunity through Money Market Operation. [6L]
8. **International Financial Markets:** International Banking & Money Market- International banking Services- BASEL Norms, Capital Adequacy Standards-International Money Markets, International Equity Sources - Global Equity Markets-ADR, GDR, [4L]
9. **Case Studies** [2L]

Suggested Readings:

1. Apte, P.G.: International Financial Management, Tata McGraw Hill.
2. Eiteman, Stonehill & Pandey: Multinational Business Finance, Pearson Education
3. Eun & Resnick: International Financial management, Tata McGraw-Hill Jeff Madura: International Corporate Finance, Cenage Learning
4. O' Brien: International Finance, OUP
5. A. V. Rajwade, H. G. Desai, Foreign Exchange - International Finance Risk Management; SPD
6. C. Jeevanandam, Foreign Exchange and Risk management; S. Chand

MBPT-FM 604: FINANCIAL MARKETS AND SERVICES

MODULE I:

1. **Indian Financial System:** Financial system, Financial Assets, Financial Intermediaries, Financial Markets, Classification, Components of Financial Market, Financial Instruments, Multiplicity of Financial Instruments. [4L]
2. **Money Market :** Definition, Money Market and Capital Market and their Features, Objectives, Features of a Developed Money Market, Importance of Money Market, Composition of Money Market, Money Market Instruments, Structure of Indian Money Market, Features of Indian Money Market. [4L]
3. **New Issue Market :** Relationship between New Issues Market and Stock Exchange, Functions of New Issue Market, methods of floating of new Issues, Players in the New Issue Market, general guidelines for new issue, Recent regulations for IPO. [4L]
4. **Secondary Market :** Introduction, Control Over Secondary Market, Registration of Stock Brokers, Registration Procedure, Listing of securities, Method of Trading in a Stock Exchange, settlement procedure, online trading, defects of Indian capital markets, Depository services, Emergence of NSE, Objectives, Features of NSE- Comparative analysis of BSE & NSE functioning. [4L]
5. **Securities and Exchange Board of India:** SEBI - Background, Objectives, Functions, Powers, Organization, SEBI and the Central Government, SEBI Guidelines for Primary Market, Secondary Market. [2L]

MODULE II:

6. **Mutual Funds:** Concept - Types - Nature - NAV& SIP - Trends in Indian Mutual Fund Market - SEBI & Mutual Fund, Sharpe's ratio, Treynor's ratio, alpha ratio, and beta related to mutual fund. Role of AMFI. [4L]
7. **Merchant Banking:** Concept -Types -Functions - Trends in Merchant Banking in India - SEBI & Merchant Banking, features, scope and importance of venture capital, Nitin Desai committee on venture capital, Angel investment. [4L]
8. **Leasing & Hire Purchase Finance:** Definition of Leasing, Types of Lease, The Leasing Process, Definition of Hire Purchase, Rights of Hirer, Rate of Interest, and Evaluation of Leasing & Hire Purchase as method of financing. [4L]
9. **Financial Services:** Discounting, Factoring - meaning, Types, cost and benefits, Factoring v/s discounting; Forfaiting - working of forfaiting, benefits. Securitisation of Debt - Types of securities, structure and benefits of securitization, securitization v/s factoring. [4L]
10. **Credit Rating Agencies:** Concept - Functions - Different Credit Rating Agencies - Popular Symbols -

SEBI & Credit Rating. [4L]

11. Case Studies [2L]

Suggested Readings:

1. Fabozzi: Financial Markets & Institutions, Pearson
2. Guruswamy: Financial services and Markets, Thomson Learning
3. Khan: Indian Financial Systems, Tata McGraw-Hill
4. Gordon Natarajan, Financial Markets and Services, Himalaya Publishing
5. Pathak: Indian Financial System, Pearson
6. L. M. Bhole, Jitendra Mahakund, Financial Institutions & Markets - Structure, Growth & Innovation; Tata McGraw Hill

MAKAUT/PT-MBA/6th SEM
(4 Credit: 40 hrs)

MBPT-HR 601: COMPENSATION AND BENEFITS
MANAGEMENT

MODULE I:

