

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
PUNJABI UNIVERSITY, PATIALA**

SIX YEAR INTEGRATED B.TECH.-M.B.A. PROGRAMME

Applicable to Branches:

- 1. COMPUTER SCIENCE & ENGINEERING*
- 2. ELECTRONICS AND COMMUNICATION ENGINEERING*
- 3. MECHANICAL ENGINEERING*
- 4. CIVIL ENGINEERING*

**Teaching Schemes
(Third to Eight Semester & Summer Semesters)**

(Batch 2017)

Department of Computer Science & Engineering

Punjabi University, Patiala.

General Instructions to the Paper Setters

(Common for B.Tech. in Computer Science & Engineering, Electronics and Communication Engineering, Mechanical Engineering, Civil Engineering and Integrated B.Tech/MBA Branches)

Pattern of Question Paper	
TITLE OF SUBJECT (CODE----)	
Bachelor of Technology (Branch) Section:	
End Semester Exam	
TIME ALLOWED: 3 Hour	Roll. No.....
Maximum Marks: 50	
Pass Marks : 20	
Note:- Section C is compulsory. Attempt any six questions selection three questions from each section A & B.	
Section-A (From Section A of the syllabus)	
Q1.	
Q2.	
Q3.	
Q4.	3x5
Q5.	
Section-B (From Section B of the syllabus)	
Q6.	
Q7.	
Q8.	
Q9.	3x5
Q10.	
Section-C (From whole syllabus)	
Q11	
a).....	
b).....	
c).....	
d).....	
e).....	
f).....	
g).....	
h).....	
i).....	
j).....	10x2=20

Note for the paper setter:

1. Total numbers of questions to be set are Eleven (11) as per the above format.
2. There will be five questions in each of the Sections A and B. Each question will be of five (05) marks. However, a question may be segregated into subparts. Candidates will be required to attempt SIX questions by selecting three Questions from each Sections A & B.
3. Section C is compulsory and contains ten (10) sub-parts each of two (2) marks.
4. The maximum limit on numerical problems to be set in the paper is 35%.
5. The paper setter shall provide detailed marking instructions and solutions to numerical problems for evaluation purpose in the separate white envelopes provided for solutions.
6. The paper setters should seal the internal & external envelope properly with signatures & cello tape at proper place.
7. Log tables, charts, graphs, Design data tables etc. should be specified, whenever needed.
8. Use of Scientific calculator should be clearly specified.

B. TECH SECOND YEAR
COMPUTER SCIENCE & ENGINEERING

(Batch 2017)
Session (2018-19)

SCHEME OF PAPERS

THIRD SEMESTER (COMPUTER SCIENCE & ENGINEERING)

S. No.	Subject Code	Subject Name	L	T	P	Cr.
1.	CPE-201	Digital Circuits & Logic Design	3	1	0	3.5
2.	CPE-202	Object Oriented Programming using C++	3	0	0	3.0
3.	CPE-203	Data Structures	3	0	0	3.0
4.	CPE-204	Computer Networks	3	0	0	3.0
5.	CPE-205	Discrete Mathematical Structures	3	0	0	3.0
6.	HSS-201	Management Practice & Organization Behaviour and Business Intelligence	3	1	0	3.5
7.	CPE-252	Object Oriented Programming using C++ Lab	0	0	2	1.0
8.	CPE-253	Data Structures Lab	0	0	2	1.0
9.	CPE-254	Computer Networks Lab	0	0	2	1.0
10.	**	Punjabi	3	0	0	0.0
Total			21	2	6	22
Total Contact Hours = 29						

CPE-252, CPE-253 and CPE-254 are practical papers only. There will not be any theory examination for these papers.

