

जोधपुर राष्ट्रीय विश्वविद्यालय Jodhpur National University



SYLLABUS

M.Phil. (Information Technology)

Faculty of Management

M. Phil. (Management): Course Details

PAPER – I	ADVANCED RESEARCH METHODOLOGY	MM 100
PAPER – II	STRATEGIC MANAGEMENT	MM 100
PAPER – III	INFORMATION TECHNOLOGY CONCEPTS	MM 100
PAPER – IV	ENVIRONMENTAL ISSUES	MM 100
	DISSERTATION PROJECT	MM 200
	TOTAL (For a Pass: In each paper 40% & Aggregate 50%)	MM 600

Paper – I: Advanced Research Methodology

MM: 100

Unit: I Introduction to Business Research: Research – Meaning – Scope and Significance – Characteristics of Good Research- Types of Research – Research Process – Research Design: Features of good design – Scientific method –Identifying Research Problem – Concepts, Constructs, Variables, Proposition, and Theoretical framework.

Unit: II Hypothesis: Meaning – Sources – Types – Role of Hypothesis formulations - Qualitative Research – Process – Qualitative Research Methodologies – Quantitative Research - Measurement – Meaning – Need -Errors in Measurement – Test of Sound Measurement –Scaling Techniques – Meaning –Construction techniques.

Unit: III Sampling design – Meaning – Concepts – Steps in Sampling – Criteria for Good Sample Design – Types of Sample Designs – Probability and Non-Probability Samples – Sample Size Determination – Data collection: Types of Data – Sources – Tools for Data Collection – Constructing Questionnaire – Reliability and Validity – Pilot Study – Data Pre-Processing: Coding and Editing Data analysis : Exploratory, Descriptive and Inferential Analyses.

Unit: IV Test of Significance: Assumptions about Parametric and Non-Parametric Tests. Parametric Test - t test, F test and Z test - Non Parametric Test – How to select a test - U Test, Kruskal Wallis, Sign test- Correlation and Regression analyses.

Unit: V Multivariate Analysis – Factor analysis, Cluster analysis, MDS, Discriminate Analysis (NO Problems), SPSS and its Applications. Interpretation - Meaning - Techniques of Interpretation - Report Writing:- Significance - Steps in Report Writing – Types of Reports-Layout of Report - Executive Summary - Precautions for Writing Report - Norms for using Tables, Charts And Diagrams Appendix:- Norms for using Index and Bibliography.

Suggested Readings:

1. Donald R. Cooper and Pamela S. Schindler, “Business Research Methods”, Tata McGraw Hill, 9th Edition, 2007.
2. William G. Zigmund, “Business Research Methods”, Cengage Learning India Pvt Ltd, 2006.
3. Naresh K Malhotra, “Marketing Research: An Applied Orientation”, Pearson Education” 4th Edition, 2004
4. Rao K.V.Research “Methods for Management and Commerce”, Sterling Publishers, 1993.
5. Uma Sekaran, “Research Methods for Business”, Wiley India Publications, 4th Edition - 2009.
6. Wilkinson Bhadarkar “Methodology and Techniques of Social Research”, Himalaya Publisher, Students Edition.
7. Anderson et al., “Assignment and Thesis writing”, Wiley Publications, 4th Edition-2008.

Paper – II: Strategic Management

MM: 100

Unit: I Evolution of Strategic management and Business Policy. Introduction to Business Policy, understanding Strategy. Strategic Decision – making, School of thought on strategy formation. Introduction to strategic Management, Strategy Intent, Vision, Mission. Business Definition, Business Models, Goals and Objectives. Concepts of Environment, Environmental Sectors, Environmental scanning, appraising the environment. Dynamics of Internal Environment, organizational capability factors, consideration in organizational appraisal, methods and techniques used for organizational appraisal, structuring organizational appraisal.

Unit: II Corporate level strategy, concentration strategies, integration strategies, diversification strategies. Internationalization Strategies, Cooperative strategies, Digitalization strategies. Stability strategies, retrenchment strategies, combination strategies, corporate restructuring. The foundations of Business-level strategies, business-level strategies, generic business strategies, tactics for business strategies, business strategies for different industry conditions, business strategies and internalization, business strategies and digitalization.