1. **Employment:** Policy and Programmes, Reservation Rules, Employment of Women and Dependents, Employment of Land Oustees - Provisions and Practices under the relevant Act and statutory provisions [6L]
2. **New Employment Practices:** Outsourcing, Contingent Workers, Employee Leasing [4L]
3. **Labour Market:** Concept, Broad Types of Labour Market [2L]
4. **Employment of Contract Labourers:** Provisions and Practices under the relevant Act [4L]

MODULE II:

5. **Concept of Wage and Compensation:** Minimum Wage, Fair Wage, Living Wage, Wage Policy, Wage/Salary, Real Wage, Components of Wages: Basic, Dearness Allowances, House Rent Allowances, City Compensatory Allowance, Other Allowances, Wage Fixation, Pay for different types of employees, Managerial/ Executive Compensation-.Wage Administration - Pay Roll Management, Deductions etc [6L]
6. **Dearness Allowance:** Methods of DA payment, Consumer Price Index, Neutralization [2L]
7. **Productivity and Wages:** Productivity Bargaining, Incentive Payments, Productivity Linked Bonus, Incentives -Individual & Group, Case Studies on Productivity Bargaining, Reward strategy [4L]
8. **Employee Benefits:** Statutory & Voluntary Benefits - Fringe Benefits , Retirement Benefits - Provident Fund, Gratuity, Pension, Medical Insurance; ESOP, fundamentals of Computations of taxable income, overtime, etc Reward Management, team rewards & psychological contract [6L]
9. **Employee Welfare and Working Conditions:** Statutory and voluntary measures. [2L]

10. Case Studies

[4L]

Suggested Readings:

1. Belcher, D.W.: Wage and Salary Administration, Practice Hall
2. Mondy, R.W. & Noe, R.M. : Human Resource Management, Pearson
3. Raynolds, G.L. : Labour Economics & Labour Relations, Practice Hall
4. Sarma : Understanding Wages in India,
5. Govt. of India : Report on National Commission on Labour (1st 1969, 2nd 2002)
6. ILO : Payments by Results

MAKAUT/PT-MBA/6th SEM
(4 Credit: 40 hrs)

MBPT-HR 602: PERFORMANCE MANAGEMENT SYSTEMS

MODULE I:

1. **Performance Management:** Overview, principle, measuring performance versus measuring action, contribution of Performance management to competitive advantage, difference between Performance Management and Performance Appraisal, Performance Management Process, Challenges of PMS, Managing team performance. [6L]
2. **Performance planning:** Role/job description, key result areas, key activities, goal setting, performance agreement. [2L]
3. **Monitoring:** Performance monitoring and feedback, Identifying problems, providing support. [2L]
4. **Developing:** Capability, willingness, work environment, technology, systems, group dynamics, Quality of supervision. [2L]
5. **Performance Appraisal:** Meaning, objective. Appraisal Process, Issues in appraisal design. Appraisal Methods - Traditional methods, Modern Methods: Management By Objectives (MBO), Assessment Centres, 360 degree Feedback. Designing KRA based performance appraisal system, Problems of Rating, Appraisal Interview, Archiving and Use of appraisal data, Legal issues associated with Performance appraisal [8L]

MODULE II:

6. **Potential Appraisal:** Concept, objectives. Potential Appraisal system, requirements of an effective system. Performance Appraisal and Potential Appraisal. [2L]
7. **Reward management:** meaning, importance, objectives. Reward, recognition, financial and non-financial rewards, performance pay, competency-based pay, Reward management process. [4L]
8. **Competency Mapping:** Concept, objectives, benefits, Process of Competency mapping. Identifying competency levels, developing competency maps for different positions. [4L]
9. **Employee Engagement:** Meaning, Nature, Types, Drivers of engagement, Benefits Of engagement, measurement of employee engagement. [2L]
10. **Balance Scorecard:** Balance Scorecard approach to PMS, HR score card, Malcom Baldrige business excellence model. [4L]

11. Case Studies

[4L]

Suggested Readings:

1. Armstrong, Michael: A Handbook of Personnel Management Practice, Kogan Page, London
2. Armstrong, Michael: Armstrong's Handbook of Strategic Human Resource Management, Kogan Page
3. Dessler, Gary : Human Resource Management, Pearson Education
4. Aswathappa, K : Human Resource Management, Tata McGraw Hill
5. Pattanayek, B. : Human Resource Management, PHI
6. Saiyadain, M.S : Human Resource Management : Tata McGraw Hill

