

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
2021-2022

DEPARTMENT OF COMPUTER SCIENCE
(UG – Odd & Even Semester)



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LESSON PLAN 2021-2022


Class : I CS 'A' & 'B'


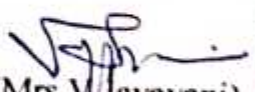
Semester : I

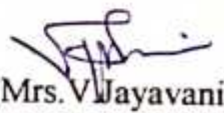
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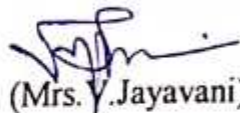
Title of the Paper : Programming in C

Total Hours : 60 Hours

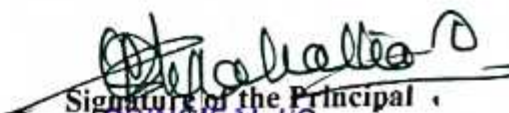
Month	Unit	Description of the Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Sep' 21	I	Overview of C: History of C - Importance of C -Sample Programs-Basic Structure of C Programs-Programming Style-Executing a 'C' Program- UNIX System-MS-DOS System- Windows System. Constants, Variables and Data Types: Introduction - Character Set - C Tokens - Keywords and Identifiers - Constants - Variables - Data Types - Declaration of Variables - Declaration of Storage Class - Assigning Values to Variables - Defining Symbolic Constants - Declaring a Variable as Constant - Declaring a Variable as Volatile. 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	10 Hrs	Google Meet	 (Mrs. V. Jayavani)

		Arithmetic Operators- Some Computational Problems-Type Conversions in Expressions-Operator Precedence and Associativity.			
Oct' 21	II	Managing Input and Output Operations: Introduction - Reading a Character - Writing a Character - Formatted Input - Formatted Output. Decision Making and Branching: Introduction - Decision Making with If Statement - Simple If Statement - The If.... Else statement - Nesting of If Else Statements - The Else If Ladder - The Switch Statement - The ?: Operator - The Goto Statement. Decision Making and Looping: Introduction - The while Statement - The do Statement - The for Statement - Jumps in Loops-Concise Test Expression.	10 Hrs	Google Meet	 (Mrs. V. Jayavani)
Nov' 21	III	Arrays: Introduction - One-Dimensional Arrays - Declaration of One-Dimensional Arrays - Initialization of One-Dimensional Arrays - Two-Dimensional Arrays - Initializing Two-Dimensional Arrays - Multi-Dimensional Arrays - Dynamic Arrays - More about Arrays. Character Arrays and Strings: Introduction - Declaring and Initializing String Variables - Reading Strings from Terminal - Writing Strings to Screen - Arithmetic Operations on Characters - Putting Strings Together - Comparison of Two Strings	12 Hrs	Google Meet	 (Mrs. V. Jayavani)

		<ul style="list-style-type: none"> - String-Handling Functions - Table of Strings- Other Features of String. 			
Dec' 21	IV	<p>User-Defined Functions: Introduction - Need for User-Defined Functions - A Multi-Function Program - Elements of User-Defined Functions - Definition of Functions - Return Values and Their Types - Function Calls - Function Declaration - Category of Functions - No Arguments and No Return Values - Arguments and but No Return Values - Arguments with Return Values - No Arguments and but Returns a Value - Nesting of Functions - Recursion - Passing Arrays to Functions - Searching and Sorting - Passing Strings to Functions - The Scope, Visibility and Lifetime of Variables - Multifile Programs. Structures and Unions: Introduction - Defining a Structure - Declaring Structure Variables - Accessing Structure Members - Structure Initialization - Copying and Comparing Structure Variables - Operations on Individual Members - Arrays of Structures - Arrays within Structures - Structures within Structures - Structures and Functions - Unions - Size of Structures - Bit Fields.</p>	14 Hrs	Google Meet	 (Mrs. V. Jayavani)
Jan'22	V	<p>Pointers: Introduction - Understanding Pointers - Accessing the Address of a Variable - Declaring Pointer Variables - Initialization of Pointer Variables - Accessing a</p>			

	<p>Variable through its Pointer - Chain of Pointers – Pointer Expressions – Pointer Increments and Scale Factor - Pointers and Arrays – Pointers and Character Strings – Array of Pointers – Function that Return Multiple Values-Pointers as Function Arguments – Functions Returning Pointers – Pointers to Functions – Pointers and Structures – Troubles with Pointers. File Management in C: Introduction – Defining and Opening a File – Closing a File – Input/Output Operations on Files – Error Handling during I/O Operations – Random Access to Files – Command Line Arguments.</p>	14 Hrs	Google Meet	 (Mrs. Y. Jayavani)
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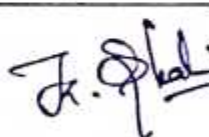

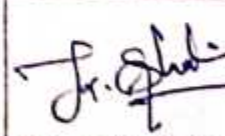
LESSON PLAN
2021-2022

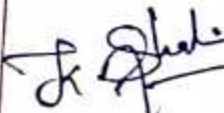
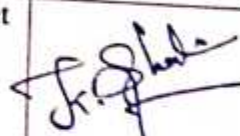
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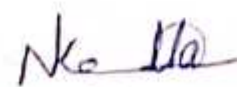
Title of the Paper : Non Major Elective

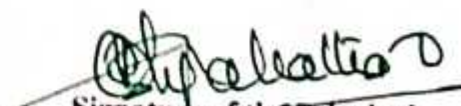
Total Hours : 30 HRS

SEMESTER: I

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Oct	I	Introduction to Computer: Introduction - Importance of Computers - Characteristics of Computers - Classification of Computers - What Computers Can Do? - What Computer Cannot Do? - Uses of Computers.	I Year	5 Hrs	Google Meet	 (Ms.K.Shalini)
Nov	II	Classification of Computers: Introduction - Classification of Digital Computers - Business and Scientific Computer Systems - Time Sharing, Multiprogramming and Multiprocessing Systems. Components of Computer: Introduction - Parts of Computers.	I Year	5 Hrs	Google Meet	 (Ms.K.Shalini)
Dec	III	Input Devices: Introduction - Keyboard - Mouse - Trackball - Game Controllers - Touch Screen - Scanners	I Year	6 Hrs	Google Meet	 (Ms.K.Shalini)

