

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

2022-2023

DEPARTMENT OF **INFORMATION TECHNOLOGY**

(UG –Odd & Even Semester)



01

E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI – 625 014.
(An Autonomous Institution – Affiliated to Madurai Kamaraj University)
Re-accredited (3rd Cycle) with Grade A+ & CGPA 3.51 by NAAC

LESSON PLAN
2022-2023

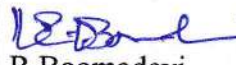

Class : II M.Sc IT



Semester : V

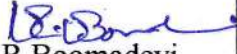
Sub. Code : 21OPI31

Title of the Paper: Relational Database Management System

Total Hours : 75 Hours

Month	Unit	Description of the Syllabus	Hrs	Teaching Mode & Methods	Course Teacher Signature
July 2022	I	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 – Structure of Relational Databases – Fundamental Relational-Algebra Operations. Extended Relational Algebra Operations – Null Values – Modification of Data Base.	15	Chalk & Talk, PPT	 R.Boomadevi
Aus - 2022	II	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.	15	Chalk & Talk, Spot test, Exercise, Assignment, PPT, Video material.	

		Database Design and The Entity – Relationship Model: The Entity-Relationship Model – Constraints – Entity-Relationship Diagrams – Entity-Relationship Design Issues – Weak Entity sets – Extended E-R Features.	15	Chalk & Talk, Exercise, PPT, video material	
Sep-2022	III	Relational Database Design: Features of Good Relational Designs – Atomic Domains and First Normal Form – Decomposition Using Functional Dependencies – Functional-Dependency Theory – Decomposition Using Functional Dependencies – Decomposition using Multivalued Dependencies.			 R.Boomadevi
Oct-2022	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 & Talk, Exercise, Assignment, video material, Group Discussion	 R.Boomadevi

Nov-2022	V	<p>Query Processing: Selection Operation – Sorting – Join Operation – Other Operation – Query Optimization: Transformation of Relational Expression – Estimating Statistics of Expression Results.</p> <p>Transactions: Transaction Concept – Transaction State – Concurrent Executions – Testing for Serializability.</p>	15	Quiz, Chalk & Talk, Exercise, Spot test, Assignment, Seminar	 R.Boomadevi
----------	---	---	----	--	--


Signature of the HOD


Signature of the Principal



01




E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI – 625 014.
(An Autonomous Institution – Affiliated to Madurai Kamaraj University)
Re-accredited (3rd Cycle) with Grade A+ & CGPA 3.51 by NAAC



LESSON PLAN
2022-2023


Class : II M.Sc. IT
Course Code : 21OPI32
Course Title: Java and J2EE Programming


Semester :III

Total Hours : 75 Hrs.

Month	Unit	Description of the Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July 2022	I	Introducing classes: Class Fundamentals, Declaring Object, Assigning object reference variables, Constructors, This key word, Garbage collection, overloading methods, Access control, final key word, nested and inner classes.	14	Chalk & Talk, PPT	 [R.Lakshmi]
Aus 2022	II	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	14	Chalk & Talk, Spot test, Exercise, Assignment, PPT, Video material.	 [R.Lakshmi]
Sep 2022	III	Packages and Interfaces Defining a Package . -Finding Package and CLASSPATH - A Short Package Example Access Protection . An Access Example Importing Packages Interfaces - Defining an Interface Implementing Interfaces Nests	16	Chalk & Talk, Exercise, PPT, video material	 [R.Lakshmi]

		Interfaces - Applying Interfaces Variables in Interfaces -Interfaces Can Be Extended.			
Oct 2022	IV	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.	15	Chalk & Talk, Spot test, Exercise, Assignment, PPT, Video material.	 [R.Lakshmi]
Nov 2022	V	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	16	Chalk & Talk, Exercise, Spot test, video material, Group Discussion	 [R.Lakshmi]


Signature of the HOD


Signature of the Principal



E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI - 625 014.
(An Autonomous Institution - Affiliated to Madurai Kamaraj University)
Re-accredited (3rd Cycle) with Grade A⁺ & CGPA 3.51 by NAAC