MAKAUT/PT-MBA/6th SEM

(4 Credit: 40 hrs)

MBPT-HR 603: STRATEGIC HRM

MODULE I:

1. **Introduction:** Concept of Strategy, types of strategies, Competitive advantage, value chain, Core competencies and distinctive capabilities, the resource-based view, Meaning of Strategic Management, Strategic Management Process. [4L]
2. **Strategic HRM:** Meaning, elements, components, objectives. Conventional HRM versus Strategic HRM, Integrating HR with Strategic Management: drawing inputs from environment, identifying unique strengths, Formulating plans, identifying HR strategies, implementing strategy and evaluation. Different classifications of HR Strategies. Strategic FIT: A Conceptual Framework. The Best Fit approach and its drawbacks. The "HR" Bundles approach, theoretical perspectives of SHRM, Benefits of SHRM. Challenges of SHRM. [8L]
3. **Human Capital Management (HCM) Strategy: Concepts** of Human capital, Objectives of HCM, Role of HCM Strategy, The link between HCM and Business Strategy, Developing a HCM Strategy. [4L]
4. **Strategic HRP:** meaning, definition, objectives, SHRP Process, Tools, Evaluation, HR score card. [2L]

MODULE II:

5. **High Performance Work Systems:** Meaning, definition of High Performance Work Systems, Characteristics of HPWS. Components of HPWS. Developing a high Performance Strategy, Developing high performance work systems. [4L]
6. **Resourcing Strategy:** Understanding Resourcing, The strategic HRM approach to resourcing, Integrating business and resourcing strategies, Bundling resourcing strategies and activities, The components of employee resourcing strategy: Workforce planning, Employee, Value proposition, Resourcing plans, Retention Strategy, Flexibility strategy. [4L]
7. **Talent Management Strategy:** Understanding Talent Management, Strategic talent management, the process of Talent Management, Developing a talent management strategy, Components of a talent management strategy. [2L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

8. **Learning and Development Strategy:** Understanding learning and development, Strategic HRD, Strategies for creating learning culture, Organizational learning strategies, Single and Double Loop learning, Learning organization strategy, Individual Learning Strategies. [4L]
9. **Reward Strategy:** Understanding Reward management, Reward strategy: definition, characteristics, basis, content of reward strategy. Broad- brush reward strategy, Specific reward initiatives. Guiding principles, developing reward strategy, effective reward strategies, criteria for effectiveness, reward strategy and line management capability, the problem with the concept of reward strategy. [4L]
10. **HR Evaluation:** Balance Scorecard, HR score card, Malcom Baldrige business excellence model. [2L]
11. **Case Studies** [2L]

Suggested Readings:

1. Armstrong, Michael: Armstrong's Handbook of Strategic Human Resource Management, Kogan Page
2. L.Holbeche: Aligning Human Resources and Business Strategy,2002,Butterworth Heinemann
3. M.Porter: Competitive Advantage,1985,Free Press
4. G.Hamel & C.K.Prahalad: Competing for the Future,1994,HBR
5. Dessler,Gary : Human Resource Management, Pearson Education
6. Agarwala Tanuja: Strategic Human Resource Management, OUP
7. Aswathappa, K: Human Resource Management, Tata McGraw Hill

MAKAUT/PT-MBA/6th SEM
(4 Credit: 40 hrs)

MBPT-HR 604: INTERNATIONAL HRM

MODULE I:

1. **Defining International HRM:** Difference between Domestic and International HRM, International Staffing- The Role of an Expatriate, The Role of Non Expatriates, The Role of Corporate HR Functions, Defining MNC, International Strategy and Structure in MNC [6L]
2. **Recruitment and Selection of Staff for International Assignments:** Key Concepts and Definitions, Criteria for Recruitment and Selection [6L]
3. **International Management Development:** Introduction, Changing Scope of International Management Development, Role of International Manager- the Development Implications, Issues of Expatriate Training-International Management Development Initiatives [6L]

MODULE II:

4. **International Pay and Reward:** Introduction, Cross National Variation in Reward Structures, Multinational companies and International Reward, International Reward Strategy, Best Practice in International Reward [6L]
5. **International Employee Representation:** Industrial Relations Systems-Introduction, Different Forms, Growing Significance of International Employee Representation, Internal and External Legitimacy- Future Prospects [6L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