** In addition to above mentioned subjects, there will be an additional course on Punjabi as a qualifying subject.

**B. TECH SECOND YEAR
COMPUTER SCIENCE & ENGINEERING**

**(Batch 2017)
Session (2018-19)**

SCHEME OF PAPERS

FOURTH SEMESTER (COMPUTER SCIENCE & ENGINEERING)

S.No.	Subject Code	Subject Name	L	T	P	Cr.
1.	CPE-206	Visual Programming using VB.Net	2	0	0	2.0
2.	CPE-207	Software Engineering	3	1	0	3.5
3.	CPE-208	Operating Systems	3	0	0	3.0
4.	CPE-209	Computer Graphics	3	0	0	3.0
5.	CPE-210	Computer System Architecture	3	0	0	3.0
6.		Elective – I*	3	1	0	3.5
7.	CPE-256	Visual Programming using VB.Net Lab	0	0	4	2.0
8.	CPE-258	Operating Systems Lab	0	0	2	1.0
9.	CPE-259	Computer Graphics Lab	0	0	2	1.0
10.	**	Environment and Road Safety Awareness	2	0	0	0.0
Total			19	2	8	22
Total Contact Hours = 29						

ELECTIVE SUBJECTS – I *

S.No.	Subject Code	Subject Name	L	T	P	Cr.
1.	CPE-211	System Programming	3	1	0	3.5
2.	CPE-212	E-Commerce	3	1	0	3.5
3.	CPE-213	Building Enterprise Applications	3	1	0	3.5

***Choose any one from the list. Elective under Massive Open Online Courses (MOOCS) available on SWAYAM platform of Govt. of India offered through online mode. The subjects which students can opt from MOOCS will be notified by the department semester wise time to time**

CPE-256, CPE-258 and CPE-259 are practical papers only. There will not be any theory examination for these papers.

** In addition to above mentioned subjects, there will be an additional course on Environment and Road Safety Awareness as a qualifying subject.

**B. TECH THIRD YEAR
COMPUTER SCIENCE & ENGINEERING**

**(Batch 2017)
Session (2019-20)**

SCHEME OF PAPERS

FIFTH SEMESTER (COMPUTER SCIENCE & ENGINEERING)

S. No.	Subject Code	Subject Name	L	T	P	Cr.
1.	CPE-301	Theory of Computation	3	1	0	3.5
2.	CPE-302	Database Management System	3	0	0	3.0
3.	CPE-303	Algorithm Analysis & Design	3	0	0	3.0
4.	CPE-304	Java Programming	3	0	0	3.0
5.		Elective – II*	3	1	0	3.5
6.	CPE-350	IT Workshop	0	0	4	2.0
7.	CPE-352	Database Management System Lab	0	0	2	1.0
8.	CPE-353	Algorithm Analysis & Design Lab	0	0	2	1.0
9.	CPE-354	Java Programming Lab	0	0	2	1.0
10.	STG-351	Summer Training **	-	-	-	6.0
11.	***	Drug Abuse: Problem, Management And Prevention (Qualifying Course)	2	0	0	0.0
Total			17	2	10	27
Total Contact Hours = 29						

ELECTIVE SUBJECTS – II*

S. No.	Subject Code	Subject Name	L	T	P	Cr.
1.	CPE-305	System Simulation & Modeling	3	1	0	3.5
2.	CPE-306	Multimedia Systems	3	1	0	3.5
3.	MBA-5011	Foundation of Financial Accounting	3	1	0	3.5

***Choose any one from the list. Elective under Massive Open Online Courses (MOOCS) available on SWAYAM platform of Govt. of India offered through online mode. The subjects which students can opt from MOOCS will be notified by the department semester wise time to time**

CPE-350, CPE-352, CPE-353 and CPE-354 are practical papers only. There will not be any theory examination for these papers.

** Summer Training will be of 4 to 6 weeks duration in Industry / In House.

*** In addition to above mentioned subjects, there will be an additional course on 'Drug Abuse: Problem, Management and Prevention' as a qualifying subject

**B. TECH THIRD YEAR
COMPUTER SCIENCE & ENGINEERING**

**(Batch 2017)
Session (2019-20)**

SCHEME OF PAPERS

SIXTH SEMESTER (COMPUTER SCIENCE & ENGINEERING)

