

E.M. GOPALAKRISHNA KONE YADAVA WOMEN'S COLLEGE

An Autonomous Institution -Affiliated to Madurai Kamaraj University

Re-accredited (3rd Cycle) with Grade A⁺ & CGPA 3.51 by NAAC



LESSON PLAN
2023-2024

DEPARTMENT OF IT

(UG & PG – Odd Semester)




E.M.GOPALAKRISHNA KONE YADAVA WOMEN'S COLLEGE
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LESSON PLAN
2023-2024

Class: I B.Sc. IT Semester : I Sub. Code : 23OUIT11
Title of the Paper: Programming in C Total Hours : 75

Month	UNIT	Description of The Syllabus	No. of Hours	Mode of Teaching	Course Teacher
June '23	I	Studying Concepts of Programming Languages- Language Evaluation Criteria - Language design - Language Categories - Implementation Methods – Programming Environments - Overview of C: History of C- Importance of C- Basic Structure of C Programs Executing a C Program- Constants, Variables and Data types - Operators and Expressions - Managing Input and Output Operations	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Vishnu priya <i>R. Vishnu priya</i>
July '23	II	Decision Making and Branching: Decision Making and Looping - Arrays - Character Arrays and Strings.	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Vishnu priya <i>R. Vishnu priya</i>
Aug '23	III	User Defined Functions: Elements of User Defined Functions Definition of Functions- Return Values and their Types- Function Call Function Declaration- Categories of Functions- Nesting of Functions Recursion	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Vishnu priya <i>R. Vishnu priya</i>
Sep '23	IV	Structures and Unions: Introduction- Defining a Structure- Declaring Structure Variables Accessing Structure Members- Structure Initialization- Arrays of Structures- Arrays within Structures- Unions Size of Structures.	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Vishnu priya <i>R. Vishnu priya</i>

Oct '23	V	Pointers: Understanding Pointers- Accessing the Address of a Variable- Declaring Pointer Variables- Initializing of Pointer Variables Accessing a Variable through its Pointer- Chain of Pointers- Pointer Expressions- Pointer and Scale Factor- Pointer and Arrays- Pointers and Character Strings- Array of Pointers- Pointer as Function Arguments- Functions Returning Pointers- Pointers to Functions- File Management in C	15	Seminar, PPT presentation, Activity and Model Preparation	Mrs. R.Vishnu priya 
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LESSON PLAN
2023-2024

Class: I B.Sc. IT Semester : I Sub. Code : 23OUITGEIT1
Title of the Paper: Digital Logic Fundamentals Total Hours : 60

Month	UN IT	Description of The Syllabus	No. of Hou rs	Mode of Teaching	Course Teacher
June' 23	I	Number Systems and Codes: Number System-Base Conversion - Binary Codes - Code Conversion. Digital Logic: Logic Gates - Truth Tables - Universal Gates.	12	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Raja Sangeetha
July'23	II	Boolean Algebra: Laws and Theorems - SOP, POS Methods - Simplification of Boolean Functions-Using Theorems, K-Map, Prime-Implicate Method-Binary Arithmetic: Binary Addition - Subtraction - Various Representations of Binary Numbers-Arithmetic Building Blocks-Adder-Subtractor.	12	Chalk and Talk, PPT, quiz, on the spot test	Mrs.R.Raja Sangeetha
Aug' 23	III	Combinational Logic: Multiplexers - Demultiplexers - Decoders - Encoders -Code Converters-Parity Generators and Checkers.	12	Chalk and Talk, PPT, quiz, on the spot test	Mrs.R.Raja Sangeetha
Sep '23	IV	Sequential Logic: RS, JK, D, and T Flip-Flops-Master-Slave Flip-Flops. Registers: Shift Registers-Types of Shift Registers.	12	Chalk and Talk, PPT, quiz, on the spot test	Mrs.R.Raja Sangeetha
Oct '23	V	Counters: Asynchronous and Synchronous Counters - Ripple, Mod, Up-Down Counters-Ring Counters. Memory: Basic Terms and Ideas -Types of ROMs -Types of RAMs.	12	Seminar, PPT presentation	Mrs.R.Raja Sangeetha

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LESSON PLAN 2023-2024

Class: I B.Sc. IT

Semester : I

Sub. Code : 23OUITSECN1

Title of the Paper: Office Automation (NME)

Total Hours : 30

Month	UNIT	Details	No. of Hours	Mode of Teaching	Course Teacher
June' 23	I	Unit I: Introductory concepts: Memory unit-CPU. Input Devices: Keyboard, Mouse and Scanner. Output devices: Monitor, Printer. Introduction to Operating systems & its features: DOS - UNIX -Windows.- Introduction to Programming Languages.	6	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R. Vishnupriya <i>R. Vishnupriya</i>
July' 23	II	Unit II: Word Processing: Open, Save and close word document; Editing text - tools, formatting, bullets; Spell Checker - Document formatting - Paragraph alignment, indentation, headers and footers, numbering; printing-Preview, options, merge.	6	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R. Vishnupriya <i>R. Vishnupriya</i>
Aug' 23	III	Unit III : Spreadsheets : Excel-opening, entering text and data, formatting, navigating; Formulas-entering, handling and copying; Charts-creating, formatting and printing, analysis tables, preparation of financial statements, introduction to data analytics.	6	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R. Vishnupriya <i>R. Vishnupriya</i>
Sep '23	IV	Unit IV: Database Concepts: The concept of data base management system; Data field, records, and files, Sorting and indexing data; Searching records. Designing queries, and reports; Linking of data files.	6	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R. Vishnupriya <i>R. Vishnupriya</i>

