MBA (Pharmaceutical Management)

COURSE STRUCTURE

Semester-1

S.No.	Code	Course	Credits
1	MBA 701	Essentials of Management	3-1-0=4
2	BAM 709	Principles of Accounting	4-1-0=3
3	BAM 752	Business Communication and Soft Skills Development	3-1-0=4
4	BAM-755	Business Environment	4-0-0=4
5	BAM-754	Organizational Behaviour	3-0-0=3
6	PH-702	Basic Epidemiology	3-0-0=3
7	BAM 756	Disaster Management	2-0-0=2
8	MBA-702	Personality Development	2-0-0=2
		Total Credits	25

Semester-2

S.No.	Code	Course	Credits
1	BAM-760	Marketing Management	3-1-0=4
2	PHA-632	Pharmacology and Microbiology	3-0-0=3
3	MBPM 703	Pharma Logistics Management	3-0-0=3
4	MBPM 704	Pharmaceutical Marketing & Research	2-0-2=3
5	MBPM 704	Pharmaceutical Marketing Research & Statistics	2-0-2=3
6	MBPM 705	Soft Skills Development-II	0-0-4=2
7	PHA 325	Introduction to Physiology and Human Anatomy	3-0-0=3
8	BAM 856	Management Science	4-0-0=4
9	BAM-823	Product and Brand Management	3-0-0=3
		Total Credits	28

Semester-3

S.No.	Code	Course	Credits
1	BAM 864	Management Information System	4(2-1-2)
2	BAM 859	Entrepreneurship & SBM	4 (4+0+0)
3	MBA 703	Business Analytics	3(3+0+0)
4	MBPM 706	Pharma Sales & CRM	4(4+0+0)
5	MBPM 707	Pharmaco-economics	4(4+0+0)
6	PHM 734	Drug Regulatory Affairs	3(3+0+0)
7	BAM 816	Seminar (Summer Training)	1(0+1+0)
		Total Credits	23

Semester-4

S.No.	Code	Course	Credits
1	BAM-865	Strategic Management	4-0-0=4
2	BAM-808	Intellectual Property Rights	3-0-0=3
3	BAM-809	Total Quality Management	3-0-0=3
4	BAM-799	Labour Law	3-0-0=3
5	BAM-897	Comprehensive Viva-voce	0-1-0=1
6	BAM-899	Project Report	0-0-20-10
		Credits	24
		Total Credits	102

MBA (Pharmaceutical Management)

SYLLABUS

Semester-1

MBA-701

Essentials of Management Credits 4 (4-0-0)

Course Objective:

This course enables students to learn about basic fundamentals of management, theories of management and functions of management. Course is very important for non-management background students to get the basic fundamentals and for management background to refresh the course contents.

UNIT I: Introduction to Management and Organization:

Management functions, Roles and Skills, Universality of management, Management history: Historical background of management, Classical Approach, Quantitative Approach, Behavioral Approach, Contemporary Approach.

UNIT II: Decision making process

Types of decisions, Planning process, Types of plans, Contemporary issues in planning, Criticism of planning.

UNIT III: Designing organizational structure

Departmentalization, Chain of command, Span of control, Centralization and Decentralization, Organizational design.

UNIT IV: Early theories of motivation

Contemporary theories of Motivation, Early theories of Leadership, Contingency theory of leadership, Contemporary views of leadership, Principles of coordination.

UNIT V: Control process

Controlling for organizational performance, Measures for organizational performance.

Suggested Readings:

- 1. Management, Stephen P. Robbins, 10th edition, Pearson Publication
- 2. Organization and management, R.D Agarwal, Tata McGraw Hill publishing
- 3. Management Theory and Practices, P. Subba Roa, Himalaya Publishing House
- 4. Principles and Practice of Management, L.M Prasad,7th edition, Sultan Chand & Sons publication
- 5. Principles of Management: Concepts and Cases, Dr. Rajeesh Viswanathan, Himalaya Publishing House

BAM-709Principles of AccountingCredits 3 (2-1-0)

Course Objective: - Accounting is the major part for any business organization to measure their financial and non-financial transactions. This course useful for students in terms of understand the concept of accounting, its importance, various books of transactions and their preparations.

Unit: I

Meaning & Scope of Accounting, Objectives of Accounting

Concepts of Accounting

Transactions & Types

Book Keeping VS Accounting

Types of Accounts

Golden Rules

Unit: II

Introduction to Journal, Journal

Compound Entry Examples

Intro to Ledger

Ledger Balancing

Subsidiary Books of Accounts

Unit: III Cash Book

Cash Book Practicals

Double Column Cash Book

Unit: IV

Triple Column

Petty Cash Book

Trial Balance

Unit: V

Rectification of Errors

Types of Errors

Depreciation, Depreciation Practical's

Dep- Reducing Balance, Dep- Fixed Instalments

Unit: VI

Intro to BRS, BRS practical

Intro to Final Accounts

Intro to Final Accounts-Theory

Intro to Final Accounts-Practical's

Unit: VII

Trading Accounts

Profit /Loss Account-adjustments

Intro to Balance Sheet

Balance Sheet Practical-Simple

Balance Sheet-Adjustments

Final Accounts

Text Books Recommended

- 1. Modern Accountancy Mukherjee & Hanif
- 2. Advanced Accountancy Jain and Narang
- 3. An Introduction to Accountancy S.N. Maheshwari & S.K. Maheshwari

BAM-752Business Communication Credits 3 (2-1-0)

Course Objective: - Effective communication is the major quality of an effective leader or manager. This course helpful for management students to learn basics of business communication, importance of effective communication, and what are the theories and principles for business communication.

