

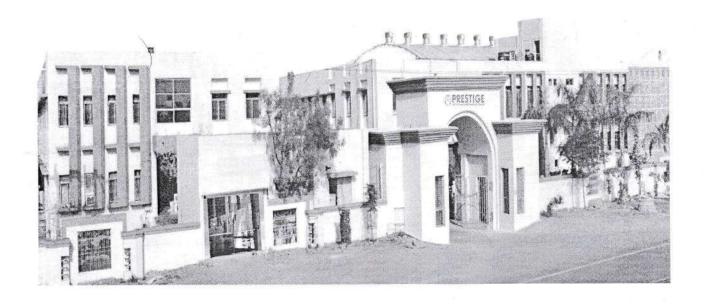
### **COURSE CURRICULUM**

(NEP & CBCS SEMESTER WISE)

for

Master of Business Administration (BUSINESS ANALYTICS)

(Academic Year 2023-25)



Prestige Institute of Management & Research, Gwalior Airport Road, Opposite DD Nagar, Gwalior (Madhya Pradesh) INDIA

harina bur

Patila Sikarwar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwallor (M.P.)

## COURSE STRUCTURE AND SCHEME OF EXAMINATION MBA –BUSINESS ANALYTICS

#### SEMESTER - I

S. No	Course code	Cour se Type	Course Name	L	Т	P	Hour/ Week	C re di t		ponen arks	Total
	A.	Core/ AE/S D					L+T+P= Total		IA	EA	
1	MBA-B A 101	Core	Management Concepts & OB	3	1	0	3+1+0=4	4	40	60	100
2	MBA-BA 102	Core	Managerial Economics	3	1	0	3+1+0=4	4	40	60	100
3	MBA-BA 103	Core	Financial Reporting and Analysis	3	1	0	3+1+0=4	4	40	60	100
4	MBA-BA 104	Core	Introduction to Business Analytics and Data Science	3	1	0	3+1+0=4	4	40	60	100
5	MBA-BA 105	Core	<b>Business Environment</b>	3	1	0	3+1+0=4	4	40	60	100
6	MBA-BA 106	Core	<b>Business Statistics</b>	3	1	0	3+1+0=4	4	40	60	100
7	MBA-BA 107	SD	Industry Readiness (Personality Development)	0	1	2	0+1+2=3	2	25	25	50
8	MBA-BA 108	SD	Introduction to Python for Business Analytics	0	1	2	0+1+2=3	2	25	25	50
9	MBA-BA 109	SD	Comprehensive Viva	0	0	4	0+6+3=3	2	50	50	100
		_	TOTAL	18	9	6	and the state of t	30			800

Join /

Prof.
Cont
Prestige Institu

Prof. (Dr.) Tarika Singh

Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

#### SEMESTER II

S. No	Course code	Cour se Type	Course Name	L	T	P	Hour/ Week	C re di t	1000000	ponen arks	Total
		Core/ AE/S D					L+T+P= Total		IA	EA	
1	MBA-B A 201	Core	Marketing Management	3	1	0	3+1+0=4	4	40	60	100
2	MBA-BA 202	Core	Operation & Supply Chain Management	3	1	0	3+1+0=4	4	40	60	100
3	MBA-BA 203	Core	Corporate Finance	3	1	0	3+1+0=4	4	40	60	100
4	MBA-BA 204	Core	Machine Learning & Applications	3	1	0	3+1+0=4	4	40	60	100
5	MBA-BA 205	Cøre	Human Resource Management	3	1	0	3+1+0=4	4	40	60	100
6	MBA-BA 206	Core	Decision Science	3	1	0	3+1+0=4	4	40	60	100
7	MBA-BA 207	SD	Machine Learning using R (Practical)	0	1	2	0+1+2=3	2	25	25	50
8	MBA-BA 208	SD	Database and SQL Lab (Practical)	0	1	2	0+1+2=3	2	25	25	50
9	MBA-BA 209	SD	Project- Data Analysis with Python	0	1	2	0+1+2=3	2	50	50	100
			TOTAL	18	9	6		3 0	1		800

sen'

haina

Prof. (Dr.) Tarika Singh

Palifa Sikawar

Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

#### SEMESTER III

S. No	Course code	Cou rse Typ	Course Name	L	T	P	Hour/ Week	Cr edi t		ipone Iarks	Total
		e Core /AE/ SD					L+T+P= Total		IA	EA	
1	MBA-B A 301	Core	Big Data Analytics	3	1	0	3+1+0=4	4	40	60	100
2	MBA-BA 302	Core	Multivariate Data Analysis	3	1	0	3+1+0=4	4	40	60	100
3	MBA-BA GE 303	Core	Generic Elective – Group I	3	1	0	3+1+0=4	4	40	60	100
4	MBA-BA GE 304	Core	Discipline Specific Elective- Group II	3	1	0	3+1+0=4	4	40	60	100
5	MBA-BA DSEC 305	Core	Discipline Specific Elective- Group II	3	1	0	3+1+0=4	4	40	60	100
6	MBA-BA DSEC 306	SD	Practical Lab on Big Data Analytics	0	1	2	0+1+2=3	2	25	25	50
7	MBA-BA 307	SD	Data Visualization Lab	0	1	2	0+1+2=3	2	25	25	50
8	MBA-BA 308	SD	Summer Training Report & Presentation	0	2	4	0+2+4=6	4	50	50	100
			TOTAL	15	9	8		28	1		700

		*Elective Paper in MBA BA III Semester
1	MBA-BA GE 303	GE-01 Consumer Behavior
2	MBA-BA DSEC 304	DSEC-01 Social Media and Web Analytics
3	MBA-BA DSEC 305	DSEC-03 Financial Analytics

\*THE ABOVE MENTIONED ELECTIVE COURSES HAVE BEEN DECIDED TO TEACH Table Sikerwan IN THE THIRD SEMESTER.

Prof. (Dr.) Tarika Singh

Controller of Examination Ovestige Institute of Management and Research Gwalior (M.P.)

SEMESTER IV

S.N o	Course code	Course Type	Course Name	L	T	P	Hour/ Week	Cred it		pone Iarks	Tot al
		Core/A E/SD	9				L+T+P=T otal		IA	EA	
1	MBA-B A 401	Core	Entrepreneurship and Small Business Development	3	1	0	3+1+0=4	4	40	60	100
2	MBA-BA 402	Core	Cyber Security & Law	3	1	0	3+1+0=4	4	40	60	100
3	MBA-BA GE 403	Core	Generic Elective – Group I	3	-1	0	3+1+0=4	4	40	60	100
4	MBA-BA DSEC 404	Core	Discipline Specific Elective-Group II	3	I	0	3+1+0=4	4	40	60	100
5	MBA-BA DSEC 405	Core	Discipline Specific Elective-Group II	3	1	0	3+1+0=4	4	40	60	100
6	MBA-BA 406	SD	Dissertation Report & Viva Voce	0	2	4	0+2+4=6	4	50	50	100
7	MBA-BA 407	SD	Predictive Analytics using SPSS	0	2	4	0+2+4=6	4	50	50	100
8	Mandato ry NON CGPA elective	VAC	Certification Course from NPTEL/SWAYA M		ic				Section in		
		1	TOTAL	1 5	9	8		28			700

		*Elective Paper in MBA BA IV Semester
1	MBA-BA GE 403	GE-04 Security Analysis and Portfolio Management
2	MBA-BA DSEC 404	DSEC-02 Marketing Analytics
3	MBA-BA DSEC 405	DSEC -04 H R Analytics

\*THE ABOVE MENTIONED ELECTIVE COURSES HAVE BEEN DECIDED TO TEACH IN FOURTH SEMESTER.

	GRA	ND TOTAL OF A SEMESTERS		
Semesters	Semester 1	Semester 2	Semester 3	Semester 4
Credits	30	30	28	28
Grand Total of Credits	6		116	

Prestigativate of Management & Research, Gwalior

Prof. (Dr.) Tarika Singh Controller of Examination

prestige Institute of Management and Research

Gwalior (M.P.)

Group 1 - Discipline Specific Electives (Choose any four from the group)

	oline Specific Electives (Care	Semester
Code.	Paper	III
	Social Media & Web Analytics	iv iv
DSEC-01		l IV
DSEC-02	Marketing Analytics	III
DSEC-03	Financial Analytics	IV
	Human Resource Analytics	IV
DSEC -04		
DSEC -05	Retail Analytics	IV
DSEC -06	Data Management and Ethics	111
DSEC -07	Digital Marketing Analytics	111
Maria de la companya		111
DSEC -08	Time Series Analysis	

Group 2 - Generic Electives (Choose any Two from the group)

j Z - Gener	ric Electives (Choose any 1 wo note	Semester
	Paper	III
Code	Consumer Behaviour	
GE-01		III
GE-02	Sales and Distribution	시설 :
	Management	III
GE-03	Human Resource Development And	
02	Organizational Development	IV
GE-04	Security Analysis & Portfolio Management	
		The second second
GE-05	Financial Econometrics	IV
GE-06	Compensation Planning	IV
GE-07	Talent Management	IV
GE-08	Service Marketing And	
	Retail Management	IV IV
	Branding & Integrated Communication	
GE-09		IV
GE-10	Project Appraisal and Finance	

The Scheme of Assessment (including Marks of Sessional, minimum Pass Marks, Division of Examination) & Scheme of Promotion to next Semester will be Governed by Ordinance 168 A of Jiwaji University Gwalior (Based on 14 A of Devi Ahilya Vishwavidyalaya; As Approved by the Coordination Committee in its meeting held on 25/10/2017 and Adopted by Devi Ahilya Vishwavidyalaya in its EC meeting held on 04/12/2017)

> Prestige Institute of Management & Research, Gwalior a Silcarusar

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research

Gwalior (M.P.)

## PROGRAM OUTCOMES: MBA BUSINESS ANALYTICS

PO1: Understand management theories and practices to solve business problems using analytics

PO2: Apply appropriate analytical methods to interpret data using latest data analytics tools.

PO3: Enable critical thinking and cultivate cognitive skills.

PO4: Appraise the impact of managerial decisions and business priorities on the societal, economic and environmental aspects

PO5: Adapt life-long learning and ethical orientation through enriched knowledge and skills.

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwalior (M.P.)

## MBA\_BA I SEMESTER MANAGEMENT CONCEPTS & OB COURSE CODE: MBA\_BA –101

Max. Marks: 100 Min. Marks: 35 External: 60 Internal: 40

Credits: 4

## MANAGEMENT CONCEPTS & ORGANISATIONAL BEHAVIOUR

Course Objectives

The course comprehends the functions of management and individual, group and organizational behaviour; models and metrics to measure the behaviours; and associated behavioural& organizational changes.

Course Outcomes: Upon completion of this course, the student will be able:

CO1a: Integrate management principles into management practices.

CO1b: Determine the nature of organization structure.

CO2: Understand and apply control methods.

CO3: Understand models of organizational behavior, perception, organizational change, group dynamism and organizational conflict.

CO4: Measure Employees' attitude and Personality Types, motivation factors, leadership styles, and stress.

CO/PO Matrix									
Course Outcomes	PO1	PO2	PO3	PO4	PO5				
CO1a	3	2	1	2	3				
CO2b	2	2 4	2	2	3				
CO2	3	3	3	1	2				
CO3	3	2	1	2					
CO4	3	2 2	3	1	1				

Unit 1: Management: Concept, Nature & Functions of Management, Levels of Management, Approaches to management, Evolution of Management. Planning: Concept & Types of Plans; Planning Process; MBO, Introduction to PERT-CPM. Decision Making: Decision Making - Techniques and Processes

Unit 2: Organizing: Organization Structure and Design, Principles of organizations. Staffing: Concept & Process

Directing: Concept, Principles & Techniques of Directing.

Unit 3: Controlling: Concept; Process; Types of Control: Balance Scorecard, factors influencing control effectiveness.
Introduction to Organizational Behaviour: Nature; Importance; contributing disciplines,

Models of OB.

Unit 4: Perception and Attribution Theory: Concept; Process; Perceptual Errors.

Learning: Theories of Learning.

Attitude: Concept; Process; Importance; Cognitive Dissonance Theory Personality: Types and Theories of Personality; Big Five Personality Model.

Prestige Institute of Management & Research, Gwalior

Prof. (Dr.) Tarika Singh Controller of Examination

Prestige Institute of Management and Research Gwalior (M.P.)

8

## Course curriculum -Post Graduate Degree Programme

Motivation: Concept; Theories of Motivation: Need Hierarchy Theory, Two Factor theory; Unit 5: Mc Clellands' Theory, Expectancy theory.

Leadership: Style and Theories of Leadership

Conflict: Concept; Classification, Resolution of Conflict

Organizational Change: Concept & Kurt Lewin Theory of Change

#### Suggested Readings:

- Gilbert, D.R. Stoner, F. & D.R. Stoner, F. & Comp. Freeman, R.E. (2001). Management. Pearson Education.
- Weihrich, H. & Koontz, H. (2005). Management: A Global Perspective. Tata McGraw Hill.
- Robbins, S. P. & Coulter, M. (2012). Management. Pearson.
- Ouchi, W. G. & Dowling, J. B. (1974). Defining the Span of Control. Administrative Science Ouarterly, 357-365.
- Watkins, K. E. & Marsick, V. J. (2003). Demonstrating the Value of an Organization's Learning Culture: The Dimensions of the Learning Organization Questionnaire .Advances in Developing Human Resources. 132-151.
- Fred; L. (2011). Organizations Behaviour (12th edition ed.). New York; Mc Graw Hill.
- Robbins, Judge & Vohra (2018). Organizational Behavior (18th edition). New Delhi: Pearson Education.
- K; A. (2016). Organizational Behaviour (12th edition ed.). New Delhi: Himalaya Publishing House.
- Stephen; P. (2013). Organizational Behaviour (15th edition ed.). New Delhi: Pearson Education.
- Udai; P. (2016). Understanding Organizational Behaviour (4th edition ed.). New Delhi: Oxford Higher Education.

Paula Sikeman estign

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwalior (M.P.)

MBA\_BA I SEMESTER MANAGERIAL ECONOMICS PAPER CODE: MBA BA –102 Max. Marks: 100 Min. Marks: 35 External: 60 Internal: 40

Credit: 4

#### MBA (BA) 102 MANAGERIAL ECONOMICS

#### Course Objective:

The basic aim of this course is to impart knowledge of basic statistical tools &techniques with emphasis on their application in Business decision process and Management. Statistical analysis informs the judgment of the ultimate decision-maker—rather than replaces it—some key conceptual underpinnings of statistical analysis will be covered to insure the understandability of its proper usage.

#### **Course Outcomes:**

After completion of this course the student will be able to-

CO1a: Learn the general concepts of Managerial Economics and Demand Analysis

CO1b: Understand the concepts of Demand Elasticity and Production Analysis

CO2: Analyse the concepts of Market Structure

CO3: Understand and Implement Demand Forecasting

CO4: Calculate and Interpret the Concept of National Income, Business Cycle and Inflation

	CO-PO Matrix									
Course Outcomes	PO1	PO2	PO3	PO4	PO5					
CO1a	3	-	2	2	3					
CO1b	3	2	2	2	2					
CO2	2	3	2	2	2					
CO3	2	3	3	2	3					
CO4	2	1	2	1	3					

#### **Unit 1: Introduction**

Introduction to Economics & Managerial Economics, Concept of Managerial Economics, Scope, Objectives of Firm, Problem in Decision making, Principles for decision making (Five fundamental concept)

Theory of the firm and Demand Analysis – Theory of the firm and Demand Analysis: Basics of demand, determinants of demand, Law of Demand, Exceptions of Law of Demand, Shift in Demand Curve. Demand Forecasting

#### Unit 2: Elasticity, Production and Cost Analysis

Demand Elasticity, Price Elasticity of Demand, Income Elasticity of Demand, Cross elasticity of demand; Concept of Supply & Elasticity

Production Analysis: Basic production concepts, Production with one variable input, ISOQUANT with optimal input combination and production function in the long run. Cost of Production: Relevant costs, The cost of production, TR, AR and MR, Cost analysis.

Prestige Institute of Management & Research, Gwalior

Palifa Sikarwan

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

## Course curriculum -Post Graduate Degree Programme

Unit 3: Market Structure and Competitive Environment

Market Structures and Competition: Perfect Competition and Price & Output determination, Monopoly and Price & Output determination, Monopolistic competition& Price & Output determination, Oligopoly model(Price Rigidity Model)

Unit 4: Decision Making Applications

Uncertainty, Probability, and expected value, Sensitivity Analysis for One variable & Two Variable using Excel, Decision Trees, demand forecasting, Analysis using Excel-regression analysis using time series data.

Unit 5: National Income:

Concepts; Measuring the Value of Economic Activity through Gross Domestic Product, GDP Deflator, Real GDP vs. Nominal GDP, Demographic dividend, Green economics and HDI (Human development Index); Inflation: Types; Causes and Measurement; Business Cycle

Text Books:

By Paul G. Keat, Philip K.Y. Young, Stephen E. Erfle and Sreejata Banerjee "Managerial Economics: Economics tools for today's decision makers "Pearson Paperback, 7th edition, 2018

References:

- Samuelson & Marks, "Managerial Economics: International Students Version" Wiley,6th edition,
- Truett & Truett, "Managerial Economics", John Wiley & Sons, 8th edition, Singapore, 2004
- Samuelson & Nordhus, "Economics", Tata McGraw-Hill Edition, 16th edition, New Delhi, 1998
- Petersen, Lewis and Jain, "Managerial Economics", Pearson Education, New Delhi, 2006.
- Hirschey, "Economics for Managers", Thompson, New Delhi, 2006
- Suma Damodaran, "Managerial Economics", Oxford University Press, 2006

Ja Sikawar

Prof. (Dr.) Tarika Singh Controller of Examination Prestige institute of Management and Research Gwalior (M.P.)

MBA BAISEMESTER FINANCIAL REPORTING AND ANALYSIS PAPER CODE: MBA\_BA -103

Max. Marks: 100 Min. Marks: 35 External: 60 Internal: 40

Credit: 4

## FINANCIAL REPORTING AND ANALYSIS

Course Objective:

be able to estimate the quality of financial reporting, identify possible management practices. analyze financial statements using knowledge of the underlying accounting principles, and financial analysis techniques and demonstrate the ability to prepare prospective financial information.

#### **Course Outcomes:**

CO1a: Learn the basic concepts of financial reporting.

CO1b: Understand types of financial statements and additional disclosures need to report by business entity.

CO2: Learn basic elements of financial statements.

CO3: Understand and apply financial statement analysis tools for decision making.

CO4: Learn convergence of Indian accounting standards with IFRS.

	CO-PO Matrix										
Course Outcomes	PO1	PO2	PO3	PO4	PO5						
COla	3		2	1 2	2						
CO1b	3 ,	1	2	. 2	1						
CO2	2	2	3								
CO3	3	2	3	2	1						
CO4	2		2	3	2						

Unit 1: Financial Analysis and reporting: an Introduction

Financial Reporting: An Overview- Concept of financial reporting, financial reporting and financial statements, objectives of financial reporting, uses of financial information, benefits of financial reporting, Qualitative characteristics of financial reporting information.

Conceptual Framework- Concept, need and benefits of conceptual framework, ASB's framework for preparation and presentation of financial statements, IASB's (earlier IASC) conceptual framework, USA's FASB's conceptual framework.

**Unit 2: Understanding Financial Statements** 

Understanding Financial Statement; Nature, Legal Requirements under Companies Act 2013, Preparation of Statement of Profit & Loss Account and Balance Sheet; Cash Flow Statement (IND AS 3)- Classification of Cash Inflows and Outflows, presentation of cash flow statement, preparation of cash flow statement. Cash Flow Statement (IND AS 7); Major changes in AS 7 visa Sileannar a-vis notifies AS 3.

Unit 3: Financial reporting

Prestige Institute of Management & Research, Gwaljor

Prof. (Dr.) Tarika Singh Controller of Examination

Prestige Institute of Management and Research Gwalior (M.P.)

