SVR GOVERNMENT DEGREE COLLEGE, NIDADAVOLE
TABLE A- ANNUAL CURRICULAR PLAN -LECTURERWISE

Department: **COMPUTER SCIENCE**   Name of the Lecturer: **SOUJANYA BHUKYA**   Class: **3rd B. Sc (M.P.CS)**

Sem Paper: **VI A - Web Interface Designing Technologies**

Month& Week	Hours available	Syllabus Topic (as per the university)	Additional Input (or) Value Addition	Curricular Activity				Co-Curricular Activity			If not Alternate date	Remarks
				Activity	Hours allotted	Whether Conducted	If not Alternate date	Activity	Hours allotted	Whether conducted		
JULY 2024 1st Week	4 / 2	HTML: Introduction to web designing, difference between web applications and desktop applications, introduction to HTML. 1. Create an HTML document with the following formatting options: (a)Bold, (b) Italics, (c) Underline, (d) Headings (Using H1 to H6 heading styles), (e) Font (Type, Size and Color), (f) Background (Colored background/Image in background), (g) Paragraph, (h) Line Break, (i) Horizontal Rule, (j) Pre tag. 2. Create an HTML document which consists of: (a) Ordered List (b) Unordered List (c) Nested List (d) Image.		Teachig	03.			QUIZ		yer.	27.07.2024.	
jULY 2024 2nd Week	4 / 2	HTML structure, elements, attributes, headings, paragraphs, styles, colours, HTML formatting, Quotations, Comments, images. 3. Create a Table with four rows and five columns. Place an image in one column. 4. Using "table" tag, align the images.		Teachig	03.			Student Seminar			29.07.24	

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S.No	Month/Week	Periods	Topic / Experiment	Method
3	JULY 2024 3rd Week	4	Tables, lists, blocks and classes. HTML CSS, HTML frames. file paths, layout, symbols, HTML responsive. 5. Create a menu form using html.	Student Seminar
		2	6. Style the menu buttons using css.	
4	JULY 2024 4th Week	4	HTML forms: HTML form elements, input types, input attributes, HTML5, HTML graphics, HTML media – video, audio, plug INS, you tube. 7. Create a form using HTML which has the following types of controls:	Student Seminar
		2	(a) Text Box (b) Option/radio buttons (c) Check boxes (d) Reset and Submit buttons. 8. Embed a calendar object in your web page.	
5	AUGUST 2024 1st Week	4	HTML API'S: Geo location, Drag/drop, local storage, HTML SSE. CSS: CSS home, introduction, syntax, colours, back ground, borders, margins, padding. 9. Create an applet that accepts two numbers and perform all the arithmetic operations on them	Assignment
		2	10. Create nested table to store your curriculum	
6	AUGUST 2024 2nd Week	4	CSS: height/width, text, fonts, icons, tables, lists, position, over flow, float, CSS combinators, pseudo class, pseudo elements, opacity, tool tips, image gallery, CSS forms, CSS counters, CSS responsive.	Student Seminar
		2	11. Create a form that accepts the information from the subscriber of a mailing system. 12. Design the page.	
	AUGUST 2024 3rd Week	4	Client side Validation: Introduction to JavaScript - What is DHTML, JavaScript, basics, variables, string manipulations, mathematical functions. 13. Create a help file.	Student Seminar
		2	14. Create a webpage containing your bio data (assume the form and fields).	
	AUGUST 2024 4th Week		Statements, operators, arrays, functions. Objects in JavaScript - Data and objects in JavaScript, regular expressions, exception handling. 15. Write a html program including style sheets.	
	AUGUST 2024 5th Week	4	1st MID EXAMINATIONS	Student Seminar
		2		
	SEPTEMBER 2024 1st Week	4	DHTML with JavaScript - Data validation, opening a new window, messages and confirmations, the status bar, different frames, rollover buttons, moving images. 16. Write a html program to layers of information in web page.	Group Discussion
		2		
	SEPTEMBER 2024 2nd Week	4	Word press: Introduction to word press, servers like wamp, bitnami e.tc, installing and configuring word press.	Student Seminar
		2	17. Create a static webpage.	

12	SEPTEMBER 2024 3rd Week	4	Understanding admin panel, working with posts and pages, using editor, text formatting with shortcuts.						Student Seminar					
		2	1. Installation and configuration of word press. 2. Create a site and add a theme to it. 20 Create a child theme											
13	SEPTEMBER 2024 4th Week	4	Working with media-Adding, editing, deleting media elements, working with widgets, menus.						Student Seminar					
		2	3. Create five pages on COVID – 19 and link them to the home page. 4. Create a simple post with featured image.											
14	October 2024 1st week	4	Working with themes-parent and child themes, using featured images, configuring settings.						Assignment					
		2	5. Add an external video link with size 640 X 360. 6. Create a user and assign a role to him.											
15	October 2024 3d Week	4	User and user roles and profiles, adding external links, extending word press with plug-ins.						Student Seminar					
		2	7. Create a login page to word press using custom links. 8. Create a website for your college.											