Unit: 1

Concept of communication, objective,

Defining communication

Role of communication, Importance of effective communication

Objective of Communication (Downward, Upward, Horizontal, Vertical, Grapevine)

Unit: 2

External Communication

Essential features of modern business

Process of communication (Encoding, decoding, Transmitter, Two-way communication)

Unit: 3

Barriers to Communication (External Barrier's and Psycho-Sociological Barriers)

Defects in the Channel, Noise

Self-centred Attitudes

Group identification

Self-image

Status Block

Closed Mind

Poor Communication Skills

State of Health, Overcoming barriers Written Communication

Unit: 4

Notice, Agenda

Minutes, (essential part of a minutes which should never omitted) Memorandum

Tender, (Details required while inviting a tender)

Tender, (Details required while inviting a tender)

Oral Communication

Dyadic Communication, Meeting, Seminars

Conference, Group discussion, Audio-Video Aids

Unit: 5

Non-Verbal Communication

Personal Appearances,

Posture, Gesture, Facial Expressions- Discussion.

Text Book Recommended:

- 1. Business Communication Lesikar & Pettit
- 2. Business Communication Guffey

MBA-755Business Environment

Credits 4(4-0-0)

Course Objective: - There are several factors which affecting the business and business operations. These factors are coming under the broader area of business environment. This course enables students to learn about business policies, ethical codes, macro factors and micro factors.

Unit I: -Concept of Business Environment

Unit II: -Basic philosophies of Socialism, Capitalism and Mixed Economy

Unit III: -Socio-cultural environment: Business and its relationship with society and culture

Unit IV: -Political environment: Functions of State, Economic role of Government

Unit V: -Major Government Policies – Fiscal Policy, Monetary Policy, Policy related to Pharma Industry and industrial Policy

Unit VI: -Business Ethics

Unit VII: -Consumer Rights, Consumerism and Business

Unit VIII: - Globalisation: Meaning, Dimensions and Impact on Indian Economy

Text Books Recommended:

- 1. Business Environment Francis Cherunillam
- 2. Business Environemnt Raj Agatwal & Parag Diwan

BAM-754 Organizational Behaviour

Credit-3(3-0-0)

Course Objective

- 1. To identify the specific steps managers can take to motivate employees
- 2. To apply the different concepts of organizational behaviour at work place

Unit I: Managing Organizational Behaviour:

- Definition, Key elements of OB, Need for studying OB, Contributing Discipline.
- Organization behaviour process.
- Organization, Management and organizational Behaviour.
- Theories of Management leading to organization Behaviour.
- Models of Organization behaviour.

Unit II: Perception:

- Introduction: What is perception?, Why should Managers Study perception? How perceptions differ from Sensation?
- Factors affecting perception, How to improve perception?
- Perception and its application in OB
- Perception Process, Errors of perception.

Unit III Learning:

- Meaning and Definition, Importance of learning, barriers of learning
- Determinants of learning, Approaches of learning
- Theories of learning, How do people differ in how they learn?
- Contingencies of Reinforcement

Unit IV: Motivation:

- Meaning of Motivation, Nature of Motivation, Motivation process
- Theories of Motivation: Need hierarchy Model by Abraham Maslow, Dual factor theory by Frederick Herzberg
- Alderfer's ERG Model of motivation
- Application of Motivation: Motivation By goal setting, why goal setting is important, basic feature of goal setting process.
- Limitation to goal setting.

Unit V: Leadership:

- Introduction: What is leadership? Difference between Leader and Manager
- Trait Perspective of leadership: Leadership traits and its effectiveness, Leadership style,
- Behavioral Perspective of leadership: Ohio State university, Managerial Grid
- Leadership Theories.
- What make leadership effective? Transformational Versus Transactional leadership.

Unit VI Team and Group:

- Definition and characteristics of group, why do people form and join groups
- Theories of group formation
- Stages of group development
- Group Behaviour: Group Norms, Group cohesion, Group Role, Inter group Conflicts.

Suggested Reading

- 1. Kavita Singh.Organisational Behaviour text and cases
- 2. Organisational Behaviour Text and Cases Dr. S.S.Khanka
- 3. Understanding organization Behaviour Udai Pareek

Code- PH-702 Basic Epidemiology

Credits 3(3-0-0)

Course Objective: - Measurement of health related data, their analysis and re-presentation is major contents of this course. Course is useful to understand basic tools used for estimation health related data.

Unit I: - Epidemiology: Definition, Components, Aims of Epidemiology, Terminology used, tool for Measurement.

Unit II: -Rate, Ratio and Proportion

Unit III: -Numerators and Denominators used in Epidemiology

Unit IV: -Basic Measurement in Epidemiology, Morbidity and Mortality measurements, Mortality rates, Morbidity rates, Relation between Incidents and Prevalence

Unit V: -Epidemiological study designs, types of studies:

- Descriptive study
- Ecological Study
- Cross Sectional Study
- Case Control

- Cohort

Unit VI: -Experimental Study- Drug Trials and Community Trails

Books Recommended:

1. Basic Epidemiology by- R. Bonita, R. Beaglehole, Tord Kjellström, World Health Organization.

BAM-756Disaster Management Credits: 2(2-0-0)

Course Objective: Disasters at work place and surroundings is common. This course enable students to understand how we can manage a disaster whether it is natural or man-made effectively.

Unit-1 Introduction

Concept of Disaster Management, Definitions of Disaster and Disaster Management, Principles of Disaster Management, Objectives of Disaster Management, Importance of the study of disaster management, Scope of Disaster Management, Disaster Cycle, Objectives of Disaster management.

Unit-IIFactors Responsible for Disasters

Environmental Factors: - Climate Change, Pollution (Air, Water, Soil), Geographical Factors: - Geographical Distributions of Areas (Hill Areas, Sea coastal Areas, Desert habitats), Industrial Factors: - Working Methods, Organizational Rules and Regulations and their acceptance.

