



**Tirumala Tirupati Devasthanams**  
**S.G.S Arts College, T.T.D, Tirupati**

(Accredited with 'A+' by NAAC)  
 (Affiliated to Sri Venkateswara University, Tirupati)  
 ISO Certified Institution  
 Tiruchanoor Road, Tirupati - 517501



**DEPARTMENT OF COMPUTER SCIENCE**  
**I SEMESTER**

**ACADEMIC YEAR: 2022-2023**

**UNIT PLAN**

**CLASS: I B.Sc. MPCs & MSCs-EM**

**SUBJECT TITLE: PROBLEM SOLVING IN C**

**PAPER CODE: 3-1-108 R20**

**UNIT PLAN: THEORY**

S.NO	UNIT	TOPIC	LECTURES ALLOTTED	METHODOLOGY ADOPTED	TEACHING AIDS USED	TENTATIVE DATE OF COMPLETION
1	Unit I	General Fundamentals-Block diagram of a computer, characteristics and limitations of computers	03	Interactive Lecture	Blackboard	29-11-2022
		applications of computers, types of computers, computer generations	03	Interactive Lecture	Blackboard	03-12-2022
		Algorithm – Key features of Algorithms, Flow Charts, Programming Languages	03	Lecture based Learning	LCD Projector	06-12-2022
		Generations of Programming Languages – Structured Programming Language- Design and Implementation of Correct, Efficient and Maintainable Programs.	04	Lecture based Learning	LCD Projector	13-12-2022
2	Unit II	Introduction – Structure of C Program – Writing the first C Program ,File used in C Program – Compiling and Executing C Programs-- Using Comments –Keywords – Identifiers	03	Interactive Lecture	Blackboard	16-12-2022
		Basic Data Types in C –Variables – Constants, I/O Statements in C, Operators in C- Programming Examples.	03	Lecture based Learning	LCD Projector	20-12-2022
		Introduction to Decision ,Control Statements– Conditional Branching Statements ,Examples	04	Lecture based Learning	LCD Projector	24-12-2022

		<b>Iterative Statements – Nested Loops – Break and Continue Statement – Goto Statement,examples</b>	<b>03</b>	<b>Lecture based Learning</b>	<b>LCD Projector</b>	<b>27-12-2022</b>
<b>3</b>	<b>U n i t I I I</b>	<b>Introduction – Declaration of Arrays – Accessing elements of the Array – Storing Values in Array</b>	<b>03</b>	<b>Lecture based Learning</b>	<b>Blackboard</b>	<b>31-12-2022</b>
		<b>Operations on Arrays, Examples-Programs</b>	<b>02</b>	<b>Lecture based Learning</b>	<b>Projector</b>	<b>03-01-2023</b>
		<b>One dimensional, Two dimensional and Multi-dimensional arrays, Example programs</b>	<b>3</b>	<b>Interactive Lecture</b>	<b>Blackboard</b>	<b>09-01-2023</b>
		<b>character handling and strings, Examples - Programs</b>	<b>02</b>	<b>Interactive Lecture</b>	<b>Blackboard</b>	<b>19-01-2023</b>
<b>4</b>	<b>U n i t I V</b>	<b>Function declaration/ prototype – Function definition – function call – return statement – Passing parameters</b>	<b>04</b>	<b>Interactive Lecture</b>	<b>Blackboard</b>	<b>21-01-2023</b>
		<b>Scope of variables – Storage Classes – Recursive functions.</b>	<b>02</b>	<b>Lecture based Learning</b>	<b>LCD Projector</b>	<b>25-01-2023</b>
		<b>Nested Structures – Arrays of Structures – Structures and Functions</b>	<b>02</b>	<b>Lecture based Learning</b>	<b>LCD Projector</b>	<b>28-01-2023</b>
		<b>Union – Arrays of Unions Variables – Unions inside Structures – Enumerated Data Types.</b>	<b>04</b>	<b>Lecture based Learning</b>	<b>LCD Projector</b>	<b>03-02-2023</b>
<b>5</b>	<b>U n i t V</b>	<b>Introduction to Pointers – declaring Pointer Variables – Pointer Expressions and Pointer Arithmetic – Null Pointers - Passing Arguments to Functions using Pointer</b>	<b>03</b>	<b>Lecture based Learning</b>	<b>LCD Projector</b>	<b>07-02-2023</b>
		<b>Pointer and Arrays – Memory Allocation in C Programs – Memory Usage – Dynamic Memory Allocation – Drawbacks of Pointers</b>	<b>04</b>	<b>Interactive Lecture</b>	<b>Blackboard</b>	<b>14-02-2023</b>
		<b>: Introduction to Files – Using Files in C – Reading Data from Files – Writing Data to Files – Detecting the End-of-file</b>	<b>03</b>	<b>Lecture based Learning</b>	<b>LCD Projector</b>	<b>21-02-2023</b>
		<b>Error Handling during File Operations – Accepting Command Line Arguments.</b>	<b>02</b>	<b>Lecture based Learning</b>	<b>LCD Projector</b>	<b>28-02-2023</b>
		<b>Revision and Model Practical examination.</b>				<b>06-03-2023</b>