S. No.	Subject Code	Subject Name	L	T	P	Cr.
1.	CPE-307	Mobile Apps Development	2	0	0	2.0
2.	CPE-308	RDBMS Using PL/SQL	3	0	0	3.0
3.	CPE-309	Machine Learning using Python	3	0	0	3.0
4.	CPE-310	Compiler Design	3	1	0	3.5
5.	CPE-311	Network Security	3	0	0	3.0
6.		Elective-III *	3	1	0	3.5
7.	CPE-357	Mobile Apps Development Lab	0	0	4	2.0
8.	CPE-358	RDBMS Using PL/SQL Lab	0	0	2	1.0
9.	CPE-359	Machine Learning using Python Lab	0	0	2	1.0
10.		Open Elective**	3	0	0	0.0
Total			17	2	8	22
Total Contact Hours = 27						

ELECTIVE SUBJECTS – III*

S. No.	Subject Code	Subject Name	L	T	P	Cr.
1.	CPE-312	Distributed Computing	3	1	0	3.5
2.	CPE-313	Agile Software Development	3	1	0	3.5
3.	CPE-314	Computer Animation	3	1	0	3.5
4.	MBA-5012	Foundations of Managerial Accounting	3	1	0	3.5

***Choose any one from the list. Elective under Massive Open Online Courses (MOOCS) available on SWAYAM platform of Govt. of India offered through online mode. The subjects which students can opt from MOOCS will be notified by the department semester wise time to time**

OPEN ELECTIVE FOR SIXTH SEMESTER (Offered By Computer Sc. & Engg.)**

S. No.	Subject Code	Subject Name	L	T	P	Cr.
1.		Essentials of Computers (To other departments of the University)	3	0	0	0.0

CPE-357, CPE-358 and CPE-359 are practical papers only. There will not be any theory examination for these papers.

** In addition to above mentioned subjects, there will be an additional 'Open Elective' course as a qualifying subject. The student can opt any one 'Open Elective' subject from the list of Punjabi University approved open elective courses, offered by various University departments, with the consent of ACD/Head/Course Mentor of CSE department.

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(Batch 2017)
(Session 2019-2020)

SUMMER SEMESTER-I (During Summer Vacation after 3rd Year)

SCHEME OF PAPERS (See Annexure-1)

**B. TECH FOURTH YEAR
COMPUTER SCIENCE & ENGINEERING**

**(Batch 2017)
Session (2020-21)
SCHEME OF PAPERS**

SEVENTH SEMESTER (COMPUTER SCIENCE & ENGINEERING)

S. No.	Subject Code	Subject Name	L	T	P	Cr.
1.	CPE-401	Cloud Computing	3	0	0	3.0
2.	CPE-402	Internet of Things	3	1	0	3.5
3.	CPE-403	Data Mining & Warehousing	3	0	0	3.0
4.	CPE-404	Information Security and Cyber Law	3	0	0	3.0
5.		Elective- IV *	3	1	0	3.5
6.	CPE-450	Project Work	0	0	6	3.0
7.	CPE-453	Data Mining & Warehousing Lab	0	0	2	1.0
8.	CPE-454	Information Security and Cyber Law Lab	0	0	2	1.0
Total			15	2	10	21
Total Contact Hours = 27						

ELECTIVE SUBJECTS – IV*

S. No.	Subject Code	Subject Name	L	T	P	Cr.
1.	CPE-405	Neural Computing	3	1	0	3.5
2.	CPE-406	Digital Image Processing	3	1	0	3.5
3.	CPE-407	Embedded System	3	1	0	3.5
4.	CPE-408	Artificial Intelligence	3	1	0	3.5
5.	MBA-5013	Foundation of Finance	3	1	0	3.5
6.	MBA-5033	Foundation of International Business	3	1	0	3.5

***Choose any one from the list. Elective under Massive Open Online Courses (MOOCS) available on SWAYAM platform of Govt. of India offered through online mode. The subjects which students can opt from MOOCS will be notified by the department semester wise time to time**

CPE-450, CPE-453 and CPE-454 are practical papers only. There will not be any theory examination for these papers.

**B. TECH FOURTH YEAR
COMPUTER SCIENCE & ENGINEERING**

**(Batch 2017)
Session (2020-21)**

SCHEME OF PAPERS

EIGHTH SEMESTER (COMPUTER SCIENCE & ENGINEERING)

Code	Title of Paper	Total Credits
PRJ-451	Project Based Industrial Training (One Semester Training in Industry)	20

Breakup of Marks:

Industrial Visit by Faculty Coordinator (150 Marks)

(Within 10—12 weeks of commencement of Training)

Presentation	: 60 Marks
Viva Voce	: 60 Marks
Report (Hard Copy)	: 30 Marks

Evaluation by Faculty Coordinator is consultation with Industrial Coordinator during industrial visit.