6. **International Corporate Social Responsibility and Employment Relations:** Introduction, HRM and Corporate Social Responsibility, Brands, Boycotts and Multinationals, Role of NGOs, Labour Regulation in Global Economy, International Labour Standards [6L]
7. **Case Studies** [4L]

Suggested Readings:

1. Handbook of International Human Resource Management: Integrating People, Process and Context By Paul R. Sparrow
2. Gary Dessler HRM, Latest Edition, Prentice Hall Publication,
3. Arun Monappa and Mirza Saiyadin, Human Resource Management, Tata Mc Graw Hill Publishing Co.
4. Biswajit Pattanayak, Human Resource Management, Prentice - Hall India,
5. Gupta, C. Human Resource Management , New Delhi: Sultan Chand And Sons

MAKAUT/PT-MBA/6th SEM
(4 Credit: 40 hrs)

MBPT-MIS 601: STRATEGIC MANAGEMENT FOR IT

MODULE I:

1. **Introduction to Information Technology:** Fundamentals of Information Technology, Introduction to Computers & Bull [2L]
2. **Data Storage and Database Management System:** Overview of Database Management System, Concept of Relational Database Management Systems (RDBMS) [2L]
3. **Network and Security:** Overview of Network, The Internet Revolution, Internet and Internet technologies, Security and Internet Firewalls [2L]
4. **Internet:** World Wide Web (WWW), Advantages and Disadvantages, Internet Vs Intranet, The purpose and function of Internet Service Provider [4L]
5. **E-Commerce:** E-Commerce Framework, Evolution of E-Commerce - Advantages and Disadvantages, Electronic Payment System, Electronic Cash - Smart Cards and Credits, E-Banking, Online Banking, E-Shopping, E-Marketing, M-Commerce [6L]

MODULE II:

6. **Introduction to Strategies:** Conceptual Evolution of Strategy, Scope and Importance of Strategies, Purpose of Business, Difference between Goals and Objectives of Business, Strategic Intent through Vision and Mission Statements, Core Competencies of Business. [4L]
7. **Strategic Management:** Need, Scope, Key features and importance, Role of Strategists in Decision Making, Strategists at various management levels, Types of Strategies, Limitations. [4L]

8. **Strategy Formulation and Implementation:** Process in Strategy Formulation, Strategy Implementation and its Stages, Reasons for Strategy Failure and Methods to overcome, Strategy Leadership and Strategy Implementation, Strategic Business Units (SBUs) [6L]
9. **Business Policy and Decision Making:** Overview and importance of Business Policies Procedures, Process and Programmes, Types of Policies, Corporate Culture, Factors Considered Before Framing Business Policies, Steps Involved in Framing Business Policies, Policy Cycle and its Stages, Role of Policies in Strategic Management [6L]
10. **Strategic Management for IT:** Application of Strategy Management in IT, Advantages and Disadvantages of IT in Strategy Management [2L]
11. **Case Studies** [2L]

Suggested Readings:

1. Olivier Furrer - Corporate Level Strategy: Theory and Applications- Routledge
2. CA Nikhil Singhal, Deepali Singhal - Information Technology and Strategic Management For CA-IPCE - Mukhaksh Publications
3. Chandan Patni - Information Technology & Strategic Management for CA IPCC -Taxmann
4. Bhandari, Verma - Strategic Management: A Conceptual Framework - McGraw Hill Education
5. Anthony Henry; Understanding Strategic Management - Oxford University Press
6. Mellahi; Global Strategic Management- Oxford University Press

MAKAUT/PT-MBA/6th SEM
(4 Credit: 40 hrs)

MBPT-MIS 602: RELATIONAL DATABASE MANAGEMENT SYSTEM

MODULE I:

1. DBMS: What is a DBMS? Need for using DBMS. Concepts of tables, records, attributes, keys, integrity constraints, 3-schema architecture, data independence. Data models - Hierarchical, Network, Relational [6L]
2. The Relational Model, Language & Systems: The Relational Data Model & Relational Algebra. SQL: DDL, DML, & DCL concepts, SQL commands (ANSI standard). Oracle 8 or above/ MS SQL Server / MS Access [12L]
3. Integrity and Security: Integrity constraints, concept of triggers, stored procedures (theoretical concepts only); Database Security & Authorization (concept of GRANT / REVOKE). [2L]