12

Financial reporting - Concepts - users, Objectives of financial reporting - Qualitative characteristics of information in financial reporting - basic problems of disclosure - Role of SEBI in IFRS - Statutory disclosures in IFRS - Corporate reporting practices in India Challenges in financial reporting

#### Unit 4: Elements of Financial Statements

Assets- Meaning and characteristics of Assets, Assets valuation; objectives/concepts, types of assets, Introduction to IND AS 10 (Property, Plant and Equipment), Provisions and features of IND AS 16; IND AS 19- Provisions of Lease. Liabilities- meaning of Liabilities, types of liabilities, features of AS 22 about accounting for taxes on Income.

Revenues, Expenses, Gains and Losses- Concept of revenues and expenses, revenue recognition criteria, concept of gains and losses, difference between revenue and gains.

#### Unit 5: Analysis and Interpretation of Financial Statements

Financial Statement Analysis: Meaning and Objectives, Types of financial Analysis, Techniques of Financial Statement Analysis, Financial Statement Valuation by types of Industry.

Ratio Analysis- meaning, advantages, practical problems on different classification of ratios. Use of ratios and financial Statements for industry wise comparison. Analysis of financial reporting by corporate sector.

#### Reference Readings:

- Gibson, C. H. (2012). Financial Reporting and Analysis. United States: Cengage Learning.
- Gibson, C. (2008). Financial Reporting and Analysis: Using Financial Accounting Information. United States: Cengage Learning.
- Financial Reporting and Disclosure Practices. (2000). India: Deep & Deep Publications.
  - Corporate financial reporting and analysis, second edition. (2019). (n.p.): phi learning Pvt. Ltd.

Patila Sikarwar

Prof. (Dr.) Tarika Singh

Controller of Examination

Prestige Institute of Management and Research

Gwalior (M.P.)

bui

MBA\_BA I SEMESTER INTRODUCTION TO BUSINESS ANALYTICS AND DATA SCIENCE PAPER CODE: MBA\_BA -104

Max. Marks: 100 Min. Marks: 35 External: 60 Internal: 40

Credit: 4

## INTRODUCTION TO BUSINESS ANALYTICS AND DATA SCIENCE

Course Objectives:

- 1. Understanding the Role of Business Analyst and Data Science in business.
- 2. Understanding the basic concept of data management and data mining techniques
- 3. To understand the basic concept of machine learning
- 4. To understand the application of business analysis.
- 5. Understanding the basic concept of Data Science Project Life Cycle.

#### Course Outcomes:

Upon the successful completion of this course, the student will be able to:

Understand the role of business analytics for Business Decision making

Understand the role of data science in solving business problem and Data science project life. CO1b: cycle to prepare data

Understand and apply data mining task and techniques for better decision making CO2:

Apply and analyse machine learning concept various data mining task and techniques for CO3: better decision making

Analyse the application of business analytics in different business domain. CO4:

CO/PO MATRIX							
Course Outcomes	PO1	PO2	PO3	PO4	PO5		
CO1a	2		3	3	3		
CO1b	2	-	3	3	3		
CO2	2	2	3	3	3		
CO3	2	3	3	3	3		
CO4	2	_	2	3	2		

#### Introduction: Unit 1:

What is business analytics? Historical Overview of data analysis, Data Scientist vs. Data Engineer vs. Business Analyst, Career in Business Analytics, what is data science, Why Data Science, Applications for data science, Data Scientists Roles and Responsibility, Types of business analytics

Data Science Project Life Cycle: Unit 2:

Business Requirement, Data Acquisition, Data Preparation, Hypothesis and Modeling, Evaluation and Interpretation, Deployment, Operations, Optimization.

Prof. (Dr.) Tarika Singh Controller of Examination

Prestige Institute of Management and Research

Prestige Institute of Management & Research, Gwalior (M.P.)

a Sikarwar

## Course curriculum -Post Graduate Degree Programme

Data: Data Collection, Data Management, Big Data Management, Organization/sources of data, Importance of data quality, Dealing with missing or incomplete data, Data Visualization, Data Classification

Introduction to Data Mining: Unit 3:

The origins of Data Mining, Data Mining Tasks, OLAP and Multidimensional data analysis, Basic concept of Association Analysis and Cluster Analysis.

Introduction to Machine Learning: Unit 4:

History and Evolution, AI Evolution, Statistics Vs Data Mining Vs, Data Analytics Vs, Data Science, Supervised Learning, Unsupervised Learning, Reinforcement Learning, Frameworks for building Machine Learning Systems.

**Application of Business Analysis:** Unit 5:

Retail Analytics, Marketing Analytics, Financial Analytics, Healthcare Analytics, Supply Chain Analytics.

#### Text Books:

• Essentials of Business Analytics: An Introduction to the methodology and its application, BhimasankaramPochiraju, Sridhar Seshadri, Springer

Introduction to Machine Learning with Python: A Guide for Data Scientists 1st Edition, by Andreas C.,

Müller, Sarah Guido, O'Reilly

Introduction to Data Science, Laura Igual Santi Segui, Springer

Reference Book:

- Introduction to Data Mining, Pang-Ning Tan, Michael Steinbach, Vipin Kumar, Pearson Education
- An Introduction to Business Analytics, GerKoole, Lulu.com, 2019

alila Sikawar

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwalior (M.P.)

MBA BAISEMESTER BUSINESS ENVIRONMENT PAPER CODE: MBA BA-105 Max. Marks: 100 Min. Marks: 35 External: 60 Internal: 40

Credit-04

#### MBA (BA) -105 BUSINESS ENVIRONMENT

#### Course Objective

The course details about the environmental forces, both external and internal and their interaction and effect on business.

Course Outcomes: Upon the successful completion of this course, the student will be able to:

- CO1a: Understand the concept, factors of the business environment and interaction between different environments.
- CO1b: Evaluate the global environment, various laws impacting the business.
- CO2: Understand various government policies, institutions and its role in business.
- CO3: Understand the concept, role and process of EXIM policy, LPG, FDI, WTO, Global environment.
- CO4: Practical learning of SWOT, Stock Exchange and Analysis of companies.

CO/PO MATRIX							
Course Outcomes	PO1	PO2	PO3	PO4	PO5		
COla	3	2	2	3	1		
CO1b	3	2	ESD 1 1	3	1		
CO2	2	2	2	2	2		
CO3	3	2	2	2	3		
CO4	2	2	3	2	1		

- Unit 1: Business Environment-meaning, importance; Environmental Scanning-Meaning, Scope and Process, Internal and External Environment; Interaction between Internal and External Environment; Basic Philosophies of Capitalism and Socialism with their variants; Concept of Mixed Economy.
- Unit 2: Competition Act 2002 (with background of MRTP); FEMA Act 2000 (with background of FERA); Stock Exchange, SEBI Act 1992; Consumerism, Consumer Protection Act 1986 (Consumer Protection Bill 2019).
- Unit 3: Industrial policy in India, Major Changes; Monetary Policies; International Monetary Fund; World Bank; Depository System in India; RBI- Roles, Functions
- Unit 4: Introduction to MSME- Concept, Evolution, their role and significance in economic development, Policies for MSME, Challenges and Opportunities of MSMEs in the current scenario.

Prestige Institute of Management & Research, Gwalion ( a Sikerwar

rof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwalior (M.P.)

Unit 5: Preparation of Project report on MSME; SWOT Analysis of companies.

#### Suggested Readings:

- Cherunilam, F. (2010). Business Environment. Himalaya Publishing
- House. Paul, J. (2010). Business environment. Tata McGraw-Hill Education.
- Shaikh, S. (2010). Business Environment (2/E ed.). Pearson Education India.



Palifa Sikaman

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

Jui)

MBA BAISEMESTER BUSINESS STATISTICS PAPER CODE: MBA\_BA -106

Max. Marks: 100 Min. Marks: 35 External: 60 Internal: 40

Credit-04

## MBA (BA) -106 BUSINESS STATISTICS

Course Objective: This course aims to equip students coming from diverse streams to handle data meaningfully and to ensure that statistics is interpreted correctly.

Course Outcomes: Upon successful completion of this course students will be able to

CO1a: Understand the basics of descriptive and inferential statistics and present appropriate graphical statistics for different types of data.

CO1b: Apply basic descriptive statistics like central value, dispersion, skewness and kurtosis for different types of data.

CO2: Use correlation and regression analyses to determine the relationships between the variables. CO3:

Demonstrate and understand concepts relating to probability and its distribution.

Conduct and interpret a variety of hypothesis tests to aid decision making in a business context. CO4:

	2	CO/PO	MATRIX		
Course Outcomes	PO1	PO2	PO3	PO4	PO5
COla	2	3	3	3	2
CO1b	3	-3	2	1	3
CO2	3	3	2	1	2
CO3	3	3	2	1	2_
CO4	3	3	2	1	2

- Unit 1: Basic concept of Statistics: Importance of Statistics, data collection methods: Primary and secondary data, data classification, data tabulation. Presentation of Data: Bar Diagrams, Histograms, Frequency Polygon, and Frequency Distribution Curves.
- Measures of Central Tendency and Dispersion: Mean, Median and Mode and their Unit 2: implications, Range, Mean Deviation, Standard Deviation, Coefficient of variation (C.V.), Skewness, Kurtosis.
- Correlation: Meaning and types of Correlation, Karl Pearson and Spearman Rank Unit 3: Regression: Meaning, Regression Equations and their Application, Partial and Multiple Correlation and Regression.
- Probability: Concept of Probability and its Uses in Business Decision, Addition and Unit 4: Multiplication Theorems, Bayes Theorem and its applications. Probability Theoretical Distribution: Concept and Application of Binomial, Poisson and Normal Distribution.

Prof. (Dr.) Tarika Singh Controller of Examination

Prestige Institute of Management and Research

Prestige Institute of Management & Research, Gwalior

a Sikarwar

Gwalior (M.P.)

Unit 5: Test of Significance: Sampling Distribution, Formulation of hypothesis, Application of Z-test, t-test, F-test, Chi-square test, Techniques of association of attributes. Introduction to Business Analytics, Use of spread sheet to analyze data: descriptive and predictive analytics.

Suggested Readings:

- Keller, G. (2015). Statistics for Management and Economics, Abbreviated. Cengage Learning.
- Levine, D. M., Berenson, M. L., Stephan, D., & Lysell, D. (1999). Statistics for managers using Microsoft Excel (Vol. 660). Prentice Hall Upper Saddle River, NJ.
- Beri, G. C. (2009). Business Statistics, 2E. Tata McGraw-Hill Education.
- Black, K. (2019). Business statistics: for contemporary decision making. John Wiley & Sons.s



Palifa Sikawar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

Ser

MBA\_BA I SEMESTER
INDUSTRY READINESS
PAPER CODE: MBA\_BA -107

Max. Marks: 50 Min. Marks: 09 External :25 Internal: 25

Credits: 02

#### INDUSTRY READINESS

Course Objectives:

The student is able to develop the required skills to get placement through personality development and communication.

Course Outcomes:

CO1a: Develop knowledge, skills, and practice human communication that enhance their ability to work collaboratively with others.

CO1b: Students will be able to write and handle office communication in an online and offline mode.

/		CO/PO MA	TRIX.		
Course Outcomes	PO1	PO2	PO3	PO4	PO5
CO1a	6-1	-	3	2	3
CO1b		-	3	1	3

Gwalior

Interviews: Online and Off Line

Coverage for Online Interviews: Modes of Conducting Online Interviews (Interview Via E-Applications Like Zoom, Cisco Webex, Google Meet, Google Duo, Google Hangout etc., Telephonic Interviews), Pre-Requisites for appearing for online interviews, Key pints to remember pre, During and Post Interview, Do's and Don'ts of Online Interviews, Evaluation parameters of Online Interview.

Coverage for Offline Interviews: Pre-Requisites for appearing in Offline interviews, Key pints to remember pre, During and Post Interview, Do's and Don'ts of physical Interviews, Evaluation parameters of Offline Interviews Interview.

Areas to be Covered for Both: Appearance, Content, SWOT of candidate as well as organization, Gestures, Postures, Accent, how to defend your resume, Fitment for the Job role.

breine

Palifa Sikarwan

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwallor (M.P.)

Sur

Course curriculum - Fost Graduate Degree Flogramme

Group Discussion: Online and Offline

Communication in Organization

Coverage: Basics of Email Writing to Senior, Colleagues and Junior, Communication via Telephonic call at all level of organization, Selection of words while texting your seniors, Managers, colleagues and Juniors, What need not to be there in your communication via any mode to your Seniors, managers, Colleagues and Juniors, Sample of Professional Email, Text messages, What's App messages, Do's and Dont's while you are communicating at different hierarchical level in your organization, Importance and need of Acknowledgement to communication which you receives at different level in organization, How to greet your seniors, Colleagues and Juniors face to face or via any virtual Mode, Few sample sentences, idioms, Phrases, Salutations for making communication effective

Note: Students should be guided to prepare an office communication report file for the evaluation purpose along with one objective test.



harina

Palifa Sikawar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

# MBA\_BA I SEMESTER INTRODUCTION TO PYTHON FOR BUSINESS ANALYTICS PAPER CODE: MBA BA -108

Total Marks: 50 Min. Marks: 09 External :25 Internal: 25

Credits: 02

#### INTRODUCTION TO PYTHON FOR BUSINESS ANALYTICS (PRACTICAL)

#### Course Objectives:

Upon successful completion of the course, students will be able to

- 1. Predict the result of a given piece of Python code.
- 2. Write Python code to read, write, filter, merge, summarize, and graph a given dataset.
- 3. Analyze data from a variety of industries and uncover business insights.
- 4. Communicate effectively the purpose, methodology, and result of an analysis involving Python to a non-technical business audience.

Course Outcomes: On completion of this course student will be able to learn

CO1a: Understand the basic concept, rules and logic applied on data for analysis with the help of Python.

CO1b: Demonstrate the knowledge through various practical exercises and report to aid decision making in a business context.

	Maria	V	3			0	ľ
 	_	_		_	-	27	_

CO-PO Matrix						
Course Outcomes	PO1	PO2	PO3	PO4	PO5	
CO1a	NA	1	1	NA	2	
CO1b	NA	1	1	NA	2	

Levine

Palifa Sikawar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwallor (M.P.)

12ml

#### Course

- 1. Programming Logic: Introduction to Programming, Python Types, Variables, Statements and Conditional Execution, Functions, Iterations
- 2. Data Structures: Strings and Files, Lists and Dictionaries, Tuples and Set, Pandas DataFrame Basics, Pandas Data Structure, Reading and Writing CSV files
- 3. Basic Analysis: Introduction to Plotting, Data Assembly, Missing Data
- 4. Data Munging: Tidy Data and Data Types, Text Data, Pandas Apply and Groupby Operations
- 5. Case studies

#### Text Books:

- "Python for Everybody" by Charles R. Severance
- "Pandas for Everyone" by Daniel Y. Chen
- · Learning Python, 5th Edition by Mark Lutz, O'reilly

#### Reference Books:

- Python Programming for the Absolute Beginner By Michael Dawson, 2nd Edition, Premier Press, 2003
- Image Processing and Pattern Recognition, Volume 5, 1st Edition, By Cornelius Leondes, Academic Press



barins

Palla Sikawar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwallor (M.P.)

Ser

MBA\_BA I SEMESTER COMPREHENSIVE VIVA PAPER CODE: MBA\_BA -109 Max. Marks: 100 Min. Marks: 35 External: 50 Internal: 50

Credits: 02

#### COMPREHENSIVE VIVA

The students will be evaluated against their learning and course understanding of MBA BA 1<sup>st</sup> semester courses. An external viva voce will be conducted at the end of the semester through the internal examiner appointed by the examination department.

Course Outcomes: CO1: The students are able to conceptualise and demonstrate the understanding of the subjects of MBA BA program in first semester.

Le MARIA

11		CO-	PO Matrix		\
	PO1	PO2	PO3	PO4	PO5
CO1	3	1	3	3	2

Gwalior सा विद्या या विमुक्तये

barine

Palifa Sikawar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

The

MBA BA II SEMESTER MARKETING MANAGEMENT PAPER CODE: MBA\_BA -201

Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

#### MARKETING MANAGEMENT

Course Objective:

The overall objectives are to understand consumers and to identify profitable Marketing strategies. Understand the Marketing context: Market, performance metrics, and role of strategic planning in marketing. Describe marketing strategies of segmenting, targeting, positioning, and differentiation. Know how to use marketing functions of product, pricing, distribution, and marketing communication for a firm's Marketing strategy. Evaluate several customer relationship management (CRM) strategies using analytics.

#### **Course Outcomes:**

On completion of the course students will

**Course Outcomes:** 

On completion of the course students will

CO1a- Undertstand the Various concept related to Marketing management and Marketing

CO1b- Illustrate the various concept related to marketing Segmentation, targeting and positioning

Analyse the concept of Marketing mix and understand role of distribution channels in CO2-

Comprehend the role of promotion mix in marketing. CO3-

Evaluate and Identify the Various aspect of digital marketing and Retailing CO4-

CO/PO MATRIX								
Course Outcomes	PO1	PO2	PO3	PO4	PO5			
COla	2	1 2	I la jand	3	1			
CO1b	2	2	0	3	1			
CO2	2	2	I Park	2	1			
CO3	1	2	2	2	3			
CO4	1	2	1	2	2			

#### INTRODUCTIONTO MARKETING Unit 1:

Definition, Nature, Elements and Scope of Marketing; Marketing concepts; Marketing philosophies. Holistic Marketing, Concept of marketing orientation and consumer orientation; Concept of marketing environment- Micro and Macro. Qualities of Marketing personnel.

MARKETING STRATEGY Unit 2:

Market Segmentation- Purpose and Methods of Marketing Segmentation, Levels of segmentation, Patterns, Bases of Segmentation. Concept of Targeting: Selection of Target Markets, Strategies, Concept of positioning: Types, major errors, Product Differentiations: Variables in Differentiation. Sample corporate segmentation. alsa

Prestige Institute of Management & Research, Gwalior

a Sileannar

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwallor (M.P.)

Unit 3: Marketing Mix

Product Planning - Product Mix Decisions, Product Line, New Product Development, Product Life Cycle; Branding: Brands and Brand strategies; Pricing: Objectives, Methods, strategies; Channel of Distribution(COD): Levels, role, COD Strategies. Role in Value Chain -Inbound and outbound logistics; Promotional Mix: Sales Promotion, Advertisement, personal Selling and Sales Management, Public Relation, Publicity.

Unit 4: E-MARKETING RESEARCH

Data Drive Strategy – Marketing Knowledge Management; Social Media Marketing: defining goals and measurement plans, Categories of Social Media, evaluating ROI; improving post performance; Technology Enabled Approaches in Marketing, Real-Space Approaches, Marketing Databases and Data Warehouses; Data Analysis and Distribution,

Unit 5: RETAIL ANALYTICS

Customer Analytics Overview, Quantifying Customer Value; The digital evolution of retail marketing, Digital natives, Search Engine Optimization: content marketing, search analytics; Website Analytics: common metrics, dimensions, and KPIs; Social Listening: share of voice, sentiment analysis, and other User Generated Content.

Text Books:

 Kotler, P., Keller, K. L., Koshy, A., Jha, M. Marketing Management: A South AsianPerspective. New Delhi: Pearson Education, 14th edn, 2013

Rajan, S. Marketing Management. India: New Delhi: Tata McGraw-Hill Education. 4thedn, 2005

 Digital Marketing: Strategy, Implementation and Practice, Chaffey D., Ellis-Chadwick F., Pearson, 5th Edition, 2012

Reference Books:

 David MeermanScott, "The New Rules of Marketing and PR: How to Use Social Media, Blogs, News Releases, Online Video, and Viral Marketing to Reach Buyers Directly", Wiley4th Edition, Jan 2010

• Karunakaran, K..Marketing Management. New Delhi: Himalaya Publishing House. 3<sup>rd</sup>edition, 2013

 Kumar, A., Meenakshi. Marketing Management. New Delhi: Vikas Publishing HousePvt Ltd., 2nd edition, 2013

Ramaswamy, V. S., Namakumari, S. Marketing Management Global Perspective, Indian Context. New Delhi: Macmillan India Limited. 3rd edition, 2009

Sikawar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

/m/

### MBA\_BA II SEMESTER OPERATIONS AND SUPPLY CHAIN MANAGEMENT

PAPER CODE: MBA\_BA -202

Max. Marks: 100 Min. Marks: 35 External: 60

Internal: 40

#### OPERATIONS AND SUPPLY CHAIN MANAGEMENT

**Course Objectives:** 

The students learn the nuances of forecasting, facility design, location, inventory, aggregate planning; students will also learn elements of supply chain, network design & logistics management, purchasing & vendor management.