LESSON PLAN
2022-2023

Class : I M.Sc., IT
Course Code: 21OPINM1

Semester : I

Course Title : Photo Designing

Total Hours : 30 Hours

Month	Unit	Description of the Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July 2022	I	Getting into Photoshop: Introduction - Best in Photoshop 7.0 - Photoshop Interface Saving the File- Importing Existing File.	6	Lecture, GD	 [R.Lakshmi]
Aus 2022	II	Editing and Retouching: Working with Selections- Getting started with the Selection tool-Selection with Rectangle Marquee Tool- Selection with Elliptical Marquee Tool-Moving a Selection-Moving with Keyboard Shortcut-Selection with the Magic Wand- Selection with Lasso Tool- Adding and Subtraction Selection-Selection with the Magnetic Lasso- Transforming a Selection- Combining Selection Tools- Cropping the Completed Image-Quick Mask tool to	6	Lecture, PPT	 [R.Lakshmi]

		make Selection-Enabling the Quick Mask Mode- Adjusting Quick Mask Setting-Patch Tool-Paint Tools-Image Color Adjustments			
Sep 2022	III	Making Artistic use of Photoshop: Painting Tools- Working with Brushes-Drawing-Eraser Tool-Brushes Palette-Pen Tool-Selecting an Image with Pen Tool-Editing and Cleaning Tools-Clone Stamp Tool- Healing Brush-Image Resizing.	6	Lecture, PPT	[R.Lakshmi]
Oct 2022	IV	Building Original Art work: Layers-Creating A Layer -Layer Mask-Transform-Custom shapes -Create Your own Custom shapes.	6	Lecture, PPT	[R.Lakshmi]
Nov20 22	V	Transforming Images with Filters: Filters-Text Tool-Text Wrap-Try it.	6	Lecture, GD, Assignment	[R.Lakshmi]


Signature of the HOD


Signature of the Principal



E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI - 625 014.

(An Autonomous Institution - Affiliated to Madurai Kamaraj University)
Re-accredited (3rd Cycle) with Grade A+ & CGPA 3.51 by NAAC

LESSON PLAN 2022-2023



Class : I - M.Sc.(IT)

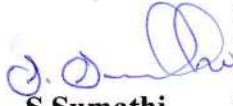


Sub. Code : 22OPIT13

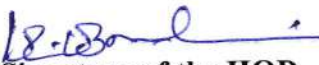
Title of the Paper: Data Structure and Algorithms

Semester : I

Total Hours : 60 Hours

Month	Unit	Description of the Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July-2022	I	Basic Concepts: Overview : System life cycle - Object Oriented Design - data abstraction and encapsulation - basics of C++ - algorithm specification performance analysis and measurements. Arrays: Abstract data types and the C++ class - the array as an abstract data type - representation of arrays - the string abstract data type. Stacks & Queues: Templates in C++ - the stack abstract data type - the queue abstract data type - subtyping and inheritance in C++.	12	Chalk & Talk, PPT, Slide Share	 S.Sumathi
Aug-2022	II	Linked Lists: Singly linked lists and Chains - representing chains in C++ - The Template Class chain - circular lists - linked stacks & queues- Polynomials - doubly linked lists - generalized lists.	12	Chalk & Talk, Spot test, Exercise, Assignment, PPT, Video material.	 S.Sumathi

Sep-2022	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	 S.Sumathi
Oct-2022	IV	Graphs: The Graph Abstract Data Type – Elementary Graph Operation – Minimum Cost Spanning Tree – Shortest Paths and Transitive Clousure. Hashing: Introduction – Static Hashing – Dynamic Hashing – Bloom Filters.	12	Chalk & Talk, Exercise, Assignment, video material, Group Discussion	 S.Sumathi
Nov-2022	V	Efficient Binary Search Trees: Optimal Binary Search Trees - AVL trees - Red Black trees - Splay trees. Multiway Search Trees: m-way Search Trees – B Trees – B+ Trees.	12	Quiz, Chalk & Talk, Exercise , Spot test, Assignment, Seminar	 S.Sumathi


Signature of the HOD


Signature of the Principal



E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI - 625 014.