**DEPARTMENT OF COMPUTER SCIENCE**  
**II SEMESTER**  
**ACADEMIC YEAR: 2022-2023**  
**UNIT PLAN**

**I B.Sc. -MScs-EM & MPCs-EM**

**SUBJECT TITLE: DATA STRUCTURES USING C**

**PAPER: 3-2-108 R20**

**UNIT PLAN: THEORY**

S · N O	UNIT	TOPIC	LECT URES ALLO TED	METHODOLOG Y ADOPTED	TEACHING AIDS USED	TENTATIVE DATE OF COMPLETIO N
1	Unit I	Introduction to the Theory of Data Structures, Data Representation, Abstract Data Types, Data Types, Primitive Data Types, Data Structure and Structured Type, Atomic Type, Difference between Abstract Data Types, Data Types, and Data Structures, Refinement Stage	04	Lecture based Learning	LCD Projector	30-03-2023
		Software Engineering, Program Design, Algorithms, Different Approaches to Designing an Algorithm, Complexity, Big 'O' Notation,	03	Lecture based Learning	LCD Projector	04-04-2023
		Algorithm Analysis, Structured Approach to Programming, Recursion, Tips and Techniques for Writing Programs in 'C'	05	Lecture based Learning	LCD Projector	10-04-2023
2	Unit II	Introduction to Linear and Non- Linear Data Structures, One- Dimensional Arrays	03	Lecture based Learning	Blackboard	13-04-2023
		Array Operations, Two- Dimensional arrays, Multidimensional Arrays, Pointers and Arrays, an Overview of Pointers	03	Lecture based Learning	Projector	17-04-2023
		Introduction to Lists and Linked Lists, Dynamic Memory Allocation, Basic Linked List Operations	03	Lecture based Learning	LCD Projector	21-04-2023
		Doubly Linked List, Circular Linked List, Atomic Linked List, Linked List in	03	Lecture based Learning	LCD Projector	24-04-2023

		Arrays, Linked List versus Arrays				
3	Unit III	Introduction to Stacks, Stack as an Abstract Data Type, Representation of Stacks through Arrays, Representation of Stacks through Linked Lists, Applications of Stacks, Stacks and Recursion	05	Lecture based Learning	LCD Projector	28-04-2023
		Introduction, Queue as an Abstract data Type, Representation of Queues, Circular Queues,	03	Lecture based Learning	Blackboard	02-06-2023
		Double Ended Queues- Deques, Priority Queues, Application of Queues	04	Lecture based Learning	Projector	05-06-2023
4	Unit 4	Introduction to Non- Linear Data Structures, Introduction Binary Trees, Types of Trees,	05	Lecture based Learning	LCD Projector	09-06-2023
		Basic Definition of Binary Trees, Properties of Binary Trees, Representation of Binary Trees	04	Lecture based Learning	LCD Projector	13-06-2023
		Operations on a Binary Search Tree, Binary Tree Traversal, Counting Number of Binary Trees, Applications of Binary Tree	03	Lecture based Learning	LCD Projector	17-06-2023
5	Unit 5	An Introduction, Bubble Sort, Insertion Sort, Merge Sort, Searching – An Introduction, Linear or Sequential Search, Binary Search, Indexed Sequential Search	05	Lecture based Learning	Blackboard	23-06-2023
		Introduction to Graphs, Terms Associated with Graphs, Sequential Representation of Graphs, Linked Representation of Graphs	03	Lecture based Learning	Projector	27-06-2023
		Traversal of Graphs, Spanning Trees, Shortest Path, Application of Graphs.	04	Lecture based Learning	LCD Projector	30-06-2023
6		Revision and Model Practical examination.				04-07-2023

**DEPARTMENT OF COMPUTER SCIENCE**  
**III SEMESTER**  
**ACADEMIC YEAR: 2022-2023**  
**UNIT PLAN**

**II B.Sc. -MScs-EM & MPCs-EM**

**SUBJECT TITLE: DATABASE MANAGEMENT SYSTEM**

**PAPER: 3-3-108 R20**

**UNIT PLAN: THEORY**

S.NO	UNIT	TOPIC	LECTURES ALLOTTED	METHODOLOGY ADOPTED	TEACHING AIDS USED	TENTATIVE DATE OF COMPLETION
1	Unit I	Introduction to data, information, database, database management systems, file-based system,	3	Lecture based Learning	LCD Projector	27-10-2022
		Drawbacks of file-Based System, database approach	2	Lecture based Learning	LCD Projector	04-11-2022
		Classification of Database Management Systems, advantages of database approach, Various Data Models, Drawbacks of file-Based System, database approach	4	Lecture based Learning	LCD Projector	11-11-2022
		Drawbacks of file-Based System, database approach	2	Lecture based Learning	Blackboard	14-11-2022
2	Unit-II	The Building blocks of an Entity Relationship Diagram, classification of entity sets,	2	Lecture based Learning	Projector	18-11-2022
		attribute classification, relationship degree, relationship classification, reducing ER diagram to tables	2	Lecture based Learning	LCD Projector	21-11-2022
		enhanced entity-relationship model (EER model), generalization and specialization,	2	Lecture based Learning	LCD Projector	25-11-2022