October 2024 4th Week	4	Customizing the site, changing the appearance of site using css , protecting word press website from hackers.										
	2	RECORD WORK										
October 2024 5th Week	4	IInd MID EXAMINATIONS										
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Signature of the Lecturer   **Signature of the Dept. I/c**   **Signature of the Principal**

SVR GOVERNMENT DEGREE COLLEGE, NIDADAVOLE
TABLE A- ANNUAL CURRICULAR PLAN -LECTURERWISE

Department: **COMPUTER SCIENCE** Name of the Lecturer: **SOUJANYA BHUKYA** Class: **3rd B. Sc (M.P.CS) V-Sem**

Paper: **VII A - Web Applications Development using PHP& MYSQL**

Month& Week	Hours available	Syllabus Topic (as per the university)	Additional Input (or) Value Addition	Curricular Activity				Co-Curricular Activity				Remarks
				Activity	Hours allotted	Whether Conducted	If not Alternate date	Activity	Hours allotted	Whether conducted	If not Alternate date	
JULY 2024 1st Week	4 / 2	The Building blocks of PHP: Variables, Data Types, Operators and Expressions, Constants. Flow Control Functions in PHP: Switching Flow, Loops. 1.Write a PHP program to Display "Hello" 2. Write a PHP Program to display the today's date.						QUIZ				
JULY 2024 2nd Week	4 / 2	Code Blocks and Browser Output. Working with Functions: What is function?, Calling functions, Defining Functions, Returning the values from User-Defined Functions. 3. Write a PHP program to display Fibonacci series. 4. Write a PHP Program to read the employee details.							Student Seminar				
JULY 2024 3rd Week	4 / 2	Variable Scope, Saving state between Function calls with the static statement, more about arguments. 5. Write a PHP program to prepare the student marks list. 6. Write a PHP program to generate the multiplication of two matrices.							Student Seminar				

JULY 2024 4th Week	4	Working with Arrays: What are Arrays? Creating Arrays, Some Array-Related Functions.					Student Seminar				
	2	7. Create student registration form using text box, check box, radio button, select, submit button. And display user inserted value in new PHP page. 8. Create Website Registration Form using text box, check box, radio button, select, submit button. And display user inserted value in new PHP page.									
AUGUST 2024 1st Week	4	Working with Objects: Creating Objects, Object Instance Working with Strings, Dates and Time.					Assignment				
	2	9. Write PHP script to demonstrate passing variables with cookies. 10. Write a program to keep track of how many times a visitor has loaded the page.									
AUGUST 2024 2nd Week	4	Formatting strings with PHP, Investigating Strings with PHP, Manipulating Strings with PHP, Using Date and Time Functions in PHP. 11. Write a PHP application to add new Rows in a Table.					Student Seminar				
	2	12. Write a PHP application to modify the Rows in a Table.									
AUGUST 2024 3rd Week	4	Working with Forms: Creating Forms, Accessing Form Input with User defined Arrays, Combining HTML and PHP code on a single Page, Using Hidden Fields to save state. 13. Write a PHP application to delete the Rows from a Table.					Expert lectures by IT experts working professionally in the area of web Content development				
	2	14. Write a PHP application to fetch the Rows in a Table.									

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#	Month/Week	Hrs	Topic	Method
8	AUGUST 2024 4th Week		Redirecting the user, Sending Mail on Form Submission, and Working with File Uploads. Working with Cookies and User Sessions: Introducing Cookies, Setting a Cookie with PHP. 15. Develop an PHP application to implement the following Operations i. Registration of Users. ii. Insert the details of the Users. iii. Modify the Details. iv. Transaction Maintenance. a) No of times Logged in b) Time Spent on each login. c) Restrict the user for three trials only. d) Delete the user if he spent more than 100 Hrs of transaction.	Student Seminar
9	AUGUST 2024 5th Week	4 2	1st MID EXAMINATIONS	
10	SEPTEMBER 2024 1st Week	4 2	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. 16. Write a PHP script to connect MySQL server from your website. 17. Write a program to read customer information like cust-no, cust-name, item-purchased, and mob-no, from customer table and display all these information in table format on output screen.	Group Discussion