		- Barcode Reader - Card Reader - Digitizer - Voice Recognition - Webcams - Digital Cameras - Video Cameras (Camcorders) - Optical Character Recognition (OCR) - Optical Mark Recognition (OMR) - Intelligent Character Recognition (ICR) - Magnetic Ink Character Recognition (MICR).				
Jan	IV	Output Devices: Introduction - Monitor - Printer - Plotter - Multimedia Projector - Speech Synthesizers - Sound Cards and Speakers - Dumb, Smart and Intelligent Terminals.	I Year	7 Hrs	Google Meet	 (Ms. K. Shalini)
Feb	V	Storage Devices: Introduction - Magnetic Tape - Magnetic Disks - Optical Disk - Blu-ray Disc - Magneto-Optical (MO) Disk - Solid State Drive (SSD) - USB Flash Drives.	I Year	7 Hrs	Google Meet	 (Ms. K. Shalini)


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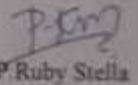
LESSON PLAN
2021-2022

Sub. Code : 21S31

Title of the Paper: Digital Principles and Computer Organization

Semester : III

Total Hours : 60 Hrs

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
August 21	I	<p>Digital Logic: The Basic Gates - NOT, OR, AND - Universal Gates-NOR, NAND.</p> <p>Combinational logic Circuits: Boolean Laws and Theorem - Sum-of-Product Method - Truth Table to Karnaugh Map - Pairs, Quads and Octets - Karnaugh Simplifications - Don't care Conditions Data Processing Circuits: Multiplexers - Demultiplexer - 1-of-16 Decoder - Encoders.</p>	II B.Sc(CS) 'A' And 'B'	12hrs	Google Meet	 (P. Ruby Stella Mary)
Sep 21	II	<p>Number Systems and Codes: Binary Number System - Binary-to-decimal Conversion - Decimal-to-binary Conversion - Octal Numbers - Hexadecimal Numbers- The ASCII Code - The Excess-3 Code - The Gray Code. Arithmetic Circuits: Binary Addition - Binary Subtraction - 2's Complement Representation - 2's Complement Arithmetic. Flip-Flops: RS FLIP-FLOPs - Edge-triggered D FLIP-FLOPs - Edge-triggered JK FLIP-FLOPs - JK Master Slave FLIP-FLOPs. Counters: Asynchronous Counters - Synchronous Counters</p>	II B.Sc(CS) 'A' And 'B'	12hrs	Google Meet	 (P. Ruby Stella Mary)



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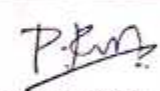
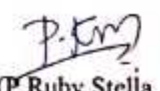
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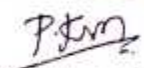
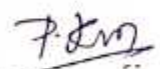
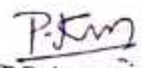
Sub. Code : 21S31


Title of the Paper: Digital Principles and Computer Organization

Semester : III

Total Hours : 60 Hrs

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
August 21	I	<p>Digital Logic: The Basic Gates - NOT, OR, AND – Universal Gates-NOR, NAND.</p> <p>Combinational logic Circuits: Boolean Laws and Theorem – Sum-of-Product Method – Truth Table to Karnaugh Map – Pairs, Quads and Octets – Karnaugh Simplifications – Don't care Conditions. Data Processing Circuits: Multiplexers – Demultiplexer – 1-of-16 Decoder – Encoders.</p>	II B.Sc(CS) 'A' And 'B'	12hrs	Google Meet	 (P.Ruby Stella Mary)
Sep 21	II	<p>Number Systems and Codes: Binary Number System – Binary-to-decimal Conversion – Decimal-to-binary Conversion – Octal Numbers – Hexadecimal Numbers- The ASCII Code – The Excess-3 Code – The Gray Code. Arithmetic Circuits: Binary Addition – Binary Subtraction – 2's Complement Representation – 2's Complement Arithmetic. Flip-Flops: RS FLIP-FLOPs – Edge-triggered D FLIP-FLOPs – Edge-triggered JK FLIP-FLOPs – JK Master Slave FLIP-FLOPs. Counters: Asynchronous Counters – Synchronous Counters.</p>	II B.Sc(CS) 'A' And 'B'	12hrs	Google Meet	 (P.Ruby Stella Mary)

Oct 21	III	Basic Computer Organization and Design: Instruction Codes - Computer Registers - Computer Instructions - Instruction Cycle - Input-Output Interrupt. Programming the Basic Computer: Assembly Language - The Assembler - Subroutines.	II B.Sc'A' and 'B'	12hrs	Google Meet	 (P. Ruby Stella Mary)
Dec 21	IV	Central Processing Unit : Introduction - General Register Organization - Stack Organization - Instruction Formats - Addressing Modes - Data Transfer and Manipulation - Reduced Instruction Set Computer(RISC). Pipeline and Vector Processing: Parallel Processing - Pipelining - Instruction Pipelining.	II B.Sc(CS) 'A' And 'B'	12hrs	Google Meet	 (P. Ruby Stella Mary)
Jan 22	V	Input-Output Organization: Peripheral Device - Input-Output Interface - Direct Memory Access (DMA) - Memory Organization: Memory Hierarchy - Main Memory - Auxiliary Memory - Associative Memory - Cache Memory - Virtual Memory.	II B.Sc(CS) 'A' And 'B'	12hrs	Google Meet	 (P. Ruby Stella Mary)


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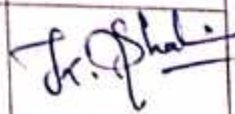
LESSON PLAN
2021-2022

Sub. Code : 17S32

Title of the Paper : JAVA Programming

SEMESTER : VI

Total Hours : 60

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
August 21	I	Java Evolution: Java history- Java Features- How Java Differs from C and C++-Java and Internet- Java and world wide web- Web Browsers- Java Environment. Over view of Java Language: Introduction- Simple Java Program- Java program Structure- Java Tokens- Implementing a Java program- Java Virtual Machine- Command Line Arguments. 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	II B.Sc(CS) 'A' And 'B'	12 Hrs	Google Meet	 (Ms.K.Shalini)
Sep 21	II	Operators and Expressions: Introduction- Arithmetic Operators-	II B.Sc(CS) 'A' And 'B'	12Hrs	Google Meet	 (Ms.K.Shalini)