Unit-IIITypes of disasters: - **Natural** (Detail Concept): - Geographical Disasters- : Land-slides, Earthquake, Mud-Flow, Air Cyclone and Rock-slides, Water Related Disasters: - Flood, Heavy Raining, Cloud Bursting, Acid Rain, and Drought. Biological Disasters- : Pest Attacks, Viral Infections, Bacterial Infections.

Man Made (Detail Concept): - Industrial Disasters, Chemical Disasters, Nuclear Disasters, Transportation related disasters (Road, Air and water ways).

Unit-IVCauses of disasters: - Man-made Causes and Natural Causes. Effects of the Disasters: - Economical Effects, Social Effects, Geographical Effects, Demographical Effects. Disaster related Awareness: - Medium for awareness, Responsible Authorities, Factors Affecting. Communication role of media, Disasters related Preventions, Preparedness, Vulnerable areas, damaged assessment.

Unit -VRehabilitation and Reconstruction: -Assessment of Damage, Allocation of resources, resource implementation, Role of government and other non-governmental organizations.

Unit-VIContingency Plan, Case studies

Recommended Books: -

- 1. Disaster Management: B. Narayan
- 2. Disaster Management: Ram Kumar and S. L. Goel

MBA-702 Personality Development Credit: 2 (2+1+0)

Course Objective: This course enables students to understand the basics of personality, how we can develop a smart personality which is important for a good manager.

UNIT I Personality

- Concept: Determinants
- Recognizing the social Value of Personality
- What is Personality
- Personality verses Character
- Personality verses Individuality
- How Personality Consciousness shows itself Personality

UNIT II Leadership

- Introduction to leadership
- Leadership Power
- Leadership Styles
- Leadership in Administration

UNIT III Interpersonal Relations

- Introduction to Interpersonal Relations
- Analysis Relations of different ego states
- Analysis of Transactions
- Analysis of Strokes
- Analysis of life positions

UNIT IV Communication

- Introduction to Communication
- Flow of Communication
- Listening
- Barriers of Communication
- How to overcome Barriers of Communication

UNIT V Stress

- Introduction to Stress
- Causes of Stress
- Impact Management for Stress
- Managing stress

UNIT VI Group Dynamics

- Importance Groups in organizations
- Team interactions in Group
- Group Building Decision Taking
- Team Building
- Interaction with the team
- How to build a good team

UNIT VII Conflict

- Introduction to Conflict
 - Causes of Conflict
- Managing Conflict

UNIT-VIII Performance

- Introduction to Performance Appraisal
- Vertical Appraisal
- Horizontal Appraisal
- 360° Performance Appraisal
- Methods or Techniques of improving Performance Appraisal

UNIT -IX **TIME**

- Time as a resource
- Identify important Time Management
- Individual Time Management Styles
- Techniques for better Time Management

UNIT -X **Motivation**

- Introduction to Motivation
- Relevance and Types of Motivation
- Motivating the Subordinates
- Analysis of Motivation

Semester II

BAM 760 Marketing Management Credits: 4(4+0+0)

Course Objective:

The objective of the course is to develop the students' conceptual understanding and analytical abilities in the area of Marketing Management. It aims to hone students' knowledge and understanding of Marketing theories and concepts and their applications in different industries.

Unit I. Introduction to Marketing and Market Segmentation

Reading: Levitt, Theodore (1960) 'Marketing Myopia', Harvard Business Review

UNIT II Positioning the Offering-I

Reading: Aaker, David A. and Shansby, J. Gary (1982), Positioning your Product, Business Horizons, May/June, 25(3), 56-62

Positioning the Offering-II

Reading: Aaker, David A. and Shansby, J. Gary (1982), Positioning your Product, Business Horizons, May/June, 25(3), 56-62

Unit III Pricing and Product Strategy

Reading: Pine, B. Joseph and Gilmore, James H. (1998), 'Welcome to the Experience Economy', Harvard Business Review, July-August, 97-105

Unit IV Understanding the Consumer Behaviour

Reading: Levitt, Tedd(1965), 'Exploit the Product Life Cycle" Harvard Business Review

Unit V Marketing Communications and Promotion

Reading:Chapter-3; Selecting the Appropriate Promotional tools, (From Schultz, Robinson, and Petrison)

Unit VI Sales and Distribution Management

Reading: 1. Prahlad, CK and Hart, Stuart L(2002). 'The Fortune at the Bottom of Pyramid', strategy+Business, 26, 1-14

2. Jaiswal, anand K.(2008). 'The fortune at the Bottom or the Middle of the Pyramid?', Innovations, 3 (1), 85-100

Unit VII Developing Marketing Strategy

Reading: Cavin Kare Private Limited(A): Challenges of Sustaining Growth and Expanding

Business

Unit VIII Marketing Research for Understanding Consumers and Markets

Reading: Philip Kotler, "Marketing Research" chapter

Unit IX Contemporary and Emerging Issues in Marketing

Text Books:

- 1. Marketing Management (Pearson) by Philip Kotler, Kevin Keller, Koshy and Jha (ISBN 978-81-317-6716-0)
- 2. Marketing Management by Rajan Saxena
- 3. Cases from Ivy, Harvard Business Review

PHA 632 Pharmacology & MicrobiologyCredits 3 (2-1-0)

Course Objective: - It is helpful for pharmaco-managers to understand the basics of drugs. This course includes drugs, their forms, their effects, their mechanism and manufacturing.