Month/Week	Hrs	Topic	Method
SEPTEMBER 2024 2nd Week	4 2	Working with Files and Directories: Including Files with inclue(), Validating Files, Creating and Deleting Files, Opening a File for Writing, Reading or Appending, Reading from Files. 18. Write a program to edit name of customer to "Kiran" with cust-no =1, and to delete record with cust-no=3. 19. Write a program to read employee information like emp-no, emp-name, designation and salary from EMP table and display all this information using table format in your website.	Student Seminar
SEPTEMBER 2024 3rd Week	4 2	Writing or Appending to a File, Working with Directories, Open Pipes to and from Process Using popen(), Running Commands with exec(), Running Commands with system() or passthru(). 20. Create a dynamic web site using PHP and MySQL.	Student Seminar
SEPTEMBER 2024 4th Week	4 2	Working with Images: Understanding the Image-Creation Process, Necessary Modifications to PHP, Drawing a New Image. RECORD WORK	Student Seminar
October 2024 1st week	4 2	Getting Fancy with Pie Charts, Modifying Existing Images, Image mCreation from User Input. PROJECT WORK	Assignment

Department: COMPUTER SCIENCE   **Name of the Lecturer:** SOUJANYA BHUKYA   **Class:** 2nd B. Sc Honors Comp Science Major

-Sem Course 5: Object Oriented Programming using Java

Left table (continuation):

			Syllabus Topic	Additional Input (or) Value Addition	...	Co-Curricular Activity
15	October 2024 3d Week	4 / 2	Interacting with MySQL using PHP; MySQL Versus MySQLi Functions, connecting to MySQL with PHP, Working with MySQL Data. **PROJECT WORK.**			Webpage development competition among small groups of students.
16	October 2024 4th Week	4 / 2	Creating an Online Address Book: Planning and Creating Database Tables, Creating Menu, Creating Record Addition Mechanism, Viewing Records, Creating the Record Deletion Mechanism, Adding Sub-entities to a Record. **PROJECT WORK.**			
17	October 2024 5th Week	4 / 2	IInd MID EXAMINATIONS			

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Signature of the Lecturer

B. L.
Signature of the Dept-I/c

Signature of the Principal

Right table:

Month & Week	Hours available	Syllabus Topic (as per the university)	Additional Input (or) Value Addition.	Curricular Activity				Co-Curricular Activity				Remarks
				Activity	Hours allotted	Whether Conducted	If not Alternate date	Activity	Hours allotted	Whether conducted	If not Alternate date	
JULY 2024 1st Week	3 / 2	OOPs Concepts and Java Programming: Introduction to Object-Oriented concepts, procedural and Object-oriented programming paradigm. 1. Write a Java program to print Fibonacci series using for loop.										
JULY 2024 2nd Week	3 / 2	Java programming: An Overview of Java, Java Environment, Data types, Variables, constants, scope and life time of variables, operators, type conversion and casting. 2. Write a Java program to calculate multiplication of 2 matrices.										

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Page 12 (July–August 2024)

Week	No.	Topic / Program	Activity
JULY 2024 3rd Week	3	Accepting Input from the Keyboard, Reading Input with Java.util.Scanner Class, Displaying Output with System.out.println(). 3. Create a class Rectangle. The class has attributes length and width. It should have methods that calculate the perimeter and area of the rectangle. It should have read Attributes method to read length and width from user.	Quiz on Object-Oriented Programming Concepts and Java Constructs
	2	4. Write a Java program that implements method overloading.	
JULY 2024 4th Week	3	Displaying Formatted Output with String.format(), Control Statements. Arrays, Command Line Arguments, Strings-String Class Methods.	
	2	5. Write a Java program for sorting a given list of names in ascending order.	
AUGUST 2024 1st Week	3	Classes & Objects: Creating Classes, declaring objects, Methods, parameter passing, static fields and methods, Constructors, and 'this' keyword, overloading methods and access.	Student Seminar
	2	6. Write a Java program that displays the number of characters, lines and words in a text file.	
AUGUST 2024 2nd Week	3	Inheritance: Inheritance hierarchies, super and subclasses; member access rules, 'super' keyword, preventing inheritance; final classes and methods.	
	2	7. Write a Java program to implement various types of object class and its methods; i. Single ii. Multi-Level iii. Hierarchical iv. Hybrid inheritance	

Page 13 (August–September 2024)