Oct '23	V	Unit V:Power point: Introduction to Power point - Features – Understanding slide typecasting & viewing slides – creating slide shows. Applying special object – including objects & pictures – Slide transition– Animation effects, audio inclusion, timers.	6	PPT presentatio n.	Mrs. R.vishnupriya <i>R. Vishnupriya</i>
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L. Bond
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P. Mahalingam
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LESSON PLAN
2023-2024

Class: I B.Sc. IT

Semester : I

Sub. Code : 23OUITFC1

Title of the Paper: Fundamentals of Computers

Total Hours : 30

Month	Unit	Description of The Syllabus	No. of Hours	Mode of Teaching	Course Teacher
June '23	I	Introduction: Characteristics of Computers - Evolution of Computers Basic Computer Organization: I/O Unit - Storage Unit - Arithmetic Logic Unit - Control Unit - Central Processing Unit	6	Chalk and Talk, PPT, quiz, on the spot test	Mrs.R.Raja Sangeetha
July '23	II	Computer Software: Types of Software - System Architecture. Computer Languages: Machine Language - Assembly Language - High Level Language - Object Oriented Languages	6	Chalk and Talk, PPT, quiz, on the spot test	Mrs.R.Raja Sangeetha
Aug '23	III	Problem Solving Concepts: Problem Solving in Everyday life - Types of Problems - Problem solving with computers - Difficulties with Problem Solving	6	Chalk and Talk, PPT, quiz, on the spot test	Mrs.R.Raja Sangeetha
Sep '23	IV	Problem Solving concepts for the computer: Constant Variables - Data Types - Functions - Operators - Expressions and Equations - Organizing the Solution: Analyzing the problem - Algorithm - Flowchart - Pseudo code	6	Chalk and Talk, PPT, quiz, on the spot test	Mrs.R.Raja Sangeetha
Oct '23	V	Programming Structure: Structuring a solution - Modules and their function - Local and Global variables - Parameters - Return values - Sequential Logic Structure - Problem solving with Decision - Problem Solving with Loops	6	Seminar, PPT	Mrs.R.Raja Sangeetha

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LESSON PLAN
2023-2024

Class : I B.Sc. IT


Semester :III


Sub. Code 22OUIT31


Title of the Paper: RDBMS

Total Hours : 60hrs

Month	Unit	Course Content	Hours Alloc ated	Teaching Mode & Methods	Course Teacher
June '23	I	Purpose of Database System – View of Data – Database languages – Relational Databases – Database Design –Data Storage and Querying – Transaction management -Database Architecture- Data mining and information retrieval- Specialty data bases Database Users and Administrators Database System.	12	Chalk & Talk,PPT	Ms. B.Yuva Shree
July'23	II	Relational Model: Structure of Relational Databases – Database Schema –Keys- Schema Diagrams- Relational Query Languages - Relational Operations SQL: Overview of the SQL Query-SQL Data Definition – Basic Structure of SQL queries – Additional basic operations-Set Operations –Null values– Aggregate Functions – Nested Sub queries–Modification of Database .	12	Chalk & Talk,Spot test, Exercise, Assignment, PPT, Video material.	Ms. B.Yuva Shree
Aug' 23	III	Database Design and The E-R Model: Overview of the Design Process – The Entity-Relationship Model – Constraints – Entity-Relationship Diagrams – Entity-Relationship Design Issues – Weak Entity sets – Extended E-R Features.	12	Chalk & Talk, Exercise, PPT, Video Material	Ms. B.Yuva Shree
Sep '23	IV	Relational Database Design: Features of Good Relational Designs – Atomic Domains and First Normal Form – Decomposition Using Functional Dependencies – Functional-Dependency Theory – Decomposition using Multivalued Dependencies.	12	Chalk & Talk, Exercise, Assignment, Video Material, Group Discussion	Ms. B.Yuva Shree

Oct '23	V	Storage and File Structure: Overview of Physical Storage media – Magnetic Disks – RAID – Tertiary Storage – File Organization – Organization of Records in Files – Data-Dictionary Storage.	12	Quiz, Chalk & Talk, Exercise, Spot test, Assignment, Seminar	Ms. B. Yuva Shree 
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2023-2024

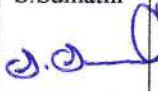

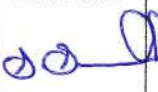


Class : II B.Sc. IT

Sub. Code : 22OUI32

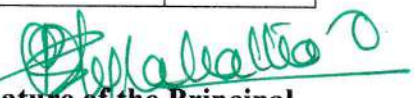
Total Hours : 60 hrs.