	<p>Relational Operators- Logical Operators- Assignment Operators- Increment and Decrement Operators-Conditional Operators-Bitwise Operators-Special operators- Arithmetic Expressions- Evaluation of Expression- Precedence of Arithmetic operators-Type Conversions in Expressions-Operator precedence and Associativity-Mathematical functions. Decision Making and Branching: Introduction-Decision Making with If Statement- Simple If Statement-The If...Else Statement-Nesting of If...Else Statements-The Else If Ladder-Switch Statement-The ? : Operator. Decision Making and Looping: Introduction- While Statement-do Statement-for Statement- Jumps in Loops-Labeled Loops</p>				
Oct 21	<p>III Classes-Objects and Methods: Introduction- Defining a Class-Fields Declaration- Method of Declaration- Creating Objects- Accessing Class Members- Constructors- Method Overloading- Static Members- Nesting of</p>	II B.Sc(CS) 'A' And 'B'	12Hrs	Google Meet	<p><i>F. Shalini</i> (Ms.K.Shalini)</p>

		<p>Inheritance: Extending a Class- Overriding Methods- Final Variables and Methods- Final Classes- Finalizer Methods- Abstract Methods and Classes- Visibility Control. Arrays-Strings- and Vectors: Introduction- One-dimensional Arrays- Creating an Array-Two- dimensional Arrays- Strings- Vectors- Wrapper Classes- Enumerated Types. Interfaces: Multiple inheritance: Introduction- Defining Interfaces- Extending Interfaces- Implementing Interfaces- Accessing Interface Variables.</p>				
Nov 21	IV	<p>Joins and Unions: Joins, Unions. Triggers : Introduction, What is Trigger?, Types of Triggers, Trigger Syntax, Combining Trigger Types, Setting Inserted Values, Disabling and Enabling Triggers, Advantages and Limitations of Triggers. Cursor: Introduction, Cursor Operations, Cursor Positions, Cursor Coding Guidelines. Data Integrity: Introduction, Types of Integrity Constrains, Restrictions of Integrity constrains.</p>	III B.Sc(CS) 'A' And 'B'	12Hrs	Google Meet	(Ms.K.Shalini) K. Shalini

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2021-2022

Sub. Code : 17S32
 Title of the Paper : JAVA Programming
 Total Hours : 60

SEMESTER: III

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
November 21	IV	<p>Packages: Putting Classes Together: Introduction-Java API Packages-Using System packages-Naming conventions-Creating Packages-Accessing a package-Using a Package-Adding a Class to a Package-Hiding Classes-Static Import.</p> <p>Multithreaded Programming: Introduction-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-Inter-thread Communication.</p>	III B.Sc(CS) 'A' And 'B'	12Hrs	Google Meet	 (Mrs. N. Kavitha)

December 2021	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 Exceptions- Improved Exception Handling in Java SE 7-Using Exceptions for Debugging.</p> <p>Applet Programming: Introduction-How Applets Differ from Applications-Preparing to Write Applets-Building Applet Code-Applet Life Cycle-Creating an Executable Applet-Designing a Web page-Applet tag-Adding Applet to HTML File-Running the Applet-More about Applet tag-Passing parameters to Applets-Aligning the Display-More about HTML tag-Displaying Numerical values-Getting Input from the user-Event Handling.</p> <p>Managing Input/Output Files in Java: Byte Stream classes-Character Stream Classes- Other Stream classes.</p>	III B.Sc(CS) 'A' And 'B'	12Hrs	Google Meet	<p><i>Nk Kavitha</i> (Mrs.N.Kavitha)</p>
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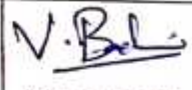
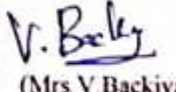
LESSON PLAN
2021-2022

Sub. Code : 17S51

Title of the Paper: **Operating Systems**

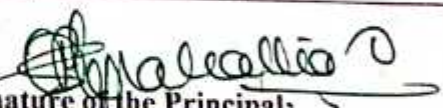
Semester : V

Total Hours : 60 Hrs

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
August 21	I	Introduction: What Operating Systems Do-Computer System Organization-Computer System Architecture-Operating System Structure-Operating System Operations-Distributed Systems-Open Source Operating Systems. Operating System Structures: Operating System Services-User Operating System Interface-System Calls-Types of System Calls-System Programs-Virtual Machines.	III B.Sc(CS) 'A' And 'B'	12hrs	Google Meet	 (Mrs. V. Backiya Lakshmi)
Sep 21	II	Processes: Process Concept-Process scheduling-Operation on process-Interprocess communication-Examples of IPC Systems-Communication in Client Server Systems. Threads: Overview-Multithreading Models-Thread Libraries-Threading Issues-Operating System Examples.	III B.Sc(CS) 'A' And 'B'	12hrs	Google Meet	 (Mrs. V. Backiya Lakshmi)
Oct 21	III	CPU Scheduling: Basic concepts- Scheduling criteria-Scheduling algorithms. Thread Scheduling - Multiple Processor Scheduling Process	III B.Sc 'A' and 'B'	12hrs	Google Meet	 (Mrs. V. Backiya Lakshmi)

		Synchronization: Background - The Critical Section Problem- Peterson's Solution- Synchronization Hardware - Semaphores- Classic Problems- Monitors-Synchronization Examples- Deadlocks.				
Nov 21	IV	Main Memory: Background-swapping-Contiguous Memory allocation-Paging-Structure of the Page Table-Segmentation. Virtual memory: Background-Demand Paging-Copy on Write-Page Replacement-Allocation of Frames-Thrashing.	III B.Sc(CS) 'A' And 'B'	12hrs	Google Meet	V. Backiya (Mrs. V. Backiya Lakshmi)
Nov 21	V	File System: File concepts- Access methods-File System Implementation: File System Structure-Allocation Methods-Free Space Management. Mass-Storage Structure: Overview of Mass Storage Structure-Disk structure- Disk Scheduling-Disk Management-Swap Space Management. The Linux System: Design Principles- Kernel Modules - Process Management - Scheduling- Interprocess communication - Network Structure-Security..	III B.Sc(CS) 'A' And 'B'	12hrs	Google Meet	V. Backiya (Mrs. V. Backiya Lakshmi)