		ISA relationship and attribute inheritance, multiple inheritance, constraints on specialization and generalization,	3	Lecture based Learning	LCD Projector	26-11-2022
		aggregation and composition, entity clusters, connection traps, advantages of ER modeling	2	Lecture based Learning	LCD Projector	03-12-2022
3	UNIT-III	Introduction, CODD Rules, relational data model, concept of key, relational integrity, relational algebra,	3	Lecture based Learning	LCD Projector	08-12-2022
		relational algebra operations, advantages of relational algebra, limitations of relational algebra	4	Lecture based Learning	LCD Projector	12-12-2022
		relational calculus, tuple relational calculus, domain relational Calculus (DRC)	3	Lecture based Learning	Blackboard	17-12-2022
		Functional dependencies and normal forms up to 3rd normal form.	2	Lecture based Learning	Projector	22-12-2022
4	Unit-IV	Introduction, History of SQL Standard, Commands in SQL, Data Types in SQL, Data	3	Lecture based Learning	LCD Projector	28-12-2022
		Definition Language, Selection Operation, Projection Operation, Aggregate functions	3	Lecture based Learning	LCD Projector	05-01-2023
		Data Manipulation Language, Table Modification Commands, Join Operation, Set Operations,	5	Lecture based Learning	LCD Projector	10-01-2023

		View, Sub Query				
5	Unit-V	Introduction, Shortcoming in SQL, Structure of PL/SQL, PL/SQL Language Elements,	4	Lecture based Learning	LCD Projector	25-01-2023
		Data Types, Operators Precedence, Control Structure, Steps to Create a PL/SQL	3	Lecture based Learning	LCD Projector	31-01-2023
		Program, Iterative Control, Cursors, Steps to create a Cursors, Procedure	4	Lecture based Learning	LCD Projector	07-02-2023
		Function, Packages, Exceptions Handling, Database Triggers, Types of Triggers	4	Lecture based Learning	Blackboard	20-02-2023
		Revision and Model Practical examination.				02-03-2023

**DEPARTMENT OF COMPUTER SCIENCE**  
**IV SEMESTER**

**ACADEMIC YEAR: 2022-2023**

**UNIT PLAN**

**CLASS : II B.Sc. -MScs-EM & MPCs-EM**

**SUBJECT TITLE: OBJECT ORIENTED PROGRAMMING THROUGH JAVA**

**PAPER CODE : 3-4-108 A**

**UNIT PLAN: THEORY**

S.NO	UNIT	TOPIC	LECTURES ALLOTTED	METHODOLOGY ADOPTED	TEACHING AIDS USED	TENTATIVE DATE OF COMPLETION
1	Unit-I	Features of Java, The Java virtual Machine, Parts of Java, Naming Conventions in Java	02	Lecture based Learning	LCD Projector	31-03-2023
		Data Types in Java, Literals, Operators, Priority of Operators	02	Lecture based Learning	LCD Projector	03-04-2023
		Control Statements in Java: if... else Statement, do... while Statement, while Loop, for Loop, switch Statement, break Statement, continue Statement, return Statement	03	Lecture based Learning	LCD Projector	07-04-2023
		Accepting Input from the Keyboard, Reading Input with Java.util.Scanner Class, Types of Arrays, Three Dimensional Arrays (3D array), arrayname.length, Command Line Arguments	03	Lecture based Learning & Interactive Lecture	LCD Projector & Black board	11-04-2023
2	Unit-II	Creating Strings, String Class Methods, String Comparison	02	Lecture based Learning	LCD Projector	17-04-2023
		Introduction to OOPs: Problems in Procedure Oriented Approach, Features of Object	02	Lecture based Learning	LCD Projector	21-04-2023
		Classes and Objects: Object Creation, Initializing the Instance Variables,	03	Lecture based	LCD	24-04-