Semester :III

Title of the Paper: Data Structure and Algorithms

Month	Unit	Course Content	Hou rs Allo cate d	Teaching Mode & Methods	Course Teacher
June' 23	I	Basic Concepts: Overview: System Life Cycle - Object Oriented Design-Data Abstraction and Encapsulation - Basics of C++ - Algorithm Specification. Arrays: Abstract Data Types and the C++ Class - The Array as an Abstract Data Type - Representation of Arrays.	12	Chalk & Talk, PPT	Mrs. S.Sumathi 
July'23	II	Stacks & Queues: Templates in C++ - The Stack Abstract Data Type - The Queue Abstract Data Type - Sub typing and Inheritance in C++. Linked Lists: Singly linked lists and Chains - Representing Chains in C++ - The Template Class Chain - Circular Lists - Linked Stacks & Queues.	12	Chalk & Talk, Spot test, Exercise, Assignment, PPT, Video material.	Mrs. S.Sumathi 
Aug' 23	III	Trees: Introduction - Binary Trees - Binary Tree Traversal and Tree Iterations - Threaded Binary Trees - Heaps - Binary Search Trees- Selection Trees - Forests.	12	Chalk & Talk, Exercise, PPT, Video Material	Mrs. S.Sumathi 
Sep '23	IV	Graphs: The Graph Abstract Data Type - Elementary Graph Operation - Minimum Cost Spanning Tree - Shortest Paths and Transitive Closure - Activity Networks.	12	Chalk & Talk, Assignment, Video Material, Group Discussion	Mrs. S.Sumathi 
Oct '23	V	Sorting: Motivation - Insertion Sort - Quick Sort - Fast method to Sort - Merge Sort - Heap Sort - Sorting on Several Keys - List and Table Sorts.	12	Chalk & Talk, Exercise, Spot test, Assignment, Seminar	Mrs. S.Sumathi 


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LESSON PLAN
2023-2024

Class : II B.Sc. IT


Semester :III

Sub. Code : 22OUTGEIT3

Title of the Paper: E-Commerce

Total Hours :75

Month	Unit	Course Content	Hours Allocat ed.	Teaching Mode & Methods	Course Teacher
June' 23	I	Fundamentals of e-Commerce: e-Commerce and its types - Driving forces behind e- Commerce – Impacts - benefits and limitations of e-Commerce - Consumer behavior in e-Commerce - Electronic Data Interchange(EDI) - Supply Chain Management; Just-in-time - Procurement Management and Customer Relationship Management.	15	Chalk & Talk, PPT	Mrs. R. Boomadevi <i>R. Boomadevi</i>
July' 23	II	Network Infrastructure for E-commerce: Access Equipment - Access Media and Network Infrastructure for e-Commerce - Internet, Internet and Extranet	15	Chalk & Talk, Spot test, Assignment, PPT, Video material.	Mrs. R. Boomadevi <i>R. Boomadevi</i>
Aug' 23	III	Web Security: Security threats on the Internet and their impact - Security services - Security mechanisms – Cryptography – Firewalls.	15	Chalk & Talk, PPT, material	Mrs.R. Boomadevi <i>R. Boomadevi</i>
Sep '23	IV	Electronic Payments: Electronic Funds Transfer and types of Electronic payments – Electronic payment mechanisms such as credit cards - smart cards - electronic cash and electronic checks.	15	Chalk & Talk, Exercise, video material, Group Discussion	Mrs. R. Boomadevi <i>R. Boomadevi</i>

Oct '23	V	Mobile Commerce: Mobile computing and wireless - Wireless technologies and Wireless Application Protocol (WAP) and WAP gateway.	15	Quiz, Chalk & Talk, Exercise , Spot test, Assignmen t, Seminar	Mrs. R. Boom adevi 
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LESSON PLAN
2023-2024

Class : III B.Sc. IT




Semester : V


Sub. Code : 21151

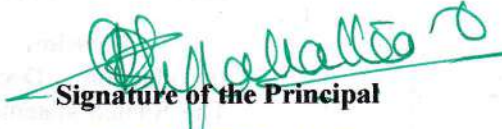
Title of the Paper: Programming in Java

Total Hours : 75

Month	UNIT	Description of The Syllabus	No. of Hours	Mode of Teaching	Course Teacher
June '23	I	<p align="center">Fundamentals of Object-Oriented Programming: Introduction – Object-oriented Paradigm – Basic concepts of OOP – Benefits of OOP – Applications of OOP.</p> <p>Java Evolution: Java History – Java Features – Java Differs from C & C++ - Java and Internet – Java Environment.</p> <p align="center">Overview of Java Language: Introduction – Simple Java Program – More of Java – Application with two classes – Java Program structure – Java Tokens – Java statements – Implementing a Java Program – Java Virtual Machine – Command Line Arguments.</p> <p align="center">Constants, Variables and Data Types: Introduction – Constants – Variables –Data Types – Declaration of variables – Giving values to variables – Scope of variables – Symbolic constants – Type casting – Getting values of variables – Standard default values.</p>	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Lakshmi <i>Rlaf</i>
July '23	II	<p align="center">Operators and Expressions: Introduction – Arithmetic operators – Relational operators – Logical operators – Assignment operators – Increment and Decrement</p> <p align="center">operators – Conditional operators – Bitwise operators – Special operators – Arithmetic Expressions – Evaluation of Expressions – Precedence of Arithmetic operators – Type conversions in Expressions – Mathematical Functions.</p> <p align="center">Decision Making and Branching: Introduction – Decision making with IF statement – The Switch statement – The ?: operator - Decision Making and Looping: The While Statement – The do statement – The for statement – Jumps in loops – Labeled Loops- Arrays, Strings and Vectors: Introduction-One Dimensional Arrays-Creating an Array- Two Dimensional Arrays-Strings-Vectors-Wrapper Classes-Enumerated Types</p>	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Lakshmi <i>Rlaf</i>