Evaluation by a Team of Faculty Members in the Institute (250 Marks)

(Within One Week of completion of Training)

Presentation	: 100 Marks
Viva Voce	: 100 Marks
Report (Hard Copy)	: 50 Marks

The Final Presentation and viva – voce will be conducted jointly by the faculty coordinator, external examiner and nominee of the Head to be appointed by the Head of the Department.

The Letter grade will be awarded to the students according to marks obtained by him/her out of total 400 marks.

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(Batch 2017)
(Session 2020-2021)

SCHEME OF PAPERS (See Annexures 2-3)

SUMMER SEMESTER-II (During Summer Vacation after 4th Year)

**(For Pursuing MBA at Wilkes University or at School of Management Studies, Punjabi University,
Patiala)**

(Annexure-1)**SIX YEAR INTEGRATED B.TECH.-M.B.A. PROGRAMME****Applicable to Branches:**

1. **COMPUTER SCIENCE & ENGINEERING**
2. **ELECTRONICS AND COMMUNICATION ENGINEERING**
3. **MECHANICAL ENGINEERING**
4. **CIVIL ENGINEERING**

(Batch 2017)
(Session 2019-2020)

SCHEME OF PAPERS

SUMMER SEMESTER –I
(During Summer Vacation after 3rd Year)

Sr.No.	Course No.	Title	L	T	P	Credits
1.	MBA 501	Foundations of Business	9	0	0	9
Total Contact Hours: 9						

The aforesaid course will be offered during summer vacations after Third Year of Six Year Integrated B.TECH.-M.B.A. Programme. This course will be over and above the B.Tech. Program.

A separate DMC will be issued to the students for this course indicating the grades obtained by the students in this subject.

However, this course will not be included in calculation of CGPA of B.Tech Degree of Six Year Integrated B.TECH.-M.B.A. Programme.

One non-credit course for transition to American culture, language, rules and practices will be taught either by Wilkes faculty or other arrangement will be done.

The number of courses offered during summer semesters may change as per norms of the university

The evaluation for all summer semesters subjects (to be offered after third year & final year of B. Tech.) will be totally (100%) internal.

(Annexure-2)**SIX YEAR INTEGRATED B.TECH.-M.B.A. PROGRAMME****Applicable to Branches:**

1. **COMPUTER SCIENCE & ENGINEERING**
2. **ELECTRONICS AND COMMUNICATION ENGINEERING**
3. **MECHANICAL ENGINEERING**
4. **CIVIL ENGINEERING**

(Batch 2017)
(Session 2020-2021)

SCHEME OF PAPERS**SUMMER SEMESTER-II (During Summer Vacations after 4th Year)****(For Pursuing MBA at Wilkes University)**

Sr.No.	Course No.	Title	Credits
1.	MBA 512	Business Research Design and Methods ***	3
2.	MBA 536	Advanced Topics in International Business ***	3
3.	MBA 540	Financial Management ***	3

*** The aforesaid courses will be offered during summer vacations after Fourth Year of Six Year Integrated B.TECH.-M.B.A. Programme. These courses will be over and above the B.Tech. Program.

The number of courses offered during summer semesters may change as per norms of the university

A separate DMC will be issued to the students for these courses indicating the grades obtained by the students in these subjects.

However, these courses will not be included in calculation of CGPA of B.Tech Degree of Six Year Integrated B.TECH.-M.B.A. Programme.

Beside the aforesaid three courses, the students will be required to undertake additional courses towards completing the requirements of 2nd year of MBA program at Wilkes University.

The evaluation for all summer semesters subjects (to be offered after third year & final year of B. Tech.) will be totally (100%) internal.