Course outcomes: On completion of the course, the students will be able to:

CO1a: Learn the general concepts of supply chain, operations, plant location and layout planning

CO1b: Understand the concepts of forecasting, production planning and capacity planning

CO2: Learn the concepts of aggregate planning and inventory management

CO3: Analyze the network design, logistics management of a firm and purchasing & vendor

management

CO4: Understand the recent issues in supply chain management and role of IT in supply chain

CO-PO Matrix								
Course Outcomes	PO1	PO2	PO3	PO4	PO5			
CO1a	2		3	3	2			
CO1b	3							
CO2	3	2	3	2	2			
CO3	3	2	3	2	3			
CO4		·	2	1	1			

#### Unit 1: Introduction

An overview, Definition of operations management, Responsibilities of Operations Manager, Plant Location, Process selection and design, Layout Planning.

Basic Concepts, Objectives, Essential Features and Benefits of Supply Chain, Evolution of SCM, Various Flows (Cash, Value and Information), Key Issues in SCM.

Numerical problems on deciding plant location through Centroid Method.

Unit 2: Forecasting

Forecasting as a planning tool, Forecasting types and methods (Qualitative and Quantitative).

Capacity Planning

Production Planning techniques, Capacity management, Line of balance, scheduling types and principles.

Numerical problems on Quantitative methods of Forecasting and system capacity & system efficiency.

Prestige Institute of Management & Research, Gwalion

Paila Sikaman 2

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

year.

#### Course curriculum -Post Graduate Degree Programme

Unit 3: Aggregate Planning

Introduction of Aggregate Planning, Techniques for Aggregate Planning, Aggregate Planning in Services, Disaggregating the aggregate plan.

**Inventory Management** 

Inventory Management- Objective, Nature and Importance of Inventories, Requirements for effective Inventories, Inventory Ordering Policies, Inventory control techniques- ABC, VED, EOO, SED, FSN Analysis.

Numerical problems on Inventory control techniques.

#### Unit 4: Network Design and Logistics Management

The role of Network Design in the Supply Chain, Factors influencing Network Design Decisions, Logisticsas part of SCM, Logistics Costs, Different Models, Logistics Sub- System, Inbound and Outbound Logistics, Bullwhip Effect in Logistics, Distribution and Warehousing Management.

#### Purchasing and Vendor Management

Centralized and Decentralized Purchasing, Functions of Purchase Department and Purchase Policies, Single Vendor Concept, Management of Stores, Accounting for Materials.

Practical - Use of Mathematical Model for Vendor Rating / Evaluation.

#### Unit 5: Recent Issues in SCM

Role of Computer/ IT in Supply Chain Management, The Supply Chain IT Framework, Customer Relationship Management, Internal Supply Chain Management, Supplier Relationship Management, The Transaction Management Foundation, The Future of IT in the Supply Chain, Risk Management in IT, Supply Chain IT in Practice.

#### Suggested Readings:

- Stevenson, W. J. (2018). Operations Management, 12th Ed. McGraw Hill Education.
- Krajewski, L. J., Ritzman, L. P., Malhotra, M. K. and Srivastava, S. K. (2011). Operations Management: Processes and Supply Chains, 9<sup>th</sup> Ed. Pearson.
- Chase, R. B., Jacobs, F. R., Aquilano, N. J. (2003). Operations Management for Competitive Advantage, 10<sup>th</sup> Ed. Tata McGraw Hill.
- Mahadevan, B. (2010). Operations Management: Theory and Practice, 2<sup>nd</sup> Ed. Pearson.
- Chary, S. N. (2009). Production & Operations Management, 4th Ed., Tata McGraw Hill.
- Chopra, S., Meindl, P. (2007). Supply Chain Management: Strategy, Planning & Operation, 3<sup>rd</sup> Ed. PHI
- Chopra, S., Meindl, P., Kalra, D.V. (2013). Supply Chain Management: Strategy, Planning and Operation, 5<sup>th</sup> Ed. Pearson.
- ReghuramG. (I.I.M.A.). Logistics and Supply Chain Management, 1<sup>st</sup> Edition.
- Krishnan Dr. G. Material Management, 5 Edition, Pearson.
- Agarwal D.K.A Text Book of Logistics and Supply Chain Management, 1st Edition Macmillan.
- Sahay B.S. Supply Chain Management, 1<sup>St</sup>Edition Macmillan.

Palifa Sikarwar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

Prestige Institute of Management & Research, Gwalior

you

28

MBA BA II SEMESTER CORPORATE FINANCE PAPER CODE: MBA\_BA -203 Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

#### MBA BA -203 CORPORATE FINANCE

Learning Objective:

This course is intended to introduce the basic theory, concepts, and practical applications in corporate finance and to enable students to analyze various corporate decisions.

Course Outcomes: Upon completion of this course, the students will be

CO1a: Understand the fundamentals, various models and agency problems of Corporate Finance.

CO1b: Acquire knowledge about various aspects of cost of capital and capital budgeting techniques for analyzing long-term projects.

Acquaint with the various capital structure theories and practicality of leverage in the CO2: context of business.

Comprehend various dividend models and its applicability. CO3:

Familiar with the concept of working capital and its management. CO4:

Course Outcomes	PO1	PO2	PO3	PO4	PO5
COla	3	3	2	1	2
CO1b	3	3		2	2
CO2	3	3	THE TYPE STATE	No. 1	1
CO3	3	3	3	2	2
CO4	3	3	3	2	2

- Unit 1: Introduction to Finance & Corporate Finance: Corporate Finance, objectives& its scope, Corporate Governance and Agency Problem, Time Value of Money: Present and future value of single payments, annuities, annuities due, and perpetuities - Growth in annuities and perpetuities - Compound interest and continuous compounding - Annual percentage rates and effective annual rates - Mathematics of loans: Discount, Interest only, Full and partial amortization.
- Unit 2: Investment Decision: Concept of Opportunity Cost, Cost of Debenture, Preference and Equity capital, Composite Cost of Capital, Capital Budgeting Decisions, Calculation of NPV and IRR, Case Study.
- Financial Decision: Capital Structure, Capital Structure Theories: Relevance and Irrelevance Unit 3: theory, Leverage analysis - financial, operating and combined leverage along with its implications, EBIT- EPS Analysis, Point of Indifference.
- Unit IV- Dividend Decisions: Dividend Policy, Factors affecting Dividend Policy, Forms of Dividends, Types of Dividend Policies, Dividend Models: Walter and Gordon Model, Miller- Modigliani (MM) Hypothesis.

Prestige Institute of Management & Research, Gwalior ali a Sikarware

Prof. (Dr.) Tarika Singh Controller of Examination

Prestige Institute of Management and Research

Gwalior (M.P.)

#### Course curriculum -Post Graduate Degree Programme

Unit V- Overview of Working Capital Decision: Concept, Components, Factor Affecting working Capital Requirement, working Capital Management: Management of Cash, Inventory and Receivables

#### Suggested Readings

- Graham, J. R., and Harvey, C. R. (2001). The theory and practice of corporate finance: Evidence the field. Journal of financial economics, 60(2). 187-243. http://publicsde.regieenergie.qc.ca/projets/72/DocPrj/R-3807-2012-C-ACIG-0059-DDR-REPDDR-2012 12 20.pdf
- Stulz, R. (1996). Rethinking risk management. Journal of applied corporate finance, 9, 8-25. http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.200.9948&rep=rep1&type=pdf
- Subrahmanyam, (2008)Behavioural Finance: review http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.127.9964&rep=rep1&type=pdf
- Berenson, A. (2004) The Number: How America's Balance Sheet Lies Rocked the World's Financial Markets.http://www.amazon.co.uk/Number-Americas-Balance-FinancialMarkets/dp/0743468090/ref=asap bc?ie=UTF8

#### Text Books

- Khan and Jain Financial Management (Tata McGraw Hill, 7th Ed.)
- Pandey I M Financial Management (Vikas, 11th Ed.)
- William HakkaBettnerCarcello-Financial and Management Accounting (TMH-16th Ed.)
- Sheebakapil-Fundamental of financial management (Wiley, 2015)
- Prasanna Chandra Fundamentals of Financial Management (TMH, 9th Ed.)
- Bark DemazoThampy- Financial Management (Pearson, 2nd Ed.)
- R P Rustagi Financial Management (Galgotia, 2000, 2nd revised ed.)
- Damodaran, A., Applied Corporate Finance, 3rd Edition, Wiley, 2012
- Ravi.M Kishore Financial Management (Taxman, 7th Ed)
- Fundamentals to Financial Management, Brigham & Houston, 14/e, Cengage Learning
- Van Horne Financial Management and Policy (Prentice hall, 2003, 12th Ed.)
- Brealey, R., Myers, S. and Allen, F. (2019), Principles of Corporate Finance, McGraw-Hill

Ela Sikarwar

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research

Gwatior (M.P.)

## MBA\_BA II SEMESTER MACHINE LEARNING& APPLICATIONS PAPER CODE: MBA BA –204

Max. Marks: 100 Min. Marks: 35 External: 60Internal: 40

#### MACHINE LEARNING& APPLICATIONS

**Course Objectives:** The objective of the course is to learn what machine learning is and how it is related to data analysis and statistics. The course will impart knowledge on how various machine learning algorithms search for data patterns which can be used to make decisions and predictions for practical problem solving.

Course Outcomes: Students will be able to:

CO1a: Gain knowledge about basic concepts of Machine Learning

CO1b: Identify machine learning techniques suitable for a given problem

CO2: Understand decision tree and ANN techniques for solving the real problem in machine learning

CO3: Apply the bayes algorithms to in business problem.

CO4: Understand the unsupervised learning techniques and their algorithm for solve the business problem.

		CO/PO	matrix		
Course Outcomes	PO1	PO2	PO3	PO4	PO5
COla	3	1	2	2	3
CO1b	3	2	3	2	2
CO2	3	3 71	T 43 - 3	3	3
CO3	2	3	3	3 /	2
CO4	2	3	3	2	2

- Unit 1: Introduction to Machine Learning: Learning Issues, designing a learning system, perspectives & issues in machine learning, concept learning and general to specific ordering. Overview of different tasks: classification, regression, clustering.
- Unit 2: Categorization of Machine Learning Techniques Categories of machine learning techniques with brief introduction of each category: Decision trees, Bayesian learners, Ensemble learners, neural networks, support vector machines, rule-based learning, search-based techniques.
- Unit 3: Decision Trees and Artificial Neural Networks Decision Trees: Introduction, Tree representation, Appropriate problems, Hypothesis space search, inductive bias, issues. Artificial Neural Networks: Introduction, Network representation, appropriate problems, perceptions, back-propagation.
  Prof. (Dr.) Tarika Singh

Controller of Examination

Prestige Institute of Management and Research

Prestige Institute of Management & Research, Gwalior (M.P.)

Len?

alifa Sikawasi

- Unit 4: Bayesian Learners Bayesian learners: Introduction, Bayes theorem and concept learning, maximum likelihood and least-squared error hypothesis, maximum likelihood hypothesis for predicting probabilities, minimum description length principle.
- Unit 5: Unsupervised Learning Introduction, Clustering & Association, k-nearest neighbor learning, Apriori algorithm for association rule learning problems.

#### Text books:

Mitchell, T. (2013), Machine Learning, McGraw Hill. • Malhotra, R. (2016).

#### Reference Books:

- I.H. Witten & E. Frank (2005), Data Mining: Practical Machine Learning Tools & Techniques, Elsevier, Second Edition.
- Murphy, K.P. (2012), Machine Learning: A probabilistic perspective, MIT Press.
- Mohri, M., Rostamizadeh, A. and Talwalkar, A. (2012), Foundations of Machine Learning, MIT Press.
- Harrington, P. (2012), Machine Learning in Action, Dreamtech Press. Suggested Reading
- Bell, J. (2014), Machine Learning for Big Data: Hands-On for Developers and Technical Professionals, Wiley.
- Haykin, S. (2016), Neural Networks and learning Machines, Pearso



bains

Palifa Sikawar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

par

#### MBA\_BA II SEMESTER HUMAN RESOURCE MANAGEMENT PAPER CODE: MBA BA –205

Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

Credit: 4

#### **HUMAN RESOURCE MANAGEMENT**

#### Course Objective:

1. To enable the students to understand HR Management system at various levels in industries or organizations.

2. To enable them to integrate the understanding of various HR concepts along with the domain concept in order to take correct business decisions

#### Course Outcomes: On completion of the course, the students will be able to:

CO1a: Develop an understanding of the concepts of HRM and essential skill sets required to become HR professional.

CO1b: Contribute to the implementation and evaluation of plans related to employee recruitment, selection, training, retention, and appraisal processes in an organization.

CO2: Integrate the knowledge of HR concepts to take the best managerial decisions.

CO3: Design rationally the salary and compensation structure.

CO4: Create pay slip, offer letter, develop and use HR Metrics and write Job Advertisements.

CO/PO MATRIX							
Course Outcomes	PO1	PO2	PO3	PO4	PO5		
COla	3	3	2	2	2		
CO1b	3	35146	1103	2	1		
CO2	3	21 361	3 114	2	2		
CO3	2	3	3	3	2		
CO4	2	2	2	2	1		

- Unit 1: The Dynamic Environment of HRM: Introduction, Functions, Scope and Significance of HRM; Human Capital in Organizations; Managing Human Resources in Organizations; HR Management Roles, Evolution of HRM, HR Management Competencies and Careers
- Unit 2: Manpower Acquisition: HR planning, Job Analysis- Nature, Methods and approaches, Job Description, Job Specification, Job Evaluation, Recruitment-Types and Sources, Selection Process and Techniques, Role of Technology in recruitment & Selection Training Concept, training process, techniques
- Unit 3: Establishing the Performance Management System: Introduction; Purpose; Appraisals Process, Appraisals Methods, Tools for measuring employee performance Internal Mobility and Separation of Employees Transfer, Promotion and Separation of employees

Employee welfare: A brief introduction

Prestige Institute of Management & Research, Gwalior

Levi Palfa Sikawar 33

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

#### Course curriculum -Post Graduate Degree Programme

Unit 4: Employee Absenteeism: Types of Absenteeism, Controlling Absenteeism;
Employee Turnover: Concept and Types of Employee Turnover
Compensation Management - Components of Pay
Contemporary issues in HRM- HR Audit, HRIS, SHRM, IHRM - A Brief Introduction.

Unit 5: Practical component:

Writing a job advertisement.
Self Appraisal & Peer Appraisal
Offer Letter & Pay Slips
Ask students to collect manpower data of your institute and prepare HR Dashboards.

Suggested Readings:

- Decenzo, D. A., & Robbins, S. P. (2010). Fundamentals of Human Resource Management. John Wiley &Sons, Inc.
- Mathis, R. L., & Jackson, J. H. (2008). Human Resource Management. Thomson South Western.
- Rao, P. (2014). Essentials of Human Resource Management and Industrial Relations. Himalaya Publishing House.

being

Palifa Sikarwar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

Prestige Institute of Management & Research, Gwalior

fer

MBA\_BA II SEMESTER
DECISION SCIENCE
PAPER CODE: MBA\_BA -206

Max. Marks: 100 Min. Marks: 35 External: 60 Internal: 40

#### MBA (BA) -206 DECISION SCIENCE

**Course Objective:** The course aims in providing the students with a comprehensive study of various application areas of decision science through relevant examples. The main objective is to provide necessary mathematical support and confidence to the students to tackle real life problems.

Course Outcomes: On successful completion of the course, students will be able to

CO1a: Know and understand the various techniques of Decision making Environments.

CO1b: Define, Sketch and Apply LP technique to translate a real-world problem.

CO2: Demonstrate and Solve game and sequencing problems.

CO3: Understand the concept of Queuing System and identify variations using SQC tools.

CO4: Familiar with the concept of replacement theory and CPM PERT.

CO/PO MATRIX					
Course Outcomes	PO1	PO2	PO3	PO4	PO5
CO1a	3	2	3	3	2
CO1b	3	2	3	2	2
CO2	3	2	3	2	2
CO3	3	2	3	2	2
CO4	3	2	3	2	2

#### **Unit 1: Operations Research:**

Uses, Scope and Applications of operations research in managerial decision making. **Decision Making Environment:** Decision making under certainty; Uncertainty and Risk situations; Decision tree approach and its applications.

#### **Unit 2: Linear Programming:**

Mathematical formulations of LP models for Product-Mix problem; Graphical and Simplex methods of solving LP problem; Duality. **Transportation Problem:** Various methods of finding initial basic feasible solution: NWCR, LCM and VAM, Optimal solution: MODI method. **Assignment Model:** Algorithm and its applications.

Levine

Talla Sikarwar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

Lors

#### Course curriculum -Post Graduate Degree Programme

Unit 3: Game Theory:

Concepts of game, Two- person Zero-sum game; Pure and Mixed strategy game; Saddle point; Dominance method, Odds method and Graphical method for solving Mixed Strategy game. **Sequencing Problem:** Johnsons algorithm for n jobs and two machines; n jobs and three machines; two jobs and m- machines Problems.

Unit 4: Queuing Theory:

Characteristics of M/M/1 Queue model, Application of Poisson and Exponential distribution in estimating arrival rate and service rate. **Statistical Quality Control:** Meaning; Benefits of SQC; Control chart for variable mean chart, R- chart; Control chart for attributes: c-chart, np-chart, p-chart.

Unit 5: Replacement problem:

Replacement of assets that deteriorate with time, replacement of assets which fail suddenly. **Project Management**: Rules for drawing the network diagram; Applications of CPM and PERT techniques in Project planning and control.

#### Suggested Readings:

• Hillier, F. S., & Lieberman, G. J. (2017). Introduction to Operation Research. McGraw Hills.

 Kapoor, V. K. (2013). Operations Research: Quantitative Techniques for Management. Sultan Chand & Sons

• Taha, H. A. (2017). Operations Research: An Introduction. Pearson education.

Vohra, N.D. (2017). Quantitative Techniques in Management. McGraw Hills.

• Gupta, P.K. & Hira, D.S. (2012). Introduction to Operations Research. S. Chand & Co.

Sharma, J.K. Operations Research. Pearson education.

laine

Palifa Sikawar

Prof. (Dr.) Tarika Singh

Controller of Examination

Prestige Institute of Management and Research

Gwalior (M.P.)

2my

MBA\_BA II SEMESTER
MACHINE LEARNING USING R
PAPER CODE: MBA\_BA -207

Total Marks: 50 Min. Marks: 09 External :25 Internal: 25

Credit: 2

### MACHINE LEARNING USING R (Practical)

Course Objectives: The objective of the course is to learn applications of various machine learning concepts using R language. The course would enable the ability to understand and critically assess available data using machine learning methods.

Course Outcomes: Students will be able to:

CO1a: Understand the basics and use of R programming in terms of constructs, control

statements, string functions.

CO2b: Able to apply and demonstrate the tools, techniques and algorithms to solve business

problem.

CO/PO MATRIX								
Course Outcomes	PO1	PO2	PO3	PO4	PO5			
CO1a	3	3	3	2	1			
CO1b	-3	3	3	3 2	0			

Unit 1: R Basics and Language

Getting and Installing R, The R user Interface, A short R tutorial, R packages. Overview: Expressions, Objects, Symbols, Functions. Syntax: Constants, Operators, Expressions, Control Structures, Accessing Data Structures. R Objects: Primitive object types, vectors, lists, other object types. Symbols and Environment: Symbols, Global environment, environment and functions, exceptions.