Unit I: - Pharmacology

- Introduction to Dosage Form: Types of Dosage Form Liquid dosage form, Solid dosage form, Semisolid dosage form, Pharmaceutical inserts, steriledosage forms, Advanced dosage forms & delivery systems.
- Pharmaco-kinetics & Pharmaco-dynamics of Drug action : Drugs in medicine, targets of drug action, absorption, distribution, metabolism and elimination(ADME) of drugs, Classification of Receptors
- Drugs acting upon various systems: Autonomic nervous system; Central nervousSystem; Cardiovascular system; Autocoids; Respiratory System; Gastrointestinalsystem; chemotherapy.

Unit II: - Microbiology

- Introduction to microbiology & Scope of Microbiology
- Morphology and physiology of bacteria, fungi & viruses, Nutrition & cultivation of bacteria, fungi & viruses
- Principles of microbial pathogenicity and epidemiology.
- Microorganisms in the production of pharmaceuticals & industrial chemicals
- Ecology of microorganisms & its effects in the pharmaceutical industry, Microbial spoilage & preservation of pharmaceutical products.
- Sterilization control and sterility assurance, Microbiological assay and tests
- Factory and hospital hygiene

Text Books Recommended:

- 1. Medical Pharmacology by K. D. Tripathi
- 2. Basics of Microbiology and Biotechnology by B. D. Singh

MBAPM 703Pharma Logistics ManagementCredits 3(3-0-0)

Course objective: Medicine is the case of sensitivity, so carrying and forwarding of medicines is also different from general products. This course enables students to understand the basic fundamentals of drugs, their storage and transportation.

Unit I: - Importance of Logistics & Purchase / Supply in Pharma Management Objectives & Policies.

Unit II: - Electronic Data Interchange; Bar Coding.

Unit III: - Purchase Description; Specification; Standardization.

Unit IV: - Outsourcing – Make or Buy Decision; Global Servicing

Unit V: - Pricing & Cost Analysis.

Unit VI: - Inventory Management

Unit VII: - Purchasing Transportation Services

Unit VIII: - Warehousing Decisions

Unit IX: - Legal Aspects of Purchasing.

Text Books Recommended:

1. Purchasing & Supply Management – Pearson Publications

MBAPM-704 Pharmaceutical MarketingCredits 3(2-1-0)

Course Objective: There is a huge difference between the general marketing and pharmaceutical marketing. This course enables students to learn about the channel of pharmaceutical marketing, effects of promotional strategies, and physician's prescriptions.

Unit I: - Introduction to Pharmaceutical Marketing: Identification of pharmaceuticalmarket; market behaviour; physician prescribing habits; patient motivation; market analysis.

Unit II: - The Pharmaceutical Products: Drug Development and the Marketing ResearchInterface; Diversification and Specialisation; Marketing Generic Drugs; Non-prescription drugs.

Unit III: - Distribution Channels: Manufacturer; Wholesaler; Retailer; Hospital and Government Agencies.

Unit IV: -Competitive Practices: Economic and Competitive Aspects of the PharmaceuticalIndustry; Advertising; Detailing and other forms of Promotion; RetailCompetition – The Community Level; International Marketing.

Unit V: - Controls: Internal & External Controls

Text Books Recommended

1. Principles of Pharmaceutical Marketing – Mickey C. Smith

MBAPM-704Pharma Marketing Research & StatisticsCredits 4(2-0-2)

Course Structure:

Unit I: -Introduction to Marketing Research Management: Value of Information; Meaning & Objectives of Research; Research Approaches; Types of Research; Research Process; Problems encountered by Researchers India.

Unit II: -Research Problem: Defining & selecting the Problem; Technique involved in defining the Research problem.

Unit III: -Research Design: Meaning; Need & features of a Research Design; some important Concepts related to Research Design; Types of Research Design.

Unit IV: -Sampling Design: Census & Sample Survey; Steps in Sampling; Characteristics of a good Sample Design; Types of Sample Design; Random Sampling.

Unit V: -Measurement & Scaling Techniques, Methods of Data collection, Processing & Analysis of Data, Testing of Hypothesis; Chi-square Test; Variance & Co-variance.

Unit VII: -Sales Analysis & Forecasting; New Product Development & Test Marketing

Unit VIII: - Advertising Research, Interpretation & Report Writing

Text Books Recommended

- 1. Research Methodology C.R.Kothari
- 2. Marketing Research Tull

MBAPM-705Soft Skills Development

Credits 3(2-0-2)

- **I.** Curriculum vitae
- **II.** Spoken English
- **III.** Role plays
- IV. Techniques of discussions at different meetings, seminars, workshops & conferences
- **V.** Interview Skills
- **VI.** Personality Development
- VII. Public speaking
- VIII. Motivational skills

PHA-325 Introduction to Human Anatomy and Physiology Credits: 3(3-0-0)

UNIT 1: Organisational level of human body structure and function:

- Levels of human structure
- Basic chemistry of life
- Cell structure and function
- Tissue, membrane and body cavities
- Human body position, section and planes

UNIT 2: Human body protection, support and movement:

- Human Anatomy and Physiology of the Integumentary systems
- Human Anatomy and Physiology of the skeletal systems
- Human Anatomy and Physiology of the Muscular systems

UNIT 3: Human body control and regulation:

- Human Anatomy and Physiology of the Nervous system
- Human Anatomy and Physiology of the Sensory system
- Human Anatomy and Physiology of the Endocrine system

UNIT 4: Circulatory system

- Human Anatomy and Physiology of the cardiovascular system
- Human Anatomy and Physiology of the Lymphatic system

UNIT 5: Input and out-put of body required components:

- Human Anatomy and Physiology of the Respiratory system
- Human Anatomy and Physiology of the Digestive system
- Human Anatomy and Physiology of the Urinary system

Text Books Recommended

1. Human Anatomy and Physiology by Kapit& Elson (Pearson Publications)

MAS-856 Management Science Credit: 4 (4+0+0)

Course Objectives: There are several decisions taking by a manager in the business operations, this course includes methods and techniques for forecasting and planning.