(An Autonomous Institution – Affiliated to Madurai Kamaraj University)
Re-accredited (3rd Cycle) with Grade A⁺ & CGPA 3.51 by NAAC

**LESSON PLAN
2022-2023**


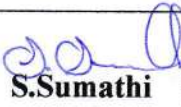
Class : I- UG


Sub. Code : 22OUITID1


Title of the Paper: IDC- Windows Tools and Applications


Semester : I

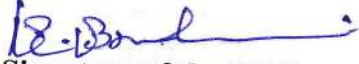
Total Hours : 30 Hours


Month	Unit	Description of the Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July-2022	I	MS - Word: About MS-Word 2000 – File Menu: New – Open – Close – Save – Save as a Web page – Page setup – Print – Edit Menu: Editing Text – Selecting Text – Undo Typing – Redo Typing – Cut – Deleting text – Copy – Paste – Paste as Hyperlink – Select all – Find and Replace – View Menu: Normal View – Web Layout – Print Layout – Ruler – Document map – Header and Footer – Full Screen – Insert Menu: Break – Page Number – Date & Time – Auto Text – Field – Symbol – Footnote & End note – Caption – Cross-reference – Index & Tables – Picture – Textbox – Hyperlink.	6	Chalk & Talk, PPT, Slide Share	 S.Sumathi
	II	II MS-Word: Format menu: Font – Paragraph – Bullets &	6	Chalk & Talk, PPT, Quiz	 S.Sumathi

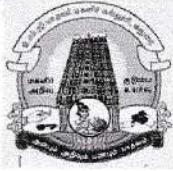
Aug-2022		Numbering – Borders & Shading – Theme – Frames Auto Format – Style – Tool Menu: Spelling & Grammar – Language – Word Count – Auto Summarize – Track Changes – Merge Documents – Protect Documents – Online Collaboration – Mail Merge – Table Menu: Draw Table – Insert Table –Delete – Select – Merge Cells – Split Cells – Split Table – Table Auto Format.			
Sep-2022	III	MS-EXCEL: About Excel : Starting Excel – Navigating Worksheets – Opening a New Work Book – Entering Data, Text, Numbers , Dates & Times, Formulas – Entering labels and data – Excel Functions – Creating text, Numbers & date Series – Undo & redo – Saving Workbooks – Editing Worksheet – clearing a cell – Copying data – Moving Data – Inserting rows, columns and cell ranges – Deleting rows, columns and cell ranges – Headers and Footers – Find and Replace – Formatting Worksheets: Numeric Formatting – Custom Formatting – Date & Time Formats – Alignment – Wrap Text – Merge Cells – Orientation – Font	6	Chalk & Talk, PPT,	 S.Sumathi

		<ul style="list-style-type: none"> - Borders - Patterns - Changing row Height - Sheet - Charts: Creating a chart - Save & Print a Chart - Save & Printing Worksheets. 			
Oct-2022	IV	<p>Microsoft PowerPoint:</p> <p>About Power Point: Starting Power Point - Creating a presentation using Auto content Wizard - Creating a Design template - Creating a Blank presentation - Opening an existing presentation - Saving and Closing presentation - Existing Power Point - View, Insert & Edit in Presentation: Using Master - Inserting and Deleting Slides - Viewing a presentation - Entering, Editing, Inserting, Deleting, Moving and Copying text - Inserting text in bulleted list text place holders - Formatting in Presentations: Changing the case of the text - Check Spell - Formatting text - Alignment - Line Spacing - Back ground - Colors & Lines - Header and Footer.</p>	6	Chalk & Talk, PPT, Quiz, Assignment	 S.Sumathi
	V	<p>Microsoft PowerPoint: Inserting Pictures: Inserting Clip art Pictures - Auto shaped feature to add object - Adding movies &</p>			

Nov-2022	<p>sounds – Organization Chart – Word Art – Inserting Table, Chart and Object – Slid Show in Presentations: Presentation with group of Slide – View Show – Rehearse Timings – Record Narration – Setup Show for Self-running presentation – Preset & Custom Animation – Slide Transition – Hide Slide – Action Buttons – Custom Shows – Printing a presentation.</p>	6	Chalk & Talk, PPT, Group Discussion	<p>S.Sumathi</p> 
----------	---	---	-------------------------------------	--


Signature of the HOD


Signature of the Principal



E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI – 625 014.