		Access Specifiers, Constructors		Learning	Projector	2023
		Methods in Java, static, Passing Primitive Data Types to Methods, Passing Objects to Methods, Passing Arrays to Methods, Recursion	02	Lecture based Learning	LCD Projector	28-04-2023
		Inheritance, The keyword 'super', The Protected Specifier, Types of Inheritance	02	Lecture based Learning	LCD Projector	03-06-2023
3	UNIT-III	Polymorphism with Variables, Methods, Polymorphism with Static Methods, Private Methods, Polymorphism with Final Methods, final Class	02	Lecture based Learning	LCD Projector	05-06-2023
		Type Casting: Types of Data Types, Casting Primitive Data Types, Casting Referenced Data Types	02	Lecture based Learning	LCD Projector	09-06-2023
		Abstract Classes: Abstract Method and Abstract Class Interfaces: Interface, Multiple Inheritance using Interfaces	02	Lecture based Learning	LCD Projector	12-06-2023
		Packages: Package, Different Types of Packages, Interfaces in a Package, Creating Sub Package in a Package	02	Lecture based Learning	LCD Projector	16-06-2023
		Exception Handling: Errors in Java Program, Exceptions, throws Clause, throw Clause, Types of Exceptions	02	Lecture based Learning	LCD Projector	19-06-2023
4	Unit-IV	Streams: Stream, Creating a File using FileOutputStream, Reading Data from a File using FileInputStream, Creating a File using FileWriter, Reading a File using FileReader	04	Lecture based Learning	LCD Projector	23-06-2023
		Threads: Single Tasking, Multi-Tasking, Uses of Threads, Creating a Thread and Running it, Terminating the Thread, Single Tasking Using a Thread, Multi - Tasking Using Threads	05	Lecture based Learning	LCD Projector	26-06-2023
		Deadlock of Threads, Thread Communication, and Thread Priorities, thread Group, Applications of Threads, Thread Life Cycle.	03	Lecture based Learning	LCD Projector	30-06-2023

5	Unit-V :	Creating an Applet, Uses of Applets, Uses of Applets, A Simple Applet, Applet Life Cycle, Animation in Applets, Applet Parameters.	05	Lecture based Learning & Interactive Lecture	LCD Projector	03-07-2023
		Java Database Connectivity: Database Servers, Database Clients, JDBC (Java Database Connectivity), Working with Oracle Database, Working with MySQL Database, Stages in a JDBC Program, Registering the Driver,	06	Lecture based Learning	LCD Projector	03-07-2023
		Connecting to a Database, Preparing SQL Statements, Using jdbc-odbc Bridge Driver to Connect to Oracle Database, Retrieving Data from MySQL Database,, Result Sets	06	Lecture based Learning	LCD Projector	08-07-2023
6		Revision and Model Practical examination.				10-07-2023

**DEPARTMENT OF COMPUTER SCIENCE**  
**IV SEMESTER**  
**ACADEMIC YEAR: 2022-2023**  
**UNIT PLAN**

**CLASS : II B.Sc. -MScs-EM & MPCs-EM**

**SUBJECT TITLE: OPERATING SYSTEM**

**PAPER CODE : 3-4-108 B**

**UNIT PLAN: THEORY**

S. N O	UNIT	TOPIC	LECTURES ALLOTTED	METHOD OLOGY ADOPTED	TEACHING AIDS USED	TENTATIVE DATE OF COMPLETION
1	Unit-I	History and Evolution of OS, Basic OS functions, Resource Abstraction.	04	Lecture based Learning	BLACKBOARD	30-03-2023
		Types of Operating Systems– Multiprogramming Systems, Batch Systems, Time Sharing Systems;	03	Lecture based Learning	LCD Projector	03-04-2023
		Operating Systems for Personal Computers, Workstations and Hand-held Devices, Process Control & Real time Systems.	03	Lecture based Learning	LCD Projector	08-04-2023
2	Unit-II	Processor and User Modes, Kernels, System Calls and System Programs	02	Lecture based Learning	BLACKBOARD	13-04-2023
		System View of the Process and Resources, Process Abstraction, Process Hierarchy	03	Lecture based Learning	BLACKBOARD	20-04-2023
		Threads, Threading Issues, Thread Libraries; Process Scheduling, Non-Preemptive and Preemptive Scheduling Algorithms.	04	Lecture based Learning	LCD Projector	28-04-2023
		Process Management: Deadlock, Deadlock Characterization, Necessary and Sufficient Conditions for Deadlock,	03	Lecture based Learning	LCD Projector	03-06-2023
3	UNIT-III	Deadlock Handling Approaches: Deadlock Prevention, Deadlock Avoidance and Deadlock Detection and Recovery	03	Lecture based Learning	LCD Projector	06-06-2023
		Concurrent and Dependent Processes, Critical Section, Semaphores, Methods for	03	Lecture based	LCD Projector	10-06-2023

		Inter- process Communication;		Learning		
		Process Synchronization, Classical Process Synchronization Problems: Producer-Consumer, ReaderWriter.	03	Lecture based Learning	BLACKBOARD	15-06-2023
4	Unit-IV	Memory Management: Physical and Virtual Address Space	03	Lecture based Learning	BLACKBOARD	19-06-2023
		Memory Allocation Strategies– Fixed and -Variable Partitions,	03	Lecture based Learning	LCD Projector	23-06-2023
		Paging, Segmentation, Virtual Memory.	02	Lecture based Learning	LCD Projector	27-06-2023
5	Unit-V	File and I/O Management, OS security: Directory Structure, File Operations, Security Policy Mechanism, File Allocation Methods, Device Management, Pipes, Buffer, Shared Memory	03	Lecture based Learning	LCD Projector	30-07-2023
		Protection, Authentication and Internal Access Authorization ,Introduction to Android Operating System, Android Development Framework, Android Application Architecture,	05	Lecture based Learning	BLACKBOARD	03-07-2023
		Android Process Management and File System, Small Application Development using Android Development Framework.	02	Lecture based Learning	LCD Projector	08-07-2023
6		Revision and Model Practical examination.				10-07-2023