Unit 2: Functions and Object Oriented Programming Functions:

Arguments, Return values, Function as arguments, side effects. Object Oriented Programming: Overview, Defining Classes, new objects, accessing slots, working with objects, creating coercion methods, methods, basic classes. High performance R with built in math functions, lookup tables etc.

Unit 3: Working with Data

Entering Data Within R, Entering Data Using R Commands, Using the Edit GUI, Saving and Loading R Objects, Importing Data from External Files, Exporting and Importing Data from Databases. Preparing Data: Combining Data Sets, Transformations, Binning Data, Subsets, Summarizing Functions, Data Cleaning, An overview of R graphics.

Prestige Institute of Management & Research, Gwalfor (Dr.) Tarika Singing Controller of Examination Controller of Examination Controller of Management and Research Prestige Institute of Management and Research Gwalfor (M.P.)

ben

#### Unit 4: Statistics with R

Analyzing Data: Summary Statistics, Correlation and Covariance, Principal Components Analysis, Factor Analysis, Bootstrap Resampling. Probability Distributions: Normal Distribution, Common Distribution-Type Arguments, Distribution Function Families. Statistical Tests for Continuous and Discrete Data, Power Tests: Experimental Design

#### Unit 5: Regression Analysis

Regression Models: A Simple Linear Model, Fitting a Model, Refining the Model, Details About the lm Function, Assumptions of Least Squares Regression, Subset Selection and Shrinkage Methods, Stepwise Variable Selection, Ridge Regression, Lasso and Least Angle Regression. Principal Components Regression and Partial Least Squares Regression. Implementation of Machine Learning models using R.

### Textbooks:

- Adler, J. (2012), R in a Nutshell: A Desktop Quick Reference, O'reilly publications, Second Edition.
- Lantz, B. (2013), Machine Learning with R, Packt publishing Ltd.

## Reference Books

- Lesmeister, C. (2015), Mastering Machine Learning with R, Packt Publishing, First Edition.
- Wickham, H. & Grolemund, G. (2016), R for Data Science: Import, Tidy, Transform, Visualize, and Model Data, O. Reilly Media.
- Gillespie, C., Lovelace, R. (2016), R for Data Science: Import, Tidy, Transform, Visualize, and Model Data, O'Reilly Media.

Gwalion

सा विद्या या विमक्तरे

Strick Land, J.S., Predictive analytics using R, Lulu Inc.

## Suggested Reading

Singh, A. & Ramasubramanian, K. (2016), Machine Learning using R, Apress.

acine

elila Sikarwar

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwalior (M.P.)

Prestige Institute of Management & Research, Gwalior

MBA\_BA II SEMESTER DATABASE & SQL LAB PAPER CODE: MBA BA -208 Total Marks: 50 Min. Marks: 09 External:25 Internal: 25

Credit: 2

## DATABASE AND SQL LAB

### **Course Objectives:**

This course has theory and practical lab session to provide a foundation in data management concepts and database systems. It includes representing information with the relational database model, manipulating data with an interactive query language (SQL) and database programming, database development including internet applications, and database security, integrity and privacy issues.

**Learning Outcomes:** After completion of this course student will be able to CO1a: Understand the concept of Database Management System and ER-Model.

CO1b: Demonstrate the Understanding of relational databases and apply tools for data management using Oracle/MS-Access/MySql.

1		CO-PO N	Matrix	1/2/	
Course Outcomes	PO1	PO2	PO3	PO4	PO5
CO1a	3	2	3	NA	NA
CO1b	2	2	3	NA	NA

## Unit 1: Introduction to database and data models

Database: Definition, purpose of database system, various view of data; database architecture: View/Schema, Logical-view, conceptual-view, physical-view and their interrelationship, transaction management; Data Models: The importance of data models, Basic building blocks, Business rules, The evolution of data models, Degrees of data abstraction.

Unit 2: Database Design, ER-Diagram and Normalization:

Database design and ER Model: overview, ER-Model, Constraints, ER-Diagrams, ERD Issues, weak entity sets, Codd's rules, Relational Schemas: Logical view of data, keys, integrity rules. Relational Database design: features of good relational database design, atomic domain and Normalization (1NF, 2NF, 3NF).

Unit 3: SQL Basics

SQL Data Types, Basic SELECT Statement, Selecting All Columns, Selecting Specific Columns, Writing SQL Statements, Column Heading Defaults, Arithmetic Expressions, Using Arithmetic Operators, Operator Precedence, Using Parentheses, Defining a Null Value, Null Values in Arithmetic Expressions, Defining a Column Alias, Using Column Aliases, Concatenation Operator, Using the Concatenation Operator, Literal Character Strings, Using Literal Character Strings, Duplicate Rows, Eliminating Duplicate Rows

yen'

Unit 4: Restricting and Sorting Data, SQL Function

Limiting Rows Using a Selection, Limiting the Rows Selected, Using the WHERE Clause, Character Strings and Dates, Comparison Conditions, Using Comparison Conditions, Other Comparison Conditions, Using the BETWEEN Condition, Using the IN Condition, Using the LIKE Condition, Using the NULL Conditions, Logical Conditions, Using the AND Operator, Using the OR Operator, Using the NOT Operator, Rules of Precedence, ORDER BY Clause, Sorting in Descending Order, Sorting by Column Alias, Sorting by Multiple Columns; SQL Function: Character Functions, Case Manipulation Functions, Number Functions, Date Functions, Conversion Functions, Elements of the Date Format Model, Using the TO\_CHAR Function with Dates

Unit 5: Displaying Data from Multiple Tables, Aggregate Function, sub-queries

Obtaining Data from Multiple Tables: Cartesian Product, Equijoin, Non-Equijoins, Natural Joins, Cross Join, inner join, outer join, left outer join, right outer join, Full outer Join; Aggregate Function: Group Function, Group function with null values, group by clause, Having Clause; Sub-queries: Single row sub-queries, multiple row sub query, group function and having clause in sub-query, handling null values in sub queries.

- 1. Basics of Relational Model and integrity Constraints
- 2. Data Retrieval from Single Table, Data retrieval with condition
- 3. SQL Function
- 4. Data retrieval from multiple table

5. Sub query



berine

Palifa Sikarwar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

San

## MBA BA II SEMESTER PROJECT- DATA ANALYSIS WITH **PYTHON**

PAPER CODE: MBA\_BA -209

**Total Marks: 100** Min. Marks: 18 External:50 Internal: 50

## Project- Data Analysis with Python

**Course Objectives:** 

This course has practical lab session to provide a foundation in data analysis with python.

Learning Outcomes: After completion of this course student will be able to CO1a: Understand the concept of data analysis with the help of Python.

CO1b: Apply and demonstrate the knowledge of python tools through practical report.

CO-PO Matrix								
Course Outcomes	PO1	PO2	PO3	PO4	PO5			
CO1a	3	2	3	1	1			
CO1b	2	2	3	1	1			

Gwalior

सा विद्या या विम्क्तये

Table Sikerwan

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwallor (M.P.)

MBA\_BA III SEMESTER BIG DATA ANALYTICS PAPER CODE: MBA-BA –301 Max. Marks: 100 Min. Marks: 35 External :60 Internal: 40

### **BIG DATA ANALYTICS**

### COURSE OBJECTIVES:

- Understand the Big Data Platform and its Uses
- Provide an overview of Apache Hadoop
- Provide Concepts and Interfacing with HDFS (Hadoop Distributed File System)
- Provide Basics understanding of Map Reduce and its applicability
- Provide Basics understanding of Hadoop Eco System

## COURSE OUTCOMES: The students will be able to:

CO1a: Understand Big Data and its Business Implications

CO1b: Elaborate the components of Hadoop and Hadoop Eco-System

CO2: Demonstrate the Process Data on Hadoop Distributed File System

CO3: Explain Job Execution in Hadoop Environment

CO4: Analyse Big Data Solutions using Spark

CO/PO MATRIX									
Course Outcomes	PO1	PO2	PO3	PO4	PO5				
COla	3	2	1	3	1				
CO1b	2	3	2	2	1				
CO2	3	3	3	2	2				
CO3	3	3	2	3	2				
CO4	2	2	3	2	2				

## Unit 1: INTRODUCTION TO BIG DATA Analytics

Introduction to big data Analytics, Big Data Platform, Challenges of Conventional Systems - Intelligent data analysis, Nature of Data, Analytic Processes and Tools, Analysis vs Reporting

### Unit 2: Introduction to Hadoop

Basics of Hadoop, History of Hadoop, Architecture of Hadoop, Apache Hadoop, Analyzing Data with Hadoop, Hadoop Streaming, Introduction to Hadoop Echo System

Unit 3: HDFS (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.

a Silcarwar

Prestige Institute of Management & Research, Gwalior

Len's

### Course curriculum -Post Graduate Degree Programme

Unit 4: Map Reduce

Anatomy of a Map Reduce Job Run, Failures, Job Scheduling, Shuffle and Sort, Task Execution, Map Reduce Types and Formats, Map Reduce Features.

Unit 5: Spark

Relationship between Apache Spark and Hadoop Ecosystem, Apache Spark Architecture and how it works, development life-cycle of Apache Spark Applications, Apache Spark use-cases and advanced characteristics

### Text Books

- Tom White "Hadoop: The Definitive Guide" 4th edition, O'reily Media, 2012.
- Seema Acharya, Subhasini Chellappan, "Big Data Analytics" Wiley 2015

### Reference Books

- Michael Berthold, David J. Hand, "Intelligent Data Analysis", Springer, 2007.
- Jay Liebowitz, "Big Data and Business Analytics" Auerbach Publications, CRC press (2013)
- Tom Plunkett, Mark Hornick, "Using R to Unlock the Value of Big Data: Big Data Analytics with Oracle R Enterprise and Oracle R Connector for Hadoop", McGraw-Hill/Osborne Media (2013), Oracle press.



Carine

Palifa Sikerwar

Prof. (Dr.) Tarika Singh Controller of Examination

Prestige Institute of Management and Research
Gwalior (M.P.)

Prestige Institute of Management & Research, Gwalior

hair!

MBA(BA) III SEMESTER Multivariate Data Analysis PAPER CODE: MBA(BA)-302 Max. Marks:100 Min. Marks: 35 External: 60 Internal: 40

## MBA(BA) - 302 Multivariate Data Analysis

The course emphasis on problem based learning focusing on the application of Course Objective: data analysis techniques for addressing the research questions at the heart of their own research projects. Describe the data analysis using the advanced statistical techniques.

Course Outcomes: On successful completion of the course, students will be able to

CO1a: Understand the conceptual foundations of research.

CO1b: Describe sampling design and recognize various tools of measurement of data.

Identify and analyze the essential features of data preparation. CO2:

Describe and demonstrate the predictive analytics, namely, the regression technique. CO3:

Define and understand the various multivariate techniques. CO4:

	1 1				
Course Outcomes	PO1	PO2	PO3	PO4	PO5
CO1a	2	1	3	3	3
CO1b	3	2	3	2	3
CO2	2	3	2	2	2
CO3	3	3	2	2	3
CO4	3	3	3	2	3

**Course Contents:** 

- Unit 1: Conceptual Foundations of Research: Meaning of research and scope of methodology, Identification of problem area, Formulation of research questions, Typology of Research Designs. Overview of quantitative research, conceptual framework in quantitative research. Introduction to academic writing, structure of academic writing.
- Unit 2: Sampling Design and Measurement Tools: Sampling: Process and Types: probability and non probability sampling. Scaling techniques meaning, types of scales-Hypothesis testing Statistical significance, statistical test procedure. Validity: Internal and external validity, Reliability: Factors influencing reliability.
- Unit 3: Data Preparation and Analysis: Data Preparation: editing, coding, data entry. Test of significance: assumptions about parametric and nonparametric tests. Application of statistical software for data analysis.
- Unit 4: Predictive Analysis: Simple linear regression: Coefficient of determination, Significance tests, Residual analysis, Confidence and Prediction intervals. Multiple linear regressions: Coefficient of multiple coefficient of determination, Interpretation of regression coefficients, heterosceda sticity, multi-collinearity, outliers.

Prestige Institute of Management & Research, Gwalior

a Silcamars

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwallor (M.P.)

Len's

Unit 5: Multivariate Designs and Analysis: Introduction to Multivariate methods and analysis: Discriminant Analysis, Factor analysis, Structural equation modelling (SEM), Meta analysis, Mediational Analysis, Canonical Analysis.

Suggested Readings:

- Cooper, D. R., Schindler, P. S., & Sun, J. (2006). Business research methods. New York: Mcgraw-hill.
- Bell, E., Bryman, A., & Harley, B. (2018). Business research methods. Oxford university press.
- Zikmund, W. G., Carr, J. C., & Griffin, M. (2013). Business Research Methods. Cengage Learning.
- Sekaran, U., &Bougie, R. (2019). Research methods for business: A skill building approach. John wiley& sons.



Janua.

(Jen)

Palela Sikarwar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

MBA BA III SEMESTER PRACTICAL LAB ON BIG DATA PAPER CODE: MBA-BA -306

Total Marks: 50 Min. Marks: 09 External:25 Internal: 25

## PRACTICAL LAB ON BIG DATA

### **Objectives:**

CO1a: Understand the need of big data analytics, architecture of Hadoop and techniques to analyse data.

CO1b: Demonstrate the knowledge of big data analytics and implement different file management task in Hadoop.

CO/PO Matric									
Course Outcomes	/ PO1	PO2	PO3	PO4	PO5				
COla	3	3 1/4	2	1	1				
CO1b	3	3	3	1	1				

### Lab Exercises:

- 1. (i) Perform setting up and Installing Hadoop in its two operating modes:
  - Pseudo distributed,
  - Fully distributed.
- (ii) Use web based tools to monitor your Hadoop setup.
- 2. (i) Implement the following file management tasks in Hadoop:
  - Adding files and directories
  - Retrieving files
  - Deleting files
- ii) Benchmark and stress test an Apache Hadoop cluster
- 3. Run a basic Word Count Map Reduce program to understand Map Reduce Paradigm.
  - Find the number of occurrence of each word appearing in the input file(s)
  - Performing a MapReduce Job for word search count (look for specific keywords in a file)
- 4. Stop word elimination problem:
  - Input:
  - A large textual file containing one sentence per line
  - A small file containing a set of stop words (One stop word per line)
  - Output:
  - A textual file containing the same sentences of the large input file without the words appearing in the small file.
  - 5. Write a Map Reduce program that mines weather data. Weather sensors collecting data every hour at many locations across the globe gather large volume of log data, which is a good candidate for analysis with Map Reduce, since it is semi structured and record-oriented. Data available at: https://github.com/tomwhite/hadoopbook/tree/master/input/ncdc/all.
  - Find average, max and min temperature for each year in NCDC data set?

Prestige Institute of Management & Research, Gwalidrof. (Dr.) Tarika Singh

## Course curriculum -Post Graduate Degree Programme

- Filter the readings of a set based on value of the measurement, Output the line of input files associated with a temperature value greater than 30.0 and store it- in a separate file.
- 6. Purchases.txt Dataset
- Instead of breaking the sales down by store, give us a sales breakdown byproduct category across all
- What is the value of total sales for the following categories?
- o Toys
- Consumer Electronics
- o Find the monetary value for the highest individual sale for each separate store
- What are the values for the following stores?
- Reno
- Toledo
- Chandler

Find the total sales value across all the stores, and the total number of sales.

- 7. Install and Run Pig then write Pig Latin scripts to sort, group, join, project, and filter your data.
- 8. Write a Pig Latin scripts for finding TF-IDF value for book dataset (A corpus of eBooks available at: Project Gutenberg)
- 9. Install and Run Hive then use Hive to create, alter, and drop databases, tables, views, functions, and indexes.
- 10. Install, Deploy & configure Apache Spark Cluster.
- 11. Data analytics using Apache Spark on Amazon food dataset, find all the pairs of items frequently reviewed together.
- Write a single Spark application that:
- Transposes the original Amazon food dataset, obtaining a Pair RDD of the type:
- <user\_id> → d> → d> reviewed by user\_id>
- Counts the frequencies of all the pairs of products reviewed together;
- Writes on the output folder all the pairs of products that appear more than once and their frequencies. The pairs of products must be sorted by frequency.

### Text Books

- Tom White "Hadoop: The Definitive Guide" 4th edition, O'reily Media, 2012.
- Seema Acharya, Subhasini Chellappan, "Big Data Analytics" Wiley 2015

Reference Books

- Michael Berthold, David J. Hand, "Intelligent Data Analysis", Springer, 2007.
- Jay Liebowitz, "Big Data and Business Analytics" Averbach Publications, CRC press (2013)
- Tom Plunkett, Mark Hornick, "Using R to Unlock the Value of Big Data: Big Data Analytics with Oracle R Enterprise and Oracle R Connector for Hadoop", McGraw-Hill/Osborne Media (2013), Oracle press.

alla Sikarwar

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research

Prestige Institute of Management & Research, Gwalior

MBA\_BA III SEMESTER DATA VISUALIZATION LAB PAPER CODE: MBA-BA –307 Total Marks: 50 Min. Marks: 09 External :25 Internal: 25

## **Data Visualization Lab**

Course Objectives:

This course covers practical implementation of concepts regarding visualization tools and techniques using Python and Power BI.

**Course Outcomes:** On successful completion of the course, the students will be able to: CO1a: Understand practical concepts of data visualization & storage.

CO1b: Demonstrate knowledge about Python libraries and PowerBI regarding Data Visualization.

CO-PO Matrix										
Course Outcomes	PO1	PO2	PO3	PO4	PO5	÷				
CO1a	3	3	2	NA	NA					
CO1b	3	3	2	NA	NA					

- Unit 1: Introduction to Data Science with Python: The Stages of Data Science, Python Learning Resources, Python Environment and Editors, The Basics of Python Programming, Fundamental Python Programming Techniques: Types of statements, Exception Handling, String Processing, Tabular Data and Data Formats, Python Pandas Data Science Library, Python Lambdas and the Numpy Library, Data Cleaning and Manipulation Techniques, Abstraction of the Series and Data Frame.
- Unit 2: Introducing Data Visualization Techniques: Loading Libraries, Popular Libraries for Data Visualization in Python, Introducing Plots in Python, Data Collection Structures: Lists, Dictionaries, Tuples, Series, Data Frames, File I/O Processing, Regular Expressions,
- Unit 3: Data Gathering and Cleaning: Cleaning Data, Reading and Cleaning CSV Data, Merging and Integrating Data, Reading Data from the JSON Format, Reading Data from the HTML Format, Reading Data from the XML Format, Data Exploring and Analysis, Statistical Analysis, Data Grouping, Iterating Through Groups, Aggregations, Transformations, Filtration.
- Unit 4: Data Visualization: Direct Plotting, Line Plot, Bar Plot, Pie Chart, Box Plot, Histogram Plot, Scatter Plot, Seaborn Plotting System, Strip Plot, Box Plot, Swarm Plot, Joint Plot, Mat plot, lib Plot,
- Unit 5: Case Studies: Data Gathering, Data Analysis, Data Visualization, Findings, Introduction to Power BI, Power BI Desktop Visualizations, Modeling with Power BI, Power BI Service, Practical hands on different datasets using Power BI.

Talifa Sikawar

Prestige Institute of Management & Research, Gwalierof. (Dr.) Tarika Singh

Controller of Examination

Prestige Institute of Management and Research

Gwalior (M.P.)

## Textbooks:

- Dr. Ossama Embarak (ISBN-13 (pbk): 978-1-4842-4108-0), Data Analysis and Visualization Using Python.
- Python Data Visualization Essentials Guide Kalilur Rahman SKU: 9789391030070



hains

Palifa Sikarwar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

MBA\_BA III SEMESTER
SUMMER TRAINING REPORT &
PRESENTATION
PAPER CODE: MBA-BA -308

Total Marks: 100 Min. Marks: 18 External: 50 Internal: 50

### SUMMER TRAINING REPORT & PRESENTATION

The students will be doing up to forty five days summer internship program arranged by the institute in the different organizations after the completion of second semester of program. Students will be evaluated on the basis of their training report and subsequent presentation. The evaluation will be done by external and internal examiner.