Week	No.	Topic / Program	Activity
AUGUST 2024 3rd Week	3	Polymorphism: Dynamic binding, method overriding, abstract classes and methods;	Object-Oriented Programming Assignment. Class Implementation
	2	8. Write a java program to implement runtime polymorphism.	
AUGUST 2024 4th Week	3	Interface: Interfaces VS Abstract classes, defining an interface, implement interfaces, accessing implementations through interface references, extending interface;	
	2	9. Write a Java program which accepts withdraw amount from the user and throws an exception "In Sufficient Funds" when withdraw amount more than available amount.	
AUGUST 2024 5th Week	3	1st MID EXAMINATIONS	
	2		
SEPTEMBER 2024 1st Week	3	Packages: Defining, creating and accessing a package, understanding CLASSPATH, importingpackages.	Hands-on Lab Activity: Creating and Using Custom Java Packages
	2		
SEPTEMBER 2024 2nd Week	3	Exception Handling: Benefits of exception handling, the classification of exceptions, exception hierarchy, checked exceptions and unchecked exceptions,	
	2	10. Write a Java program to create three threads and that displays "good morning", for every one second, "hello" for every 2 seconds and "welcome" for every 3 seconds by using extending Thread class.	

12	SEPTEMBER 2024 3rd Week	3	Usage of try, catch, throw, throws and finally, rethrowing exceptions, exception specification, built in exceptions, creating own exception subclasses.							
		2	11. Write a Java program that creates three threads. First thread displays "OOPS", the second thread displays "Through" and the third thread Displays "JAVA" by using Runnable interface.							
13	SEPTEMBER 2024 4th Week	3	Multithreading: Differences between multiple processes and multiple threads, thread states, thread life cycle, creating threads, interrupting threads, thread priorities, synchronizing threads, inter thread communication.					Case Study Discussion on where multi-threading is crucial		
		2	12. Implement a Java program for handling mouse events when the mouse entered, exited, clicked, pressed, released, dragged and moved in the client area.							
14	October 2024 1st week	3	Stream based I/O (java.io) – The Stream classes-Byte streams and Character streams, Reading console Input and Writing Console Output, File class. Reading and writing Files, The Console class. Serialization					Student Seminar		
		2	13. Implement a Java program for handling key events when the key board is pressed, released, typed.							
15	October 2024 3d Week	3	GUI Programming with Swing- Introduction, MVC architecture, components, containers. Understanding Layout Managers - Flow Layout, Border Layout, Grid Layout, Card Layout, Grid Bag Layout.							
		2	14. Write a Java swing program that reads two numbers from two separate text fields and display sum of two numbers in third text field when button "add" is pressed.							

	October 2024 4th Week	3	Event Handling- The Delegation event model- Events, Event sources, Event Listeners, Event classes, Handling mouse and keyboard events, Adapter classes, Inner classes, Anonymous Inner classes.								GUI design contest using Java Swings
		2	15. Write a Java program to design student registration form using Swing Controls. The form which having the following fields and button SAVE Form Fields are: Name, RNO, Mailid, Gender, Branch, Address.								
	October 2024 5th Week	3	IInd MID EXAMINATIONS								
		2									

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SVR GOVERNMENT DEGREE COLLEGE, NIDADAVOLE
TABLE A- ANNUAL CURRICULAR PLAN –LECTURERWISE

rtment: **COMPUTER SCIENCE**

mester, Course 6: Data Structures using C

Name of the Lecturer: **SOUJANYA BHUKYA**

Class: **2nd B. Sc Honors Comp Science Major**

Month& Week	Hours available	Syllabus Topic (as per the university)	Additional Input (or) Value Addition	Curricular Activity				Co-Curricular Activity				Remarks
				Activity	Hours allotted	Whether Conducted	If not Alternate date	Activity	Hours allotted	Whether conducted	If not Alternate date	
JULY 2024 1st Week	3 2	**Basic Concepts:** Pointers and dynamic memory allocation, Algorithm-Definition and characteristics, Algorithm Analysis-Space Complexity, Time Complexity, Asymptotic Notation.										
JULY 2024 2nd Week		**Introduction to Data structures:** Definition, Types of Data structure, Abstract Data Types (ADT), Difference between Abstract Data Types, Data Types. and Data Structures.										
	3 2	1. Write a program to read 'N' numbers of elements into an array and also perform the following operation on an array a. Add an element at the beginning of an array b. Insert an element at given index of array c. Update an element using a values and index d. Delete an existing element										