**DEPARTMENT OF COMPUTER SCIENCE**  
**V SEMESTER**  
**ACADEMIC YEAR: 2022-2023**  
**UNIT PLAN**

III B.Sc. -MScs-EM & MPCs-EM

SUBJECT TITLE: **WEB INTERFACE DESIGN TECHNOLOGIES** PAPER: **3-5-108 6A R20**

UNIT PLAN: **THEORY**

S. N O	UNIT	TOPIC	LECTURES ALLOTTED	METHOD ADOPTED	TEACHING AIDS USED	TENTATIVE DATE OF COMPLETION
1	Unit-1: HTML	Introduction to web designing, difference between web applications and desktop applications ,introduction to HTML	04	Lecture based Learning	LCD Projector	12-12-2022
		HTML structure, elements, attributes,headings,paragraphs, styles, colours, HTML formatting	03	Lecture based Learning	LCD Projector	17-12-2022
		Comments ,images, tables, lists,Blocks and classes,HTML frames,file paths, layout, symbols	03	Lecture based Learning	LCD Projector	23-12-2023
2	Unit-II: HTML FORMS	HTML form elements,input types, input attributes,HTML5,HTML graphics	04	Lecture based Learning & Interactive Lecture	LCD Projector & Black board	31-12-2022
		HTML media video, audio, plugINS, youtube	03	Lecture based Learning	LCD Projector	06-01-2023
		CSS: CSS home, introduction, syntax, colours, background, borders, margins, padding, height/width, text, fonts, icons, tables, lists	03	Lecture based Learning	LCD Projector	10-01-2023
3	UNIT-III: Client side	Introduction to JavaScript - What is DHTML, JavaScript, basics, variables, string manipulations,	03	Lecture based	LCD Projector	23-01-2023

	Validation	mathematical functions, statement, operators, arrays, functions.		Learning		
		Objects in JavaScript Data and objects in JavaScript, regular expressions, exception handling	02	Lecture based Learning	LCD Projector	28-01-2023
		JavaScript Data validation, opening a new window, messages and confirmations, the status bar, different frames, rollover buttons, moving images..	05	Lecture based Learning	LCD Projector	06-02-2023
4	Unit-IV: Introduction to word press	Introduction to word press, servers like wamp, bitnami e.tc, installing and configuring word press, understanding admin panel,	04	Lecture based Learning & Interactive Lecture	LCD Projector & Black board	13-02-2023
		working with posts and pages, using editor, text formatting with shortcuts	03	Lecture based Learning	LCD Projector	20-02-2023
		working with media-Adding, editing, deleting media elements, working with widgets	03	Lecture based Learning	LCD Projector	25-02-2023
5	Unit-V : Working with themes	Working with themes-parent and child themes, using featured images, configuring settings	04	Lecture based Learning	LCD Projector	04-03-2023
		user and user roles and profiles, adding external links, extending word press with plug-ins.	04	Lecture based Learning & Interactive Lecture	LCD Projector & Black board	13-03-2023
		Customizing the site, changing the appearance of site using css, protecting word press website from hackers.	02	Lecture based Learning	LCD Projector	18-03-2023
6		Revision and Model Practical examination.				23-03-2023

**DEPARTMENT OF COMPUTER SCIENCE**  
**V SEMESTER**  
**ACADEMIC YEAR: 2022-2023**  
**UNIT PLAN**

**CLASS: III B.Sc. MPCs & MSCs-EM**

**SUBJECT TITLE: WEB DEVELOPMENT APPLICATION USING PHP & MYSQL (3-5-1-8 7A R20)**

**UNIT PLAN: THEORY**

S.NO	UNIT	TOPIC	LECTURES ALLOTTED	METHODOLOGY ADOPTED	TEACHING AIDS USED	TENTATIVE DATE OF COMPLETION
1	Unit-I	Features, merits and demerits of PHP and MYSQL.	02	Lecture based Learning	LCD Projector	10-12-2022
		Building blocks of PHP: Variables, Data Types, Operators and Expressions, Constants.	02	Lecture based Learning	LCD Projector	16-12-2022
		Flow Control Functions in PHP: Switching Flow, Loops, Code Blocks and Browser Output.	06	Lecture based Learning	LCD Projector	24-12-2023
2	Unit-II	Calling functions, Defining Functions, Returning the values from User-Defined Functions, Variable Scope, Saving state between Function calls with the static statement, more about arguments	04	Lecture based Learning	Blackboard	02-01-2022
		Creating Arrays, Some Array-Related Functions. Working with Objects: Creating Objects, Object Instance Working with Strings, Dates and Time: Formatting strings with PHP	04	Lecture based Learning	BLACKBOARD	06-01-2023
		Investigating Strings with PHP, Manipulating Strings with PHP, Using Date and Time Functions in PHP.	02	Lecture based Learning	LCD Projector	09-01-2023
3	UNIT-III	Creating Forms, Accessing Form Input with User defined Arrays, Combining HTML and PHP code on a single Page,	03	Lecture based Learning	LCD Projector	21-01-2023