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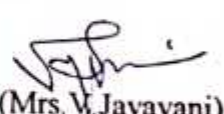
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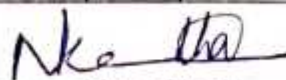
Semester : V

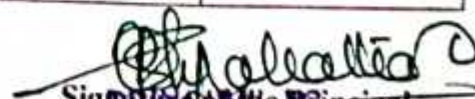
Sub. Code : 17S52

Title of the Paper: Software Engineering

Total Hours : 75

Month	Unit	Description of the Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Aug' 21	I	Software and Software Engineering: The Nature of Software – Software Engineering – The Software Process. Process Models: A Generic Process Model – Process Assessment and Improvement – Prescriptive Process Models – Specialized Process Models – The Unified Process – Personal and Team Process Models. Agile Development: What is Agility? – Agility and the Cost of Change – What is an Agile Process?	15Hrs	Google Meet	 (Mrs. V. Jayavani)
Sep' 21	II	Understanding Requirements: Requirements Engineering– Establishing the Groundwork – Eliciting Requirements – Building Requirements Model. Requirements Modeling: Scenarios, Information, and Analysis Classes: Requirement Analysis – Scenario-Based Modeling – UML Models That Supplement The Use Case – Data Modeling Concepts – Class-Based Modeling.	15Hrs	Google Meet	 (Mrs. V. Jayavani)


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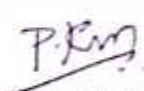
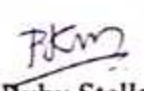
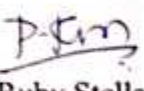
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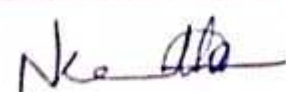
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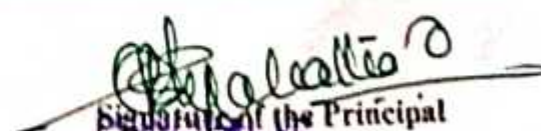
Title of the Paper: Software Engineering

Semester : V

Total Hours : 75 Hours

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Sep 21	III	Design Concepts: Design Concepts - The Design Model. Architectural Design: Software Architecture - Architectural Design. Component-Level Design: What Is a Component? - Designing Class-Based Components. User Interface Design: User Interface Analysis and Design - Interface Design Steps.	III B.Sc 'A' and 'B'	15hrs	Google Meet	 (P. Ruby Stella Mary)
Oct 21	IV	Software Quality Assurance: Elements of Software Quality Assurance - Software Reliability. Software Testing Strategies: A Strategies Approach to Software Testing - Test Strategies for Conventional Software - Validation Testing - System Testing - The Art of Debugging. Test Conventional Applications: Software Testing Fundamentals - White-Box Testing - Basis Path Testing - Control Structure Testing - Black-Box Testing.	III B.Sc 'A' and 'B'	15hrs	Google Meet	 (P. Ruby Stella Mary)
Jan 22	V	Software Configuration Management: Software Configuration Management - The SCM Repository - The SCM Process. Project Scheduling: Project Scheduling - Scheduling. Risk Management: Risk Identification - Risk Projection - Risk Refinement. Maintenance And Reengineering: Software Maintenance - Business Process Reengineering - Software Reengineering - Restructuring.	III B.Sc 'A' and 'B'	15hrs	Google Meet	 (P. Ruby Stella Mary)


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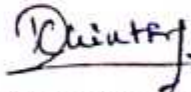
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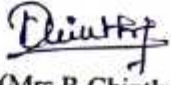

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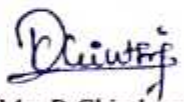
Title of the Paper : RDBMS

Total Hours : 60

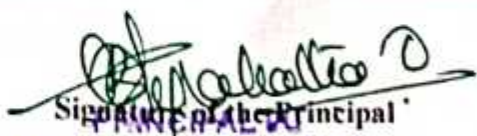
SEMESTER: V

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
August 21	I	Introduction to Database Management System (DBMS): Introduction, Why a Database, Characteristics of Data in Database, Database Management System, Why DBMS, Types of Database Management Systems. Introduction to Relational Database Management System (DBMS): Introduction, RDBMS Terminology, The relational Data Structure, Relational Data Integrity, Relational Data Manipulation. Database Architecture and Data Modeling: Introduction, Conceptual, Physical and Logical Database Models, Database Design, Design Constrains, Functional Dependencies.	III B.Sc(CS) 'A' And 'B'	12Hrs	Google Meet	 (Mrs.R.Chinthamani)
Sep 21	II	Entity-Relationship model (E-R) Modeling: Introduction, E-R Model, Components of an E-R Model, E-R Conventions, Relationship, E-R Diagram (ERDs), E-R Modeling Symbols. Data Normalization: Introduction, First Normal	III B.Sc(CS) 'A' And 'B'	12Hrs	Google Meet	 (Mrs.R.Chinthamani)

		Form(1NF), Second Normal Form(2NF), Third Normal Form(3NF), Boyce-Codd Normal Form(BCNF), Fourth Normal Form(4NF), Fifth Normal Form(5NF), Domain-key Normal Form(DKNF), Denormalization. Structured Query Language (SQL): Introduction, Characteristics of SQL, Advantages of SQL, SQL in Action, SQL Data type and Literals, Types of SQL commands, SQL Operators, Arithmetic Operators, Comparison Operators, Logical Operators, Set Operators.				
Oct 21	III	Relational Algebra and Relational Calculus: Relational Algebra, Relational Calculus. Tables, Views and Indexes: Tables, Views, Indexes. Aggregate Functions: Introduction, General Rules, COUNT() and COUNT(*), SUM(), AVG(), MAX(), AND MIN(). Insert, Update and Delete Operations: Introduction, INSERT statement, Bulk insert of Data, UPDATE Statement, and Delete Statement.	III B.Sc(CS) 'A' And 'B'	12Hrs	Google Meet	 (Mrs.R.Chinthamani)
Nov 21	IV	Joins and Unions: Joins, Unions. Triggers : Introduction, What is Trigger?, Types of Triggers, Trigger Syntax, Combining Trigger Types, Setting Inserted Values, Disabling and Enabling Triggers, Advantages and Limitations of Triggers. Cursor: Introduction, Cursor Operations, Cursor	III B.Sc(CS) 'A' And 'B'	12Hrs	Google Meet	 (Mrs.R.Chinthamani)