Aug '23	III	<p>Classes, Objects and Methods: Introduction Defining a class- Fields Declaring-methods Declaration –Creating Objects- Accessing Class Members- Constructors- method Overloading-Static Members-Nesting of Methods—Inheritance: Extending a Class- Overriding methods-Final Variables and Methods-Final classes-Finalizer Methods-Abstract Method and Classes-Methods with Varargs-Visibility Control</p> <p>Interfaces: Multiple Inheritances: Defining Interfaces – Extending interfaces – Implementing Interfaces – Accessing Interface Variables.</p>	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Lakshmi 
Sep '23	IV	<p>Packages: Java API Packages – Using System Packages – Naming Conventions – Creating packages – Accessing a Package – Using a Package – Adding a class to a Package.</p> <p>Multithreaded Programming: Creating Threads – Extending the Thread Class – Stopping and Blocking a Thread – Life Cycle of a Thread – Using Thread Methods – Thread Exceptions – Thread Priority – Synchronization – Implementing the 'Runnable' Interface.</p>	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Lakshmi 
Oct '23	V	<p>Managing Errors and Exceptions: Introduction – Types of Errors – Exceptions – Syntax of Exception Handling Code – Multiple catch statements – Using Finally statement – Throwing our own Exception – Using Exception for Debugging.Applet Programming: Introduction – Applets Vs Applications – Building Applet code – Applet Life Cycle – Designing a Web page – Applet Tag –Adding applet to Html file –Passing parameters to Applets – Displaying Numerical values – Getting Input from the User.</p> <p>Graphics Programming: introduction – The Graphics Class – lines and Rectangles – Circles and Ellipses – Drawing Arcs – Drawing polygons – Line Graphs – Using Control oops in applets – Drawing bar Charts.</p>	15	Seminar, PPT presentation, Activity and Model Preparation	Mrs. R.Lakshmi 


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LESSON PLAN
2023-2024

Class : III B.Sc. IT

Semester : V

Sub. Code : 21152 Title of the Paper: Computer Graphics Total Hours: 75

Month	UNIT	Description of The Syllabus	No. of Hours	Mode of Teaching	Course Teacher
June '23	I	A Survey of Computer Graphics: Computer Aided Design – Presentation Graphics – Computer Art – Entertainment – Education and Training – Visualization – Image Processing – GUI. Overview of Graphics Systems: Video Display Devices- Raster Scan System – Random Scan System – Graphics Monitors and Workstations – Input Devices – Hard Copy Devices – Graphics Software.	15	Chalk and Talk, PPT, quiz, on the spot test	Ms. B.Yuvashree
July '23	II	Output Primitives: Points and Lines – Line Drawing Algorithms – Circle Generating Algorithms – Ellipse Generating Algorithms – Other Curves – Curve Functions - Pixel Addressing – Filled Area Primitives – Character Generation.	15	Chalk and Talk, PPT, quiz, on the spot test	Ms. B.Yuvashree
Aug '23	III	Attributes of Output Primitives: Line Attributes – Curve Attributes – Color and Grayscale Levels – Area Fill Attributes – Character Attributes – Bundled Attributes – Inquiry Functions – Antialiasing.	15	Chalk and Talk, PPT, quiz, on the spot test	Ms. B.Yuvashree
Sep '23	IV	Two Dimensional Geometric Transformation: Basic Transformations- Matrix representations and Homogeneous Coordinates - Composite Transformations - Other Transformations – Transformations between coordinate systems.	15	Chalk and Talk, PPT, quiz, on the spot test	Ms. B.Yuvashree
Oct '23	V	Two Dimensional Viewing: The Viewing Pipeline - Viewing Coordinate Reference Frame - Window to viewport Coordinate Transformation - Two Dimensional Viewing Functions- Clipping Operations – Point Clipping – Line Clipping (Cohen-Sutherland, Liang-Barshy, Nicholl-Lee-Nicholl Line Clipping) – Polygon Clipping – Curve Clipping – Text Clipping – Exterior Clipping.	15	Seminar, PPT presentation, Activity and Model Preparation	Ms. B.Yuvashree

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LESSON PLAN
2023-2024






Class : III B.Sc. IT

Semester : V

Sub. Code : 21I53

Title of the Paper: Computer Networks

Total Hours : 75

Month	UNIT	Description of The Syllabus	No. of Hours	Mode of Teaching	Course Teacher
June '23	I	Introduction: Uses of Computer Networks - Network Hardware - Network Software - Reference Models: The OSI Reference Model - The TCP/IP Reference Model - A Comparison of the OSI and TCP/IP Reference Models.	15	Chalk and Talk, PPT, quiz, on the spot test	Ms. B.Yuvashree 
July '23	II	The Physical Layer: Guided Transmission Media - Wireless Transmission - Communication Satellites. The Data Link Layer: Data link layer design Issues - Error Detection and Correction.	15	Chalk and Talk, PPT, quiz, on the spot test	Ms. B.Yuvashree 
Aug '23	III	The Medium Access Control: The Channel Allocation Problem - Multiple Access Protocols - Ethernet - Data Link Layer Switching.	15	Chalk and Talk, PPT, quiz, on the spot test	Ms. B.Yuvashree 
Sep '23	IV	The Network Layer: Network Layer Design Issues - Routing Algorithms - Congestion Control Algorithms - Internetworking.	15	Chalk and Talk, PPT, quiz, on the spot test	Ms. B.Yuvashree 
Oct '23	V	The Transport Layer: The Transport Service - Elements of Transport Protocols. The Application Layer: DNS - The Domain Name System - Electronic Mail.	15	Seminar, PPT presentation, Activity and Model Preparation	Ms. B.Yuvashree 