		Using Hidden Fields to save state,				
		Redirecting the user, Sending Mail on Form Submission, Working with File Uploads.	02	Lecture based Learning	LCD Projector	25-01-2023
		Setting a Cookie with PHP, Session Function Overview, Starting a Session, Working with session variables, passing session IDs in the Query String, Destroying Sessions and Unsetting Variables, Using Sessions in an Environment with Registered Users.	05	Lecture based Learning	Blackboard	31-01-2023
4	Unit-IV	Validating Files, Creating and Deleting Files, Opening a File for Writing, Reading or Appending, Reading from Files, Writing or Appending to a File.	02	Lecture based Learning	Projector	13-02-2023
		Interfacing with Databases through PHP Understanding the database design process: The Importance of Good Database Design, Types of Table Relationships, Understanding Normalization	04	Lecture based Learning	BLACKBOARD	04-02-2023
		Learning basic SQL Commands: MySQL Data types, Table Creation Syntax, Using INSERT, UPDATE , DELETE, REPLACE, SELECT commands, WHERE in your Queries, Selecting from Multiple Tables, Date and Time Functions in MySQL.	04	Lecture based Learning	BLACKBOARD	11-02-2023
						23-03-2023

S.No	Date	Day	Class	Period/Time	Medium	Theory/Practicals	Topic
1	01/12/2022 Thursday	Thursday	10-11	}	Staffroom	Notes	Preparation for P-Block elements
2			11-12				
3			12-01	IMPC	Em	Theory	Generalization A.W. Electrochemistry
4			02-03	EMC, CBZ	Em	Practical	General Chemistry A.W. Electrochemistry
5			03-04	Practical			Confirmations Physical Properties
1	02/12/2022 Friday	Friday	10-11	}	Em	Practical	Preparation of organic compounds
2			11-12				
3			12-01	IMPC	Em	Theory	UNIT - I Part 2 Smo. 14 Chemistry
4			02-03	EMC, CBZ	Em	Theory	UNIT - 2 Part 2 Group 13 elements
5			03-04	EMC, CBZ	Em	Theory	UNIT - 2 Part 2 Group 13 elements
1	03/12/2022 Saturday	Saturday	10-11	}	Em	Theory	Group 13
2			11-12				
3			12-01				Went to Library
4			02-03	EMC, CBZ	Em	Theory	Group 13
5			03-04	EMC, CBZ	Em	Practical	mixture analysis
1	06/12/2022 Tuesday	Tuesday	10-11	}			Benzene, diborane mixture chart Preparation with student
2			11-12				
3			12-01				
4			02-03	EMC, CBZ	Em	Theory	Group - 14
5			03-04	EMC, CBZ	Em	Practical	Preparation of

04/12/22 - Sunday

05/12/22 - 04 -

P. Srujana  
Signature of the Lecturer

Signature of the Department Head  
HEAD  
DEPARTMENT OF CHEMISTRY  
S. G. S. ARTS COLLEGE  
TIRUPATHI

Overall	Methodology adopted	No. of Students attended	Teaching aids used	Student activity conducted	Remarks
-	-	-	-	-	-
S.P.d.6 Block on electroanalysis	Classroom	14	Blackboard	-	-
S.P.d.6 Block on electroanalysis	Laboratory	14	Blackboard	-	-
Aspirin	Laboratory	10	Lab Apparatus	-	-
Preparation & study of Benz	Classroom	14	Blackboard	-	-
Preparation & structure of Benz	Classroom	16	Blackboard	-	-
Preparation & structure of Benz	Classroom	20	Blackboard	-	-
Preparation & structure of Benz	Classroom	12	Blackboard	-	-
Systematic qualitative Analysis Procedure	Laboratory	10	Blackboard	-	-
with student	Chart	06	Board, Dibrorane chart	Prepared by student	Chart, Thermochemical sheets, colour papers
Preparation, character & uses of benzene	Classroom	04	Blackboard	-	-
Aspirin Procedure	Lab	16	Blackboard	-	-

P. Srujana  
Signature of the Lecturer

Signature of the Department Head  
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DEPARTMENT OF CHEMISTRY  
S. G. S. ARTS COLLEGE  
TIRUPATHI

Teaching Diary for the

S.No	Date	Day	Class	Period/Time	Medium	Theory/Practicals	Topic
1	07/12/22	Wednesday	II msc	10-11	6m	Practical	Preparation of
2			CBZ	11-12	6m		Organic Comp. Prep.
3					12-01		Notes Preparation for
4			II msc, msc CBZ	02-03	6m	Theory	UNIT-III Spectroscopy
5				03-04			Library
1	08/12/22	Thursday		10-11	}		Inorganic Solutions
2				11-12			
3			Impc	12-01	6m	Theory	Group-14
4			II msc, CBZ	02-03	6m	Theory	Group-14
5			II msc	03-04	6m	Practical	Mixture Analysis
1	09/12/22	Friday		10-11	}		Alkane, Alkene, Alkyne
2				11-12			
3				12-01			Chart work
4			Impc	02-03	6m	Theory	Group-15
5			III msc, CBZ, II msc	03-04	6m	Theory	Group-14
1	12/12/22	Monday	II msc	10-11	6m	Practical	Preparation of Organic Compounds
2			Impc	11-12	6m	Practical	Mixture Analysis
3			II msc, CBZ, II msc	12-01	6m	Theory	Group-15
4				02-03	}		Library
5				03-04			