JULY 2024 3rd Week	3	Arrays-Concept of Arrays, Single dimensional array, Two dimensional arrays, Operations on arrays with Algorithms (searching, traversing, inserting, deleting)					Activity: Algorithm analysis exercises				
	2	2. Write Program to implement Single Linked List with insertion, deletion and traversal operations									
JULY 2024 4th Week	3	Linked List: Concept of Linked Lists, Representation of linked lists in Memory, Comparison between Linked List and Array.									
	2	3. Write Program to implement Circular doubly Linked List with insertion, deletion and traversal operations									
AUGUST 2024 1st Week	3	Types of Linked Lists - Singly Linked list, Doubly Linked list, Circularly Singly Linked list, Circularly Doubly Linked list;					STUDENT SEMINAR				
	2	4. Write Programs to implement the Stack operations using an array									
AUGUST 2024 2nd Week	3	Implementation of Linked List ADT: Creating a List, Traversing a linked list, Searching linked list, Insertion and deletion into linked list (At first Node, Specified Position, Last node), Application of linked lists.					Presentations on real-life applications of linked lists				
	2	5. Write a program using stacks to convert a given infix expression to postfix									
AUGUST 2024 3rd Week	3	Stacks: Introduction to stack ADT, Representation of stacks with array and Linked List, Implementation of stacks, Application of stacks.									
	2	6. Write Programs to implement the Stack operations using Liked List.									

8	AUGUST 2024 4th Week	3	Polish Notations - Converting Infix to Post Fix Notation - Evaluation of Post Fix Notation - Tower of Hanoi. Recursion: Concept and Comparison between recursion and Iteration.					STUDENT SEMINAR				
		2	7. Write Programs to implement the Queue operations using an array.									
9	AUGUST 2024 5th Week	3	**Ist MID EXAMINATIONS**									
		2										
10	SEPTEMBER 2024 1st Week	3	Queues: Introduction to Queue ADT, Representation of Queues with array and Linked List, Implementation of Queues.					Role-playing activities for stack operations				
		2	8. Write Programs to implement the Queue operations using Linked List.									
11	SEPTEMBER 2024 2nd Week	3	Application of Queues Types of Queues- Circular Queues, De-queues, Priority Queue.									
		2	9. Write a program for Binary Search Tree Traversals									
12	SEPTEMBER 2024 3rd Week	3	Searching: Linear or Sequential Search, Binary Search and Indexed Sequential Search.									
		2	10. Write a program to search an item in a given list using the following Searching Algorithms a. Linear Search b. Binary Search.									

SEPTEMBER 2024 4th Week	3	Sorting: Selection Sort, Bubble Sort, Insertion Sort, Quick Sort and Merge Sort						Sorting algorithm analysis and comparison activities		
	2	11. Write a program for implementation of the following Sorting Algorithms a. Bubble Sort b. Insertion Sort c. Quick Sort								
October 2024 1st week	3	Binary Trees: Concept of Non- Linear Data Structures, Introduction Binary Trees, Types of Trees, Basic Definition of Binary Trees, Properties of Binary Trees.								
	2	RECORD WORK								
October 2024 3d Week	3	Representation of Binary Trees, Operations on a Binary Search Tree, Binary Tree Traversal, Applications of Binary Tree.								
	2	RECORD WORK								
October 2024 4th Week	3	Graphs: Introduction to Graphs, Terms Associated with Graphs, Sequential Representation of Graphs, Linked Representation of Graphs, Traversal of Graphs (DFS, BFS), and Application of Graphs.						Case Study on Applications of Graphs		
	2	RECORD WORK								
October 2024 5th Week	3	**IInd MID EXAMINATIONS**								
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SVR GOVERNMENT DEGREE COLLEGE, NIDADAVOLE
TABLE B- ANNUAL CURRICULAR PLAN -LECTURERWISE

rtment: COMPUTER SCIENCE **Name of the Lecturer: SOUJANYA BHUKYA** **Class: 3rd B. Sc (M.P.CS) V-Sem**

r: VI A - Web Interface Designing Technologies

Month& Week	Hours available	Syllabus Topic (as per the university)	Additional Input (or) Value Addition	Curricular Activity				Co-Curricular Activity		Remarks
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JULY 2024 1st Week	4 2 '	HTML: Introduction to web designing, difference between web applications and desktop applications, introduction to HTML. 1. Create an HTML document with the following formatting options: (a)Bold, (b) Italics, (c) Underline, (d) Headings (Using H1 to H6 heading styles), (e) Font (Type, Size and Color), (f) Background (Colored background/Image in background), (g) Paragraph, (h) Line Break, (i) Horizontal Rule, (j) Pre tag. 2. Create an HTML document which consists of: (a) Ordered List (b) Unordered List (c) Nested List (d) Image.						QUIZ		