Course Outcomes: Upon the successful completion of this course, the student will be able to: CO1a: Acquire practical understanding of management concepts to enhance employability skills.

CO1b: Demonstrate the knowledge and experience gained during training.

		CO-	PO Matrix		
	PO1	PO2	PO3	PO4	PO5
CO1	3	3	2	3	3



leur

Palifa Sikarwar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

you

Prestige Institute of Management & Research, Gwalior

## MBA BA IV SEMESTER ENTREPRENEURSHIP AND SMALL BUSINESS DEVELOPMENT PAPER CODE: MBA-BA-401

Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

## ENTREPRENEURSHIP AND SMALL BUSINESS DEVELOPMENT

Course Objective:

This course introduces the students to the basics of entrepreneurship and small business development and students gain an understanding of how to establish and manage a small business.

Course Outcomes: After the completion of the course, the students will be able to:

Develop the skills and qualities required to be a successful entrepreneur.

Understand the theories of entrepreneurship and the challenges faced by women and rural CO1b: entrepreneurs.

Learn about creating entrepreneurial venture and feasibility studies in project development. CO2:

Analyze and compare the different funding agencies available for training and funding new CO3:

Analyze and compare the different entrepreneurial agencies available for the growth of CO4: Entrepreneurship in India.

1	CO-PO Matrix									
Course Outcomes	PO1	PO2	PO3	PO4	PO5					
COla	3	1	2	3	2					
CO1b	3	1	3	3	3					
CO2	3	3	3	2	2					
CO3	. 3	1	3	2	3					
CO4			2	1 ,	1					

- Unit 1: Evolution and Concept of Entrepreneurship, Concept of Entrepreneur, Corporate Entrepreneurship, Characteristics of Successful Entrepreneurs, Entrepreneurship, Innovation, Invention, Creativity, Business Idea & Opportunities through change in Entrepreneurship, Entrepreneurship as a Career, Changing Role of the Entrepreneur.
- Unit 2: Theories of Entrepreneurship: Innovation Theory by Schumpeter and Theory of High Achievement by McClelland. Role of Women Entrepreneurs, Challenges and Achievements of Women Entrepreneurs. Role and Challenges of Rural Entrepreneurs, and Scope of Small Business Activities in National Economy.
- .Unit 3: Creating Entrepreneurial Venture- Opportunity / Identification and Product/Service Selection: Entrepreneurial Opportunity Search and Identification; Sources of Information; Criteria to Select a Product; Conducting Feasibility Studies; Marketing Feasibility, Technical Feasibility, Finance Feasibility, HR Feasibility etc; Business Plan Formulation; Format of Business Plan with Practical example; Project Report Preparation; Specimen of Project Report. Project Planning and Scheduling using Networking Techniques of PERT/CPM.

Ela Sikarwar

Prestige Institute of Management & Research, Gwallor (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwalior (M.P.)

- Unit 4: Entrepreneurship Training and Development Program, EDP & its Phases, Start-up Process: Development of Support System, Need of License, Capital Issues and Legal Environment of Business; Entrepreneurial Planning and Monitoring. Financial Schemes Offered by Various Financial Institutions Like Commercial Banks, IDBI, ICICI, SIDBI, SFCs, Venture Capital Funding, Angle Capitalist, Subsidies, Grants etc.
- Unit 5: Role of the following Agencies in the Entrepreneurship Development DIC- District Industrial Center, SISI Small Industry Service Institute, EDII Entrepreneurship Development Institute of India, NIESBUD National Institute of Entrepreneurship and Small Business Development, NSTEDB National Science & Technology Entrepreneurship Development Board, NSIC National Small Industries Corporation

## Suggested Readings:

- David, H. (2002). Entrepreneurship: New venture Creation. India: Prentice Hall.
- Desai, V. (2018). Dynamics of Entrepreneurship Development (6th edition), Mumbai: Himalaya Publishing House.
- Dollinger, M. (2007). Entrepreneurship: Strategies and Resources (4th edition), Marsh Public.
- Nagarajan, K. (2010). Project Management (6th edition), New Age Internal Pvt. ltd.
- Taneja, S., & Gupta, S. (2017). Entrepreneurship Development New Venture Creation (2<sup>nd</sup> edition), Galgotia Publishing.

beine

Palifa Sikawar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwallor (M.P.)

you

MBA\_BA IV SEMESTER CYBER SECURITY & LAW PAPER CODE: MBA-BA -402 Max. Marks: 100 Min. Marks: 35 External :60Internal: 40

### CYBER SECURITY & LAW

Course Outcomes: At the completion of the course, students would be able to:

CO1a: Identify and resolve security issues in networks and computer systems to secure any public or private organization

CO1b: Understand the concept of Cyberspace and Regulation of cyberspace

CO2: Apply the branches of law, jurisdictional boundaries and cybersecurity law enforcement.

CO3: Analyze the concept and impact of E-commerce on business models and strategy

CO4: Recommend a legal defence against data breaches or cybercrime civil or criminal proceedings

CO/PO MATRIX										
Course Outcomes	PO1	PO2	PO3	PO4	PO5					
CO1a	3	3	2	2	2					
CO1b	2	3	1	2	3					
CO2	2	1	1	3	2					
CO3	2	2	2	3	3					
CO4	2	1	2	3	2					

Unit 1: Computers and Cyber Security

Introduction to Computers, Classification, Computer Input-Output Devices, Computer Security Terms, Computer Ethics, Business and Professional Ethics, Need for cyber security; Cyber Frauds and crimes, Digital Payments, Various Search Engines.

Unit 2: Cyberspace

Introduction to Cyberspace, Regulation of cyber space – introducing cyber law, Scope of Cyber laws – e-commerce; online contracts, IPRs (copyright, trademarks and software patenting); e-taxation, e-governance and cyber crimes, Human rights in cyberspace, International Cooperation in investigating cybercrimes, Challenges to Fighting Cybercrime.

Unit 3: Cyber Laws

Need for Cyber Rules & Regulations; Scope and Significance of Cyber laws: Information Technology Act 2000; Amendments in IT Act, Network and Network Security, Access and Unauthorized Access, Data Security, E Contracts and E Forms. Penal Provisions for Phishing, Spam, Virus, Worms, Malware, Hacking, Trespass and Stalking

Unit 4: E- Commerce

Definition of E-commerce, Introduction to E-Commerce-UNCITRAL, Types of E-commerce, Important Issues in Global E-commerce, Electronic signatures – technical issues and legal issues, Electronic Contracts – E-Commerce Trends and Prospects, E-commerce and Taxation, E-commerce and Banking – Online Credit Card Payments, Ecommerce and Retailing – E-Commerce and Corporate finance.

Prestige Institute of Management & Research, Gwalior

Prestige Institute of Managem

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwallor (M.P.)

bois

Unit 5: Cyber security & Data Privacy Laws

Legal framework of Data Privacy, Need for Data Privacy Laws, Right to privacy under Indian Constitution, Data Privacy and Confidentiality.

### Reference Books:

- K.L. James, The Internet: A User's Guide, 2003, Prentice Hall of India, New Delhi.
- Brijendra Singh, Network Security and Management, Prentice Hall of India, New Delhi.
- Trevor Arden, GNVQ core Skills-Information Technology, 2nd Ed, 1995, Pitman Publishing, London.
- Kamlesh N. Agarwala & Murali D. Tiwari (Ed.) I.T. and Indian Legal System, Macmillan India Ltd. New Delhi
- T. Ramappa, Legal Issues in Electronics Commerce, Macmillan India Ltd, New Delhi;
- Indian Law Institute, Legal Dimensions of Cyber Space, New Delhi.
- Rodney Ryder, Guide to Cyber Law 2003, Pro Law Publications.
- Justice Yatindra Singh, Cyber Laws, Universal Law Publishing, UP, 2016.
- Faroug Ahmed, Cyber Law in India, Allahabad Law Agency, 2015
- Karnika Seth, Computers, Internet and New Technology Laws-A Comprehensive Reference Work With Special Focus On Developments In India, LexisNexis, Nagpur, 2016.
- Kamath Nandan: Law relating to Computer, Internet and E-Commerce, Universal Law Publishing, UP, 2007.



Palifa Sikarwar

Laine

Prestige Institute of Management & Research, Gwalior

Low

## MBA\_BA IV SEMESTER DISSERTATION REPORT & VIVA VOCE

PAPER CODE: MBA-BA -406

Total Marks: 100 Min. Marks: 18 External :50 Internal: 50

## DISSERTATION REPORT & VIVA VOCE

Students will be doing one MRP project in the field of Management and IT. They need to prepare a dissertation report file with the help of assigned faculty guide. Students will be evaluated on the basis of Dissertation Report & Viva Voce by external and internal examiner.

Course Outcomes: Upon the successful completion of this course, the student will be able to:

CO1a: Understand the components of Research and identify research problem.

CO1b: Interpret and demonstrate the findings.

11



frações

Par,

Palifa Sikerwar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

MBA\_BA IV SEMESTER
PREDICTIVE ANALYTICS USING SPSS
PAPER CODE: MBA-BA -407

Total Marks: 100 Min. Marks: 35 External :50 Internal: 50

### PREDICTIVE ANALYTICS USING SPSS

COURSE OUTCOMES: The students will be able to:

CO1a: Understand appropriate and relevant fundamental of predictive analytics.

CO1b: Analyze, and interpret the data using the various methods.

	CO-PO Matrix									
Course Outcomes	PO1	PO2	PO3	PO4	PO5					
CO1a	3	2	3	-1	1					
CO1b	3	2	3	1	1					

Unit 1: Introduction to Analytics

Introduction to Analytics, Analytics in Decision Making, Game changers & Innovators, Predictive Analytics, Experts view on Analytics

Unit 2: Simple Linear Regression (SLR) & Multiple Linear Regression (MLR)

Case-let Overview, Introduction to Regression, Model Development, Model Validation, Multiple Linear Regression, Estimation of Regression Parameters, Model Diagnostics, Dummy, Derived & Interaction Variables, Multi-collinearity, Model Deployment, Demo using SPSS.

Unit 3: Logistic Regression

Discrete choice models, Logistic Regression, MLE Estimation of Parameters, Logistic Model Interpretation, Logistic Model Diagnostics, Logistic Model Deployment, Demo using SPSS.

Unit 4: Decision Trees and Unstructured Data Analysis

Introduction to Decision Trees, CHI-Square Automatic Interaction Detectors (CHAID), Classification and Regression Tree (CART), Analysis of Unstructured data, Naive Bayes algorithm, Demo using SPSS.

Unit 5: Forecasting and Time series Analysis

Forecasting, Time Series Analysis, Additive & Multiplicative models, Exponential smoothing techniques, Forecasting Accuracy, Auto-regressive and Moving average models, Demo using SPSS.

Reference Material

- Abbott, D. (2014). Applied predictive analytics: Principles and techniques for the professional data analyst. John Wiley & Sons.
- Bradlow, E. T., Gangwar, M., Kopalle, P., &Voleti, S. (2017). The role of big data and predictive analytics in retailing. Journal of Retailing, 93(1), 79-95.
- Eckerson, W. W. (2007). Predictive analytics. Extending the Value of Your Data Warehousing Investment. TDWI Best Practices Report, 1, 1-36.

a Silcarwar

- Larose, D. T. (2015). Data mining and predictive analytics. John Wiley & Sons.
- Manuals of SPSS Modeler

Manuals of SPSS Statistics

Prof. (Dr.) Tarika Singh Controller of Examination

Prestige Institute of Management and Research

Gwal

bein's

Siegel, E. (2013). Predictive analytics: The power to predict who will click, buy, lie, or die. John Wiley & Sons.



- Marine

Palifa Sikawar

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwallor (M.P.)

MBA BA IV SEMESTER MANDATORY NON CGPA **ELECTIVE** PAPER CODE: MBA-BA VAC

Max. Marks: 00 Min. Marks: 00 External:00 Internal: 00

### CERTIFICATION COURSE FROM NPTEL/SWAYAM

Students must complete a certificate from NPTEL/ SWAYAM platform in the field of management and IT. The topic will be decided by the student himself. Student has to submit the proof of certificate completion to the institute.

CO1: to gain technical skill and competitive edge for better performance in fierce business environment.

CO/PO MATRIX										
Course Outcomes	PO1	PO2	PO3	PO4	PO5					
CO1: to gain technical skill and competitive edge for better performance in fierce business environment.	1	2	1	0	2					

l'alla Sikarwar

Prof. (Dr.) Tarika Singh

Controller of Examination

Prestige Institute of Management and Research Gwalior (M.P.)

Prestige Institute of Management & Research, Gwalior

Discipline Specific Electives (Choose any four from the group)

The student must choose two discipline specific electives in the III (third) and IV (fourth) semester each.

Code.	S. No.	Paper	Semester	
DSEC-01	1	Social Media & Web Analytics	Ш	
DSEC-02	2	Marketing Analytics	IV	
DSEC-03	3	Financial Analytics	Ш	
DSEC -04	4	HR Analytics	IV	
DSEC -05	5	Retail Analytics	IV	
DSEC -06	6	Data Management and Ethics	IV	
DSEC -07	7	Digital Marketing Analytics	m	
DSEC -08	8	Time Series Analysis	ш	

laine

Palifa Sikawar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

blin's

## MBA\_BA III SEMESTER SOCIAL MEDIA & WEB ANALYTICS PAPER CODE: DSEC-01

Max. Marks: 100 Min. Marks: 35 External: 60 Internal: 40

### SOCIAL MEDIA AND WEB ANALYTICS

Learning Objectives: The aim of this course is to showcase the opportunities that exist today to leverage the power of the Web and social media and to equip students with skills to collect, analyze and derive actionable insights from web clickstream, social media chatter, usability testing and experiments. A key feature of this course is the use of hands-on software tools for analyzing web and social media interactions.

### Course Outcome

CO1a: Understand the role of web analytics within the digital marketing landscape

CO1b: Identify, define and interpret commonly used web metrics and KPIs

CO2: Understand analytical methods to transform social media data into marketing insights

CO3: Understand how to effectively use insights to support website design decisions, campaign optimization, search analytics

CO4: Analyse unstructured data such as Social Media comments, customer reviews to understandthe sentiments of the customers.

CO-PO Matrix						
Course Outcomes	PO1	PO2	PO3	PO4	PO5	
COla	2	2	1	2	3	
CO1b	2	2	2	2	2	
CO2	2	2	2	2	2	
CO3	1	2	2	2	2	
CO4	1	1	1	1	1	

Unit 1: Social Media & Analytics: Introduction to Social Media, Social Media Landscape, Social Media Analytics & its Need. SMA in Small and Large Organisations; Application of SMA in Different Social Media Platforms.

Introduction to Web Analytics: Definition, Process, Key Terms: Site References, Keywords and Key Phrases; Building Block Terms: Visit Characterization Terms, Content Characterization Terms, Conversion Metrics; Categories: Offsite Web, on Site Web; Web Analytics Platform, Web Analytics Evolution, Need of Web Analytics, Advantages & Limitations.

Unit 2: Network Fundamentals: The Social Networks Perspective - Nodes, Ties and Influencers, Social Network, Web Data and Methods.

Data Collection and Web Analytics Fundamentals: Capturing Data: Web Logs, Web Beacons, Java Script Tags, Packet Sniffing; Outcome Data: E-commerce, Lead Generation, Brand/ Advocacy and Support; Competitive Data: Panel Based Measurement, ISP Based Measurement, Search Engine Data;

Prestige Institute of Management & Research, Gwalior

Palifa Sikawan

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

## Course curriculum -Post Graduate Degree Programme

Organizational Structure. Type and Size of Data, Identifying Unique page Definition, Cookies, Link Coding Issues.

Unit 3: Web Metrics & Analytics: Common Metrics: Hits, Page Views, Visits, Unique Page Views, Bounce, Bounce Rate & its Improvement, Average Time on Site, Real Time Report, Traffic Source Report, Custom Campaigns, Content Report, Google Analytics; Key Performance Indicator: Need, Characteristics, Perspective and Uses.

Graphs and Matrices- Basic Measures for Individuals and Networks. Random Graphs & Network Evolution, Social Context: Affiliation & Identity

Web analytics Tools: A/B testing, Online Surveys, Web Crawling and Indexing. Natural Language Processing Techniques for Micro-Text Analysis

Unit 4: Facebook Analytics: Introduction, Parameters, Demographics. Analyzing Page Audience: Reach and Engagement Analysis. Post-Performance on FB; Social Campaigns: Goals and Evaluating Outcomes, Measuring and Analyzing Social Campaigns, Social Network Analysis Like Instagram, Twitter, LinkedIn, YouTube etc. AdWords, Benchmarking, Categories of Traffic: Organic Traffic, Paid Traffic;

Google Analytics: Brief Introduction and Working, Google Website Optimizer, Implementation Technology, Limitations, Performance Concerns, Privacy Issues.

### Unit 5

Practical: Students should analyze the social media of any ongoing campaigns and present the findings.

### Text Book

- Avinash Kaushik, Web Analytics 2.0: The Art of Online Accountability and Science of Customer Centricity, John Wiley & Sons; Pap/Cdr edition (27 Oct 2009)
- Tom Tullis, Bill Albert, Measuring the User Experience: Collecting, Analyzing, and Presenting Usability Metrics, Morgan Kaufmann; 1 edition (28 April 2008)
- Sterne, Social Media Metrics: How to Measure and Optimize Your Marketing Investment, John Wiley & Sons (16 April 2010) (B) Brian Clifton, Advanced Web Metrics with Google Analytics, John Wiley & Sons; 3rd Edition edition (30 Mar 2012)

alla Sikaman

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwalior (M.P.)

Prestige Institute of Management & Research, Gwalior

# MBA\_BA IV SEMESTER MARKETING ANALYTICS PAPER CODE: DSEC-02

Max. Marks: 100 Min. Marks: 35 External: 60 Internal: 40

### **ELECTIVE - MARKETING ANALYTICS**

**Course Objectives** 

This course will provide students with an introduction to marketing analytics.

The students will learn various tools for generating marketing insights from data in such areas as segmentation, targeting and positioning, satisfaction management, customer lifetime analysis, customer choice, product and price decisions using conjoint analysis, and text analysis and search analytics.

### **Course Outcomes:**

CO1a: Understand various marketing models and metrics

CO1b: Demonstrate Competitive analysis

CO2: Explain Price analytics

CO3: Understand Promotion analytics CO4: Understand Sales analytics

CO/PO Matrix						
Course Outcomes	PO1	PO2	PO3	PO4	PO5	
CO1a	2	3	1	2	1 5	
CO1b	3	3	3	2	1	
CO2	3	3	3	2	1	
CO3	3	3	2	3	1	
CO4	2	3	2	2	2	

- Unit 1: Introduction to marketing analytics, models and metrics, Market Insight: Market terminology, market data sources, market sizing, pestle market analysis, porter five forces analysis. Market segmentation: creating segments using cluster analysis.
- Unit 2: Competitive Analysis: Competitive information, analysis and action process. Product and Service Analytics: Conjoint analysis, decision tree models, portfolio resource allocation, product and service metrics, attribute preference testing.
- Unit 3: Price analytics: pricing techniques and assessments, profitable pricing, pricing for business markets, price discrimination. Distribution Analytics: Distribution channel characteristics, retail location selection, channel evaluation and selection, multi-channel distribution, distribution channel metrics.
- Unit 4: Promotion Analytics: Promotion budget estimation, promotion budget allocation, promotion metrics for traditional and social media. Social media analytics. Data mining. Online Advertising, Pay Per Click (PPC), Google Adsense. Measuring advertising effectiveness.

Prestige Institute of Management & Research, Gwalior

Prof. (Dr.) Tarika Singh Controller of Examination

Prestige Institute of Management and Research Gwalior (M.P.)

ar Palla Sikerwar

Unit 5: Sales Analytics: Consumer sales process, ecommerce sales model, sales metrics, profitability metrics, support metrics. Sales forecasting methods; Simple moving method, weighted moving average method, exponential smoothening method, regression method. Trend analysis. Measuring customer satisfaction: Swedish customer satisfaction barometer, American customer satisfaction index.