10/12/22 - Second Saturday

11/12/22 - Sunday

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academic year 2022 - 2023

Content	Methodology adopted	No. of Students attended	Teaching aids used	Student activity conducted	Remarks
Aspirin Procedure	Lab	50	Blackboard	-	-
Spectroscopy	PPT slides for each	-	-	-	-
Interaction of EMR with molecules & various types of spectra	classroom	42	Blackboard	-	-
reagents Preparation	Laboratory	-	Glass cover chemicals	-	-
Preparation, classification of silicene	classroom	14	Blackboard	-	-
Preparation, classification of silicene	classroom	16	Blackboard	-	-
Procedure Anions cations	Lab	10	Blackboard	-	-
-	-	06	Chart	Chart Prepared by	Students of the Laboratory
Preparation & structure of (Pnic)	classroom	14	Blackboard	-	-
Preparation, classification of silicene	classroom	18	Blackboard	-	-
Aspirin	Lab	12	Apparatus	-	-
Procedure Anions cations	Lab	04	Blackboard	-	-
Preparation, structure of (Pnic)	classroom	14	Blackboard	-	-
-	-	-	-	-	-
-	-	-	-	-	-

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Teaching Diary for the

academic year 2022 - 2023

S.No.	Date	Day	Class	Period/Time	Medium	Theory/Practicals	Topic
1	13/12/22	Tuesday		10-11	}	Notes	Preparation
2			11-12			Spectroscopy	
3			12-01				
4			ImpC	02-03	6m	Theory	P-Block Group-16
5			ImpC	03-04	6m	Practical	Preparation of organic compound
1	14/12/22	Wednesday	ImpZ6 CBZ	10-11	}	Practical	Preparation of organic compound
2			11-12				
3				12-01		Laboratory work	
4			ImpC	02-03	6m	Theory	Spectroscopy
5				03-04			
1	15/12/22	Thursday		10-11	}	Notes	Preparation for
2			11-12				
3			ImpC	12-01		6m	Theory
4			ImpZ6 CBZ	02-03	6m	Theory	P-Block Group-16
5			ImpC CBZ	03-04	6m	Practical	P-Block Group-16
1	16/12/22	Friday		10-11	}		
2			11-12			Notes Preparation for	
3			12-01				
4			ImpC	02-03	6m	Theory	P-Block Group-17
5			ImpC CBZ	03-04	6m	Theory	P-Block Group-17

covered	Methodology adopted	No. of Students attended	Teaching aids used	Student activity conducted	Remarks
	Powerpoint Presentation				-
	Slides				-
Oxides of sulphur	class room	14	Blackboard		
Aspirin	Lab	26	Apparatus	-	-
Aspirin	Lab	52	Apparatus	-	-
Rotation spectroscopy	E-class	66	PPT, reprotable	E-class	-
P-Block element					
Oxides of sulphur	class room	14	Blackboard		
Oxides & oxo acids of sulphur	class room	19	Blackboard		
Oxides & oxo acids of sulphur	class room	43	Blackboard		
d-Block element	-	-	-	-	-
Pseudohalogens	class room	4	Blackboard		
Pseudohalogens	class room	37	Blackboard		

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Teaching Diary for the

academic year 2022-2023

S.No.	Date	Day	Class	Period/Time	Medium	Theory/Practicals	Topic	
1	17/12/2022	Saturday	Impc, BBC CBZ, mzc	10-11	Em	Theory	P-Block Group-17	
2				11-12	}	}	Lab work	
3				12-01				
4				02-03				Em
5				03-04	Em	Practicals	Mixture Analysis	
1	19/12/2022	Monday	IBBC	10-11	Em	Practicals	Organic Compounds properties	
2				Impc	11-12	Em	Practicals	Mixture Analysis
3				IBBC CBZ mzc	12-01	Em	Theory	UNIT-II d-Block
4					02-03	}	}	Zeternal Exam Per Isem student
5					03-04			
1	20/12/2022	Tuesday		10-11	}	}	Paper correction	
2				11-12				
3				12-01				
4				Impc	02-03	Em	Theory	UNIT-II d-Block
5				Impc	03-04	Em	Practicals	Preparation of organic compounds
1	21/12/2022	Wednesday	Impc CBZ	10-11	Em	Practicals	Preparation	
2					11-12	}	}	Paper correction
3					12-01			
4				Impc mzc, BBC CBZ	02-03			
5					03-04			