2	**JULY 2024 2nd Week**	4	HTML structure, elements, attributes, headings, paragraphs, styles, colours, HTML formatting, Quotations, Comments, images. 3. Create a Table with four rows and five columns. Place an image in one column.						**Student Seminar**		
		2	4. Using "table" tag, align the images.								
3	**JULY 2024 3rd Week**	4	Tables, lists, blocks and classes, HTML CSS, HTML frames, file paths, layout, symbols, HTML responsive. 5. Create a menu form using html.						**Student Seminar**		
		2	6. Style the menu buttons using css.								
4	**JULY 2024 4th Week**	4	HTML forms: HTML form elements, input types, input attributes, HTML5, HTML graphics, HTML media – video, audio, plug INS, you tube. 7. Create a form using HTML which has the following types of controls: (a) Text Box (b) Option/radio buttons (c) Check boxes (d) Reset and Submit buttons.						**Student Seminar**		
		2	8. Embed a calendar object in your web page.								
5	**AUGUST 2024 1st Week**	4	HTML API'S: Geo location, Drag/drop, local storage, HTML SSE. CSS: CSS home, introduction, syntax, colours, back ground, borders, margins, padding. 9. Create an applet that accepts two numbers and perform all the arithmetic operations on them						**Assignment**		
		2	10. Create nested table to store your curriculum								
	AUGUST 2024 2nd Week	4	CSS: height/width, text, fonts, icons, tables, lists, position, over flow, float, CSS combinators, pseudo class, pseudo elements, opacity, tool tips, image gallery, CSS forms, CSS counters, CSS responsive.						**Student Seminar**		
		2	11. Create a form that accepts the information from the subscriber of a mailing system. 12. Design the page.								
	AUGUST 2024 3rd Week	4	Client side Validation: Introduction to JavaScript - What is DHTML, JavaScript, basics, variables, string manipulations, mathematical functions.						**Student Seminar**		
		2	13. Create a help file. 14. Create a webpage containing your bio data (assume the form and fields).								
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	AUGUST 2024 5th Week	4	1st MID EXAMINATIONS						**Student Seminar**		
		2									

10	SEPTEMBER 2024 1st Week	4	DHTML with JavaScript - Data validation, opening a new window, messages and confirmations, the status bar, different frames, rollover buttons, moving images.						Group Discussion	
		2	16. Write a html program to layers of information in web page.							
11	SEPTEMBER 2024 2nd Week	4	Word press: Introduction to word press, servers like wamp, bitnami e.tc, installing and configuring word press.						Student Seminar	
		2	17. Create a static webpage.							
12	SEPTEMBER 2024 3rd Week	4	Understanding admin panel, working with posts and pages, using editor, text formatting with shortcuts.						Student Seminar	
		2	1. Installation and configuration of word press. 2. Create a site and add a theme to it. 20 Create a child theme							
13	SEPTEMBER 2024 4th Week	4	Working with media-Adding, editing, deleting media elements, working with widgets, menus.						Student Seminar	
		2	3. Create five pages on COVID – 19 and link them to the home page. . 4. Create a simple post with featured image.							
14	October 2024 1st week	4	Working with themes-parent and child themes, using featured images, configuring settings.						Assignment	
		2	5. Add an external video link with size 640 X 360. 6. Create a user and assign a role to him.							

October 2024 3d Week	4	User and user roles and profiles, adding external links, extending word press with plug-ins.						Student Seminar	
	2	7. Create a login page to word press using custom links. 8. Create a website for your college.							
October 2024 4th Week	4	Customizing the site, changing the appearance of site using css , protecting word press website from hackers.							
	2	RECORD WORK							
October 2024 5th Week	4	IInd MID EXAMINATIONS							
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TABLE B. ANNUAL CURRICULAR PLAN -LECTURERWISE

ment: **COMPUTER SCIENCE**   Name of the Lecturer: **SOUJANYA BHUKYA**   Class: 3rd B. Sc (M.P.CS) V-Sem

\ II A - Web Applications Development using PHP& MYSQL

Month& Week	Hours available	Syllabus Topic (as per the university)	Additional Input (or) Value Addition	Curricular Activity				Co-Curricular Activity		Remarks
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JULY 2024 1st Week	4	The Building blocks of PHP: Variables, Data Types, Operators and Expressions, Constants. Flow Control Functions in PHP: Switching Flow, Loops.						QUIZ		
	2	1.Write a PHP program to Display "Hello" 2. Write a PHP Program to display the today's date.								
JULY 2024 2nd Week	4	Code Blocks and Browser Output. Working with Functions: What is function?, Calling functions, Defining Functions, Returning the values from User-Defined Functions.						Student Seminar		
	2	3. Write a PHP program to display Fibonacci series. 4. Write a PHP Program to read the employee details.								