### Reference Books

- Bendle, N.T., Farris, P.W., Pfeifer, P.E., Reibstein, D.J. Marketing Metrics, Pearson Education, Third Edition.
- Grigsby, M. (2018). Marketing Analytics: A Practical Guide to Improving Consumer Insights Using Data Techniques. Kogan Page Publishers.
- Sorger, S. (2013), Marketing Analytics: Strategic Models and Metrics, Admiral Press.
- Venkatesan, R., Farris, P., Wilcox, R.T. (2014), Cutting Edge Marketing Analytics: Real World Cases and Data Sets for Hands On Learning, Pearson Education.
- Winston, W. L. (2014). Marketing analytics: Data-driven techniques with Microsoft Excel. John Wiley & Sons.



frains

Palifa Sikawar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwallor (M.P.)

"

yein'

MBA BA III SEMESTER FINANCIAL ANALYTICS PAPER CODE: DSEC-03

Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

## MBA(BA) 303: FINANCIAL ANALYTICS

Learning Objectives

The Objective of the course is to facilitate students to appreciate empirical issues and help identify research questions in the finance areas discussed along with the analytical tools for financial decision making.

Course Outcomes: After Completion of the course, student will be:

Understand the concept, need of Financial Analytics and time value of money. CO1a:

Possessing knowledge of Financial Market Structures, Asset pricing theories and the optimal CO1b: portfolio

Applying Volatility and Risk Model for forecasting CO2:

Analysing Risk Measurement technique for financial Institution. CO3:

Estimate derivative price and interoperating different issues in International Finance. CO4:

DSEC-03 Financial Analytics						
Course Outcomes	PO1	PO2	PO3	PO4	PO5	
CO1a	3	2		2	_	
CO1b	3	3	3		2	
CO2	3	3	2	201	_	
CO3	3 0	Livy	MITRE	2	2	
CO4	3	3	2	3	2	

- Unit 1: Introduction to Financial Analytics: Definition, relevance and scope financial Analytics, recent trends in financial analytics Financial Time Series and Their Characteristics: Asset Returns, Distributional Properties of Returns, Review of Statistical Distributions and properties of financial time Series.
- Unit 2: Financial Market, Microstructure Issues (of Bond & Stock Market), Liquidity in Short term and Long term market segments. Asset Portfolio Models: Basics of portfolio construction, Markowitz Theorem, Capital Asset Pricing Model, Diversification and Portfolio Optimization
- Unit 3: Modeling Volatility and Risk: Characteristics of volatility. Modeling volatility using ARCH/GARCH models. Volatility Estimation in Financial Market Turbulence, Measuring and modeling risk. Application of Value at Risk (VaR)
- Unit 4: Risk Measurement in Financial Institutions, Measuring Market and Credit Risks, Modeling Credit Risk: Corporate Liabilities as contingent claims, Endogenous default boundaries and optional Capital Structure, Intensity Modeling, Rating based term-structure models,

Prestige Institute of Management & Research, Gwalion 64

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwalior (M.P.)

## Course curriculum -Post Graduate Degree Programme

### Text Books

- Frank, C. R., Jr.: Statistics and Econometrics, Holt, Rinehart and Winston, New York, 1971.
- Goldberger, Arthur S.: Introductory Econometrics, Harvard University Press, 1998.
- Gujarati, Damodar N.: Essentials of Econometrics, 2d ed., McGraw-Hill, New York, 1999.
- Hill, Carter, William Griffiths, and George Judge: Undergraduate Econometrics, John Wiley & Sons, New York, 2001.

### Reference Books

- Hu, Teh-Wei: Econometrics: An Introductory Analysis, University Park Press, Baltimore, 1973
- Katz, David A.: Econometric Theory and Applications, Prentice Hall, Englewood Cliffs, N.J., 1982.
- Klein, Lawrence R.: An Introduction to Econometrics, Prentice Hall, Englewood Cliffs, N.J., 1962

Capital Assets Pricing Model, Arbitrage Pricing Theory, Conditional CAPM Term Structure Modeling and Yield Curve Building, Idiosyncratic factors affecting yield and prices in bond markets, YC and the Economy.

barine

Palifa Sikawar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwallor (M.P.)

Len

Prestige Institute of Management & Research, Gwalior

MBA BA IV SEMESTER HR ANALYTICS PAPER CODE: DSEC-04

Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

### HR ANALYTICS

Credit-04

Course Objectives: Course will cover the application part of Human Resource Management explaining the quantitative and qualitative analysis to understand the workforce demographics and the art of work force development

Course Outcomes: Through this course student will:

CO 1a: Introduces the theory, concepts, and business application of human resources data, metrics and systems.

CO 1b: Business application of human resources research, data, metrics, systems, analyses, and reporting.

CO2: Examine actual business cases and apply problem solving and critical thinking skills through group case studies

CO3: Understand the application of quantitative and qualitative analysis to understand trends and indicators in human resource data.

CO4: Apply quantitative and qualitative analysis to understand trends and indicators in human resource data.

CO/PO MATRIX							
Course Outcomes	PO1	PO2	PO3	PO4	PO5		
CO1a	3	3	2	2	3		
CO1b	3	3	3	3	2		
CO2	3	3	3	3	2		
CO3	2	3	3	3	2		
CO4	2	3	3	3	2		

### **UNIT 1: HR Analytics in Perspective**

Role of Analytics, Defining HR Analytics, HR Analytics: The Third Wave for HR value creation, HR Measurement journey in tune with HR maturity journey, Understanding the organizational system (Lean), Locating the HR challenge in the system, Valuing HR Analytics in the organizational system, Typical problems (working session)

### **UNIT 2: HRA Frameworks:**

Current approaches to measuring HR and reporting value from HR contributions, Strategic HR Metrics versus Benchmarking, HR Scorecards & Workforce Scorecards and how they are different from HR Analytics, HR Maturity Framework: From level 1 to level 5, HR Analytics Frameworks: (a) LAMP

estige Institute of Management & Research, Gwalior

alifa Sikarwan

Prof. (Dr.) Tarika Singh

Controller of Examination Prestige Institute of Management and Research

Gwalior (M.P.)

## Course curriculum -Post Graduate Degree Programme

framework; (b) HCM:21 Framework and (c) Talent ship Framework, 5 overarching components of an effective Analytics framework.

## **UNIT 3: Basics of HR Analytics:**

Basics of HR Analytics, what is Analytics, Evolution, Analytical capabilities, Analytic value chain, Analytical Model, Typical application of HR analytics.

## **Predictive Analytics:**

Steps involved in predictive analytics: Determine key performance indicator, analyse and report data, interpreting the results and predicting the future. Metrics and Regression analysis and Causation.

## UNIT 4: Insight into Data Driven HRA:

Typical data sources, Typical questions faced (survey), Typical data issues, Connecting HR Analytics to business benefit (case studies), Techniques for establishing questions, Building support and interest, Obtaining data, Cleaning data (exercise), Supplementing data.

## **UNIT 5: HR Metrics**

Defining metrics, Demographics, data sources and requirements, Types of data, tying data sets together, Difficulties in obtaining data, ethics of measurement and evaluation. Human capital analytics continuum.

HR Dashboards: Statistical software used for HR analytics: MS-Excel, IBM- SPSS

### HR Scorecard

Assessing HR Program, engagement and Turnover, Finding money in Analytics, Linking HR Data to operational performance, HR Data and stock performance. Creating HR Scorecard, develop an HR measurement system, guidelines for implementing a HR Scorecard.

## Suggested Readings BooK

- Moore, McCabe, Duckworth, and Alwan. The Practice of Business Statistics: Using Data for Decisions, Second Edition, New York: W.H.Freeman, 2008.
- Predictive analytics for Human Resources, Jac Fitz- enz, John R. Mattox, II, Wiley, 2014.
- Human Capital Analytics: Gene Pease Boyce Byerly, Jac Fitz-enz, Wiley, 2013.
- The HR Scorecard: Linking People, Strategy, and Performance, by Brian E. Becker, Mark A. Huselid, Mark A Huselid, David Ulrich, 2001.
- HR Analytics: The What, Why and How, by Tracey Smith
- The New HR Analytics: Predicting the Economic Value of Your Company's Human By Jac FITZ-ENZ, 2010
- Investing in People: Financial Impact of Human Resource Initiatives (2nd Edition) Hardcover
   —December18,2010.byWayneCascio(Author),JohnBoudreau(Author)ISBN-13:978-0137070923ISBN-10: 0137070926 Edition: 2<sup>nd</sup>
- Fundamentals of Human Resource Management Noe, 5<sup>th</sup> ed.

Palifa Sikawar

Prestige Institute of Management & Research, Gwalior of (Dr.) Tarika Singh

Controller of Examination

Controller of Management and Research

Gwallor (M.P.)

hen

MBA\_BA IV SEMESTER RETAIL ANALYTICS PAPER CODE: DSEC -05 Max. Marks: 100 Min. Marks: 35 External :60 Internal: 40

### RETAIL ANALYTICS

### **COURSE OBJECTIVES**

CO1a: Understand the fundamentals of retail analytics and tools.
CO1b: Use Stata and SPSS for retail advertising and web metrics.
CO2: Understand customer insights by analysing retail data.

CO3: Comprehend in store retail marketing analytics.

CO4: Understand the in-store retail management and operations.

CO/PO MATRIX						
Course Outcomes	PO1	PO2	PO3	PO4	PO5	
CO1a	3	3	3	2	2	
CO1 <sub>b</sub>	2	3	3	2	3	
CO 2	- 3	3	3	2	3	
CO 3	3	3	. 3	2	3	
CO 4	3	2	2	2	2	

### METHODOLOGY

The methodology is predominantly by Case analysis and Computer based Problem Solving, complemented by lecture mode. The students have to undertake a project work in a topic of their interest and product, to apply the concepts studied in the course.

### Unit 1: Introduction to Retail Analytics:

Overview of modern retailing marketplace and understanding technological aspects - Promotion Metrics Customer Analytics Overview; Quantifying Customer Value. Using Stata for Basic Customer Analysis. Introduction to SPSS for retail analysis.

### Unit 2: Advertising/Web metrics:

Promotion Analysis - Syndicated scanner data analysis - Retail POS data analysis. Response Analysis: RFM Analysis, Logistic Regression, Neural Networks and Decision Trees. Role of Ms- Excel in Analysis.

### Unit 3: Consumer Insights: with retail data –

Overall Marketing Metrics – Introduction to R/R-Studio Market Basket Analysis, Trade Area Modeling, Real Estate Site Selection Modeling; Celebrity Marketing: Tracking Effectiveness, House Brand versus Name Brand, E-Business: Clicks and Mortar, Affinity Merchandising: Merchandise Cross-Sell Case Study.

### Unit 4: In-Store Marketing Analysis:

Presentation Understanding the Different Store Designs, Theories Merchandise Placement, All about Pricing, Loyalty Discount Philosophies. Types and Sizes: Retail Store Strategies, Store in a Store, What's in a Store: Convenience Stores to Hypermart Stores

Prestige Institute of Management & Research, Gwalior

| August | Company | C

hem

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalfor (M.P.)

**Store Operations:** Unit 5:

Warehouse Clubs: Paying for the Privilege to Shop, Shopping by Design: Traffic Patterns, Category Management: Science behind the Merchandise Mix, Merchandise Placement: Strategy behind the Placement, Specialty Departments: Coffee, Breakfast, and Pizza, InStore Media: Advertising or Just Displays? Receipt Messages, In-Store Events, Holidays.

## TEXT BOOKS:

Wayne L. Winston (2014). Marketing Analytics-Data-Driven Techniques with Microsoft® Excel, John Wiley & Sons, Inc., Indianapolis, Indiana

Stephen Sorger (2013), Marketing Analytics: Strategic Models and Metrics, Atlantic Publishers and

Distributors.

Hasty and Reardon: Retail Management, McGraw-Hill



Palla Sikerwar

Prof. (Dr.) Tarika Singh

Controller of Examination

Prestige Institute of Management and Research

Gwalior (M.P.)

Prestige Institute of Management & Research, Gwalior

## MBA\_BA IV SEMESTER DATA MANAGEMENT AND ETHICS

PAPER CODE: DSEC -06

Max. Marks: 100 Min. Marks: 35 External: 60 Internal: 40

### DATA MANAGEMENT AND ETHICS

### Course Objective

The objective of the course is

- To provide foundational knowledge on Research Ethics.
- The objective of the course is to understand what research data, the need for managing and sharing research data and the lifecycle continuum of research data.
- The course is also designed to impart the researchers with the knowledge of responsible conduct and research ethics.

### **Course Outcomes:**

At the end of course student will be able to:

CO1a: Understand the significance of data management in research practice

CO1b: Learn and understand the documentation and data Organization to improve data analysis

CO2: Understand and analyse the research ethics and best practices used in research

CO3: Learn to analyse data fabrication and misinterpretation

CO4: Understand and value the need for ethical decision making while performing Research

CO/PO MATRIX							
Course Outcomes	PO1	PO2	PO3	PO4	PO5		
CO1a	3	3	3	2	2		
CO1b	2	3	3	2	3		
CO2	3	3	3	2	3		
CO3	3	3	3	2	3		
CO4	3	2	2	2	2		

### Unit1: Introduction to Data Management

The data problem: What? Why? The data lifecycle: The data life cycle and roadmap, where to start data management? Planning for data management: How to plan for data management? Creating a data management plan, data policies.

## Unit2: Documentation, Organization and Improving Data Analysis

Documentation: Research books and lab notebooks, methods, other useful documentation formats, metadata, standards. Organization: File organization, naming and documenting onventions, databases. Improving data analysis: Raw versus analysed data, preparing data for analysis, managing your research code. Managing sensitive data: Types, keeping data secure, anonymizing data.

## Unit3: Research Ethics: An Introduction

Research Ethics: Best Ethical Practices, Morality vs ethics, Inauspicious beginnings, How science works. Plagiarize and Perish: Ideas, Sentences, Phrases, what is plagiarism really?

Prestige Institute of Management & Research, Gwalior

Palifa Sikaman

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research

Cambler (M.D.)

### Course curriculum -Post Graduate Degree Programme

How many consecutive identical and uncited words constitute- plagiarism? Self-plagiarism and recycling, Tools to discover plagiarism.

Unit4: Research Misconduct: Fabricating data, Falsification and Whistleblowing

Research Misconduct: Fabricating Data: Why cheat? Data fabricator, Detection of image and data misrepresentation. Research Misconduct: Falsification and Whistleblowing: A"can of worms" indeed: the case of Elizabeth "Betsy" Goodwin, Deal with ethical quandaries, Cultivating a culture of openness, integrity, and accountability.

Unit5: Authorship and Grant Proposals

Authorship: Who's an Author on a Scientific Paper and Why: The importance of the scientific publication, who should be listed as an author? How to avoid author quandaries, Authorship other than research papers, The difference between authorship and inventorship and their thoughts. Grant Proposals: Ethics and Success Intertwined: Why funding is crucial, Path to success in funding, Fair play and collaboration, Recordkeeping and fiscal responsibility, Pushing the limits on proposals.

Textbooks

- Briney, K. (2015), DataManagementforResearchers: Organize, maintain and shareyour data for research success (Research Skills), Pelagic Publishing.
- StewartJr., C.N. (2011), Research Ethics for Scientists: A companion for students, Wiley-Blackwell.

ReferenceBooks

- Loue, S. (2000), Textbook of Research ethics: Theory and Practice, SpringerLink.
- Israel, M. & Hay, I. (2006), Research Ethics for Social Scientists, SAGE Publications.
- Pryor, G. (2012), Managing Research Data, Facet publishing.
- Shamoo, A. & Resnik, D.B. (2002), Responsible Conductof Research, Oxford University press, Third Edition.

Lucine

Palifa Sikawan

Prof. (Dr.) Tarika Singh Controller of Examination

Prestige Institute of Management and Research
Gwalior (M.P.)

bei,

MBA\_BA III SEMESTER
DIGITAL MARKETING
ANALYTICS
PAPER CODE: DSEC -07

Max. Marks: 100 Min. Marks: 35 External: 60 Internal: 40

## DIGITAL MARKETING ANALYTICS

Course Objectives:

The aim of the course is to aid students in understanding digital marketing methods from the viewpoint of several parties such as analysts, consumers or entrepreneurs and to inculcate the fundamental concepts of digital marketing. The course includes knowledge of various tools of the trade such as Content analytics tools, audience analysis and content analysis.

Course Outcomes: At the end of course student will be able to:

CO1a: Understand the concept of digital media and impact of technology has on traditional marketing scenario

CO1b: Construct content creation strategy and allocate the content analysis tools Extrapolate the tools of trade with analysing the various user interface.

CO2: Extrapolate the tools of trade with analyzing the various user.

Analyze and optimize existing digital marketing campaigns.

CO4: Comprehend the process of product development and Strategies the various Research Plan related to Consumer

related to Consumer  CO/PO MATRIX							
Course Outcomes	PO1	PO2	PO3	PO4	PO5		
CO1a	2	1	2	2	1		
CO1b	3	3	2	2	1		
CO2	2	2	1	3	2		
CO3	2	2	2	1	2		
CO4	2	1	2	2	1		

## **Unit 1: Introduction**

Understanding the Digital Media Landscape: Digital Media Types, Paid & Owned Media Understanding Digital Analytics Concepts: Owned & Earned Social Metrics, Demystifying Web Data, Searching for the Right Metrics, Paid & Organic Searches, Aligning Digital and Traditional Analytics.

Unit 2: Content creation Strategy

Plan your content, strategy of creating content, Distribute & Promote content, Optimize Website UX & Landing Pages, Measure Impact

Content Analysis Tools: Content Audit and its Checklist, Real-Time Analytics, Optimizing Content Distribution & Content Consumption.

Unit 3: Tools of trade

Tools: Identification, Data Capture, Spam Prevention, Integration with Other Data Sources, Cost, Mobile Capability, API Access, Consistent User Interface, Workflow Functionality, Historical Data, Understanding Social Media Engagement Software, Easy-to-Navigate User Interface, Reliability, Robust Analytics Dashboards, Mobility, CRM Hooks, Social Governance, Monitoring Platform Integration

Prestige Institute of Management & Research, Gwalior (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

Law?

#### Unit 4: Tools: Audience Analysis

Audience Analysis Tools: What Is Audience Analysis? Use Cases, Strategies: Digital, Content & Engagement, Search Engine Optimization, Content Optimization, User Experience Design, Audience Segmentation, Audience Analysis Tool Types.

#### Unit 5: Launching a new product and Formulating Research Plan

Launching a New product: Product Lifecycle, Introduction Phase, Consumer Reaction, Consumer Concerns, Consumer's Unmet Needs, Growth Phase, Product Lifecycle Maturity Phase.

Formulating Research Plan: Developing Source List, Data Sources, Analysis Channels, Search and Source Languages, Research Methods, Hypothesis, Analysis Time Frame, Identifying Project Team, Determining Depth of Analysis, Sentiment Approach, Filtering Spam.

#### Text Books

- C. Hemann& K. Burbary (2013), Digital Marketing Analytics: Making sense of consumer data in a digital world, Que Publishing.
- Venkatesan, R. & Farris, P. (2014), Cutting-Edge Marketing Analytics: Real World Cases and Data Sets for Hands On Learning, Pearson Education.