(Annexure-3)**SIX YEAR INTEGRATED B.TECH.-M.B.A. PROGRAMME****Applicable to Branches:**

1. **COMPUTER SCIENCE & ENGINEERING**
2. **ELECTRONICS AND COMMUNICATION ENGINEERING**
3. **MECHANICAL ENGINEERING**
4. **CIVIL ENGINEERING**

(Batch 2017)
(Session 2020-2021)

SCHEME OF PAPERS

SUMMER SEMESTER-II

(During Summer Vacations after 4th Year)

(For Pursuing MBA at School of Management Studies, Punjabi University, Patiala)

SCHEME OF PAPERS

1. The following six courses will be mandatory requirement for those students who are interested to pursue MBA at School of Management Studies, Punjabi University, Patiala under Six Year Integrated B.TECH.-M.B.A. Programme.

- i. MBA 122 Marketing Management
- ii. MBA 128 Operations Management
- iii. MBA 129 Management of Human Resources
- iv. MBA 512 Business Research Design & Methods
- v. MBA 536 Advanced Topics in International Business
- vi. MBA 540 Financial Management

2. The students of 2017 batch onwards (Who want to complete MBA at School of Management Studies, Punjabi University, Patiala) will be pursuing these six Courses after Fourth Year of Six Year Integrated B.TECH.-M.B.A. Programme.

3. The Evaluation Scheme for these courses will be as adopted by School of Management Studies, Punjabi University, Patiala.

4. The number of courses offered during summer semesters may change as per norms of the university

5. The aforesaid courses will be offered during summer vacations after Fourth Year of Six Year Integrated B.TECH.-M.B.A. Programme. These courses will be over and above the B.Tech. Program.

6. A separate DMC will be issued to the students for these courses indicating the Marks / grades obtained by the students in this subject.

7. However these courses will not be included in calculation of CGPA of B.Tech Degree of Six Year Integrated B.TECH.-M.B.A. Programme.

8. The evaluation for all summer semesters subjects (to be offered after third year & final year of B. Tech.) will be totally (100%) internal.

MBA 501 FOUNDATIONS OF BUSINESS

L	T	P	Cr
9	0	0	9

This course provides a foundation of all functional areas of business, including accounting, economics, finance, information systems, international business, management, marketing, law, operations management and statistics.

MBA 512 BUSINESS RESEARCH DESIGN AND METHODS

Research Methodology: Objectives, Role & Scope in Management Research, Process of Research; Research Designs: Exploratory, Descriptive & Experimental Research Designs and their Applications; Sampling Design: Concepts, types and their applicability; Scaling Techniques including Likert, Thurston, Semantic Differential Scaling techniques, etc. Tools & Techniques of Data Collection: Primary & Secondary; Classification & Tabulation of Data.

Introduction to Statistics, Statistics & Business Research, Measures of Central Tendency: Mean, Median and Mode; Measures of Dispersion, Coefficient of Variance; Skewness & Kurtosis: Concept and Measures; Correlation Analysis: Simple, Partial & Multiple (Elementary); Regression Analysis: Concept & Measures, Linear Regression. Elementary Probability Theory: Concepts, Definitions and Problems.

Probability Distributions: Binomial, Poisson and Normal Distributions; Testing of Hypothesis: Concepts like types of hypothesis, significance level, degrees of freedom, Errors in hypothesis testing, Procedure of testing hypothesis etc.; Statistical Tests: Chi-square test, t-test, ANOVA – 1 way and 2 way; SPSS and Report Presentation: Use of Statistical Package for Social Sciences, Report Writing - Mechanics of Report Writing, Preliminary pages, Main body and Appendices including Bibliography, Diagrammatic and Graphical presentation of Data.

Recommended Books:

1. Alan Bryman & Emma Bell, *Business Research Methods*, Oxford University Press, New Delhi, 2nd Edition.
2. Amir D. Aczel & Jayavel Sounderpandian, *Business Statistics*, Tata McGraw-Hill Publishing Co. Ltd., New Delhi, 6th Edition.
3. Donald R. Cooper & Pamela S. Schindler, *Business Research Methods*, Tata McGraw-Hill Publishing Co. Ltd., New Delhi, 9th Edition.