Unit I Scientific Decision Making

Quantitative approach to decision making, features of operation approach, operation approach to solving problems, Models and modeling in operation research, Advantage of model building, methods of solving operations models, methodology of operation research.

Unit II Linear Programming: Application and Model Formation

Structure of linear programming models, advantage of using linear programme, limitation of linear programming, application area of linear programming, Guidelines of linear programming problems

Unit III Linear Programming: Graphical Methods

Graphical solution Methods, Extreme point solution method, Maximization solution methods, Mixed constraint LP problems.

Unit IV Linear Programming: The simplex methods

Standard form of an LP problem, Simplex Algorithm (maximization Case), simplex algorithm (minimization case), two phase model, Big M Models.

Unit V Linear Programming: Duality and sensitivity analysis

Formulation of dual linear programming problem, Symmetrical form, Economic interpretation of dual variable, Economic interpretation of Dual Constraint, Standard result of duality, Advantage of duality, Sensitivity analysis.

Unit VI Transportation Problem

Mathematical model of transportation problem, The transportation algorithm , methods of finding initial solutions, north west corner methods, least cost methods, Vogel's approximation methods.

Unit VII Assignment Problem

Mathematical model of assignment problem, Hungarian methods of solving assignment problem, variations of assignment problem, multiple optimal solutions, maximization case in optimal solutions, unbalanced assignment problem, Restriction of assignment problems.

Unit VIII Theory of games

Introduction, Two person zero sum games, pure strategies: game with saddle points, Rules to determine saddle points, Mixed strategies: game without saddle points, Rule of dominance, Solution methods games without saddle point: Algebraic method, Arithmetic method, Matrix method

Unit IX Project Management: PERT and CPM

Introduction, Basic difference between PERT and CPM, Phases of project management, PERT/CRM Network component and precedence relationship, critical path analysis, Project scheduling with uncertain activity time

Unit X Simulation

Introduction, simulation defined, types of simulation, steps of simulation process, Advantage & disadvantage of simulation

Text Book Recommended:

- 1. Operation Research Theory & application-JK Sharma
- 2. Quantitative Technique in Management-N.D. Vohra

BAM-823Product and Brand Management

Credit 3(3-0-0)

Course Objective: This course enables students to learn about the basics of brand and development of brand of a product.

Unit I: -Product: Concept, classification, levels, Product Mix.

Unit: II: -Concept of Brand: Introduction, Role of brand, Advantages of Branding, Core Values of Brand.

Unit: II: - Brand Equity: Concept, Brand elements. Principles of Branding, Communication Mix Strategy.

Unit IV: - Brand Media: Communication Channels and techniques, Advertising, Brand Perception, and Packaging.

Unit V: -Brand Extension: Nature, advantages and disadvantages, factors of brand extension. Brand personality: Nature, advantages, brand personality and user imagery. Concept of Brand positioning.

Unit VI: -Brand Strategy: Introduction and type of strategies.

Unit VII: -Brand valuation: Meaning, techniques, methods of valuing a brand. Introduction to service brands.

Text Books Recommended:

Product Managementby Lehman & Winer

Server on 7

Summer Training

Semester III

BAM-864 Management Information Management Credit:4(2+0+2)

Objectives of the Course: To give students thorough concepts of the principles, objectives, applications and design of MIS. To learn about the types of MIS designed for different needs of the organization. To learn about the technological updates in Information systems making the decision making process more easy and sophisticatedTo learn about the Business Applications of Information Systems

UNIT-I- INTRODUCTION TO MANAGEMENT INFORMATION SYSTEMS:

Nature of MIS, Scope of MIS, Objectives of MIS, Limitations of MIS, Role of MIS in Business functions and organizations Operating Elements of MIS, Information Systems PyramidStructure Based and Management Activity Based role of MIS, MIS Structure Based on Organizational Function, Advantages and Disadvantages

UNIT -II- CLASSIFICATION OF INFORMATION SYSTEMS:

TPS: Concepts/Types/Functions/, MIS: concept as management support toolESS: Concepts/Types/Functions/, DSS: Concepts/Types/Functions/, EIS: Concepts/Types/Functions/

Office Automation Systems: Concepts/Types/Functions /Tools of Office Automation SystemsArtificial Intelligence: concepts/components/functions, Concepts/Meaning and DefinitionComponents of Artificial Intelligence, Advantages and DisadvantagesRobotics: concepts/functionsExpert Systems: concepts/components/functions/Knowledge Work Systems Concepts/Types/Functions /Activities

UNIT –III- DECISION MAKING PROCESS: TYPES AND MODELS: Concepts of Decision Making, Types of DecisionsDecision Making Process, Models of Decision Making

UNIT –IV-COMPUTER SYSTEMS: A TOOL FOR MIS: Functions of a computer, Computer Hardware, Computer SoftwareCommunication Technology

UNIT –V-CONCEPTS OF INFORMATION:Information: Concepts and Meaning, Data: Concepts and Meaning, Characteristics of InformationSourceTypes: Type of Decisions and source

UNIT –VI-TELECOMMUNICATIONS AND NETWORKS:Concepts of NetworkingInternet/Intranet: Concepts/Roles/ Advantages/DisadvantagesTypes of Telecommunication NetworksProblems of Networked Enterprise

UNIT –VII- INFORMATION SECURITY and CYBER CRIMEInformation Security: Concepts/Methods/Need/Methods of DefenceNetworks and Website security risks, VirusesCyber CrimesPhishing/CopyrightComputer Ethics: Nature /Characteristics/Ethical Guidelines/

UNIT –VIII- LEGAL AND ETHICAL ISSUES:The Information Technology Act 2000/Highlights/important concepts in IT Act-2000

UNIT –IX- ERP: ENTERPRISE RESOURCE PLANNING: Evolution of ERP; what is ERP? Reasons for the Growth of ERP; Scenario and Justification of ERP in India; Evaluation of ERP; Various Modules of ERP; Advantage of ERP.Future Directions in ERP; New Markets; New Channels; Faster Implementation Methodologies; Business Modules and BAPIs; Convergence on Windows NT; Application Platform;New Business Segments; More Features; Web Enabling; Market Snapshot.ERP and Related Technologies; Business Process Reengineering (BPR); Management Information System (MIS); Executive Information System (EIS); Decision support System(DSS); Supply Chain Management (SCM).

