

Syllabus for B.Sc-IT Course

at S.P. College

SEMESTER -- V

COURSE TITLE :- MANAGEMENT INFORMATION SYSTEM COURSE CODE-BIT-504

UNIT-I

FRAME WORK:

- i) Importance, Concepts, Nature & Scope of MIS
- ii) Structure & Classification of MIS ,Information Processing Functions ,Decision Support Levels of Management Activities ,Organizational Functions ,Classification ,Transaction Processing System ,Management Information System ,Decision Support System (DSS) , Executive Support System ,Office Automation Systems (OASs) , Business Expert Systems (BESs) ,Functional Information System

UNIT-II

DECISION MAKING AND MIS:

Decision Making ,Simon's Model of Decision Making ,Types of Decisions , Purpose of Decision Making , Level of Programmability , Knowledge of Outcomes ,Methods of Choosing among alternatives , Decision theory and Decision Analysis , Utility ,Decision tree , Optimization techniques , Decision Making & MIS , Information & System Concepts: i) Definition, Types & Quality of Information: Strategic Information , Tactical Information , Operational Information , Economic Dimensions , Business Dimensions Technical Dimensions ii) Definition & Concept Of System , Abstract & Physical Systems Deterministic & Probabilistic Systems , Open & Closed System ,User – Machine Systems Boundary , Interface & Black Box , System Decomposition ,Integration of Sub-system iii) Elements of a System

UNIT-III

SYSTEM DEVELOPMENT APPROACHES:

System Development Life Cycle(SDLC) ; Models Of System Development Life Cycle -Waterfall Model ,Prototyping Model , Iterative Model , Spiral Model ; System Analysis & Integration ,Data Flow Diagrams , Data Dictionary , Decision Tree & Structured English , Decision table ; System Design.

UNIT-IV

IMPLEMENTATION & EVALUATION OF MIS:

Implementation process (Planning & Implementation, acquisition of facilities and space planning , MIS Organization & procedure development, User Training, Acquisition of hardware & Software, Creation of firms & database, Testing, Evaluation of MIS, System Maintenance.

INFORMATION SYSTEM (IS) PLANNING:

Information System Planning ; The Nolem Stage Model ; The 4-stage Model of IS Planning. ; Selecting a methodology ; Information Resource Management(IRM) ; Organisation Structure and location of MIS ; IS as an Enabler

Books Recommended:

1. Donald R. Cooper and Ramela S. Schindler, "Business Research Methods", Tata McGraw Hill.
2. Roger Pressman Software Engineering Tata McGraw Hill.
3. Senn, J.A., "Analysis and Design of information systems". Tata McGraw Hill
4. Keen, Peter G.W.: Decision Support System and Organisational Perspective, Addison – Wesley Publication.

Suggested Reading:

1. Uma Sekaran, " Research Methods for Business" , John Wiley and Sons, New York 2000
2. John Wiley New York Information System-Theory and Practice/ Brunch, John and Grudnitski (1998).
3. Fort Worth Dryden Foundation of Business Systems/David Van Over/1992