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LESSON PLAN
2023-2024


Class : III B.Sc. IT

Semester : V

Sub. Code : 21IE5A Title of the Paper: Client Server Computing Total Hours: 75

Month	UNIT	Description of The Syllabus	No. of Hours	Mode of Teaching	Course Teacher
June '23	I	Introduction to Client/server computing: Overview of Client/Server Computing: Client Server Computing - Benefits of Client/Server Computing. Evolution of Client/Server Computing: Hardware Trends - Software Trends. Overview of Client/Server Applications: Components of Client/Server Applications - Classes of Client/Server Applications - Categories of Client/Server Applications.	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. G.Amudha <i>G. Amudha</i>
July '23	II	Understanding Client/Server Computing: Dispelling the Myths - Obstacles-Upfront and Hidden - Open Systems and Standards – Standards - Setting Organizations - Factors for Success. The Client: Client Hardware and Software: Client Components - Client Operating Systems - What is GUI - X Window Vs Windowing - Database Access - Application Logic. Client Software Products: GUI Environments - Converting 3270/5250 Screens - Database Access Tools.	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. G.Amudha <i>G. Amudha</i>
Aug '23	III	Client Requirements: GUI Design Standards - GUI Design Standards - Open GUI Standards - Interface Independence - Testing Interface - Development Aids. The Server: Server Hardware – Benchmarks - Categories of Servers - Features of Server Machines - Classes of Server Machines. Server Environment: Eight Layers of Software - Network	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. G.Amudha <i>G. Amudha</i>

		Management Environment - Network Computing Environment - Extensions -Network Operating System - Loadable Modules.			
Sep '23	IV	Server Operating Systems: OS/2 2.0 - Windows New Technology - UNIX -Based Operating Systems. Server Requirements: Platform Independence - Transaction Processing - Connectivity - Intelligent Database - Stored Procedures - Triggers - Load Leveling - Optimizer - Testing and Diagnostic Tools - Reliability - Backup and Recovery Mechanisms.	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. G.Amudha <i>G.Amudha</i>
Oct '23	V	Server Data Management and Access Tools: Data Manager Features - Data Management Software - Database Gateways. Overview of Networking: Layers, Interfaces, and Protocols-Standard Architecture - Network Characteristics - Network Management Standards - LAN Characteristics.	15	Seminar, PPT presentation, Activity and Model Preparation	Mrs. G.Amudha <i>G.Amudha</i>


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LESSON PLAN

2023-2024

Class : I M.Sc. IT Semester : I Sub. Code : 23OPIT11
Title of the Paper: Python Programming Total Hours : 105

Month	UNIT	Course Content	No. of Hours	Mode of Teaching	Course Teacher
June' 23	I	Core Python: Introduction -Python Basics: Comments - Statements and syntax – variable Assignment - Identifiers - Python objects: Built-in-types - Internal types - Standard Type operators - Standard Type Built-in-functions. Numbers: Introduction to Numbers - Integers –Floating point numbers-Complex numbers-Operators-Built-in and factory functions–Conditionals and Loops- Sequences: Strings, Lists and Tuples.	21	Chalk and Talk, PPT	Mrs. S.Sumathi
July'23	II	Mapping and set types. Functions and functional programming: Introduction Calling functions- Creating functions- passing functions-Formal arguments-Variable Length Arguments-Functional Programming- Variable Scope – Recursion.	21	Chalk and Talk, PPT	Mrs. S.Sumathi
Aug' 23	III	Modules: Modules and Files – namespaces - Importing Modules - Features - Built-in functions. Object Oriented Programming: Introduction- Object Oriented Programming – Encapsulation Inheritance–Polymorphism - Errors and Exceptions :Introduction –Exceptions in Python.	21	Chalk and Talk, PPT	Mrs. S.Sumathi
Sep '23	IV	GUI Programming: Introduction – Using Widgets: Core widgets- Generic widget properties –Labels–Buttons–RadioButtons–CheckButtons–Text–Entry–ListBoxes–Menus–Frame– Scroll Bars – Scale.	21	Chalk and Talk, PPT	Mrs. S.Sumathi
Oct '23	V	Database Programming: Connecting to a data base using Mongo DB-Creating Tables-INSERT-UPDATE-DELETE-READ operations.	21	Seminar, PPT presentation	Mrs. S.Sumathi
		Total	105		