UNIT –X- GENERAL TECHNOLOGICAL KNOWLEDGE:Computer basics: OS/memory/Input/Output/CharacteristicsMicrosoft Word: Basic Features/Formatting Features/Inserting Tables/Document formattingMicrosoft Excel: Basic Features /functions/Creating Tables and Graphs/Managing worksheetsMicrosoft Power-point: Creating PPT Presentations with formatting/design/animationE-Mail and Communication: Computer and IT Tools for Communication

Books Recommended:

• Introduction to Information Systems- James A O'brien

- Management Information Systems- Gorden B. Davis & Margretthe H.Olson
- Management Information Systems-Dharminder Kumar and Sangeeta Gupta
- Management Information Systems in Knowlwdge Economy- Joseph S.J. Mahapatra
- Fundamentals of Computers- Peter Norton

BAM -859 Entrepreneurship & Small Business Management Credit 4(4+0+0)

Course Objective: Pharmaceutical industry is the third largest industry in India, there more than 10 thousand small and big organizations are working for manufacturing of medicines. This course enables students to get insight about entrepreneurship development.

Unit: 1

Concept of Entrepreneurship, history, Small Business Management Meaning, Definitions Importance, role for the development of the economic

Unit: 2

Barriers for Entrepreneurship
Types of Entrepreneurs
Definitions, Theories of Entrepreneurs
Characterstics& Roll of Small Business

Environment for Entrepreneurship

Unit: 3

New Ventures & Business Plans, Government Plans, & Policies Training Infra Structural Assistance Entrepreneur development and Training

Institutional Assistance to Small Business

Sources of Information, Financial Institutions

Marketing Assistant

Unit: 4

Procedure for setting up Small Business Rules & Regulations for S.B, Market Survey, Preparation of Feasibility Report Managerial Competence and Infrastructure

Text Book Recommended-

- 1. Small Business Management by Vasant Desai
- 2. Rai Bahadur Mohan Singh Oberoi Did All His Way
- 3. Right Rails by Ravindra Bam

MBAPM 706PharmaceuticalSales and Customer Relationship ManagementCredits 4(4-0-0)

Course Objective: Study of pharmaceutical sales is different from study of general sales, various factors like physicians behaviour, promotional strategy, marketing reputations of organizations etc. This course enable students to understand about selling of medicines and pharmaceutical market dynamic

Unit I: -Need and scope of Pharmaceutical selling

Unit II: -Direct selling – concepts & types

Unit III: -Role & responsibility of medical representatives

Unit IV: -Distribution channel and network in pharmaceutical industry

Unit V: -Managing sales force

Unit VI: -Pricing of pharmaceutical products

Unit VII: -Sales forecasting of pharmaceutical products

Unit VIII: -Principal channel relationship

Text Books Recommended:

1. Pharmaceutical Marketing by Mickey C. Smith

2. Pharmaceutical Product Development by N. K. Jain

MBA 703 Business Analytics Credit: 03 (3-0-0

Course Objectives:

1. To provide an understanding of how managers use business analytics to formulate and solve business problems and to support managerial decision making.

2. To provide an understanding of the processes needed to develop, report, and analyse business data.

Unit 1: Overview of Business Analytics:

- Definition, Evolution, Architecture, Benefits, Future.
- Business, Analytics as Solution for Business Challenges.
- Effective Predictive Analytics, Integrating Analytics in Business Processes, Unstructured Data Analytics, Balanced Scorecard, Dashboards, KPI based on Dashboard and Scorecard,
- LOFT effect, Data Quality, Master Data Management, Data Profiling.
- Why are Business Analytics important

Unit 2: Descriptive Analytics, Predictive Analytics and Prescriptive Analytics:

- Introduction to Descriptive Analytics, Visualizing and Exploring Data, Descriptive Statistics, Sampling and Estimation, Introduction to Probability Distributions
- Introduction to Predictive Analytics, Predictive Modelling (Logic-driven models and data driven models)
- Introduction to Prescriptive Analytics, Prescriptive Modelling, Non-linear Optimization

Unit 3: Data Issues:

- Organization/sources of data, Importance of data quality, Dealing with missing or incomplete data, Data Classification
- Data Warehouse: Definition, Features, Applications, Types of data warehouse,
- Architecture: Business Analysis framework, 3-tier data warehouse framework.
- Data Warehouse Models: Virtual Warehouse, Data Mart and Enterprise warehouse.
- Metadata: Meaning and Categories, Role of metadata, Metadata respiratory, Challenges for metadata management, Data Cube
- Online Analytical Processing Server (OLAP): Types, OLAP operations, OLAP Vs Operational Database (OLTP).
- SCHEMA: Star Schema, Snowflake schema, Fact Constellation schema

Unit 4: Data Mining and Testing: Definition, Concepts, Applications and Methods.

Unit 5: Security: Security requirements, User Access, Data classification, User Classification, Data Movement, And Impact of security on design.