(An Autonomous Institution – Affiliated to Madurai Kamaraj University)
Re-accredited (3rd Cycle) with Grade A+ & CGPA 3.51 by NAAC



**LESSON PLAN
2022-2023**

Class : I – M.Sc.(IT)
Sub. Code : 22OPIT11

Semester : I
Total Hours : 75 Hours

Title of the Paper: Computer Architecture

Month	Unit	Description of the Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July-2022	I	Digital Logic Circuits: Digital Computers- Logic Gates – Boolean Algebra- Map Simplification- Combinational Circuits- Flip-flops- Sequential Circuits. Digital Components: Integrated Circuits-Decoders – Multiplexer – Registers – Shift Registers – Binary Counters – Memory Unit. Data Representation: Data Types-Complements-Fixed Point Representation-Floating Point Representation – other Binary Codes-Error Detection Codes.	15	Chalk & Talk, PPT, Slide Share	 S.Sumathi
Aug -2022	II	Register Transfer and Micro operation: Register Transfer Language- Register Transfer – Bus and Memory Transfer – Arithmetic Micro Operation – Logic Micro Operation – Shift Micro operation- Arithmetic Logic Shift Unit. Basic Computer Organization and Design: Instruction Codes- Computer Registers- Computer Instructions- Timing – Timing And Control- Instruction Cycle- Memory Reference Instructions – Input And Output And Interrupt.		Chalk & Talk, Spot test, Exercise, Assignment, PPT, Video Material.	 S.Sumathi
		Micro programmed Control: Control Memory – Addressing		Chalk & Talk,	

Sep - 2022	III	<p>Sequencing – Micro Program Example – Design of Control Unit.</p> <p>Central Processing Unit: Introduction – General Register Organization – Stack Organization – Instruction Formats- Addressing Modes- Data Transfer And Manipulation – Programmed Control.</p>		Exercise, PPT, video material	 S.Sumathi
Oct-2022	IV	<p>Computer Arithmetic: Introduction- Addition and Subtraction – Multiplication Algorithm – Division Algorithm.</p>		Chalk & Talk, Exercise, Assignment, video material, Group Discussion	 S.Sumathi
Nov-2022	V	<p>Input Output Organization: Peripheral Devices – Input Output Interfaces Asynchronous Data Transfer, Modes of Transfer, Direct Memory Access, Input Output Processor, Serial Communication.</p> <p>Memory Organization: Memory Hierarchy, Main Memory, Auxiliary Memory, Associative Memory, Cache Memory Virtual Memory.</p>		Quiz, Chalk & Talk, Exercise , Spot test, Assignment, Seminar	 S.Sumathi


Signature of the HOD


Signature of the Principal



E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI – 625 014.
(An Autonomous Institution – Affiliated to Madurai Kamaraj University)
Re-accredited (3rd Cycle) with Grade A+ & CGPA 3.51 by NAAC


**LESSON PLAN
2022-2023**

Class : I B.Sc. IT
Course Code : 22OUITGEIT1
Course Title: Digital Principles and Applications

Semester :I
Total Hours : 75 Hrs.

Month	Unit	Description of the Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July 2022	I	Number systems & Discrete logic: why binary – binary to decimal – decimal to binary – octal-hexadecimal – ASCII Code – Excess 3 code – Gray code Transistor invertors – OR gates-AND gates- Boolean algebra-NOR gates-NAND gates.	15	Chalk & Talk, PPT	[G.Amudha] G. Amudha
Sep 2021	II	Circuit analysis & design: Boolean law & theorems- sum of products method – K map truth tables-pairs , quads, octets K map simplifications-don't care-product of sum method , sum of product simplifications.	15	Chalk & Talk, Spot test, Exercise, Assignment, PPT, Video material.	[G.Amudha] G. Amudha
Oct 2021	III	Data processing & arithmetic circuits: Multiplexers –Demultiplexers – 1 of 16 decoders –BCD-to decimal decoders – 7segment decoders – encoders – exclusive	15	Chalk & Talk, Exercise, PPT, video material	[G.Amudha] G. Amudha

		OR gates Binary addition – binary subtraction , 2's & 1's complement representation – complement arithmetic – arithmetic building blocks.			
Nov 2021	IV	Flip-flops , clocks & timers: RS Flip flop – D flip flop- JK flip-flop-JK Master slave Flip flop Schmitt trigger – 555 timer A stable – 555 timer Monostable – 555 timer Schmitt trigger.	15	Chalk & Talk, Spot test, Exercise, Assignment, PPT, Video material.	[G. Amudha] G. Amudha
Dec 2021	V	Shift Registers & Counters : Types of register – serial in serial out – Parallel in – serial out-parallel in parallel out Ring counter – Ripple counter – synchronous counter – mod counter.	15	Chalk & Talk, Exercise, Spot test, video material, Group Discussion	[G. Amudha] G. Amudha


