M-Scheme Detailed Syllabus

34641 – Management Information Systems

UNIT I INTRODUCTION TO MIS

1.1 Introduction: Definition of MIS – Impact of MIS – MIS and the user – Approaches to management – Management as a control system – Role of MIS in management – MIS as Tool for management.

1.2 Organization structure and strategic management: Organization structure – Organization behavior – Organization as a system – MIS for organization planning; Essentials of strategic planning – Types of strategies – Tools of planning – MIS for business planning.

UNIT II BASICS OF MIS

2.1 Decision Making and Information : Decision making concepts – Decision methods, Tools and Procedures – Organizational decision making – MIS and Decision making concepts; Information concepts - Quality of information – Classification of information – Methods of data and information collection – Value of information – Human as an information processor – MIS and the information concepts.

2.2 stem concepts, System Analysis and Design: System concepts – System control – Types of system – MIS and system concepts – Need for system analysis – System analysis of existing system – System development cycle – System development methods -Computer system design - MIS and system analysis.

Development of MIS : Development of long range plans for MIS – Ascertaining the class of information – Determining the information requirement; Development and implementation of MIS – Management of quality in MIS – Organization for development of the MIS – MIS – the factors of success and failure.

UNIT III APPLICATIONS OF MIS

3.1. Applications in Manufacturing and Service Sector: Personnel management – Financial management – Production management – Materials management – Marketing management – Introduction to service sector – Applications in service industry.

3.2 Decision Support System: Concept - Attributes of DSS – Types of DSS – Types of tools / models – Management science models – Project planning and control models; Artificial intelligence systems; Knowledge based expert system; MIS and the role of DSS.

UNIT IV ENTERPRISE RESOURCE PLANNING

4.1 Enterprise Resource Planning System : Introduction – Objectives – Difference between ERP and conventional packages –Brief history of ERP – Forces of ERP – Need for ERP – ERP components.

4.2 Implementing an ERP: Distinctive ways of implementing an ERP – Guidelines for ERP implementation – Practicalities in an ERP implementation – Options for implementing an ERP System – Conquering implementation of ERP – Dynamics that shape the price tag of ERP – ERP benefits - Customers expectation in ERP packages – Stumbling blocks – ERP system accomplishment – steps for avoiding pitfall – Suggestions to an ERP vendor; Customer Relationship management; Supply chain management.

UNIT V TECHNOLOGIES IN MIS

5.1 Technology of Information Systems : Introduction – Data Processing – Transaction Processing – Application Processing – Information System Processing – TQM of Information Systems – Human Factors and User Interface – Real Time Systems and Design ; Programming Languages for System Coding; Case tools and I-Case.

5.2 Business Process Re-engineering (BPR) : Introduction – Business Process – Process Model of the Organisation - Value Stream model of the Organisation – Relevance of Information Technology – MIS and BPR

5.3 Electronic Business Technology : Introduction to E-Business – Models of E-Business – Intranet / Extranet – Internet – World Wide Web (WWW) – Electronic Payment Systems – Security in E-Business – MIS and E-Business – Internet and Web and Process of Management – Strategic Management Under Web – Web Enabled Business Management – Application System Architecture in Web – MIS in Web Environment

Text Book

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