Content	Methodology adopted	No. of Students attended	Teaching aids used	Student activity conducted	Remarks
Structure of trihalogen compounds	Classroom	60	Blackboard		
Introduction & general characteristics of mixture analysis	Classroom	37	Blackboard		
Mixture Analysis	Lab	17	Lab		
Preparation of p-nitro acetanilide	Lab	28	Lab		
Mixture Analysis	Lab	16	Lab		
General characteristics of d-block	Classroom	51	Blackboard		
-	-	-	-		
-	-	-	-		
Student Exam papers	-	-	-		
Introduction & general characteristics of p-nitro acetanilide	Classroom	14	Blackboard		
p-nitro acetanilide	Lab	25	Lab		
Aspirin	Lab	52	Lab		
Electronic Spectroscopy	E-class	44	E-class PPT Slide		

18/12/2022 Sunday

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Teaching Diary for the

academic year 2022-2023

S.No.	Date	Day	Class	Period/Time	Medium	Theory/Practicals	Topic
1	22/12/2022	Thursday		10-11	}	Notes	Preparation
2			11-12	Theories			
3			ImPC	12-01	Em	Theory	UNIT-12
4			ImzC	02-03	Em	Theory	d-Block elem
5			IBBC CO2	03-04	Em	Practicals	miscellaneous
1	23/12/2022	Friday		10-11	}		
2			ImzC POC	11-12			Internal Exam
3				12-01			
4			ImPC	02-03	Em	Theory	f-Block elem
5			IBBC CO2	03-04	Em	Theory	f-Block elem
1	24/12/2022	Saturday	ImPC, POC CO2, ImzC	10-11	Em	Theory	Theories of bonding in m
2				11-12	}		
3				12-01		Lab work	
4			ImzC	02-03	Em	Practicals	mixture Analysis
5				03-04	Em	Practicals	mixture Analysis
1	26/12/2022	Monday	IBBC	10-11	Em	Practicals	Preparation of organic com
2			ImPC	11-12	Em	Practicals	mixture Analysis
3			ImPC	12-01	Em	"	"
4				02-03	}	Paper Correction	
5				03-04			

covered	Methodology adopted	No. of Students attended	Teaching aids used	Student activity conducted	Remarks
			E-class Prepared		
of bonding in metals			PPT slides		
explanation about oxidation states, magnetic prop	classroom	16	Blackboard		
electronic config lanthanide contraction	classroom	17	Blackboard		
mixture Analysis	Lab	42	Lab		
UV-Visible, IR					
SPECTROSCOPY	classroom	40	Exam		
Chemistry of Actinides Prepared	classroom	14	Blackboard		
Chemistry of Actinides Prepared	classroom	38	Blackboard		
VBT, Precedence Theory		58	Blackboard		
-	-	-			
mixture Analysis	Lab	19	Lab		
mixture Analysis	Lab		Lab		
P-nitro Acetamide	Lab	26	Lab		
mixture Analysis	Lab	14	Lab		
"	Lab		Lab		
-	-	-			

25/12/2022 Sunday

P. Sujana  
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*[Signature]*  
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P. Sujana  
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Teaching Diary for the

S.No.	Date	Day	Class	Period/Time	Medium	Theory/Practicals	Topic
1	27/12/2022	Tuesday	TEBC CBZ	10-11	Em.	Theory	Internal
2				11-12	}	}	Paper corrections
3				12-01			
4			Impc	02-03			
5			Impc	03-04	Em.	Practicals	
1	28/12/2022	Wednesday	Imzc CBZ	10-11	Em.	Practicals	Preparations
2				11-12	}	}	Applications of
3				12-01			
4			Impc mzc BOC CBZ	02-03			
5			Impc mzc BOC CBZ	03-04	Em.	Theory	Assignment
1	29/12/2022	Thursday		10-11	}	}	Solutions Preparation
2				11-12			
3			Impc	12-01			
4			Imzc	02-03	Em.	Theory	Theories of bonding in mix
5			TEBC CBZ	03-04	Em.	Practicals	mixture analysis
1	30/12/2022	Friday				S.P.C.I.	
1	31/12/2022	Saturday				C.L.	

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DEPARTMENT OF CHEMISTRY  
S. G. S. ARTS COLLEGE  
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academic year 2022-2023

covered	Methodology adopted	No. of Students attended	Teaching aids used	Student activity conducted	Remarks
Exam.	classroom	30	Exam		
Bond Theory	classroom	14	Blackboard		
P-nitro Acetamide	Lab	25	Lab		
Aspirin	Lab	32	Apparatus	-	-
Spectroscopy notes.	-	-	-	E-class	
Electronic Spectroscopy	E-class	46	PPT Slides	-	-
2 Imp assignment		43	Exam	-	-
In Laboratory					
Bond Theory	classroom	16	Blackboard	-	-
Bond Theory	classroom	17	Blackboard	-	-
mixture Analysis	Lab	38	Lab	-	-

P. Sujana  
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P. Sujana  
**PRINCIPAL**  
S.G.S. ARTS COLLEGE  
T.T.D., TIRUPATHI.

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