MODULE II:

4. Database Design: ER modeling [Entity-Relationship Diagrams (ERD), construction of tables], Functional Dependencies & Normalization (up to 3NF; concept of BCNF), De normalization. Case Study on Normalization. [4L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

5. System Implementation Techniques: Query Processing & Optimization (concept only). Transaction Processing Concepts, Concurrency Control and Recovery Techniques (concept only) [6L]
6. Indexing concepts: Ordered indices (primary, secondary, dense, sparse, multilevel), concepts of hashing (static, dynamic) [2L]
7. Advanced Data Models & Emerging Trends : Advanced Data Modeling Concepts, Object- Oriented Databases, Distributed Databases & Client Server Architecture, XML [4L]

Suggested Readings:

1. Elmasri, Navathe: Fundamentals of Database System, Pearson Education.
2. Silberschatz, Korth, Sudarshan: Database System Concepts, McGraw Hill International.
3. Date: An Introduction to Database System, Pearson Education.
4. Hopper, Prescott, Mc Fadden: Modern Database Management, Pearson Education.
5. Molina, Ullman, Widom: Database System, Pearson Education.
6. Schaum's Outline Series: Fundamentals of Relational Databases, Tata McGraw Hill.

MAKAUT/PT-MBA/6th SEM
(4 Credit: 40 hrs)

MBPT-MIS 603: MANAGEMENT OF INFORMATION TECHNOLOGY

MODULE I:

1. Hardware Management: Historical Review, Types of Computer, Computer Peripherals, Input Technologies and Devices - Storage Technologies and Devices - Future Scenario - Managerial considerations in acquisition, maintenance, controlling, replacement of Hardware [6L]
2. Application Software Management - Overview of General Purpose Application Software such as Software Suites, Messaging, Groupware, Conferencing Commercial and Corporate Tools and Overview of Application Specific Software such as Programming languages, ERP, e-Commerce, CRM, Scientific and Engineering Programs. [4L]
3. System Software Management-Overview of Operating Systems, Network Management Programs, Database Management Programs, Servers, System Utilities, Performance and Security Monitors, System Development Programs. Managerial considerations in selection, maintenance, controlling, replacement of Software [2L]
4. Networking Management - Networking trends, Internet Basics, Intranet and Extranet, Overview of Networking Alternatives, Networking Types, Networking Media, Processors, Software, Architecture and Networking Protocols [6L]

MODULE II:

5. Data Management - Database Concepts and Development - Types of Databases, Application Development through DBMS, Database Administration, Data Resource Management, Data warehouse and Data mining - Data Recovery Practices and Technologies. [6L]
6. Security Management-Need, Case Studies -Types of Computer Crime -Cyber Law -Tools of security Management -Security Defenses -System Controls and Audit (b) People Management--I.T. Organization of a large corporation -Selection and Recruitment -Training -Retention -Performance Measurement

Suggested Readings:

1. Laudon, Laudon and Dass: Management Information Systems, Pearson
2. Jawadekar: Management Information Systems, TMGH,
3. Obrien, Marakas and Ramesh Behl: Management Information Systems, TMGH
4. Garroll W. Frenzel Johne. Frenzel, Management of Information Technology, Thomson Course Technology, Boston, 2004.
5. Henry C. Lucas. Jr, Information Technology – Strategic Decision Making for Managers, John Wiley & Sons (Asia) Pvt. Ltd., Singapore, 2005.
6. Efraim Turban, R. Kelly Rainer Jr, Richard E. Potter, Introduction to Information Technology, John Wiley & Sons, (Asia) Pvt. Ltd.

