**DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS**

**LESSION PLAN**

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| Name of the Course Teacher | J. SEETHARAMAN | Designation, Department, Staff Code | Asst. Prof. / CSA |
| Degree & Branch | III BSc CS | Year / Semester | III / V |
| Course | Minor Elective – Management Information System | Credits | 3 |

**COURSE OBJECTIVES**

To describe the role of information technology and decision support systems in

business.

To introduce the fundamental principles of computer-based information systems

analysis.

To enable the students to understand the various knowledge representation methods.

To enable the students to use information to assess the impact of the Internet and

Internet technology on electronic commerce

To provide the theoretical models used in database management systems to answer

business questions.

**COURSE OUTCOMES**

Relate the basic concepts and technologies used in the field of management

information systems;

Compare the processes of developing and implementing information systems.

Outline the role of the ethical, social, and security issues of information systems.

Translate the role of information systems in organizations, the strategic management

processes, with the implications for the management.

Apply the understanding of how various information systems like DBMS work

together to accomplish the information objectives of an organization.

**TEXT BOOKS**

1. Goyal, Management Information Systems, Managerial Perspectives, Macmillan India

Limited, New Delhi, 2014.

2. Jawadekar, W.S., “Management Information Systems”, Tata McGraw Hill Private

Limited, New Delhi, 2009.

3. Kenneth C. Laudon and Jane P. Laudon: “Management Information Systems” 9/e,

Pearson Education, New Delhi.

**REFERENCE BOOKS**

1. Mahadeo Jaiswal, Monika Mital: “Management Information System”, Oxford

University Press, New Delhi, 2008.

2. Murthy C.S.V.: “Management Information System”, Himalaya Publications, New

Delhi, 2008.

3. Panneerselvam R.: “Database Management System”, PHI Private Limited, New

Delhi, 2008.

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| **Unit I : MIS Introduction (Week 1–3) 12 Hours**  **Learning Objectives:**   * To introduce the Definitions/Terms * Knowing the importance * Classifications/Types   Introduction: Definition of key terms – Management Information, System – Nature and  Scope of MIS - Kinds of System; Systems Approach – Classification of MIS | | | |
| **Week** | **Topics** | **Teaching Methods** | **Activities/Assessment** |
| 1 | Intro & Definitions | Lecture & Discussion | Assignment & Case study |
| 1 | Intro & Definitions | Lecture & Discussion | Assignment & Case study |
| 2 | Importance of Data/Information Processing | Examples & Practice | Assignment & Case study |
| 2 | Management divisions/roles | Lecture & Discussion, Case study | Assignment & Case study |
| 3 | MIS Operations at different management levels | Lecture & Discussion, Case study | Assignment & Case study |
| 3 | Classification of MIS | Lecture & Discussion, Case study | Assignment & Case study |

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| **Unit II: MIS Structures and Levels (Week 4–6) – 12 Hours**  **Learning Objectives:**   * Understanding MIS structures. * Understand various levels of management * Understand the difference between manual vs computerized IS   Organization for MIS: Structure for Management; Information requirements at various levels  of Management; Manual vs. computerized information system; Data Bank Concept; Types of  Computer-Based /applications | | | |
| **Week** | **Topics** | **Teaching Methods** | **Activities/Assessment** |
| 4 | MIS structure | Lecture & Discussion, Practice | Assignment & Case study |
| 4 | MIS structure | Lecture & Discussion, Practice | Assignment & Case study |
| 5 | Manual & computerized MIS | Lecture & Discussion, Practice | Assignment & Case study |
| 5 | Information classification | Lecture & Discussion, Practice | Assignment & Case study |
| 6 | Data Bank, System life cycle | Lecture & Discussion, Practice | Assignment & Case study |

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| **Unit III: DBMS (Week 7–9) – 12 Hours**  **Learning Objectives:**   * Understanding Data management * Understanding DBMS   Data Base Management: Meaning of Data-Base; Electronic Data-Base; DBMS – Objectives – Technical Overview – Data Aggregates – Physical and Logical Structures; System Security **12** | | | |
| **Week** | **Topics** | **Teaching Methods** | **Activities/Assessment** |
| 7 | Types of data handling, comparison | Theory + Practice | Assignment & Case study |
| 7 | DBMS Insights | Theory + Practice | Assignment & Case study |
| 8 | Data aggregates | Theory + Practice | Assignment & Case study |
| 8 | Field classification/handling in DBMS | Explanation + Tasks | Assignment & Case study |
| 9 | System security | Theory + Practice | Assignment & Case study |

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| **Unit IV: Stages of IS (Week 10–12) – 12 Hours**  **Learning Objectives:**   * Understand the various stages and functions of IS   System Development Stages: Investigation, Analysis Design, Construction, Testing,  Implementation, Maintenance | | | |
| **Week** | **Topics** | **Teaching Methods** | **Activities/Assessment** |
| 10 | System Development stages | Theory + Practice | Assignment & Case study |
| 11 | System Development stages | Theory + Practice | Assignment & Case study |
| 12 | MIS Categories & limitations | Theory + Practice | Assignment & Case study |

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| **Unit V: MIS in various departments (Week 13–15) – 12 Hours**  **Learning Objectives:**   * MIS in different organization departments   MIS in functional areas of Management: MIS for Marketing, Human Resource, Operations,  Finance, General Management – Decision Making | | | |
| **Week** | **Topics** | **Teaching Methods** | **Activities/Assessment** |
| 13 | MIS classification and Implementation | Theory + Practice | Mini Project |
| 14 | MIS for Marketing, HR, Operations | Theory + Practice | Mini Project |
| 15 | Decision making | Theory + Practice | Mini Project |

**Assessment Strategy:**

* **Internal Assessment**: Periodic class tests, coding assignments, quizzes
* **Practical Exam**: Midterm and Final lab exams
* **Project**: Mini like billing and mark statements with files

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**Signature of the Course Teacher**

**Signature of the Head of the Department**