		Positions, Cursor Coding Guidelines. Data Integrity: Introduction, Types of Integrity Constrains, Restrictions of Integrity constrains.				
Dec 21	V	Database Security: Introduction, Database Environment, Data Security Risks, Complex User Management Requirements, Dimensions of Database security, Data Security Requirements, Protecting the Data within the Database, Granting and Revoking Privileges and Roles, Data Encryption, Database Integrity. Transaction Management and Concurrency Control: Introduction, Transactions, Transaction Properties, Database Structure, Transaction States, Concurrency Control, Serializability, Recoverability, Concurrency Control Schemes, Transaction Management in SQL, Transaction and Recovery User-defined Transactions, The COMMIT Command, The ROLLBACK command, The SAVEPOINT command.	III B.Sc(CS) 'A' And 'B'	12Hrs	Google Meet	 (Mrs.R.Chinthamani)


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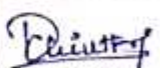
LESSON PLAN
2021-2022


Sub. Code : 17SE5A


Title of the Paper : COMPUTER GRAPHICS

SEMESTER : V

Total Hours : 60 Hrs

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
August 21	I	Introduction to CG: A Survey of computer Graphics-Video Display Devices- Raster-Scan Systems-Random-Scan systems-Input Devices- Graphics software.	III B.Sc(CS) 'A' And 'B'	12Hrs	Chalk & Talk	 (Mrs. R. Chinthamani)


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LESSON PLAN
2021-2022

Sub. Code : 17SE5A

Title of the Paper : **COMPUTER GRAPHICS**

Total Hours : 60

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Jan 21	II	Output Primitives: Point and Lines. Line-Drawing Algorithms: DDA Algorithm- Bresenham's Line algorithm - Character Generation. Attributes of Output Primitives: Line Attributes - Curve Attributes - Area-Fill Attributes - Character Attributes - Bundled Attributes - Inquiry Functions.	III B.Sc(CS) 'A' And 'B'	12Hrs	Google Meet	 (Ms.K.Shalini)
Mar 21	III	Two-Dimensional Geometric transformations: Basic Transformations - Matrix Representations - Composite Transformations - Other Transformations. Two-Dimensional Viewing: Two Dimensional	III B.Sc(CS) 'A' And 'B'	12Hrs	Google Meet	 (Ms.K.Shalini)

	Viewing Functions -		
	Clipping Operations -		
	Point Clipping .Line		
	Clipping: Cohen-		
	Sutherland Line		
	Clipping. Polygon		
	Clipping: Sutherland-		
	Hodgeman polygon -		
	Curve Clipping - Text		
	Clipping - Exterior		
	Clipping.		

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association rule - The GSP algorithm - SPADE-SPIRT-event prediction problem-time series analysis-spatial mining-Spatial mining tasks.

Introduction to big data: characteristics of data-evolution of big data-definition of big data-challenge with big data-what is big data?-what is changing in the realms of big data? **Introduction to hadoop:** hadoop overview-hadoop distributed file system-processing data with hadoop-interacting with hadoop ecosystem. **Introduction to MAPREDUCE programming:** Introduction -mapper-reducer-combiner-partitioner-searching-sorting-compression.

III
B.Sc(CS)
'A' And
'B'

12 Hrs

Chalk and
Talk


(Ms.P.Induja)

April

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Class : I CS 'A' & 'B'

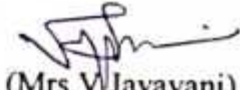
Semester : II



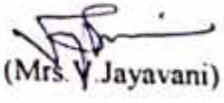
Sub. Code : 21S21

Title of the Paper: Object Oriented Programming with C++

Total Hours : 60 Hours

Month	Unit	Description of the Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Feb' 22	I	<p>Principles of Object-Oriented Programming : Basic concepts of Object-Oriented Programming - Benefits of OOP - Object-Oriented Languages - Application of OOP . Beginning with C++: What is C++? - Application of C++ - A Simple C++ Program - More C++ Statements - An Example With Class - Structure of C++ Program - Creating the Source file - Compiling and Linking.</p> <p>Tokens , Expressions and Control Structures :Introduction- Tokens - Keywords - Identifiers and Constants - Basic Data Types - User -Defined Data Types - Storage Classes - Derived Data Types - Symbolic Constants - Type Compatibility - Declaration of Variables - Dynamic Initialization of Variables - Reference Variables - Operators in C++ - Scope Resolution Operator - Member Dereferencing Operators -</p>	10 Hrs	Chalk & Talk	 (Mrs. V. Jayavani)

		Memory Management Operators – Manipulators – Type Cast Operator– Expressions and Their Types–Special Assignment Expressions –Implicit Conversions–Operator Overloading –Operator Precedence–Control Structures.			
Mar' 22	II	Functions in C++ : Introduction - The Main Function - Function Prototyping - Call by Reference - Return by Reference - Inline Functions - Default Arguments - Const Arguments - Recursion - Function Overloading - Friend and Virtual Functions - Math Library Functions. Classes and Objects: Introduction - C Structures Revisited– Specifying a Class - Defining Member Functions - A C++ Program with Class - Making an Outside Function Inline - Nesting of Member Functions - Private Member Functions - Arrays within a Class - Memory Allocation for Objects - Static Data Members - Static Member Functions - Arrays of Objects - Objects as Function Arguments - Friendly Functions– Returning Objects - Const Member Functions - Pointers to Members - Local Classes.	10 Hrs	Chalk & Talk	 (Mrs. V. Jayavani)
		Constructors and Destructors : Introduction - Constructors - Parameterized Constructors - Multiple			