MAKAUT/PT-MBA/6th SEM
(4 Credit: 40 hrs)

MBPT-MIS 604: MANAGING DIGITAL INNOVATION AND TRANSFORMATION

MODULE I:

1. **Introduction:** Domains of Digital Transformation; Customer Networks and the New Path to Purchase; Understanding Digital Customer Behaviours. [6L]
2. **Platform Business Models:** Competition, Disintermediation, and Asymmetric Competitors; Building Data as A Strategic Asset for Your Business. [6L]
3. **Big Data at Work:** New Data, New Tools and Templates of Value; Innovation through Experimentation: AB Test and Minimum Viable; Translating the Lean Start up to Enterprise Scale Innovation. [8L]

MODULE II:

4. **Project methodologies:** Iterate, Reasons, leading the programme, running Iterate project methodologies [10L]
5. **Surviving Disruption:** Surviving Disruption, Incumbent Responses to A Disruptive Challenger; Leadership and the Customer Value Imperative Frameworks. [8L]
6. **Case Studies** [2L]

Suggested Readings:

1. Clayton M. Christensen, Taddy Hall, Karen Dillon, and David S. Duncan; Competing against Luck: The Story of Innovation and Customer Choice
2. Kevin Kelly; The Inevitable: Understanding the 12 Technological Forces That Will Shape Our Future
3. Andrew McAfee and Erik Brynjolfsson; Machine, Platform, Crowd: Harnessing Our Digital Future
4. Jaspreet Bindra, The Tech Whisperer: On Digital Transformation and the Technologies that Enable It, Penguin Portfolio

5. Tony Saldanha - Why Digital Transformations Fail: The Surprising Disciplines of How to Take off and Stay Ahead - Berrett-Koehler Publishers
6. Lindsay Herbert, Digital Transformation, Bloomsbury Business India

MAKAUT/PT-MBA/6th SEM

(4 Credit: 40 hrs)

MBPT-BA 601: STATISTICS FOR BUSINESS ANALYTICS

MODULE I:

1. **Statistical Methods:** Definition and scope of Statistics, concepts of statistical population and sample. Data: quantitative and qualitative, attributes, variables, scales of measurement nominal, ordinal, interval and ratio. Presentation: tabular and graphical, including histogram and ogives, consistency and independence of data with special reference to attributes. [6L]
2. **Probability and consequences:** Classical and axiomatic definitions, Law of total probability, Conditional probability, Bayes' theorem and applications. Discrete and continuous random variable [8L]
3. **Distribution:** functions and their properties. Standard discrete and continuous probability distributions - Bernoulli, Uniform, Binomial, Poisson, Geometric, Rectangular, Exponential, Normal. Random vectors, Joint and marginal distributions, Conditional distributions, Distributions of functions of random variables [6L]

MODULE II:

4. **Measures of Central Tendency:** mathematical and positional. Measures of Dispersion: range, quartile deviation, mean deviation, standard deviation, coefficient of variation, Moments, absolute moments, factorial moments, skewness and kurtosis, Sheppard's corrections. [6L]
5. **Hypothesis testing:** Estimation and sampling techniques [4L]
6. **Sampling distributions:** sample mean, sample variance, t, chi-square and F tests of significance based on them, Small sample tests [8L]
7. **Case Studies** [2L]

Suggested Readings:

1. Goon-Gupta-Dasgupta: Outline of Statistics 1 and 2, The World Press
2. Gupta and Kapoor: Fundamentals of Mathematical Statistics, Sultan Chand & Sons
3. Amir Aczel: Complete Business Statistics
4. Levin R.I. and Rubin D.S: Statistics for Management, Prentice Hall of India Pvt. Ltd., New Delhi.
5. Srivatsava TN, Shailaja Rego: Statistics for Management, Tata McGraw Hill.
6. Anand Sharma, Statistics for Management, Himalaya Publishing House.

MBPT-BA 602 DBMS

MODULE I:

1. DBMS: What is a DBMS? Need for using DBMS. Concepts of tables, records, attributes, keys, integrity constraints, 3-schema architecture, data independence. Data models - Hierarchical, Network, Relational [6L]
2. The Relational Model, Language & Systems: The Relational Data Model & Relational Algebra. SQL: DDL, DML, & DCL concepts, SQL commands (ANSI standard). Oracle 8 or above/ MS SQL Server / MS Access [12L]
3. Integrity and Security: Integrity constraints, concept of triggers, stored procedures (theoretical concepts only); Database Security & Authorization (concept of GRANT / REVOKE). [2L]

MODULE II:

4. Database Design: ER modeling [Entity-Relationship Diagrams (ERD), construction of tables], Functional Dependencies & Normalization (up to 3NF; concept of BCNF), De normalization. Case Study on Normalization. [4L]
5. System Implementation Techniques: Query Processing & Optimization (concept only). Transaction Processing Concepts, Concurrency Control and Recovery Techniques (concept only) [6L]
6. Indexing concepts: Ordered indices (primary , secondary, dense, sparse, multilevel), concepts of hashing (static, dynamic) [2L]
7. Advanced Data Models & Emerging Trends : Advanced Data Modeling Concepts, Object- Oriented Databases, Distributed Databases & Client Server Architecture, XML [4L]