MBA 536 ADVANCED TOPICS IN INTERNATIONAL BUSINESS

International Business: Introduction, Nature, why International Trade, Theories of International Business, International Business Approaches, Competitive advantage of Global Business, Problems of international Business, Modes of Entering international Business. Changing environment of International Business.

Strategy and Structure of International Business: Global strategic planning, Organization of International Business, Production Strategy, International Marketing, International Human Resource Management, Political Risk and Negotiation Strategies.

International Monetary system: International Monetary Fund(IMF), International Liquidity and SDRs, International Bank for Reconstruction and Development(IBRD), International Development Association(IDA), International Finance Corporation(IFC), The Multinational Investment Guarantee Agency(MIGA).

Recommended Books:

1. International Business – environment and operations by John D. Daniels and Lee H. Radebaug,. Pearson Education, 12th edition 2010.
2. International Business by Andrew Harrison, Ertugrul Dalkiran, Ena Elsey, Oxford Publication, Nov. 2000.
3. International Business by Roger Bennett, Pearson Education, 2nd edition 2002.
4. International Business by P. Subba Rao, Himalaya Publisher, 2nd edition, 2008.
5. International Business by Charles W. H. L Hill, Himalaya Publisher, 7th edition ,2008
6. International Business: A strategic Management Approach by Alan M. Rugman, Richard M. Hodgetts, Mc-Graw Hill Publisher, International edition.

MBA 540 FINANCIAL MANAGEMENT

Financial Management: An Overview, Goals and Functions of Finance, Financial System: Assets, Markets, Intermediaries and Regulatory Framework. Capital Market and Money Market, Concepts in Valuation: Time value of money, Present Values, IRR, Bond returns, Return from Stock Market Investments.

Capital Investment Decision making: Principles of Cash Flows, Discounted and Non-Discounted Cash Flow Techniques for appraising capital investments, Risk Analysis in Capital Budgeting. Working Capital Management: An Overview, Determinants, Working Capital Cycle, Management of Cash, Receivables and Inventories. Financing Working Capital needs.

Leverage: Operating Leverage and Financial Leverage. Cost of Capital. Capital Structure and firm's value: Theories, MM Hypothesis, Optimization of Capital Structure, Capital Structure Planning. Dividend Policy and firm's value, Dividend Policy in practice. Corporate Restructuring: Mergers and Acquisitions, motives, considerations and regulations.

Recommended Books:

1. J.J. Hamton, *Financial Decision Making: Concepts, Problems and Cases*, Prentice-Hall of India, New Delhi, 4th Edition.
2. Khan and Jain, *Financial Management*, Tata McGraw-Hill Publishing Co. Ltd., New Delhi, 4th Edition.
3. Stephan A. Ross, Randolph W. Waterfield and Jeffery Jaffe, *Corporate Finance*, Tata McGraw-Hill Publishing Co. Ltd., New Delhi, 7th Edition.

MBA 122 Marketing Management

Course Overview

The objective of this course is to develop the ability in the students to define and analyze the marketing problems through the formulation of marketing objectives, policies, programmes and strategies.

Course Syllabus

Group I:

Nature, Scope and Concepts and Orientations of Marketing, Marketing Tasks, Modern concepts of marketing, Marketing Environment and Environment Scanning, Marketing information systems and marketing research, Strategic Planning in marketing management, Understanding consumer and Industrial markets, Consumer behaviour: Factors influencing consumer buying behavior, Buying process, Market segmentation, Targeting and Positioning

Group II:

Product Decisions: Product Mix, Product life cycle, New product developments. Branding and Packaging Decisions. Pricing Methods and Strategies. Promotion Mix Decisions: Advertising, Sales Promotion, Public Relations, Personal Selling, Direct Marketing. Managing the sales force. Marketing Organization.

Group III:

Channel Management: Types & functions, selection, cooperation, Conflict Management, Vertical Marketing Implementations and Systems, Marketing Logistics, Emerging issues in marketing: Green Marketing, Holistic Marketing, Network Marketing, Event Marketing, Nucleus marketing, Viral marketing.