#### Reference Books

- Winston, W.L. (2014), Marketing Analytics: Data-Driven Techniques with Microsoft Excel, Wiley.
- Sorger, S. (2013), Marketing Analytics: Strategic Models and Metrics, Admiral Press.
- Farris, P.W., Bendice, N.T., Pfeifer, P.E. & Reibstein D.J. (2010), Marketing Metrics: The Definitive Guide to measuring marketing performance, Pearson Education, Second Edition.

hains

Talfa Sikawar

Prof. (Dr.) Tarika Singh

Controller of Examination

Prestige Institute of Management and Research

Gwallor (M.P.)

lior

her

Prestige Institute of Management & Research, Gwalior

73

MBA BA III SEMESTER TIME SERIES ANALYSIS PAPER CODE: DSEC -08

Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

#### TIME SERIES ANALYSIS

Course Objectives

The course has been designed to acquaint the students with the set of modern analytical tools to solve practical problems in finance and bridge the gap between finance theories and practice by building operational models. The objective of this course is to provide knowledge of advanced quantitative and simulation tools to analyse financial data available on the performance of company, industry and economy, for forecasting future financial performance and to present suitable valuations.

Course Outcomes: On completion of this course the students will be able to:

Demonstrate the fundamentals of Time series analysis CO1a:

Develop the understanding of the types of data and functioning of the software CO1b:

Predict the movement in time series data through various techniques CO2:

Understanding the financial data through various multiple regression model CO3:

Examining the asset return volatility through various Models CO4:

CO-PO Matrix								
Course Outcomes	PO1	PO2	PO3	PO4	PO5			
CO1a	1		2					
CO1b	1	3	1					
CO2		3	1		1			
CO3	1	3			1			
CO4		3		1000	1			

**Introduction to Time Series Analysis** Unit 1:

Utility of the Time Series, Components of Time Series - Long term trend or secular trend -Seasonal variations - Cyclic variations - Random variations. Methods of Measuring Trend -Free hand or graphic method.

Introduction of Software and Data Types Unit 2:

Introduction of the Software, Introduction to financial data Analysis Using E-Views, Decision making, Uncertainty, Types of Data, Cross-section Data, Panel Data, Time series analysis, Exponential Smoothing, Classical Linear Regression Model.

Techniques of Financial Data Analysis and Forecasting Unit 3:

Auto Correlation Function, Partial Auto-correlation Function, Correlogram, Stationary and Non stationary Time series, Test of Stationarity, Auto Regressive, Moving Average, ARMA models of Stationary Time Series ARIMA (p, d, q) models for analysis and forecasting of financial data, Diagnostic checking, Q and LB Statistic, Box Jenkins Methodology for ARIMA models.

Prestige Institute of Management & Research, Gwalior

rof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research

Gwaller (M.P.)

alifa Sikaru Tar

Unit 4: Multiple Regression Models Multiple Regression models for financial data, Multiple Regression models for financial data, Co-integration, Vector Auto regression, Vector Error Correction Model, Logit and Probit models.

Unit 5: Modelling Asset Return Volatility
Modelling asset return volatility, ARCH, GARCH and EGARH models for estimating asset price volatility and volatility forecasting (Using MS-Excel and E-Views)

#### Suggested Readings:

• Damodaran, A. (2008). Investment Valuation. John Wiley

Hull, J.C. (2015). Risk Management and Financial Institution. John Wiley

• Brooks Chris, (2002). Introductory Econometrics for Finance, Cambridge Brooks, C. Introductory Econometrics for Finance. Cambridge

 Wayne A. Woodward, Henry L. Gray, Alan C Elliott, Applied Time Series Analyses, October 26, 2011 by CRC Press.

Tsay, R.S. (2010). Analysis of Financial Time Series. (3rded.). New York, NY: John Wiley



bains

Palla Sikarwar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwallor (M.P.)

ben

Generic Electives: Students must choose two generic electives in the third semester and one generic elective in the fourth semester. (Choose any Three from the group)

S. No.	Paper	Semester
1	Consumer Behaviour	III
2	Sales And Distribution  Management	III
3	Human Resource Development And	III
4	Organizational Development Security Analysis & Portfolio Management	IV
5	Business Forecasting & Econometrics	III
6	Compensation Planning	IV
7	Talent Management	IV
8	Service Marketing And Retail Management	IV
9	Branding & Integrated Communication	IV
10	Project Appraisal and Finance	IV

Tabla Sikerwar

Prof. (Dr.) Tarika Singh

Controller of Examination Prestige Institute of Management and Research Gwalior (M.P.)

76

MBA BA III SEMESTER CONSUMER BEHAVIOUR PAPER CODE: MK-01

Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

## MBA MK 01 - CONSUMER BEHAVIOUR

Course Objective

To understand the role of consumer behaviour in marketing and to identify qualitative and quantitative methods of measuring consumer behavior

Course Outcomes: On the completion of the course, the student will be able to:

Understand the application and methods of consumer research CO1a:

Acquire the knowledge of individual determinants of consumer behaviour CO1b:

Understand the facets of group dynamics with reference to consumer behaviour CO2:

Comprehend the communication and consumer decision-making process. CO3:

Describe various models of consumer behaviour and application of CB in industrial CO4:

CO-PO Matrix							
Course Outcomes	PO1	PO2	PO3	PO4	PO5		
CO1a	3	2	3	3	2		
CO1b	3 🕏	3	2	3	3		
CO2	3	2	3	3	3		
CO3	3	3	3	3	3		
CO4	3	2	3	3	3		

- Introduction to Consumer Behavior: Nature and Importance of CB, Application Unit 1: of CB in Marketing Consumer Research Process: Various Methods and techniques of consumers' research, Consumer Research Process, New developments in the field of consumer research.
- Individual Determinants of CB: Motivation: needs/motives & goals, dynamic; Unit 2: Perception: Elements of Perception, Dynamics of Perception, Consumer Imagery, Learning: principles, theories, Personality: Theories, Personality and understanding Consumer Diversity, Brand Personality, self and Self Image, Attitude: Structural model of attitude.

Group Determinants of CB: Unit 3:

Reference group influence: types of consumer relevant groups, factors affecting group influence, application of reference group concept. Family: Functions of family, family decision making, family life cycle (FLC), Opinion Leadership and Personal influence, Diffusion of Innovation: Adoption process. Diffusion process.

Communication and Persuasion: Unit 4:

Communication - Components and Process, Designing Persuasive Communication

Prestige Institute of Management & Research, Gwalior

alla Sikawar

Prof. (Dr.) Tarika Singh Controller of Examination Prestice Institute of Management and Research

Guraller man

Consumer Decision Making Process:- Problem recognition, Information Search and Evaluation, Outlet Selection and Purchase Post purchase behavior.

### Unit 5: Models of CB:

Traditional Models of Consumer Behavior: Economic, Social and Psychological Contemporary Models of Consumer Behavior Nicosia, Howard & Sheth, Engel-Kollat-Blackwell, Input Process Output Model

Industrial Market& and Consumer Behavior-Meaning, scope and characteristics of industrial buyer, Factors affecting industrial buying, Participants in Industrial Buying, Industrial buying process.

#### Text Books

- Leon G. Schiffman and Leslie Lasar Kanuk, Consumer Behavior, Pearson Education, India, 2002.
- Paul Peter et al., Consumer Behavior and Marketing Strategy, Tata McGraw Hill, Indian Edition, 7th Edition 2005

#### Reference Books

- Frank R. Kardes, Consumer Behaviour and Managerial Decision Making, 2<sup>nd</sup> Edition.
- Assel, Consumer Behavior A strategic Approach, Biztranza, 2008.
- Sheth Mittal, Consumer Behavior-A Managerial Perspective, Thomson Asia(P)Ltd., 2003.
- Abbael, Consumer behavior: A strategic approach (Indian edition2005) Wiley 2012.
- Hed, Hoyer. Consumer behavior, 2008 editionWiley2012.
- Das Gupta. Consumer behavior, 2008 edition, Wiley2012.
- Shri Prakash. Theory of Consumer behavior, I edition, Vikas 2012.
- Srabanti Mukherjee, Consumer behavior, Cengage Learning, 2012.

#### Suggested Readings:

- Ajzen,I.(2011).Attitudes,personalityandbehavior(2.ed.,reprint).Maidenhead:OpenUniv.Press.
- Hawkins, D.I., & Mothersbaugh, D.L. (2016). Consumer behavior: building marketing strategy (Thirteent hedition). New York, NY: McGraw-Hill Education.
- Schiffman, L. G., Kanuk, L.L., & Hansen, H. (2012). Consumer behaviour: a European outlook(2<sup>nd</sup>ed). Harlow, England; New York: Pearson Financial Times/Prentice Hall. Why We Buy -The Science of Shopping-Paco Underhill.pdf. (n.d.).

Laine

Palifa Sikarwan

Prof. (Dr.) Tarika Singh

Controller of Examination

restige Institute of Management and Research Gwalior (M.P.)

Prestige Institute of Management & Research, Gwalior 78

MBA\_BA III SEMESTER
SALES AND DISTRIBUTION
MANAGEMENT
PAPER CODE: GE-02

Max. Marks: 100 Min. Marks: 35 External: 60 Internal: 40

## SALES AND DISTRIBUTION MANAGEMENT

#### Course Objective

The objective of the course is to provide an understanding of the concepts, attitudes, techniques and approaches required for effective decision making in the areas of Sales and Distribution, the understanding of the practising manager's problems and dilemmas and to develop the skills critical for generating, evaluating and selecting sales and distribution strategies.

## COURSE OUTCOMES

Course Outcomes: On completion of the course the student will be able to:

CO1a: Understand the concepts of sales management

CO1b: Discuss the various theories of sales management, organizing, staffing, training and

directing sales force operations

CO2: Evaluating and controlling the sales effort and understanding various sales promotion strategies

CO3: Describe the aspects and importance of marketing channel management

CO4: Discuss the approaches and practical aspects of distribution system

		CO-PO M	713		
Course Outcomes	PO1	PO2	PO3	PO4	PO5
CO1a	2	-	3	3	2
CO1b	2				
CO2	2	1	3	2	2
CO3	1	-	3	2	2
CO4	•	-	2	2	2

Unit 1: Introduction of Sales Management:

Meaning and Objectives of Sales Management, Role of Sales Management in marketing, personal selling process and salesmanship, hard sales vs soft sales, setting personal selling objectives and strategies, determining sales-related marketing policies, Techniques of sales forecasting.

Unit 2: Theory of sales Management:

AIDAS theory, 'Right Set of Circumstances' Theory, Buying Formula Theory, Behavioral Equation Theory, Buyer-Seller Dyads, Importance of sales quotas and sales territories.

Organizing, Staffing and Training sales force: Sales organization structures, recruiting and selecting sales people, planning, executing and evaluating sales training programs.

Directing Sales Force Operations: motivating sales personnel, compensating sales people.

Prestige Institute of Management & Research, Gwalior

Ala Sikawaa Prof. (Dr.

Prof. (Dr.) Tarika Singh

Controller of Examination

Prestige Institute of Management and Research

Gwalior (M.P.)

Lut

la

- Unit 3: Evaluating and Controlling the Sales Effort: The sales budget, analysis of sales volume and profitability, evaluating salesperson's performance, Supervisory Styles.
  - Sales Promotion: Designing Sales Promotion Strategies, Consumer-Oriented Tools and Techniques of Sales Promotion, Trade Dealings and Retail Promotions.
- Unit 4: Introduction of Marketing Channels: Meaning and importance of Marketing Channels, Types of channels, Designing Channels, Selection and Recruitment of Channel Partners, Channel Motivation, Channel Relationships Management, Channel Evaluation, Information Systems for Channels.
- Unit 5: Distribution System: Design of distribution system, Vertical Marketing System, Horizontal and Multi-Channel Marketing Systems, Indian Distribution Scenario at Present, Understanding Distribution of services, IT and Logistics & SCM, Performance Measures.

#### Text Books

- Anderson, J. C., Narus, J. A., & Narayandas, D. (2008). Business Market Management: Understanding, Creating, and Delivering Value. 3rd ed. Pearson Prentice Hall.
- Cavale, K. K. H. V. M. (2006). Sales and distribution management: text and cases. Tata McGraw-Hill Education.
- Cavale, K., Havaldar V M. (2006) Sales and distribution management: text and cases. Tata McGraw-Hill Education.
- Hutt, M. D., & Speh, T. W. (2012). Business marketing management: B2B. Cengage Learning. Gupta, S. L. (2009). Sales and distribution management. Excel Books India.
- Venugopal, P. (2008). Sales and distribution management: An Indian perspective. SAGE Publications India.

Lune

Palifa Sikarwar

Prestige Institute of Management & Research, Gwalior

ber"

Gwalior (M.P.)

## MBA BA III SEMESTER HUMAN RESOURCE DEVELOPMENT & ORGANIZATIONAL DEVELOPMENT PAPER CODE: GE-03

Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

Course Objective

The course highlights the interventions of HRD & OD and its application.

Course Outcomes: After completion of course the students will be able to:

CO1a: Understand the concept of HRD, HRD Interventions, OD and OD interventions.

CO1b: Design training & development program.

Develop career development plans and performance appraisal systems in the CO2: organization.

Conduct HRD audit. CO3:

Plan & implement HRD & organizational development interventions. CO4:

CO/PO MATRIX								
Course Outcomes	PO1	PO2	PO3	PO4	PO5			
CO1a	3	3	2	2	3			
CO1b	3	3	3	3	2			
CO2	3	3	3	2	2			
CO3	2	3	3	3	2			
CO4	2	2	2	2	2			

Unit 1: HRD:

Concept, Goals, Importance; History of HRD in India; HRD Interventions; Qualities of HRD Professionals; Present Status of HRD in India.

Unit 2: Training Human Resource:

Nature of Training, Training Need Assessment, Training Design, Training Delivery, Training Evaluation.

Talent Management and Development: Careers and Career Planning, Specific Individual Career Issues, HR Development Approaches: The Integrative Framework, Human Capital Appraisal Approach, HRD Score Card Approach, PCMM Approach

Unit 3: Performance Management System:

Identifying and Measuring Employee Performance; Performance Appraisal; Tools for Measuring Performance Appraisal: MBO, Psychological Appraisal, Assessment Centre, 360-degree & 720-degree Feedback; Potential Appraisal; Competency Mapping and Competency Mapping Model

Prestige Institute of Management & Research, Gwalior

lila Sikarwall

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwallor (M.P.)

Unit 4: HRD Audit:

Concept and Objectives, Methodology, Preparation of HRD Audit, HRD Audit Failures.

Unit 5: Organization Development:

Concept and Definition, Objectives, Process of OD, Interventions of OD-Sensitivity Training, Survey Feedback, Process Consultation Team Building, Intergroup Development, Appreciative Inquiry.

Suggested Readings:

- Rao, T., & Pareek, U. (2007). Designing and Managing HRSystems. New Delhi: Oxford and IBHPublis hingCo. Pvt. Ltd.
- Jones, G.R. (2006). Organizational Theory, Design, and Change. Toronto: Pearson Prentice Hall.
- French, W., & Bel, C.H. (1999). Organization Development: Behavioral Science Interventions for Or ganizationImprovement. Pearson.
- Mathis, R.L., & Jackson, J.H. (2008). Human Resource Management. Thomson South Western.
- McGuire, D. (2014). Human Resource Development, Second Edition. SAGE Publications Ltd.

Jacans Jews

Talla Sikarwan

Prof. (Dr.) Tarika Singh

Controller of Examination Prestige Institute of Management and Research

Gwallor (M.P.)

Prestige Institute of Management & Research, Gwalior

82

MBA\_BA IV SEMESTER SECURITIES ANALYSIS AND PORTFOLIO MANAGEMENT PAPER CODE: GE-04 Max. Marks: 100 Min. Marks: 35 External: 60 Internal: 40

#### SECURITIES ANALYSIS AND PORTFOLIO MANAGEMENT

Course Outcomes: Upon completion of this course, students will be able to:

CO1a: Understand the basics of Capital Market CO1b: Analyze the risk and return of Securities

CO2: Apply the Fundamental and Technical Indicators to predict Stock Market trends

CO3: Demonstrate the Modern Portfolio Management and its application in portfolio selection

CO4: Assess portfolio revision technique and portfolio performance

CO/PO MATRIX						
Course Outcomes	PO1	PO2	PO3	PO4	PO5	
COla	1,4	2		1.	-	
CO1b	2	2	2	1	2	
CO2	2	3	3	3	3	
CO3	3	2	3	1011	1	
CO4	2	1	2	1	2	

#### Unit 1: Investment: Meaning, Investment vs. Speculation:

Characteristics of Investment; Investment Process; Securities Market; Issue of Securities; Initial Public Offer (IPO); Right Issue; Bonus Issue; Private Placement; Listing; Trading; Settlement

#### Unit 2: Valuation of Securities:

Basic Concepts:Return,Risk,IntrinsicValue;ProblemofReturn&Risk;ExpectedReturn, Components of Risk; Measurement of Risk, Variance, Standard Deviation, Security Beta; Calculating & Interpreting Beta, Valuation of Fixed Income Securities; Debentures

andBonds; CurrentYield; YieldToMaturity (YTM); YieldtoCall (YTC); BondDurationValu ationof Equity; Constant Rupee Dividend Model; Constant Growth Model; Multiple Growth Model; Price Earnings (P/E) Approach.

#### Unit 3: Approaches to Security Analysis: Fundamental Analysis:

Economy, Industry and Company Analysis;

**Technical Analysis**: Dow Theory; Elliot Wave; Moving average, Exponential Average; Oscillators; Rate of Change(ROC); Relative Strength Index(RSI); Moving Average Convergence Divergence (MACD); Breadth of the Market;

#### Unit 4: Portfolio Analysis and Selection:

Portfolio Return and Portfolio Risk; Modern Portfolio Theory; Markowitz Theory; William Sharpe's Single Index Model; Capital Asset Pricing Model (CAPM); Arbitrage Pricing Theory(APT); Efficient Market Hypothesis(EMH); Security Market Line(SML)&Capital Asset

Pricing Model (CAPM); Estimate CAPMB eta; Using the CAPM to Calculate

Prestige Institute of Management & Research, Gwalior
Prof. 1

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwallor (M.P.)

The Portfolio Return

Unit 5: Portfolio Evaluation & Revision:

Concept of Portfolio Evaluation, Steps & Methods of Portfolio Evaluation: Sharpe's, Treynor's and Jensen's Measures of Portfolio Performance Evaluation;

Portfolio Revision: Concept, Need, Constraints, Revised Techniques

Suggested Readings:

- Bodie, Z. K. (2005). Investments (6th Edition ed.). New Delhi: Tata McGraw Hill Publishing Company Ltd
- Chandra, I.A.(2012). Investment Analysis and Portfolio Management(Fourth Edition). Published by Tata McGraw-Hill Education Pvt.Ltd
- Jordan,R.J. (1995). Security Analysis and Portfolio Management. (New Delhi, India: Published by Prentice Hall)
- V.A.,A.(1997). Security Analysis and Portfolio Management. New Delhi, India: Himalaya Publishing House
- V. Gangadhar. (2006). Security Analysis and Portfolio Management. Anmol Publications Pvt.Ltd
- Fisher and Jordan. Security Analysis & Portfolio Management-, 6/ePearson, PHI.

Suine

Palifa Sikarwar

Prof. (Dr.) Tarika Singh Controller of Examination

Prestige institute of Management and Research
Gwallor (M.P.)

Prestige Institute of Management & Research, Gwalior 84

har.

### MBA BA IV SEMESTER FINANCIAL ECONOMETRICS PAPER CODE: GE-05

Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

## FINANCIAL ECONOMETRICS

#### Course Objective

The course aims to provide students with the basic framework of Financial Econometrics.

Course Outcomes: In particular, it will benefit students in:

CO1a: Understand the concept of financial econometrics, econometric Models and their estimation

CO1b: Understand the concept of time series & implement various techniques for testing trends and unit root

CO2: Comprehend the concept of regression analysis & identify various models of regression and appraise the use of these models.

CO3: understand the concept and assumptions of multiple regression and further interpret various multiple regression models

CO4: Demonstrate the concepts of validation of regression models and forecasting techniques and further learn to develop research report.