Unit 6: Decision Modelling and Forecasting:

- Optimization: Using excel to solve business problems Eg: Marketing Mix, Portfolio optimization etc.
- Linear Programming: Introduction, Types of Linear programming problems/Models, Linear programming Model elements, Model formulation procedure, Computer based solutions for linear programming using Simplex method
- Duality and Sensitivity Analysis: What is Duality?, Duality and Sensitivity analysis problems
- Integer Programming: Introduction, Solving IP problems/Models
- Forecasting: Introduction, Types of Variation in Time series data, Simple Regression Model, Multiple Regression Models
- Simulation: Introduction, Types of Simulation
- Decision Theory: Introduction, Decision theory model elements, types of decision environments, decision theory formulation, decision making under uncertainty and risk, Decision trees.

Unit7: Fundamentals of R Language:

- Introduction, Basic Statistical Analysis using R, Process of Business Analytics,
- BA Process-Walk through with R,
- Multiple regression- Theory and Walk through with R,
- Clustering and Segmentation- Theory and Walk through with R

Suggested Readings:

- 1. Fundaments of Business Analytics by RN Prasad and Seema Acharya, Wiley India Publication
- 2. Win With Advanced Business Analytics by Jean Paul Isson and Jesse S. Harroitt, Wiley Publication, 2013
- 3. Successful Business Intelligence: Secrets to Making BI a Killer App by Cindi Howson, Tata McGraw Hill Edition 2012
- 4. Analytics at Work by Thomas H. Davenport, Jeanne G. Harris and Robert Morison, Harvard Business Press

PHM 631 Pharmaco-economicsCredits4(4-0-0)

Course Structure: Pharmaceutical industry is a major source of revenue for Indian economy. This course helpful to understand the economical parameters of pharmaceutical industry.

Unit I: -Nature and Scope of Pharmaco-economics

Unit II: -Demand Analysis: Meaning of Demand, Law of Demand, Elasticity of Demand

Unit III: -Demand Forecasting

Unit IV: -Production Analysis: Production Function; Laws of Production, Theory of Cost and Concepts: Accounting Concepts, Analytical Concepts; Cost Theory – Short-run Cost-Output Relations; Long-run Cost-Output Relations.

Unit V: -Policy Relating to Pharmaceutical Industry.

Unit VI: -Market Dynamics and Structure: Perfect Competition, Monopoly and Imperfect Competition.

Unit VII: -Pricing Strategies and Practices: Cost based and Demand based.

Unit VIII: - Business Cycles and Stabilisation.

Text Books Recommended:

- 1. Managerial Economics R.L. Varshey & K.L. Maheshwari
- 2. Micro Economics Sameulson & Nordhaus
- 3. Managerial Economics: Concepts and Cases Mote, Paul & Gupta

PHM 734 Drug Regulatory Affairs Credits 3(3-0-0)

Unit I: -Historical perspective on the impact of Food and Drug laws.

Unit II: -Manufacturing: Introduction, regulatory requirements as per Indian and other regulatory authorities for manufacturing information formula, process, validation of manufacturing process, equipment, documentation, inspection requirement, regulatory guidelines for active ingredients and formulations. Regulatory guidelines for packaging materials, test and evaluation of packaging materials, biological test, microbiological test and evaluation of closures.

Unit III: -Federal Laws – FD & C Act - Definitions, History of FDA; Evolution of Drug Regulations – 1906 Act, 1938 Act, 1962 Amendments; Laws governing evaluation of New Drug products like IND, NDA, ANDA etc.; FDA Product recalls; DESI and OTC Review; Other regulations of 1962 Amendments like labelling requirements of prescription and OTC drugs.

Unit IV: - FDA Enforcement powers, other federal laws affecting pharmaceutical industry (includes latest amendments in the Indian and international systems), Intellectual property rights: Introduction, purpose, guidelines as per Indian and other regulatory authorities.

Unit V: -Clinical trials: Definition, Phase I, Phase II, Phase III and Phase IV studies, design documentation, presentation and interpretation, statistical analysis of clinical data, factorial design, guidelines as per Indian and other regulatory authorities.

Text Books Recommended:

- 1. The Sciences & Practice of Pharmacy Remington
- 2. Community Pharmaceutical Management by Lechman

PHM 816Seminar on Summer Training Credits 1(0-1-0)

Each student is required to undertake training. The emphasis here is on involving thestudents in learning processes that help them relate concepts and theories to business requirements. It is therefore desirable that the students interact and interface with the industry during the summer vacation after Semester II examinations. After the training Students are required to submit their project report; certificate of training issued by the organization in which they have worked; and also make a presentation on the work done by them and their experiences for which they will marked satisfactory/ unsatisfactory. The objective of this project is to help students gain practical experience and exposure to work culture and prevalent practices in the Indian pharmaceutical industry.

Semester IV

BAM 865Strategic ManagementCredits 4(4-0-0)

Course Objective: Managers are known as good strategist, this course include knowledge about formulation and effective implementation of strategies.

- I. Concept of Strategic Management
- II. Role of Strategist
- III. Process of Strategic Management
- IV. Environmental Appraisal
- V. Organisational Appraisal & Scanning Capability Factors
- VI. Strategic Alternatives and Choice
- VII. Grand Strategies, Strategic Plan
- VIII. Strategy Implementation Structural and Functional Implementation
 - IX. Strategy Evaluation and Control

Text Books Recommended:

- 1. Strategic Management Concepts and Cases Thompson & Strickland
- 2. Strategic Management Concepts and Cases Fred R. David
- 3. Business Policy Azhar Kazmi

BAM 808Intellectual Property Rights (IPR)Credits 3(3-0-0)

Course Objective: This course includes basic fundamental knowledge about patents, copy rights and other IP rules which are important for a business organization.