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3	JULY 2024 3rd Week	4	Variable Scope, Saving state between Function calls with the static statement, more about arguments.				1	Student Seminar
		2	5. Write a PHP program to prepare the student marks list. 6. Write a PHP program to generate the multiplication of two matrices.					
4	JULY 2024 4th Week	4	Working with Arrays: What are Arrays? Creating Arrays, Some Array-Related Functions.					Student Seminar
		2	7. Create student registration form using text box, check box, radio button, select, submit button. And display user inserted value in new PHP page. 8. Create Website Registration Form using text box, check box, radio button, select, submit button. And display user inserted value in new PHP page.					
5	AUGUST 2024 1st Week	4	Working with Objects: Creating Objects, Object Instance Working with Strings, Dates and Time.					Assignment
		2	9. Write PHP script to demonstrate passing variables with cookies. 10. Write a program to keep track of how many times a visitor has loaded the page.					
6	AUGUST 2024 2nd Week	4	Formatting strings with PHP, Investigating Strings with PHP, Manipulating Strings with PHP, Using Date and Time Functions in PHP.					Student Seminar
		2	11. Write a PHP application to add new Rows in a Table. 12. Write a PHP application to modify the Rows in a Table.					

PTEMBER 2024 1st Week		4	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.					Group Discussion
		2	16. Write a PHP script to connect MySQL server from your website. 17. Write a program to read customer information like cust-no, cust-name, item-purchased, and mob-no, from customer table and display all these information in table format on output screen.					
PTEMBER 2024 2nd Week		4	Working with Files and Directories: Including Files with inclue(), Validating Files, Creating and Deleting Files, Opening a File for Writing, Reading or Appending, Reading from Files.					Student Seminar
		2	18. Write a program to edit name of customer to "Kiran" with cust-no =1, and to delete record with cust-no=3. 19. Write a program to read employee information like emp-no, emp-name, designation and salary from EMP table and display all this information using table format in your website.					
EPTEMBER 2024 3rd Week		4	Writing or Appending to a File, Working with Directories, Open Pipes to and from Process Using popen(), Running Commands with exec(), Running Commands with system() or passthru().					Student Seminar
		2	20. Create a dynamic web site using PHP and MySQL.					

7	AUGUST 2024 3rd Week	4	Working with Forms: Creating Forms, Accessing Form Input with User defined Arrays, Combining HTML and PHP code on a single Page, Using Hidden Fields to save state.							Expert lectures by IT experts working professionally in the area of web Content development
		2	13. Write a PHP application to delete the Rows from a Table. 14. Write a PHP application to fetch the Rows in a Table.							
8	AUGUST 2024 4th Week		Redirecting the user, Sending Mail on Form Submission, and Working with File Uploads. Working with Cookies and User Sessions: Introducing Cookies, Setting a Cookie with PHP. 15. Develop an PHP application to implement the following Operations i. Registration of Users. ii. Insert the details of the Users. iii. Modify the Details. iv. Transaction Maintenance. a) No of times Logged in b) Time Spent on each login. c) Restrict the user for three trials only. d) Delete the user if he spent more than 100 Hrs of transaction.							Student Seminar
9	AUGUST 2024 5th Week	4	Ist MID EXAMINATIONS							
		2								

SEPTEMBER 2024 4th Week	4	Working with Images: Understanding the Image-Creation Process, Necessary Modifications to PHP, Drawing a New Image.								Student Seminar
	2	RECORD WORK								
October 2024 1st week	4	Getting Fancy with Pie Charts, Modifying Existing Images, Image mCreation from User Input.								Assignment
	2	PROJECT WORK								
October 2024 3d Week	4	Interacting with MySQL using PHP: MySQL Versus MySQLi Functions, connecting to MySQL with PHP, Working with MySQL Data.								Webpage development competition among small groups of students.
	2	PROJECT WORK.								
October 2024 4th Week	4	Creating an Online Address Book: Planning and Creating Database Tables, Creating Menu, Creating Record Addition Mechanism, Viewing Records, Creating the Record Deletion Mechanism, Adding Sub-entities to a Record.								
	2	PROJECT WORK.								
October 2024 5th Week	4	IInd MID EXAMINATIONS								
	2									

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SVR GOVERNMENT DEGREE COLLEGE, NIDADAVOLE
TABLE B- ANNUAL CURRICULAR PLAN -LECTURERWISE

tment: **COMPUTER SCIENCE** Name of the Lecturer: **SOUJANYA BHUKYA** Class: **2nd B. Sc Honors Comp Science Major, III-Sem**

e 5: Object Oriented Programming using Java

Month& Week	Hours available	Syllabus Topic (as per the university)	Additional Input (or) Value Addition	Curricular Activity				Co-Curricular Activity		Remarks
				Activity	Hours allotted	Whether Conducted	If not Alternate date	Activity	Hours allotted	
JULY 2024 1st Week	3 2	OOPs Concepts and Java Programming: Introduction to Object-Oriented concepts, procedural and Object-oriented programming paradigm. 1. Write a Java program to print Fibonacci series using for loop.								
JULY 2024 2nd Week	3 2	Java programming: An Overview of Java, Java Environment, Data types, Variables, constants, scope and life time of variables, operators, type conversion and casting. 2. Write a Java program to calculate multiplication of 2 matrices.								