Recommended Texts

- Kotler Philip & Armstrong, G. Principles of marketing, Prentice-Hall of India New Delhi, 2007
- Kotler Philip, marketing management, Prentice-Hall of India, New Delhi, 2007
- Zikmund, marketing, Thomson learning, Mumbai, 7th Edition.
- Stanton, Etzel, Walker, fundamentals of marketing, Tata McGraw-Hill Publishing Co. Ltd., New Delhi, 10th Edition

MBA 128 Operations Management

Course Overview

The objective of this course is to have an understanding of Operational issues in Manufacturing & Service Sector Organisations that include Designing, Acquiring, Operating, and Maintaining the facilities and processes; purchasing raw materials; Controlling and Maintaining Inventories; and providing the proper labour needed to produce an good or service so that customer's expectations are met. At the conclusion of the course students should be able to: (1) build both quantitative and qualitative analysis skills, especially those needed for managing operating systems; and (2) provide common –sense modeling concepts which can be used to help managers evaluate various management problems.

Course Syllabus

Group I:

Role and scope of operation management, operations Strategy, Operations strategy, operations management as an inter-functional imperative. Types and characteristics of manufacturing systems, product planning and design: Operations and the life cycle, Developing new products. Forecasting demand: forecasting methods, forecast errors. Plant location: factors & Quantitative models, Plant Layout: models & techniques, assembly line balancing.

Group II:

Capacity Planning, Materials requirement planning: procedure, benefits and disadvantages. Scheduling: scheduling jobs on machines, control of schedules, scheduling in services, introduction to statistical quality control: process charts & acceptance sampling, PERT and CPM, application of OR techniques to operations management such as transportation, assignment, sequencing.

Group III:

Inventory management, planning and control: inventory concepts, scope, objectives & functions of inventory control, classification of inventories, inventory costs concepts, selective inventory control systems, inventory control models: Economic Order Quantity (EQQ) with & without shortages, EQQ under fluctuating demand, EQQ with quantity discounts, Economic Production Quantity (EPQ), Fixed Order Cycle (FOC) and Fixed Order Quantity (FQQ) systems.

Recommended Texts

- Elwood S. Buffa, Modern Production/ Operations management, Wiley Series, 8th Edition.
- James R. Evans, David R. Anderson, Dennis J. Sweeney and Thomas A. Williams, applied production and operations management, West publishing company, International Edition, Minnesota.
- John O. McClain and L. Joseph Thomas, Operations Management, Prentice Hall-of- India, New Delhi, 2nd Revised Edition.
- Lee J. Krajewski, Operations Management, Prentice Hall-of- India, New Delhi, 8th Edition.

MBA 129 Management of Human Resources

Course Overview

The Student should be able to critically analyze organizational situations, prescribe courses of action necessary for problem solving and integrate the steps necessary for effective implementation. Upon completion, the student should be able to indicate and explain various human resource management interventions that may be required when dealing with the work environment, people, and problems.

Course Syllabus

Group I:

Concept, scope, functions, importance of personnel management, environment scanning, building up skills for effective HR manager. Global HRM. Organization of personnel department and its relationships with other departments. HR in: information technology firms, mergers and acquisitions. Integrating HR strategy with Business strategy, Personnel Policies Manpower Planning, Analyzing work and designing jobs, Managing Separations and Rightsizing. Methods of Manpower search and selection of Human Resources. Induction, Placement, Socializing, Promotion and Succession.

Group II:

Executive Development and Training Manpower Retention of Talent. Performance Appraisal and Potential Evaluation. Managing Basic Remuneration. Job evaluation. Motivation in action: Empowerment, Quality of work life, Problem Employees. Incentives, Sharing Productivity Gains and Profits, Employee Stock Option Plans.

Group III:

Grievance Handling, Disciplining and Counseling of employees. Concept and present state of industrial relations. A brief idea of Trade Unionism. Industrial Unrest and Remedial Measures.

Recommended Texts

- Garry Desseler, Human Resource Management, prentice-hall of India Pvt. Ltd., New Delhi, 10th edition.
- Edwin B. Flippo, personnel Management, McGraw-Hill Book Company, 6th Edition.

Raymond Noe, Wright, Gerhart & Hollenbeck, Human Resouce Management – Gaining A competitive advantage, Tata McGraw-Hill Publishing Company Ltd., New Delhi, 5th Edition, 2007