Signature of the HOD


Signature of the Principal



E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI – 625 014.
(An Autonomous Institution – Affiliated to Madurai Kamaraj University)
Re-accredited (3rd Cycle) with Grade A⁺ & CGPA 3.51 by NAAC

LESSON PLAN
2021-2022

Class : I M.Sc., IT

Semester : I

Course Code: 21OPI12

Total Hours : 60 Hours

Course Title : Object Oriented Programming with C++

Month	Unit	Description of the Syllabus	Hours Allotted	Teaching Mode & Methods	Course Teacher Signature
Aug 2021	I	Software Crisis – Software Evolution – Basic Concepts of Object-Oriented Programming – Benefits of OOP – Object-Oriented Languages - Applications of OOP – Application of C++ - Structure of a C++ Program – Tokens – Keywords – Identifiers – Basic Data Types – User-defined Data types – Derived data types – Symbolic constants – Type compatibility – Declaration of variables – Dynamic initialization of variables – Reference variables – Operators in C++ - Manipulators – Type cast operator – Expressions and their types-Implicit conversions – Control structures – The main function – Function prototyping – inline functions – Function overloading	12	Chalk & Talk, PPT	[G.Amudha] G. Amudha
Sep 2021	II	functions – Making an outside function inline – Nesting of member functions – Private member functions – Array within a class – Memory allocation for objects – Static data members – Static member functions – Array of objects - Objects as function arguments – Friendly functions – Returning objects –	12	Chalk & Talk, Spot test, Exercise, Assignment, PPT,	G. Amudha [G.Amudha]

		Constant member functions – Constructors – Parameterized constructor – Multiple constructors in a class – Constructors with default arguments – Dynamic initialization of objects – Copy constructor – Destructors.		Video material	
Oct 2021	III	Defining operator overloading – Overloading unary operators – Overloading binary operators– Overloading binary operators using friend function – Rules for overloading operators - Defining derived classes – Single inheritance – Making a private member inheritable – Multilevel inheritance – Multiple inheritance – Hierarchical inheritance – Hybrid inheritance - Virtual base classes – Constructors in derived class – Member classes: Nesting of classes.	12	Chalk & Talk, Exercise, PPT, video material	G. Amudha [G. Amudha]
Nov 2021	IV	Pointer to objects – this pointer – Pointers to derived classes – Virtual functions – Pure virtual functions – C++ Stream classes – Unformatted I/O operations – Managing output with manipulators.	12	Chalk & Talk, Exercise, Assignment, video material, Group Discussion	G. Amudha [G. Amudha]
Dec 2021	V	Classes of file stream operations – Opening and Closing files – Detecting end of file – More about open() function – File modes, File pointers and their manipulation – Sequential input and output operations – Command-line arguments- Templates: class templates and function templates.	12	Quiz, Chalk & Talk, Exercise, Spottest, Assignment, Seminar	G. Amudha [G. Amudha]


Signature of the HOD


Signature of the Principal








E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI – 625 014.
(An Autonomous Institution – Affiliated to Madurai Kamaraj University)
Re-accredited (3rd Cycle) with Grade A⁺ & CGPA 3.51 by NAAC


LESSON PLAN
2022-2023

Class : I M.Sc. IT
Sub. Code : 22OPITDSE1A
Title of the Paper: Discrete Mathematics

Semester : I
Total Hours : 75 Hours

Month	Unit	Description of the Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July-2022	I	Set Theory: Introduction – Sets – Notation and Description of sets – Subsets – Venn – Euler Diagrams – Operation on sets – Properties of set operations – Verification of basic laws and algebra by Venn diagram. Relations: Relations – Representation of a relation – Operations on relations – equivalence relation – Closures & Warshalls Algorithm – Partitions and Equivalence Classes.	15	Chalk & Talk, PPT	 R.Raja Segeetha
Aus- 2022	II	Recurrence relations and Generating functions: Recurrence relation – an introduction– Polynomial and their evaluations – Recurrence relations – Solutions of finite order homogeneous (linear) relations – Solutions of non-homogeneous(linear) relations – Solutions of non-homogeneous	15	Chalk & Talk, PPT, Exercise, Quiz	 R.Raja Segeetha