<p>Mar'22 & Apr' 22</p>	<p>III</p>	<p>Constructors in a Class – Constructors with Default Arguments – Dynamic Initialization of Objects – Copy Constructor – Dynamic Constructors – Constructing Two Dimensional Arrays – Const Objects – Destructors . Operator Overloading and Type Conversion : Introduction – Defining Operator Overloading – Overloading Unary Operators – Overloading Binary Operators – Manipulation of Strings using Operators – Rules for Overloading Operators.</p>	<p>12 Hrs</p>	<p>Chalk & Talk</p>	<p> (Mrs. V. Jayavani)</p>
<p>Apr' 22 & May' 22</p>	<p>IV</p>	<p>Inheritance : Extending Classes : Introduction – Defining Derived Classes – Single Inheritance – Making a Private Member Inheritable – Multilevel Inheritance – Hierarchical Inheritance – Hybrid Inheritance – Virtual Base Classes – Abstract Classes. Pointers , Virtual Functions and Polymorphism : Introduction – Pointers – Pointers to Objects – this Pointer – Pointers to Derived Classes– Virtual functions – Pure Virtual Functions – Virtual Constructors and Destructors.</p>	<p>14 Hrs</p>	<p>Chalk & Talk</p>	<p> (Mrs. V. Jayavani)</p>
<p>May' 22</p>	<p>V</p>	<p>Managing Console I/O Operations : Introduction – C++ Streams – C++ Stream Classes – Unformatted I/O Operations , Formatted Console I/O Operations – Managing Output with Manipulators . Working</p>	<p>14 Hrs</p>	<p>Chalk & Talk</p>	<p> (Mrs. V. Jayavani)</p>



	<p>with Files : Introduction – Classes for File Stream Operations – Opening and Closing a File – Detecting end-of-file – More about Open(): File Modes – File Pointers and their Manipulations – Sequential Input and Output Operations – Updating a File : Random Access – Error Handling during File Operations - Command- line Arguments.</p>			
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N. K. D.

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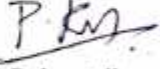
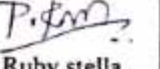
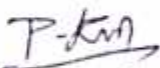
LESSON PLAN 2021-2022

Sub. Code : 21NMS2

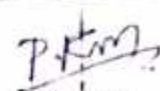
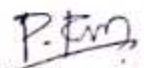
Title of the Paper: Internet Applications

Semester: II

Total Hours : 30 Hrs

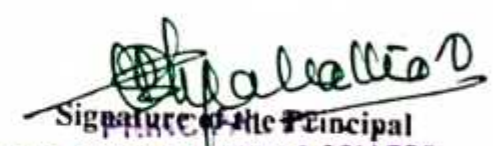
Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
August 21	I	Introduction to Internet: Internet – Growth of Internet and APRAN Net – Owners of the Internet – Anatomy of Internet – Internet history of the World Wide Web – Basic Internet Terminology – Net etiquette – Internet Applications – Commerce on the Internet – Governance on the Internet – Impact of Internet on Society – Crime on/through the Internet.	I Year	5hrs	Chalk & Talk	 (P.Ruby stella Mary)
Sep 21	II	Internet Networking: Network Definition – Common terminologies – Node – Host – Workstation – Bandwidth – Interoperability – Network Administrator – Network Security – Network Components – Servers – Client Server – Communication Media – Types of Network – Peer to Peer Networks – Client Server – Addressing in Internet – DNS – Domain Name and their Organization – Understanding the Internet Protocol Address – Network Topologies – Ethernet – FDDI – ATM - Intranet.	I Year	5 Hrs	Chalk & Talk	 (P.Ruby stella Mary)
Oct 21	III	Services on Internet: E-mail – WWW – Telnet – FTP – IRC – Search Engine E-Mail: E-mail Networks and Servers – E-mail Protocols – Structure of an E-mail – Attachments – E-mail Clients – Netscape mail Clients – Outlook Express – Web Based	I Year	6Hrs	Chalk & Talk	 (P.Ruby stella Mary)



		E-mail - E-mail encryption - Address Book - Signature File.				
Dec 21	IV	Web Publishing and Browsing: Overview - Standard Generalized Markup Language (SGML) - Web hosting - HTML - Common Gateway Interface (CGI) - Documents Interchange Standards - Components of Web Publishing - Document Management - Web Page Design - Consideration and Principles - Search and Meta Search Engines - WWW - Browsers - HTTP - Publishing Tools.	1 Year	7 Hrs	Chalk & Talk	 (P. Ruby stella Mary)
Dec 21	V	HTML Programming Basics: Introduction to HTML - HTML Browsers - Different versions of HTML - HTML tags - Document Overview - Header Elements - Section headings - Block headings - Lists - Inline elements - Images - Working with Tables - Working with Forms - Working with Frames.	1 Year	7 Hrs	Chalk & Talk	 (P. Ruby stella Mary)



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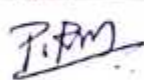
2021-2022


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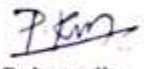
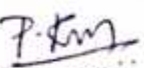
Title of the Paper: DOT NET

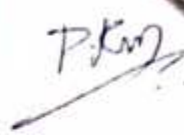
Semester: IV

Total Hours : 60Hours

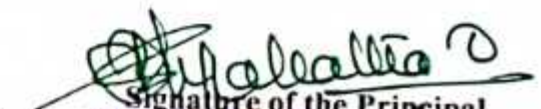
Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Feb 22	I	Introducing.NET - .NET Framework Overview-Common Type System-Common Language Specification-Common Intermediate Language- Just in Time Compiler-Virtual Execution System-.Net Framework Class Library- Namespace- Languages in.NET -Visual Studio.NET- Why VB.NET?-Object-Encapsulation- Overloading Inheritance- Polymorphism- Constructors and Destructors - Interface- Free Threading Delegates- Structured Exception Handling- Extended Markup Language- Web Service- Winforms -Console Applications- Assemblies- ADO.NET- Active Server Pages .NET(ASP.NET). Arrays - One-dimensional Array- Array Initialization- Printing array elements by using For Each...Next Loop- Redim Statement- Multi-dimensional array- Initialization of Two dimensional array- Arrays of array- List Box control. Procedures and Structures -	II B.Sc 'A' and 'B'	12 hrs	Chalk & Talk	 (P. Ruby stella Mary)