Suggested Readings:

1. Elmasri, Navathe: Fundamentals of Database System, Pearson Education.
2. Silberschatz, Korth, Sudarshan: Database System Concepts, McGraw Hill International.
3. Date: An Introduction to Database System, Pearson Education.
4. Hopper, Prescott, Mc Fadden: Modern Database Management, Pearson Education.
5. Molina, Ullman, Widom: Database System, Pearson Education.
6. Schaum's Outline Series: Fundamentals of Relational Databases, Tata McGraw Hill.

MBPT-BA 603: DATA ANALYTICS USING PYTHON

MODULE I:

- Python Basics:** Python variables, expressions, statements Variables, Keywords, Operators & operands, Expressions, Statements, Order of operations, String operations, Comments, Keyboard input. [4L]
- Conditions & Iterations:** Conditions, Modulus operator, Boolean expression, Logical operators, if, if else, if-elif-else, Nested conditions, Iteration - while, for, break, continue, Nested loop. [4L]
- Functions:** Type conversion function, Math functions, Composition of functions, defining own function, parameters, arguments, Importing functions. [4L]
- Recursion:** Python recursion, Examples of recursive functions, Recursion error, Advantages & disadvantages of recursion.
Strings: Strings Accessing values in string, Updating strings, Slicing strings, String methods - upper(), find(), lower(), capitalize(), count(), join(), len(), isalnum(), isalpha(), isdigit(), islower(), isnumeric(), isspace(), isupper() max(), min(), replace(), split().
List: Introduction, Traversal, operations, Slice, Methods, Delete element, Difference between lists and strings, Example program, Dictionaries - idea of dictionaries
Tuples: idea of lists & tuples, Brief idea of dictionaries & tuples [8L]

MODULE II:

- Object-Oriented Programming with Python:** Concepts, Creating class, Instance objects, Accessing attributes, built in class attributes, destroying objects, Inheritance, Overloading, Overriding, Data hiding [4L]
- Python Exceptions:** Exception handling, except clause, User Defined Exceptions
Regular expression- Match function, Search function, Matching VS Searching, Modifiers, Patterns [4L]
- File Operations in Python:** create, open, read, write, append, close files; Stack and Queue, Stacks and Queues using lists [4L]
- NumPy, SciPy, SymPy:** basic concepts
Pandas: Object creation, Viewing data, Selection, Missing data, Operations, Merge, Grouping, Reshaping, Time series, Categoricals, Plotting, Getting data in/out from CSV, Excel. [6L]
- Case Studies** [2L]

Suggested Readings:

- Python Programming - By Anurag Gupta, G Biswas - Mcgraw Hill Education
- Learn Python The Hard Way, Zed A. Shaw, ADDISON-WESLEY
- Learning Python, Mark Lutz, O'REILY
- Programming In Python, Dr. Pooja Sharma, BPB
- Python Programming - Using Problem Solving Approach, Reema Thareja, OUP

(MBPT BA 604): HUMAN RESOURCE METRICS AND ANALYTICS

MODULE I:

1. Introduction: HR metrics - meaning, importance, what metrics should HR measure? Examples of HR metrics. HR Analytics - What is Analytics? Big data and Analytics, Stages in Data Analytics, Types of Analytics, Causal Modeling, What is HR Analytics? Objectives of HR Analytics. Its importance and benefits. [6L]
2. Realigning HR to business priorities, Stages of HR Analytics and the role of technology. Leveraging HR Analytics for organizational success. Mapping Business Analytics and HR Analytics. IMPACT Cycle. Pillars of HR Analytics success. Linking HR metrics to business outcomes. HR measurement tools and techniques: Identifying HR metrics, sources of data, tools and techniques of measurement. Excel, SPSS, SAP and Other software packages. [8L]
3. Human Capital Management (HCM) - Concepts, Phases-Scanning, Planning, Producing, Predicting. The Model for Predictive Management. Value Chain for HCM Model. Predictive Human Capital measurements. Guiding principles of Human Capital Analytics. [4L]