Unit: III Process of strategic choice, strategic analysis, subjective factors in strategic choice, contingency strategies, Strategic plan. Nature of strategy implementation, barriers to strategy implementation, interrelationship of formulation and implementation. A model of strategy implementation, project implementation, procedural implementation, resource allocation.

Unit: IV Structural considerations, types of organizational structures, organizational design and change, structures for strategies, organizational system and process. Stakeholders' and strategic management, Corporate governance and strategic management, role of board of directors in strategic management, strategic leadership, corporate culture and strategic management, corporate politics and power, personal values and business ethics, social responsibility and strategic management.

Unit: V Functional strategies, Functional plans and policies, Financial plans and policies, marketing plans and policies, operations plans and policies, personnel plans and policies. Information management plans and policies, integration of functional plans and policies. Operational implementation. An overview of strategic evaluation and control, strategic control, operational control, techniques of strategic evaluation and control, role of organizational systems in evaluation.

Suggested Readings:

1. John A. Pearce II and Richard B. Robinson, Strategic Management, Tata McGraw Hill, New Delhi (latest Edition)
2. Kazmi Azhar, Business Policy and Strategic Management, Tata McGraw Hill, New Delhi, Second Edition
3. Lawrence R. Jauch, Rajiv Gupta and William F. Glueck, Business Policy and Strategic Management, Frank Bros & Co., New Delhi, Seventh Edition.

Paper – III: INFORMATION TECHNOLOGY CONCEPTS & MIS

MM: 100

Unit: I Introduction to computers- definition, characteristics, evolution, generation, classification. Number system (binary, octal, decimal, hexadecimal). Input and output devices ,computer memory ,CPU, types of software – Application and system software , Operating system and types.

Unit: II Telecommunication concepts- data transmission and OSI layers, communication channels, types of communications network, local area network (Ethernet, token bus, token ring), wide area network, TCP/IP fundamentals, internet, intranet, extranet, The world wide web, artificial intelligence, expert systems.

Unit: III MS-Office, word, excel, power point, access. Database Management System- objectives of DBMS, advantages and disadvantages of DBMS, hierarchical model, network model, relational model, ER model, Normalization process, object oriented database, distributed database, client server systems.

Unit: IV MIS-definition, nature and scope, MIS characteristics, functions, structure of MIS, role of MIS, MIS as a control system, process of management, applications of MIS, Implementation and evaluation of MIS, Enterprise resource planning (ERP)and its benefits, ERP market.

Unit: Information and System concepts-Introduction, classification of information, methods of data and information collection, value of information. System-definition, types of system, system decomposition, integration of subsystems, elements of a system, Human as an information processing system, Information system as an enabler.

Suggested Readings

- 1) Lucas Henry.C. : Information Technology for Management, TMH, New Delhi.
- 2) Raja ram V: Fundamentals of Computers, PHI, New Delhi.
- 3) Basandara Suresh.K : Computers Today, Galgotia Publications.
- 4) Barihoke Deepak: Fundamentals of IT, Excel books.

Paper – IV: Environmental Studies

MM: 100

Unit: I Environment – Definition – Scope – Structure and function of eco system's procedures, consumers and decomposers – energy flow in the ecosystem – ecological succession – food chain, food web and ecological pyramids – concepts of sustainable development.

Unit: II Natural resources: Renewable – air, water, soil, land and wildlife resources. Nonrenewable – mineral, coal, oil and gas. Environmental problems related to the extraction and use of natural resources.

Unit: III Biodiversity – Definition – values – consumption use, productive social, ethical, aesthetic and option values threats to biodiversity – Hotspots of bio diversity – conservation of bio-diversity: In-situ Ex-situ. Bio-wealth – national and global level.

Unit: IV Environmental pollution : Definition – causes, effects and mitigation measures –Air pollution, Water pollution, Soil pollution, Noise pollution, Thermal pollution – Nuclear hazards – solid wastes acid rain – climate change and global warming environmental laws and regulations in India – Earth summit.

Unit: V Population and environment – Population explosion – Environment and human health – HIV / AIDS – Women and child welfare – Resettlement and Rehabilitation of people, role of information technology in environmental health –Environmental awareness.