	<p>Subroutine Procedures- Function Procedure- Property Procedure- Function- Value returned by its Function name- The return statement- Calling a functions- Call by reference- Functions with arrays- Functions with Param Arrays-Function overloading-Sub Procedure- Invoking a Sub Procedure- Structure- What is a structure?- Giving Values to structure elements- Function inside the structure- Nested Structures- Message box(MsgBox) function- Input Box Function.</p>				
Mar 22	<p>Data Access with ADO,NET - What is Database?- What is a Relational Data base?- Table Creation- Record insertion- Displaying Data- Deleting Data- Modifying Data- Drop Table- Special features of ADO.NET- Difference between ADO and ADO.NET- Connection- Commands- Data Reader- Data Set- Using a Data Grid- Using Data adapter configuration wizard- XML and ADO.NET- XML Document to ADO.NET Data- Filtering data Using Data View- Complex data binding- Command parameters property- Using stored procedures with a command. Graphics - GDI- GDI+ - GDI+ Namespaces- System Drawing Namespace- Classes-Structures- System Drawing Design Namespace- Editor Classes- Toolbox Classes-</p>	II B.Sc'A' and 'B'	12 hrs	Chalk & Talk	 (P. Ruby stella Mary)

		<p>System Drawing Drawing 2D Namespace- Classes- Enumerations- System Drawing Imaging Namespace- System Drawing Printing Namespace- Classes- System Drawing Text Namespace- To Draw a Line- Arc- Ellipse- Displaying Images- The Font Class- Working with Font Family.</p>				
Mar 22	III	<p>Developing ASP.NET Applications: ASP.NET Applications – Code-Behind – The Global.asax Application File – Understanding ASP.NET Classes – ASP.NET Configuration. Web Form Fundamentals: A Simple Page Applet – Improving currency Converter – A Deeper Look at HTML Control Classes – The Page Class – Assessing HTML Server Controls.</p>	II B.Sc 'A' and 'B'	12 hrs	Chalk & Talk	 (P. Ruby stella Mary)
Apr 22	IV	<p>Web Controls: Stepping Up to Web Controls – Web Control Classes – AutoPostBack and Web Control Events – A Simple Web Page Applet – Assessing Web Controls. Validation and Rich Controls: Validation – A Simple Validation Example – Understanding Regular Expressions – A Validated Customer Form – Other Rich Controls</p>	II B.Sc 'A' and 'B'	12 hrs	Chalk & Talk	 (P. Ruby stella Mary)

May 22	V	The DataList, DataGrid and Repeater: Introducing Templates - Using Templates with the DataList - Data Binding with Multiple Templates - Comparing the Template Controls - Preparing Your List for Selection and Editing - Selecting Items - Editing Items - Paging with the DataGrid - Sorting with the DataGrid. Files, Streams, and Email: Files and Web Applications - Files System Information - Reading and Writing with Streams - Allowing File Uploads - Sending Mail.	II B Sc 'A' and 'B'	12 hrs	Chalk & Talk	(P R... Mary 
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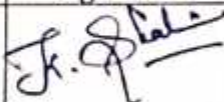


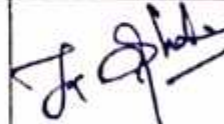



LESSON PLAN
2021-2022

Sub. Code : 17S42

Title of the Paper: Data Structures and Algorithms

Total Hours : 60

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Feb22	I	Stacks and Queues: The Stack Abstract Data Type - The Queue Abstract Data Type - Subtyping and Inheritance in C++ - A Mazing Problem,Evaluation of Expressions.	II B.Sc(CS) 'A' And 'B'	12Hrs	Chalk & Talk	 (Ms.K.Shalini)
Mar 22	II	Linked Lists: Singly Linked Lists and Chains - Representing Chains in C++ - The Template Class Chain - Circular Lists - Doubly Linked List	II B.Sc(CS) 'A' And 'B'	12Hrs	Chalk & Talk	 (Ms.K.Shalini)
Mar 22	III	Trees: Introduction - Binary Trees - Binary Tree Traversal and Tree Iterations - Heaps - Binary Search Trees. Graphs: The Graph Abstract Data Type - Elementary Graph Operations .	II B.Sc(CS) 'A' And 'B'	12Hrs	Chalk & Talk	 (Ms.K.Shalini)
	IV	Computer Algorithms: Introduction: What is an Algorithm? - Algorithm Specification - Performance Analysis. Divide and Conquer:	II B.Sc(CS) 'A' And 'B'	12Hrs	Chalk & Talk	 (Ms.K.Shalini)

		General method - Binary Search - Finding the maximum and minimum - Merge Sort - Quick Sort - Selection - Strassen's Matrix Multiplication.				
May 22	V	The Greedy Method: General Method - Knapsack problem - Minimum cost spanning trees - Prim's Algorithm - Kruskal Algorithm - Optimal Storage on tapes - Optimal merge patterns - Single - Source Shortest Paths.	II B.Sc(CS) 'A' And 'B'	12Hrs	Chalk & Talk	 (Ms.K.Shalini)



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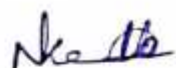
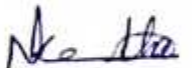
LESSON PLAN
2021-2022


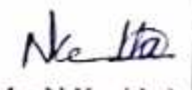
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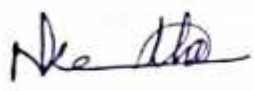
Title of the Paper: Data Communication and Networking

SEMESTER : VI

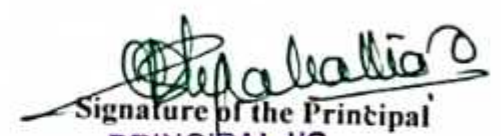
Total Hours : 60

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Feb 22	I	Introduction - Data Communications - Networks - The Internet - Protocols and Standards. Network Models: The OSI Model, Layers in the OSI Model.	III B.Sc., CS(A & B)	12	Chalk & Talk	 (Mrs.N.Kavitha)
Mar 23	II	Transmission media - Guided Media, Unguided Media: Wireless Switching: Circuit Switched Network, Datagram Networks, Virtual Circuit Networks, Structure of a Switch	III B.Sc., CS(A & B)	12	Chalk & Talk	 (Mrs.N.Kavitha)
Mar 23	III	Error Detection and Correction: Introduction, Block Coding, Linear Block Codes, Cyclic Codes. Network Layer: Logical Addressing: IPv4 Addresses, IPv6 Addresses.	III B.Sc., CS(A & B)	12	Chalk & Talk	 (Mrs.N.Kavitha)