MODULE II:

4. HR Analytics and the HR delivery model. Requisites of effective HR Analytics. HR analytics modules: HR Planning, Hiring, HR Operations, Learning and Development, Performance Management, Compensation and Rewards, Succession Planning, Employee Engagement. [10L]
5. Human Resource Information System (HRIS): Understanding HRIS, Framework of HRIS. Benefits of HRIS. HRIS Trends: Talent Management Analysis, Data Analytics, Social media, cloud mobile enabled, Employee Engagement Analysis. Integrated HRIS. [6L]
6. Data and Information needs for HR Manager
- Role of IT in HRM - IT for HR Managers - Concept, Structure, and Mechanisms of HRIS, survey of Software Packages for Human Resource Information System including ERP Software such as SAP, Oracle. EHRM-objectives, advantages and disadvantages. [4L]
7. Case Study [2L]

Suggested Readings:

1. Michael Armstrong, A Handbook Of Human Resource Management Practice, Kogan Page
2. Gueutal and Stone, The Brave New World Of e-HR
3. Monk and Wagner, Concepts In Enterprise Resource Planning, Thomson
4. Steve VanWieren, Quantifiably Better: Delivering Human Resource Analytics from start to finish.
5. Bernard Marr, Data-driven HR: How to use Analytics and Metrics to drive performance.
6. Ramesh Soundararajan, Kuldeep Singh, Winning on HR Analytics: Leveraging data for competitive advantage.

MBPT-EM 601 -ENTREPRENEURSHIP

MODULE I:

1. Introduction: Concept and evolution of Entrepreneurship, Innovation and entrepreneurship, Types

of entrepreneurs, Entrepreneurship qualities, Contributions of entrepreneurs to the society, risk-

opportunities perspective and mitigation of risks [4L]

2. Entrepreneurship - An Innovation: Challenges of Innovation, Steps of Innovation Management,

Idea Management System, Divergent v/s Convergent Thinking, Qualities of a prospective Entrepreneur [2L]

3. Idea Incubation: Factors determining competitive advantage, Segmentation, targeting and positioning strategy, Industry and Competitor Analysis (market structure, market size, growth

potential), Demand-supply analysis, Sustaining Competitiveness, Maintaining Competitive Advantage

[6L]

4. Entrepreneurial Motivation: Design Thinking - Driven Innovation, TRIZ (Theory of Inventive

Problem Solving), Achievement motivation theory of entrepreneurship - Theory of McClelland,

Harvesting Strategies [2L]

5. Information: Government incentives for entrepreneurship, Incubation, acceleration. Funding new

ventures - bootstrapping, crowd sourcing, angel investors, Government of India's efforts at promoting entrepreneurship and innovation - Ministry of Micro Small and Medium Enterprises,

DGFT, Entrepreneurship Development Institute of India, Definition of start-ups, Broad outline on the

steps of business start-up [5L]

Module II

6. Enterprise management and modern trend: Essential roles of entrepreneur in managing enterprise, Industrial sickness and causes, Quality assurance and quality management, business

quality standards, ISO, Bureau of Indian Standards, Quality standards in information technology [4L]

7. Project Management in entrepreneurship: Project Life Cycle - Initiation / Conceptualization

Phase, Planning Phase, Implementation / Execution Phase, Closure / Termination Phase [4L]

8. Project Feasibility Studies - Pre-Feasibility and Feasibility Studies, Preparation of Detailed Project

Report, Technical Appraisal, Economic/Commercial/Financial Appraisal including Capital Budgeting

Process, Social Cost Benefit Analysis [6L]

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Part Time MBA programme

(Effective for Academic Session 2018-2019)

9. Applications and Project Reports Preparation [4L]
10. Case studies in entrepreneurship with regard to national and international scenario [3L]

Suggested readings:

1. Innovation and Entrepreneurship by Drucker, P.F.; Harper and Row
2. Building services and entrepreneurship development by M N Patra and S Biswas, Aryan Publishing House, Kolkata
3. Business, Entrepreneurship and Management: Rao, V.S.P. ;Vikas
4. Entrepreneurship: Roy Rajeev; OUP.
5. Text Book of Project Management: Gopalkrishnan, P. and Ramamoorthy, V.E.; McMillan