

**Course Title: Computer and Peripherals, Maintenance Service & Repair
Year-III
Semester – VI
Subject Outline**

1. Programming in Java
2. Management Information System
3. Industrial Training-II

STRUCTURE TABLE

S. No.	Paper Title	Paper Category Skill Compulsory (SC) Skill Elective (SE)	Credits			Total Credits	EoSE Duration (Hrs.)		
			Theory	Practical	Self/Project/Industry		T	P	S
1	Programming in Java	SC	3	3	0	6	3	2	0
2	Management Information System	SC	3	3	0	6	3	2	0
3	Industrial Training-II	SC	0	0	Self	6	0	0	3
Total						18			

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DETAILED SYLLABUS

1. PROGRAMMING IN JAVA

Basics of Java – Java History, Features, How Java differs from C and C++, Java and Internet, Java and

www, Web Browsers. Overview of Java, simple Java program, Structure, Java Tokens, Statements, Java Virtual Machine.

Java Constructs- Constants, Variables, Data Types, Operators and Expressions, Decision Making and Branching: if, if-else, nested if, switch? : Operator, Decision Making and Looping: while, do, for, Jumps in Loops, Labeled Loops, Classes, Objects and Methods.

Programming with Java- Arrays, Strings and Vectors.

Interfaces and Packages- Multiple Inheritance, Packages, Putting Classes together, Multithreaded Programming.

Errors and Exceptions- Managing Errors and Exceptions, Applets

Input and Output Files in Java- Concepts of Streams, Stream.

2. MANAGEMENT INFORMATION SYSTEM

Basics of Management Information Systems- An introduction to information systems, Information systems in organizations, Information Technology Concepts, The IS Revolution; Information requirement for the different levels of management, transaction processing system, Management information system, Decision support system.

Role of Information System-Strategic Role of Information Systems. Business Processes, Information management, and Decision Making. Computers and Information Processing;

Transaction processing- Transaction processing system; hardware and software requirements, tools used, case studies, merits and demerits of transaction processing system.

Management- Managerial control, Information and tools required, difference between transactional system and managerial system. Frequency of taking outputs, Need for interconnected system, common database, Redundancy control, case studies. Decision support system, concept and tools, case studies, virtual organizations, strategic decisions, unstructured approach, cost and values of unstructured information.

Optimization- Optimization techniques, difference between optimization tools and DSS tools expert system, difference between expert system and management information system.