Unit I: -Copy Right: Requirements & Rights

Unit II: - Patent: Requirements & rights

Unit III: - Related Rights: Requirements & Rights

Unit IV: - Geographical Indications: Requirements & Rights

Unit V: - Trademarks: Requirements and Rights

Unit VI: - Trade Secretes and Designs

Unit VII: Indian Plant Protection Act

Unit VIII: - Authorities (WIPO, WTO, TRIPS, GATT)

Text Books Recommended:

1. Intellectual Property Rights in India by Lexis-Nexis Publications

BAM 809Total Quality ManagementCredits 3(3-0-0)

Course Objective: Medicines are the matter of quality and standards. This course include basic fundamental about quality and effective management of quality for organizational development.

- I. Introduction to Quality; Concept of TQM; Elements of TQM
- **II.** Philosophies of TQM-Deming's; Juran's; Crosby's
- **III.** Focusing on Customers
- **IV.** Leadership & strategic planning for TQM
- V. Human Resource Development and Management for TQM
- VI. Process Management; Tools for Process Management
- **VII.** Organizing for TQM

- **VIII.** ISO-9000
 - **IX.** Total Quality Management in Services

Text Books Recommended:-

- Total Quality Management by B.Senthil Arasu and J. Praveen Paul
- The Essence of Total Quality Management by John Bank
- Quality Management by Kanishka Bedi
- Total Quality Management by Rajesh Kumar Shukla
- Total Quality Management by Dale H. Besterfield

BAM-799

Labour Laws & IR Credit:3(3+0+0)

Objectives of Course:

- To elaborate with the importance and role of Industrial Labour Laws
- To understand the various Acts and its applications in the business organisations with terms and conditions of employment
- To facilitate knowledge about the benefits and penalties under each Act
- To elaborate a highlight with the rights and liabilities of both the Employees and Employers in the business Organisations or Industries.

UNIT-I

• Importance, concept and history of labour laws, Labour policy in India, Industrial Peace and Industrial Relations concepts

UNIT-IIFactory Act 1948

- Introduction
- Scope of the Act
- Main features of the Act
- Changes introduced
- Important Definitions under the Act: Industry/Worker/Factory/Employee/Employer/Labours / Inspection and Inspection staff
- Health Provisions under the Act
- Safety Provisions under the Act
- Interpretation: Competent Persons
- Hazardous Process and Provisions under the Act
- Manufacturing Process Provisions under the Act
- Welfare facilities and Provisions under the Act
- Annual Leave with wages and Provisions under the Act
- Special Provisions under the Act
- Definition of working Hours for Adults and Child labours

UNIT-IIIIndustrial Disputes Act, 1947

- Introduction
- Scope of the Act
- Main features of the Act
- Important Definitions under the Act:Industry/Labour Court/ay-Off/ Lock –Out/Retrenchment/ Settlement/Strikes/Trade Unions role/Tribunal/

UNIT-IVTrade Unions Act, 1926

- History of Trade Unions in India
- Development of Trade Unions in India
- Important Definitions under the Act
- Introduction
- Scope of the Act
- Main features of the Act
- Registration of Trade Unions under the Act
- Rights and Liabilities of Registered Trade Unions Act
- Regulations and and Penalties under the Act

UNIT-VPayment of Wages Act,1936

- Introduction
- Scope of the Act
- Main features of the Act
- Object and Applications of the Act
- Important Definitions under the Act
- Payments of Wages and Deductions from Wages
- Fixation of Wage Periods

UNIT-VIMinimum Wages Act, 1948

- Object of the Act
- Constitutional Validity of the Act
- Salient Features of the Act
- Applications of the Act
- Important Definitions under the Act:Adolescent/Child/Competent Authority/wages/Wage Structure
- Fixation of Minimum Rates of Wages/Working Hours and determination of Wages and Claims etc.

UNIT-VIIEmployee State Insurance Act,1948

- Introduction
- Scope of the Act
- Main features of the Act
- Object and Applications of the Act
- Permanent or partial Disablement
- Corporation, Standing Committee and Medical Benefit Council
- Employee's State Insurance Fund
- Expenses Budget Estimates Employer Contribution
- Methods of Payments
- Benefits under the Act
- Adjudication of Disputes and Claims
- Penalties

UNIT-VIIIWorkmen Compensation Act,1923

- Introduction
- Scope of the Act

- Main features of the Act
- Employer's liability for Compensation
- Amount of compensation under the Act
- Commutations of Payments
- Notice and claims of the accidents

UNIT-IXEmployee's Provident Fund & Miscellaneous Provisions Act

- Introduction
- Object and Scope of the Act
- Main features of the Act
- Important Definitions
- Employee's Provident fund Scheme
- Employee's Pension Schemes

UNIT-XGratuity Act,1972

- Introduction
- Object and Scope of the Act
- Main features of the Act
- Important Definitions: Employee/ Employer/ Factory/ Family/ Wages
- Determination of the amount of Gratuity
- Inspectors and power of Inspectors
- Recovery of Gratuity
- Penalties

Books Recommended:

- 1. Human Resource Management and Practices: S.S.Khanka
- 2. Human Resource Management and Practices: K.Ashwathapa
- 3. Labour Laws -Ajay Garg

BAM-899 Project Report Credits Credit: 10(0-0-20)

A project will be assigned to each student. Data will be collected by the students afterClass and during the weekends. A report will be submitted, having the following chapters:

- 1. Introduction
- 2. Research Design
- 4. Data Analysis
- 5. Conclusion

Project work will be done under the supervision of a faculty member allotted by the program co-ordinator.

BAM 897Comprehensive Viva Credit: 1(0-1-0)

At the end of the fourth semester, a viva-voce examination will be held for 100 marks. Inthis oral examination the student will be asked questions related to the entire syllabus taught in all four semesters in the MBA-PM program