		relations – Generating functions (For all the theorems consider the statements without proofs).			
Sep-2022	III	Coding Theory : Introduction- Hamming Distances- Encoding a Message-Group Codes – Procedure for Generating Group Codes-Decoding and Error Correction.	15	Chalk & Talk, PPT, Exercise	 R.Raja Segeetha
Oct-2022	IV	Logic : Introduction – IF statements – Connectives – Truth table of a formula – Tautology - Tautological implications and Equivalence of formulae – Quantifiers	15	Chalk & Talk, PPT, Quiz, Assignment	 R.Raja Segeetha
Nov-2022	V	Lattices : Lattices-Some Properties of Lattices- New Lattices –Modular and Distributive Lattices . Graph Theory : Basic concepts – Matrix representations of graphs – Trees – Spanning tree – shortest path problem.	15	Chalk & Talk, PPT, Seminar, Assignment Group Discussion	 R.Raja Segeetha


Signature of the HOD


Signature of the Principal



02

E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI – 625 014.
(An Autonomous Institution – Affiliated to Madurai Kamaraj University)
Re-accredited (3rd Cycle) with Grade A+ & CGPA 3.51 by NAAC

LESSON PLAN
2021-2022



Class : I B.Sc. IT




Sub. Code : 21AI1

Title of the Paper: Discrete Mathematics

Semester : I

Total Hours : 75 Hours

Month	Unit	Description of the Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Jan-2022	I	Set Theory: Introduction – Sets – Notation and Description of sets – Subsets – Venn – Euler Diagrams – Operation on sets – Properties of set operations – Verification of basic laws and algebra by Venn diagram. Relations: Relations – Representation of a relation – Operations on relations – equivalence relation – Closures & Warshalls Algorithm – Partitions and Equivalence Classes.	15	Chalk & Talk, PPT	 R.Raja Segeetha
Feb- 2022	II	Recurrence relations and Generating functions: Recurrence relation – an introduction– Polynomial and their evaluations – Recurrence relations – Solutions of finite order homogeneous (linear) relations – Solutions of non-homogeneous(linear) relations – Solutions of non-homogeneous	15	Chalk & Talk, PPT, Exercise, Quiz	 R.Raja Segeetha

		relations – Generating functions (For all the theorems consider the statements without proofs).			
Mar-2022	III	Coding Theory : Introduction-Hamming Distances- Encoding a Message-Group Codes – Procedure for Generating Group Codes-Decoding and Error Correction.	15	Chalk & Talk, PPT, Exercise	 R.Raja Segeetha
Apr-2022	IV	Logic : Introduction – IF statements – Connectives – Truth table of a formula – Tautology - Tautological implications and Equivalence of formulae – Quantifiers	15	Chalk & Talk, PPT, Quiz, Assignment	 R.Raja Segeetha
May-2022 & June-2022	V	Lattices : Lattices-Some Properties of Lattices- New Lattices –Modular and Distributive Lattices . Graph Theory : Basic concepts – Matrix representations of graphs – Trees – Spanning tree – shortest path problem.	15	Chalk & Talk, PPT, Seminar, Assignment Group Discussion	 R.Raja Segeetha



01


E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI - 625 014.
(An Autonomous Institution – Affiliated to Madurai Kamaraj University)
Re-accredited (3rd Cycle) with Grade A⁺ & CGPA 3.51 by NAAC


LESSON PLAN
2022-2023



Class : III B.Sc. IT


Semester : V

Sub. Code : 17I52 Title of the Paper: Programming in Java Total Hours : 75 Hours

Month	Unit	Description of the Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July 2022	I	<p>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. 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>Constants, Variables and Data Types: Introduction – Constants – Variables –Data Types – Declaration of variables – Giving values to variables – Scope of variables – Symbolic</p>	15	PPT , Chalk &Talk	 B. Yuvashree

		<p>constants – Type casting – Getting values of variables – Standard default values.</p>			
Aug 2022	II	<p>Operators and Expressions: Introduction – Arithmetic operators – Relational operators – Logical operators – Assignment operators – Increment and Decrement operators – Conditional operators – Bitwise operators – Special operators – Arithmetic Expressions – Evaluation of Expressions – Precedence of Arithmetic operators – Type conversions in Expressions – Mathematical Functions.</p> <p>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	PPT , Chalk &Talk	 B. Yuvashree