CO-PO Matrix							
Course Outcomes	PO1	PO2	PO3	PO4	PO5		
COla	3	2	2	_	-		
CO1b			_	_			
CO2	3	3	3	1	_		
CO3	3	3	_	1	_		
CO4	2	_	2	3	9-1		

Introduction of Financial Econometrics Unit 1:

Meaning of Econometrics, Econometrics as a separate Discipline; Methodology of Econometrics, Types of Econometrics, specification of Mathematical Model, Estimation of Econometrical Model, Economic Data Types

Sources of Economic Data: Links to Economic Data on the Internet, Interpreting Economic Data, Obtaining the Data

Time series Econometrics: Some basic concepts Unit2:

Testing for Trends and Unit Roots: Stochastic Processes, Unit Root Stochastic Processes, Trend Stationary and Difference Stationary Stochastic Processes, Integrated Stochastic Processes, The Unit Root Test (Dickey Fuller Test, Augmented Dickey Fuller test and Phillips- Perron Test)

Ja Sileannar

Prof. (Dr.) Tarika Singh Controller of Examination

Prestige Institute of Management and Research Gwalior (M.P.)

Unit3: Single Equation Regression Models:

Estimation of Regression Model (OLS)

The Model Interpretation of Regression, The Method of Ordinary Least Squares, The Classical Linear Regression Model: The Assumption Underline, The Method of Least Squares, Standard Errors of Least Squares Estimates, The Coefficient of Determination r<sup>2</sup>: A Measure of Goodness of Fit

Unit4: Multiple Regression Analysis and validation of model assumptions

The Three- Variable Model: Notation and Assumptions, Interpretations of Multiple Regression Equation, The Meaning of Partial Regression Coefficients, OLS and ML Estimation of the Partial Regression Coefficients, The Multiple Coefficients of Determination R<sup>2</sup> and the Multiple Coefficients of Correlation R, R<sup>2</sup> and Adjusted R<sup>2</sup>

Unit5: Validation of Regression Model Assumptions Test

Multi-collinearity, Hetero scedasticity, Auto correlation, Residual normality test

**Time Series Econometrics: Forecasting** 

Approaches to Economic Forecasting, AR, MA and ARIMA Modeling of Time Series Data, Forecasting.

The Research Process: Writing a Research Proposal, A Process for writing a Research Report

Suggested Readings:

 Wooldridge, Jeffrey M.: Introductory Econometrics, South-Western College Publishing, 2000.

• Griffiths, WilliamE., R. CarterHillandGeorgeG. Judge: Learning and Practicing Econo metrics, John Wiley & Sons, New York, 1993.

• Gujarati, Damodar N.: Essentials of Econometrics, 4thed., McGraw-Hill, New York, 2004.

• Hill, Carter, William Griffiths, and George Judge: Undergraduate Econometrics, John Wiley & Sons, New York, 2001.

• Greene, William H.: Econometric Analysis, 4thed., Prentice Hall, Englewood Cliffs, N.J., 2000.

 Patterson, Kerry: AnIntroduction to Applied Econometrics: ATime Series Approach, St. Martin's Press, New York, 2000.

• Campbell, J.L. (1997). The Econometrics of Financial Markets: Princeton University Press, Princeton, N.J.

laine

Palifa Sikarwar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research
Gwalior (M.P.)

Har)

## MBA BA IV SEMESTER COMPENSATION PLANNING

PAPER CODE: GE-06

Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

## COMPENSATION PLANNING

Course Objective

This course will examine the strategic use of compensation systems by management to attract, motivate, retain, and reward employee performance. This course will explore the factors of job evaluation as the basis of compensation strategy offering students an opportunity to develop competencies in making equitable compensation decisions.

Course Outcomes: After the completion of the course, the students will be able to:

CO1a: Summarize the concept & components of compensation.

CO1b: Understand wage determination and administration

CO2: Design compensation structure.

CO3: Analyse the types of benefits available for employees.

CO4: Discuss the challenges of employee compensation.

CO/PO MATRIX							
Course Outcomes	PO1	PO2	PO3	PO4	PO5		
COla	2	-	2	3	2		
CO1b	3	2	2	1	2		
CO2	3	3	3	2	2		
CO3	3	3	2	2	3		
CO4	3	-	3	2	2		

Unit 1: Introduction to Compensation Management:

Concept of Compensation, Factor affecting Employee Compensation, Understanding Elements of compensation structure- Indian Practices, Dimensions; Concept of Reward, Financial and Non-Financial compensation system, Concept of Total Reward System, The 3-P compensation concept.

Unit 2: Employee Behavior and Wages and Salary Administration:

Compensation strategy with HR strategy and business strategy, Wage Boards, Economic and Social objectives of wage policy, Concept of Wages and its types, Wage Differentials. Pay Commissions, Concept of Internal equity, External parity.

Unit 3: Designing Compensation System:

Process of Wage Fixation- Job Analysis, Job Evaluation-Methods Job Pricing, Designing pay ranges and bands, Methods of Payment, Salary Progression, The Total Pay Model.

La Silcerwar

Prof. (Dr.) Tarika Singn Controller of Examination Prestice Institute of Management and Research Gwallor (M.P.)

Prestige Institute of Management & Research, Gwalior

Unit 4: Employee Benefits:

Employee Benefits- Classification, Employee benefit determination process, Retirement Benefits, Incentives, Types of Incentives- Individual and Group, Fringe Benefits-Objectives, Types, Performance and Skill based Pay system, Voluntary Retirement scheme.

Unit 5: Executive compensation and International compensation-

International Compensation, Recognizing Variations, Executive Compensation, Expatriate Pay, Elements of Expatriate Compensation, Strategic Choices In Global Compensation, New Trend with future trend in compensation management.

Suggested Readings:

- Bhatia, D. K. (2009). Compensation Management. India: Himalayas Publishing House.
- Henderson, R. (2007). Compensation Management in a Knowledge Based world. Pearson, 9th

  Edition.
- Newman, J. M., &Milkovich, G. T. (2016). Compensation. Mc Graw Hill Education.



Cours

Palifa Sikarwar

Prof. (Dr.) Tarika Singh Controller of Examination

Controller of Examination

Prestige Institute of Management and Research

Gwallor (M.P.)

alior

han!

MBA BA IV SEMESTER TALENT MANAGEMENT PAPER CODE: GE-07

Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

#### TALENT MANAGEMENT

#### **Course Outcomes**

Upon completion of course, students will be able to:

Understand the concept of Talent management and its relevance to organization.

Analyze Talent management process and its significance. CO1b:

Develop Talent Management strategy and necessary behavioral skills for the CO2: application of various Talent issues.

Understand current practices of talent planning and acquisition strategies. CO3:

Evaluate and understand the best strategies for talent engagement and retention CO4:

CO-PO Matrix								
Course Outcomes	PO1	PO2	PO3	PO4	PO5			
CO1a	3		2	2	2			
CO1b	3	1	2	2	2			
CO2	3	3	2	2	3			
CO3	3	2	3	2	2			
CO4	3	3	3	1	2			

Introduction to Talent Management: Unit 1:

Concept, Talent Management Process, Significance of Talent Management; Introduction to

Talent Management System, Steps to create TMS, Navigating forces Impacting Talent

Management,

Building Blocks of Talent Management: Unit 2:

Competency creating values, Performance Management, Evaluating Employee Potential, Using Talent Management model for Recruitment & Selection

Talent Management Strategy: Unit 3:

Developing a Talent Management Strategy, Mapping Business Strategies and Talent Management. Objectives of Talent Planning, Steps in Strategic Talent

Talent Integration: Leadership & Team Building; Succession Planning Program

Talent Acquisition: Unit 4:

Introduction, Talent Acquisition, Recruiting Process, Strategic Trends in Talent Acquisition, Talent acquisition management solutions.

Integrating Training & Development with Talent Management

Prestige Institute of Management & Research, Gwalior

is Sikarwar

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwallor (M.P.)

Talent Engagement and Retention: Unit 5:

Introduction, Concept of Talent Engagement and Talent Retention, Best Strategies for Talent Engagement and Retention Talent Management Issues, Challenges, Best Practices of Talent Management, Use of IT to support Talent Management System

References

- Lance A Berger, Dorothy R Berger, The Talent Management Handbook, 2e, TMH,
- Ravinder Shukla, Talent Management: Process of Developing and Integrating Skilled Workers, Global India Publications, 2009.
- Marshall Goldsmith, Louis Carter, Best Practices in Talent Management: How the World's Leading Corporations, Wiley, 2010.
- Hugh Scullion, David G. Collings, Global Talent Management, Routledge, 2011.



Tabla Sikarwan

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research

Gwallor (M.P.)



## MBA BA IV SEMESTER SERVICE MARKETING AND RETAIL MANAGEMENT

PAPER CODE: GE-08

Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

#### SERVICE MARKETING AND RETAIL MANAGEMENT

#### Course Objective

The course aims to disseminate the in sights of services marketing and retail management and the latest changes in services and retail formats.

**Course Outcomes:** On completion of the course students will be able to:

CO1a: Understand the concepts of service attributes and determinants of the service

marketing mix.

Learn the Service Quality Model and analyze the behavioural aspects of CO1b:

customer buying.

Understand the concept of Retailing and Retail Mix. CO2:

CO3: Discuss the Retail industry in India and Various Retail Formats.

CO4: Understand and Analyze appropriate strategies for Store Location,

Merchandise Planning, Store Designing and operations and Store

Employees.

CO/PO MATRIX								
Course Outcomes	PO1	PO2	PO3	PO4	PO5			
COla	2	2	3	3	3			
CO1b	2	2	3	3	3			
CO2	2	2	3	3	3			
CO3	2	3	3	3	3			
CO4	2	2	2	3	2			

- Understanding Service Markets, Products and Customers: Introduction to Services, Unit 1: what are Services? Why Services Marketing? Service and Technology, Characteristics of Services and their Resulting Implications, Services Marketing Mix: Traditional Marketing Mix and Extended Mix for Services; The Gaps Model of Service Quality: The Customer Gap, The Providers Gap, The3 stage model of service consumption.
- Building the Service Model: Customer Expectations of Service: Service Unit 2: Expectations, Zone of Tolerance, Factors that Influence Customer Expectations of Service, Customer Perceptions of Service: Customer Perceptions, Customer Satisfaction, Service Quality, SERVQUAL Model, E-Service Quality, Service Encounters.

Prestige Institute of Management & Research, Gwalior

le Sikawar

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research

Gwalior (M.P.)

Unit 3:

**TheWorldofRetailing:**ConceptsofRetail,EvolutionofRetailManagement,Retailing Principles, Retail Sales goals, the changing urban consumer, Retail Growth, Retail Sectors Retail in India; Retail Mix; Financial Planning in Retail: Issues in cash management, effective methods of cash management.

Unit 4: Organized retail in India, Sectors contributing to retail, Large Indian retailers; Un organised Retail: Various Segments in the Indian Retail industry, Emerging Trends in retailing.

Retail Format: Store Based-Ownership Based Store Formats (Independent Retailers, chain stores, Franchises, Co-operative Stores), Merchandise Based Store Format (Convenience stores, supermarkets, Hypermarkets, Speciality stores, Departmental Stores, factory outlets, catalogue showrooms);

Non-Store Based Retail Format: Direct sales, Email Orders, Postal Orders, Telemarketing, Automated Vending, Kiosk; Service Based: Banks, Car Rental, Service Contracts. Traditional Retailing and Non-Store based Retailing; Other Emerging retail format; E-Retailing: Reasons for Popularity of internet Retailing, Online shopping frauds and precautions.

Unit 5: Store Location: Trade Area Analysis- The Huff Gravity Model, Location criteria, types of location; Retail Marketing Segmentation, Strategic Planning in Retail, Financial Strategy, Merchandise Planning: Inventory Management, Category Management, Stock Keeping Units; Store Designing and operations: Layouts, Visual Merchandising, Atmospherics, Storeoperation and Loss prevention; Store Employees: recruiting and selecting store employees, training, evaluating employees, career opportunities in retail

Suggested Readings:

- Rampal, M.K., and Gupta, S.L. (2010). Service Marketing Concepts, Applications, a nd Cases.
- Chowdhary, N., & Choudhary, M. (2008). Marketing of Services. MacMillan Publis hers India Limited.
- Lovelock, C., & Wirtz, J. (2016). Service Marketing (8ed.). World Scientific.
- Parasuraman, A., Zeithaml, V. A., & Berry, L. L. (1985). A conceptual model
  of service quality andits implication for future research. Journal of Marketing,
  Vol. 49, No. 4 (Autumn, 1985), pp. 41-50(10 pages).
- Berman, B., & Evans, J.R. (2018). Retail Management astrategicapproach. Pearson.
- Singh, H. (2009). Retailmanagement: Aglobal perspective. S. Chand Publishing.
- Barry,B.(2003).Retailmanagement: Astrategicapproach.PearsonEducation,India.

Laine

Palifa Sikawar

Prof. (Dr.) Tarika Singh
Controller of Examination
Prestige Institute of Management and Research

Gwallor (M.P.)

heir)

MBA BA IV SEMESTER **BRANDING & INTEGRATED** MARKETING COMMUNICATION PAPER CODE: GE-09

Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

## BRANDING & INTEGRATED MARKETING COMMUNICATION

#### Course Objectives

The aim of the paper is to acquaint the students with the concept of brand, its development and management. Also, the students will earn about the concepts of integrated marketing communication.

Course Outcomes: On completion of the course, the students will be able to:

Undertstand the Various concept related to brand management. CO1a-

Understand the various concept related to Brand Equity CO1b-

Comprehend the concepts related to Integrated marketing communication. CO2-

Understand the basic concepts related to advertising CO3-

Discuss online advertising and digital media communication strategy CO4-

CO/PO MATRIX							
Course Outcomes	PO1	PO2	PO3	PO4	PO5		
CO1a-	3	3	3	2	3		
CO 2	2	2	3	2	3		
CO 3	2	- 11 00	3	2	3		
CO 4	2	स्था स्थाप	3	3	3		

#### Introduction Unit 1:

Brand - Concept and definition, Evolution of Brands, Role of Brands, Brand Management -Concept and definition, Product Vs Brand, Branding-Meaning and Purpose, Scope of Branding, Creation of Brands, Strategic Brand Branding Decisions-Meaning, Concept and Management BrandingDecisions, Packaging-Objectives and Importance; Labelling. Case Study of Strong Indian Brands.

**Brand Equity** Unit 2:

Brand Equity: Concept and Definition, Customer Based Brand Equity, Aaker's Brand Equity Model, Building Brand Equity, Measuring Brand Equity, Managing Brand Equity, Brand Loyalty, Brand Awareness, Perceived Quality, Brand Associations, Brand Extension, Brand Revitalization, Global Branding.

alla Sikawar

Prof. (Dr.) Tarika Singh Controller of Examination

Prestige Institute of Management and Research

Gwallor (M.P.)

Prestige Institute of Management & Research, Gwalior

Unit 3: Integrated Marketing Communication

An Introduction, Need and Role of IMC within Marketing Process; IMC Challenges; IMC Components and Tools: Advertising, Sales Promotion; Direct Marketing, Public Relations and Publicity. Integration Tools, IMC Process.

Unit 4: Understanding Advertising:

Concept; Communication Planning; Objectives; Functions and Significance; Classification of Advertising; Factors Determining the Advertising Opportunity of a Product/ Service/ Idea; Types of Appeals and Advertising Messages.

Unit 5: Communication via Modern Media:

Introduction; Online Advertising; Ways of E-advertising; Types of Digital Ads; On the Internet; On Mobile Devices; Pros and Cons of Mobile Marketing; Pricing of Digital Ads; E-direct Marketing; E-sales Promotion; E-Public Relations; Social Media: Significance of Social Media in Marketing Communication Strategies, Key Social Media Platforms, Opportunities and Threats of Social Media Application.

#### SuggestedReadings:

Aaker, D.A. (1991). Managing Brand Equity. Simon and Schuster.

• Aaker, D.A.(2012). Building Strong Brands. Simonand Schuster.

• Belch, G.E., Belch, M. A., &Purani K. (2010). Advertising and Promotion: An integrated marketing communications perspective, (7th edition.). New Delhi: Tata McGraw Hill Education Private Limited.

• Clow, K.E. & Baack, D. (2012). Integrated Advertising, Promotion and Marketing Communications, (4th edition.). New Delhi: Pearson.

 Keller, K. L., Parameswaran, M. G., & Jacob, I. (2011). Strategic brand management: Building, measuring, and managingbrand equity. PearsonEducationIndia.

frains

Palela Sikarwar

Prof. (Dr.) Tarika Singh
Controller of Examination

Prestige Institute of Management and Research

Gwalior (M.P.)

Lois

Prestige Institute of Management & Research, Gwalior

94

## MBA BA IV SEMESTER PROJECT APPRAISAL AND FINANCE PAPER CODE: GE-10

Max. Marks: 100 Min. Marks: 35 External:60 Internal: 40

## PROJECT APPRAISAL AND FINANCE

Course Objective

enterment in the contraction of the

The course explains the concepts of Project Management from planning to execution of projects, the feasibility analysis and network analysis tools for cost and time estimation, comprehending the fundamentals of Contract Administration, Costing and Budgeting, and enabling the students to analyze, apply and appreciate contemporary project management tools and methodologies.

Course Outcomes: After completion of successful course student will be:

CO1a: Understand the basic concepts of project management and its application

CO1b: Appraise the project on the market and technical aspects

CO2: Evaluate the project based on capital budgeting techniques

CO3: Acquaint about the social cost benefit analysis

CO4: Estimate the cost of project and identify various sources of finance . Appraising the project on various parameters

Course Outcomes	PO1	PO2	PO3	PO4	PO5
COla	3	3 2	2	2	1
CO1b	3				
CO2	1	3	1	2	2
CO3	1	1	1	3	2
CO4	1	2	1	2	1

- Unit 1: Appraisal- An introduction, Project appraisal and evaluation, Project cycle, Project cycle management. Private and Public sector Projects/ commercial / National probability; Identification of investment opportunities- industry analysis review of project profiles, feasibility, study. Project identification and formulation. Generation of Project ideas, Entrepreneurship- concept, Theory and perspective
- Unit 2: Market and Technical Analysis- Market Analysis of a project, Need for Market Analysis, Demand and supply analysis, Collection analysis, primary/secondary data, Forecasting techniques, Technical appraisal of a project, Business and Technology Acquisition and management of technology.

Unit 3: Investment Appraisal- Introductions of techniques, Sensitivity Analysis, Scenario Analysis, Decision Tree Analysis, components of financial analysis, financial needs of a Project, investment criteria, PERT Model, CPM Model

Prestige Institute of Management & Research, Gwalior

rlifa Sikamian

Prof. (Dr.) Tarika Singh Controller of Examination Prestige Institute of Management and Research Gwallor (M.P.)

- Unit 4: Social Cost Benefit Analysis- Value added concept, social surplus indirect impact of projects, rationale of SCBA Efficiency and Equity in Project Appraisal UNIDO Approach, Little Mirlees Approach. Project Appraisal of Indian Plans
- Unit5 Financial Analysis Estimation of cost of project & Means of financing; Traditional sources of financing: Equity shares, preference shares, Debentures/bonds, loan from Financial institutions, Alternative sources of financing: FDI & FII, Venture Capital, Projected cash flows of project, Appraisal Criteria, NPV, IRR, PBP, ARR.

Suggested Readings:

- Chandra, P. (2017). Projects: Planning Analysis Selection Financing Implementation and Review, 8th Ed.
- Desai, V. (2000). Project Management and Entrepreneurship. Himalaya Publishing House.
- Passenheim, O. (2009). Project Management. Ventus Publishing APS.
- Vasant Desai -Project Management- Himalaya Publishing House.
- · ChaudharyS.; Project Management, Tata Mc GrawHill
- MeredithJackR., Mantel SamuelJ.; ProjectManagement, IVE dition, John Wiley & Sons
- GopalakrishnanP.,RamamoorthyV.E;TextbookofProjectManagement,MacMillanPubli shers
- PatelBhaveshM.; ProjectManagement-Strategic FinancialPlanning, Education &
- Control, Vikas Pub. House, 2014



bains

Palifa Sikawar

Prof. (Dr.) Tarika Singh

Controller of Examination

Prestige Institute of Management and Research Gwallor (M.P.)

Juis'