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LESSON PLAN
2023-2024

Class : I M.Sc. IT

Semester : I

Sub. Code : 23OPITDSE1A

Title of the Paper: Computer System Architecture

Total Hours : 75

Month	UNIT	Course Content	No. of Hours	Mode of Teaching	Course Teacher
June' 23	I	UNIT I BASIC COMPUTER ORGANIZATION AND DESIGN: Instruction Codes – Stored Program Organization – Indirect Address – Computer Registers – Computer Instructions – Timing and Control – Instruction Cycle – Memory Reference Instructions.	15	Chalk and Talk, PPT	Mrs. G,Amudha <i>G. Amudha</i>
July'23	II	UNIT II PROGRAMMING THE BASIC COMPUTER: Instruction – Machine Language – Assembly Language – The Assembler – Program Loops – Programming Arithmetic and Logic Operations – Subroutines – Input/output Programming.	15	Chalk and Talk, PPT	Mrs. G,Amudha <i>G. Amudha</i>
Aug' 23	III	UNIT III CENTRAL PROCESSING UNIT: Introduction – General Register Organization – Stack Organization – Instruction Formats – Addressing Modes – Data Transfer and Manipulation – Program Control – Reduced Instruction Set Computer.	15	Chalk and Talk, PPT	Mrs. G,Amudha <i>G. Amudha</i>
Sep '23	IV	UNIT IV INPUT/OUTPUT ORGANIZATION: Peripheral Devices – I/O Interface – Priority Interrupt – Direct Memory Access – DMA Controller – DMA Transfer.	15	Chalk and Talk, PPT	Mrs. G,Amudha <i>G. Amudha</i>
Oct '23	V	UNIT V MEMORY ORGANIZATION: Memory Hierarchy – Main Memory – Auxiliary Memory – Associative Memory – Cache Memory – Virtual Memory.	15	Seminar, PPT resentation	Mrs. G,Amudha <i>G. Amudha</i>
		Total	75		

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LESSON PLAN
2023-2024

Class : I M.Sc. IT

Semester :I

Sub. Code : 23OPITDSE1C

Title of the Paper: Data Structures and Algorithms

Total Hours : 75

Month	UNIT	Course Content	No. of Hours	Mode of Teaching	Course Teacher
June' 23	I	Trees: Heaps–Binary Search Trees–Selection Trees–Forests– Representation of Disjoint Sets –Counting Binary Trees. Graphs: The Graph Abstract Data type – Elementary Graph Operations – Minimum Cost Spanning Trees – Shortest Paths and Transitive Closure–Activity Networks.	15	Chalk and Talk, PPT	Ms.B.Yuvashree <i>[Signature]</i>
July' 23	II	Hashing: Introduction – Static hashing – Dynamic hashing – Bloom filters. Priority Queues: Single and Double ended priority queues – Leftist Trees – Binomial Heaps–Fibonacci Heaps–Pairing Heaps –Symmetric Min-Max Heaps – Interval Heaps.	15	Chalk and Talk, PPT	Ms.B.Yuvashree <i>[Signature]</i>
Aug' 23	III	Efficient binary search trees: Optimal Binary Search Trees–AVL Trees– Red Black Trees–Splay Trees. Multway Search Trees: m-way Search Trees–B-Trees –B+-Trees.	15	Chalk and Talk, PPT	Ms.B.Yuvashree <i>[Signature]</i>
Sep '23	IV	Dynamic Programming: The General Method – Multistage graphs – All-pairs shortest paths – Single-source shortest paths – Optimal binary search trees – string editing – 0/1 knapsack – reliability design – The Travelling Salesperson problem – flow shop scheduling. Basic Traversal and Search Techniques: Techniques for Binary Trees –Techniques for Graphs – Connected Components and Spanning Trees – Bi connected Components and DFS.	15	Chalk and Talk, PPT	Ms.B.Yuvashree <i>[Signature]</i>
Oct '23	V	Backtracking: The General Method–The 8-Queens Problem–Sum of subsets –Graph coloring – Hamiltonian cycles–Knapsack problem. Branch and Bound: The Method–0/1 Knapsack problem–Traveling Salesperson (*)– Efficiency considerations.	15	Seminar, PPT presentation	Ms.B.Yuvashree <i>[Signature]</i>

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LESSON PLAN
2023-2024



Class : II M.Sc. IT

Semester :III


Sub. Code : 22OPIT37 Title of the Paper: Relational Database Management System

Total Hours : 75

Month	UNIT	Description of The Syllabus	No. of Hours	Mode of Teaching	Course Teacher
June '23	I	<p>Introduction: Purpose of Database System – View of Data – Database languages – Relational Databases – Database Design – Data Storage and Querying – Transaction Management – Database Architecture – Database Users and Administrators.</p> <p>Relational Model: Structure of Relational Databases – Fundamental Relational-Algebra Operations- Additional Relational-Algebra Operations – Extended Relational Algebra Operations – Null Values – Modification of the Data Base.</p>	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Boomadevi <i>R.Boomadevi</i>
July '23	II	<p>SQL: Data Definition – Basic Structure of SQL Queries – Set Operations –Aggregate Functions – Null Values – Nested Sub queries – Complex queries – views –Modification of the Database – Other Relational Languages: The Tuple Relational Calculus – The Domain Relational Calculus – Query By Example – Data log.</p>	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Boomadevi <i>R.Boomadevi</i>
Aug '23	III	<p>Database Design and The Entity – Relationship Model:</p> <p>The Entity-Relationship Model – Constraints – Entity-Relationship Diagrams – Entity-Relationship Design Issues – Weak Entity sets – Extended E-R Features – Relational Database Design: Features of Good Relational Designs – Atomic Domains and First</p>	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Boomadevi <i>R.Boomadevi</i>