April 23	IV	Network Layer: Delivery, Forwarding and Routing: Unicast Routing Protocols- Multicast Routing Protocols. Process-to-Process Delivery: UDP, TCP and SCTP: User Datagram Protocol (UDP)- TCP. Domain Name System: DNS in the internet.	III B.Sc., CS(A & B)	12	Chalk & Talk	 (Mrs.N.Kavitha)
May 23	V	Network Security: Security Services-Message Confidentiality-Message Integrity-Message Authentication-Digital Signature-Entity Authentication- IP Security-Firewalls	III B.Sc., CS(A & B)	12	Chalk & Talk	 (Mrs.N.Kavitha)



Signature of the HOD



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2021-2022

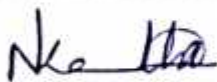
Sub Code : 17S62

Semester: VI

Title of the Paper: WEB PROGRAMMING

Total Hours : 60 Hrs

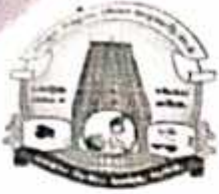
Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Feb 22	I	Introduction to HTML5: Introduction-Editing HTML5-First HTML5 Example-W3C HTML5 Validation Service-Headings-Linking-Images-Special Characters and Horizontal Rules-Lists-Tables-Forms-Internal Linking-Meta Element-New HTML5 Form input Types. Introduction to Cascading Style Sheets™(CSS): Introduction -Inline Styles-Embedded Style Sheets- Linking External Style Sheets-Backgrounds-Color.	III B.Sc(CS) 'A' And 'B'	12 Hrs	Chalk & Talk	 (Mrs. R. Chinnamani)
Mar 23	II	JavaScript: Introduction to Scripting: Introduction-Your First Script: Displaying a Line of Text with JavaScript in a Web Page. JavaScript: Function: Function Definitions-JavaScript Global Functions. JavaScript: Arrays: Arrays-Declaring and Allocating Arrays-Passing Arrays to Functions-Multidimensional Arrays- JavaScript: Objects: String Objects-Date Object-Boolean and Number Objects-Document Object-Using JSON to Represent Objects.	III B.Sc(CS) 'A' And 'B'	12 Hrs	Chalk & Talk	 (Mrs. R. Chinnamani)



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LESSON PLAN 2021-2022

Sub. Code : 17S62

Title of the Paper: Web Programming

Total Hours : 60

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Mar 22	II	JavaScript: Introduction to Scripting: Introduction-Your First Script: Displaying a Line of Text with JavaScript in a Web Page. JavaScript: Function: Function Definitions-JavaScript Global Functions. JavaScript: Arrays: Arrays-Declaring and Allocating Arrays-Passing Arrays to Functions-Multidimensional Arrays- JavaScript: Objects: String Objects-Date Object-Boolean and Number Objects-Document Object-Using JSON to Represent Objects.	III B.Sc(CS) 'A' And 'B'	12Hrs	Chalk & Talk	(Ms.K.Shalini)

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LESSON PLAN 2021-2022

Sub. Code : 17S62

Title of the Paper: WEB PROGRAMMING

Total Hours : 60 Hrs

Semester : VI

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
March 22	IV	Introducing PHP: What is PHP -Server-Side Scripting Overview : Static HTML - Client-Side Technologies - Server-Side Scripting - Getting Started with PHP: Installing PHP - Learning PHP Syntax and Variables : PHP Syntax's Syntax Is C-Like - Comments - Variables - Types in PHP - The Simple Types - Doubles - Booleans - NULL - Strings - Output.	III B.Sc(CS) 'A' And 'B'	12hrs	Chalk & Talk	R. Asvitha (R. Asvitha)
April 22	V	Learning PHP Control Structures and Functions : Boolean Expressions - Branching - Looping - Using Functions - Function Documentation - Defining Your Own Functions - Functions and Variable Scope - Function Scope - Learning PHP String Handling : Strings in PHP , String Functions.	III B.Sc(CS) 'A' And 'B'	12hrs	Chalk & Talk	R. Asvitha (R. Asvitha)


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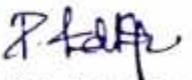
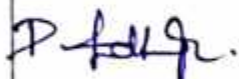
LESSON PLAN 2022-2023

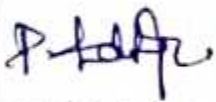
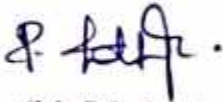
Sub. Code : 17SE6A

Semester: VI

Title of the Paper : Data Mining

Total Hours : 60

Month	Unit	Description of the Syllabus	Class	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Jan 23	I	Data warehousing: introduction- data warehouse architecture- dimensional modeling - OLAP operations- ROLAP- data marting - ETL- data cleaning ETL vs. ELT. Data mining: Introduction — KDD vs. Data mining – DBMS vs. DM- DM techniques – Issues and Challenges in Data Mining – Data mining application areas- other related areas.	III B.Sc(CS) 'A' And 'B'	12 Hrs	Chalk and Talk	 (Ms.P.Induja)
Feb 23	II	Classification Technique: Introduction – what is Decision Trees? - Tree Construction Principle - Decision Tree construction with presorting– CLOUDS- pruning technique. Clustering techniques: Clustering paradigms – Partitioning algorithm - K	III B.Sc(CS) 'A' And 'B'	12 Hrs	Chalk and Talk	 (Ms.P.Induja)

		Medcoid algorithms - CLARA - Hierarchical Clustering - DBSCAN - BIRCH - STIRR-ROCK.				
Feb 23	III	Association Rules: what is an association rule?- methods to discover association rules - A priori algorithm - Partition algorithm - Dynamic Item set Counting algorithm - FP-tree growth algorithm- Eclat and dEclat - incremental algorithm- border algorithm - generalized association rule. Other techniques: Introduction- what is neural network? - Learning in NN - Unsupervised Learning - support vector machine.	III B.Sc(CS) 'A' And 'B'	12 Hrs	Chalk and Talk	 (Ms.P.Induja)
Mar 23	IV	Genetic algorithm: introduction-Basic steps of GA-selection- crossover-mutation-data mining using GA. Web mining: Introduction - Web content mining - Web structure mining - Web usage mining. Temporal and Spatial mining: Introduction- what is temporal data mining?- temporal	III B.Sc(CS) 'A' And 'B'	12 Hrs	Chalk and Talk	 (Ms.P.Induja)