<p>Sep 2022</p>	<p>III</p>	<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>	<p>15</p>	<p>PPT , Chalk &Talk</p>	<p> B.Yuvashree</p>
<p>Oct 2022</p>	<p>IV</p>	<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 –</p>	<p>15</p>	<p>PPT , Chalk &Talk</p>	<p> B.Yuvashree</p>

		Thread Priority – Synchronization – Implementing the ‘Runnable’ Interface.			
Nov 2022	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.</p> <p>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	PPT, Group Discussion	 B. Yuvashree


Signature of the HOD


Signature of the Principal





E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI - 625 014.
(An Autonomous Institution – Affiliated to Madurai Kamaraj University)
Re-accredited (3rd Cycle) with Grade A+ & CGPA 3.51 by NAAC



LESSON PLAN
2022-2023


Class : III B.Sc IT

Semester :V

Sub. Code:17IE5A Title of the Paper: Client Server Computing Total Hours : 75 Hours

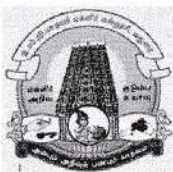
Month	Unit	Description of the Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July 2022	I	Introduction to Client/server computing: Overview of Client/Server Computing: Client Server Computing - Benefits of Client/Server Computing. Evolution of Client/Server Computing: Hardware Trends - Software Trends. Overview of Client/Server Applications: Components of Client/Server Applications - Classes of Client/Server Applications - Categories of Client/Server Applications.	15	PPT , Chalk &Talk	 B. Yuvashree
Aug 2022	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	15	PPT , Chalk &Talk	 B. Yuvashree

		<p>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.</p>			
Sep 2022	III	<p>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 Management Environment - Network Computing Environment - Extensions -Network Operating System - Loadable Modules.</p>	15	PPT Chalk &Talk	 B. Yuvashree
Oct 2022	IV	<p>Server Operating Systems: OS/2 2.0 - Windows New Technology - UNIX -Based Operating Systems. Server Requirements: Platform Independence - Transaction Processing - Connectivity - Intelligent Database - Stored</p>	15	PPT , Chalk &Talk	 B. Yuvashree

		Procedures – Triggers - Load Leveling – Optimizer - Testing and Diagnostic Tools – Reliability - Backup and Recovery Mechanisms.			
Nov 2022	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	PPT, Group Discussion	 B. Yuvasree


Signature of the HOD


Signature of the Principal



E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI – 625 014.
(An Autonomous Institution – Affiliated to Madurai Kamaraj University)
Re-accredited (3rd Cycle) with Grade A⁺ & CGPA 3.51 by NAAC

LESSON PLAN
2022-2023

Class : II M.Sc IT

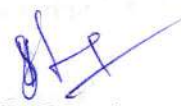
Semester :III

Sub. Code:21OPI33

Title of the Paper: Data Mining and Warehousing

Total Hours : 75 Hours

Month	Unit	Description of the Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
July 2022	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.	14	PPT , Chalk &Talk	 B. Yuvashree
Aug 2022	II	Data Mining A Closer Look: Data Mining Strategies – Supervised Data Mining Techniques – Association Rules – Clustering Techniques – Evaluating Performance.	15	PPT , Chalk &Talk	 B. Yuvashree
Sep 2022	III	Data Mining Techniques: Decision Trees – Generating Association Rules – The K- Means Algorithm – Genetic Learning – Choosing a Data Mining Technique.	16	PPT , Chalk &Talk	 B. Yuvashree
Oct 2022	IV	Knowledge Discovery in Databases: A KDD Process Model – Goal Identification – Creating a Target Dataset – Data Preprocessing – Data Transformation – Data Mining – Interpretation and	15	PPT , Chalk &Talk	 B. Yuvashree

		Evaluation – Taking Action - The CRISP-DM Process Model – Experimenting with ESX			
Dec 2021	V	The Data Warehouse: Operational Databases – Data Warehouse Design – On Line 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	PPT, Group Dissussion	 B. Yuvashree


Signature of the HOD


Signature of the Principal