		Normal Form – Decomposition Using Functional Dependencies – Functional-Dependency Theory – Decomposition Using Functional Dependencies – Decomposition using Multivalued Dependencies.			
Sep '23	IV	Storage and File Structure: Overview of Physical Storage media – Magnetic Disks – RAID - Tertiary Storage – Storage Access – File Organization – Organization of Records in Files – Data-Dictionary Storage – Indexing and Hashing: Basic Concepts – B+- Tree Index Files – B- Tree Index Files - Multiple-Key Access – Static Hashing – Dynamic Hashing.	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Boomadevi 
Oct '23	V	Query Processing: Selection Operation – Sorting – Join Operation – Other Operation – Query Optimization: Transformation of Relational Expression – Estimating Statistics of Expression Results – Transactions: Transaction Concept – Transaction State – Concurrent Executions – Testing for Serializability.	15	Seminar, PPT presentation, Activity and Model Preparation	Mrs. R.Boomadevi 


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LESSON PLAN

2023-2024



Class : II M.Sc. IT Semester : III

Sub. Code : 22OPIT32


Title of the Paper: Java and J2EE Programming


Total Hours : 75

Month	UNIT	Description of The Syllabus	No. of Hrs.	Mode of Teaching	Course Teacher
June' 23	I	<p>Introducing classes: Class Fundamentals, Declaring Object, assigning object reference variables, Constructors, This key word, Garbage collection, overloading methods, Accesscontrol, final key word, nested and inner classes.</p> <p>Inheritance: Inheritance Basics - Using super - Creating a Multilevel Hierarchy When Constructors Are Called -, Method Overriding. - Dynamic Method Dispatch-. Why Overridden Methods? - Applying Method Overriding -Using Abstract Classes - Using final with Inheritance -Using final to Prevent Overriding - Using final to Prevent Inheritance -The Object Class - Packages and Interfaces: Defining a Package. -Finding Packages and CLASSPATH - A Short Package Example Access Protection. An Access Example Importing Packages - Interfaces - Defining an Interface - Implementing Interfaces Nested Interfaces - Applying Interfaces -Variables in Interfaces -Interfaces Can Be Extended .</p>	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Lakshmi <i>Rly</i>
July' 23	II	<p>Exception Handling - Exception-Handling Fundamentals - Exception Types - Uncaught Exceptions .- Using try and catch . Displaying a Description of an Exception . Multiple catch Clauses - Nested try Statements - throw . throws finally - Java's Built-in Exceptions . Creating Your Own Exception Subclasses . . Chained Exceptions . Using Exceptions</p> <p>Multithreaded Programming - The Java Thread Model - Thread Priorities - Synchronization Messaging - The Thread Class and the Runnable Interface The Main Thread - Creating a Thread -. Implementing Runnable .-Extending Choosing an Approach .-Creating Multiple Threads - Using isAlive() and join() - Thread Priorities - Networking: Networking Basics - The Networking Classes and Interfaces InetAddress -Factory Methods - Instance Methods - Inet4Address and Inet6Address -. TCP/IP Client Sockets -.URL - URLConnection --</p>	15	Quiz, Chalk & Talk, Exercise, Spot test, Assignment, Seminar	Mrs. R.Lakshmi <i>Rly</i>

		HttpURLConnection - The URI Class -Cookies - TCP/IP Server Sockets - Datagram - DatagramSocket - DatagramPacket - A Datagram Example .			
Aug' 23	III	<p>The Applet Class: Two Types of Applets - Applet Basics -The Applet Class - Applet Architecture - An Applet Skeleton - Applet Initialization and Termination -Overriding update() Simple Applet - Display Methods-Requesting Repainting -A Simple Banner Applet -Using the Status Window - The HTML APPLET Tag - Passing Parameters to Applets - Improving the Banner Applet getDocumentBase() and getCodeBase() AppletContext and showDocument() -The AudioClip Interface . The AppletStub Interface . Outputting to the Console.</p> <p>Introducing the AWT: Working with Windows, Graphics and Text : AWT Classes - Window Fundamentals - Component - Container Panel - Window - Frame -Canvas - Working with Frame Windows - Setting the Window's Dimensions - Hiding and Showing a Window- Setting a Window's Title - Closing a Frame Window - Creating a Frame Window in an Applet- Handling Events in a Frame Window - Creating a Windowed Program - Displaying Information Within a Window . Working with Graphics- Drawing Lines . Drawing Rectangles - Drawing Ellipses and Circles- Drawing-Arcs - Drawing- Polygons Sizing Graphics - Working with Color - Color Methods - .Setting the Current Graphics Color -A Color Demonstration -Applet-Setting the Paint Mode Working with Fonts - Determining the Available Fonts - Creating and Selecting a Font - - Obtaining Font Information - Managing Text Output Using Font Metrics - Displaying Multiple Lines of Text -Java Beans :What Is a Java Bean? - Advantages of Java Beans - Introspection -Design Patterns for Properties- Design Patterns for Events Methods and Design -Patterns Using the BeanInfo Interface-Bound and Constrained Properties - Persistence -Customizers- The Java Beans API - Introspector PropertyDescriptor— EventSetDescriptor-. Method Descriptor A Bean Example.</p>	15	Exercise, Assignment, video material, Group Discussion	 Mrs. R.Lakshmi
Sep '23	IV	J2EE Database Concepts -Data-Database-Database Schema-The Art of Indexing-- JDBC Objects -The concept of JDBC-JDBC Driver Types-JDBC Package-A Brief Overview of the JDBC Process-Database Connection-Associating the JDBC /ODBC Bridge with the Database-Statement Objects-ResultSet-transaction Processing-Metadata-DataTypes-Exceptions.	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Lakshmi 
Oct '23	V	JAVA SERVLETS -Java servlets and Common Gateway Interface Programming-Benefits of using a	15	Seminar, PPT	Mrs. R.Lakshmi

	java servlet-A simple Java Servlet-Anatomy of a java servlet-Reading Data from a client-reading HTTP Request Headers-sending Data to a client and writing the HTTP Response Header-Working with Cookies—Tracking Sessions— JAVA SERVER PAGES —JSP-JSP Tags—Tomcat—Request String—User Sessions—Cookies—Session Objects.	presentation , Activity and Model Preparation	
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LESSON PLAN
2023-2024

Class : II M.Sc. IT

Semester : III

Sub. Code : 22OPIT33 Title of the Paper: Data Mining and Warehousing

Total Hours : 75

Month	UNIT	Description of The Syllabus	No. of Hours	Mode of Teaching	Course Teacher
June '23	I	Data Mining A First View: Data Mining Definition – Three Concept Views – Supervised Learning – Unsupervised Clustering – Data Mining Vs Data Query - An Example – Data Mining Vs Expert Systems – A simple Data Mining process Model - Data Mining Applications.	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Vishnu priya <i>P. Vishnu priya</i>
July '23	II	Data Mining A Closer Look: Data Mining Strategies – Supervised Data Mining Techniques – Association Rules – Clustering Techniques – Evaluating Performance.	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Vishnu priya <i>P. Vishnu priya</i>
Aug '23	III	Data Mining Techniques: Decision Trees – Generating Association Rules – The K-Means Algorithm – Genetic Learning – Choosing a Data Mining Technique.	15	Chalk and Talk, PPT, quiz, test	Mrs. R.Vishnu priya <i>P. Vishnu priya</i>
Sep '23	IV	Knowledge Discovery in Databases: A KDD Process Model – Goal Identification – Creating a Target Dataset – Data Preprocessing – Data Transformation – Data Mining – Interpretation and Evaluation – Taking Action - The CRISP-DM Process Model – Experimenting with ESX.	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Vishnu priya <i>P. Vishnu priya</i>
Oct '23	V	The Data Warehouse: Operational Databases – Data Warehouse Design – OnLine Analytical Processing – OLAP: An Example. Formal Evaluation Techniques: Components for Supervised learning – Tools for Evaluation – Computing Test Set Confidence Intervals – Comparing Supervised Learner Models.	15	Seminar, PPT presentation, Activity and Model Preparation	Mrs. R.Vishnu priya <i>P. Vishnu priya</i>

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LESSON PLAN
2023-2024

Class : II M.Sc. IT

Semester : III


Sub. Code : 22OPITDSE3A


Title of the Paper: Mobile Computing

Total Hours : 75

Month	UNIT	Description of The Syllabus	No. of Hours	Mode of Teaching	Course Teacher
June '23	I	Mobility of Bits and Bytes-Wireless The beginning -Mobile computing -Dialogue Control-Networks-Middleware and Gateways-Applications and Services-Developing Mobile Computing Applications - Security in Mobile Computing-Standards -Standard Bodies-Players in the wireless space. Mobile Computing Architecture: History of computers-History of Internet-Internet-The Ubiquitous Networks -Architecture for Mobile Computing -Three tier Architecture-Design consideration for mobile computing-Mobile computing through Internet-Making existing applications mobile enabled.	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Raja Sangeetha <i>R.R.</i>
July '23	II	Mobile computing through Telephony-Evolution of Telephony-Multiple Access Procedures- Satellite Communication System-Mobile computing through telephone-Developing an IVR Application-Voice XML-Telephony Application Programming Interface. Emerging Technologies: Introduction-Bluetooth-Radio Frequency Identification(RFID)-Wireless broadband(WIMAX)-Mobile IP-Internet Protocol Version6(IPV6)-Java Card.	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Raja Sangeetha <i>R.R.</i>
Aug '23	III	Global System for mobile Communication-Global System for Mobile Communications- GSM Architecture-GSM Entities -Call routing in GSM-PLMN interfaces-GSM address and Identifiers-Network aspects in GSM -GSM Frequency Allocation-Personal Communication Service-Authentication and Security.	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Raja Sangeetha <i>R.R.</i>
Sep '23	IV	Wireless Application Protocol -Introduction-WAP- MMS - GPRS applications - CDMA and 3G: Introduction-Spread Spectrum technology -Is 95-CDMA versus GSM- Wireless Data- Third Generation Networks-Applications on 3G.	15	Chalk and Talk, PPT, quiz, on the spot test	Mrs. R.Raja Sangeetha <i>R.R.</i>

Oct '23	V	<p>Wireless LAN: Introduction-Wireless LAN advantages-IEEE 802.11 standards –wireless LAN architecture –mobility in wireless LAN-deploying wireless LAN-Mobile adhoc Networks and sensor Networks-wireless LAN security-Wireless Access in Vehicular Environment-Wireless Local Loop-HiperLAN- WiFi versus 3G.</p> <p>Intelligent Networks and Interworking: Introduction- Fundamentals of call processing – Intelligence in the networks –SS#7 signaling –IN Conceptual Model-Soft switch -Programmable networks-Technologies and Interfaces for IN-SS7 Security-MAPSec-Virtual Private Network(VPN).</p>	15	Seminar, PPT presentation , Activity and Model Preparation	Mrs. R.Raja Sangeetha
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