	Week	Hrs	Topic						Activity
3	JULY 2024 3rd Week	3 / 2	Accepting Input from the Keyboard, Reading Input with Java.util.Scanner Class, Displaying Output with System.out.printf(). 3. Create a class Rectangle. The class has attributes length and width. It should have methods that calculate the perimeter and area of the rectangle. It should have read Attributes method to read length and width from user. 4. Write a Java program that implements method overloading.						
4	JULY 2024 4th Week	3 / 2	Displaying Formatted Output with String.format(), Control Statements, Arrays, Command Line Arguments, Strings-String Class Methods. 5. Write a Java program for sorting a given list of names in ascending order.						Quiz on Object-Oriented Programming Concepts and Java Constructs
5	AUGUST 2024 1st Week	3 / 2	Classes & Objects: Creating Classes, declaring objects, Methods, parameter passing, static fields and methods, Constructors, and 'this' keyword, overloading methods and access. 6. Write a Java program that displays the number of characters, lines and words in a text file.						
6	AUGUST 2024 2nd Week	3 / 2	Inheritance: Inheritance hierarchies, super and subclasses, member access rules, 'super' keyword, preventing inheritance: final classes and methods, the object class and its methods; 7. Write a Java program to implement various types of inheritance i. Single ii. Multi-Level iii. Hierarchical iv. Hybrid						Student Seminar
	AUGUST 2024 3rd Week	3 / 2	Polymorphism: Dynamic binding, method overriding, abstract classes and methods; 8. Write a java program to implement runtime polymorphism.						Object-Oriented Programming Assignment: Class Implementation
	AUGUST 2024 4th Week	3 / 2	Interface: Interfaces VS Abstract classes, defining an interface, implement interfaces, accessing implementations through interface references, extending interface; 9. Write a Java program which accepts withdraw amount from the user and throws an exception "In Sufficient Funds" when withdraw amount more than available amount.						
	AUGUST 2024 5th Week	3 / 2	Ist MID EXAMINATIONS						
	SEPTEMBER 2024 1st Week	3 / 2	Packages: Defining, creating and accessing a package, understanding CLASSPATH, importing packages.						Hands-on Lab Activity: Creating and Using Custom Java Packages
	SEPTEMBER 2024 2nd Week	3 / 2	Exception Handling: Benefits of exception handling, the classification of exceptions, exception hierarchy, checked exceptions and unchecked exceptions. 10. Write a Java program to create three threads and that displays "good morning", for every one second, "hello" for every 2 seconds and "welcome" for every 3 seconds by using extending Thread class.						

			Topic							Remarks
12	SEPTEMBER 2024 3rd Week	3 / 2	Usage of try, catch, throw, throws and finally, rethrowing exceptions, exception specification, built in exceptions, creating own exception subclasses. 11. Write a Java program that creates three threads. First thread displays "OOPS", the second thread displays "Through" and the third thread Displays "JAVA" by using Runnable interface.							
13	SEPTEMBER 2024 4th Week	3 / 2	Multithreading: Differences between multiple processes and multiple threads, thread states, thread life cycle, creating threads, interrupting threads, thread priorities, synchronizing threads, inter thread communication. 12. Implement a Java program for handling mouse events when the mouse entered, exited, clicked, pressed, released, dragged and moved in the client area.							Case Study Discussion on where multi-threading is crucial
14	October 2024 1st week	3 / 2	Stream based I/O (java.io) – The Stream classes-Byte streams and Character streams, Reading console Input and Writing Console Output, File class, Reading and writing Files, The Console class, Serialization. 13. Implement a Java program for handling key events when the key board is pressed, released, typed.							Student Seminar
15	October 2024 3d Week	3 / 2	GUI Programming with Swing- Introduction, MVC architecture, components, containers. Understanding Layout Managers - Flow Layout, Border Layout, Grid Layout, Card Layout, Grid Bag Layout. 14. Write a Java swing program that reads two numbers from two separate text fields and display sum of two numbers in third text field when button "add" is pressed.							

			Topic							Remarks
	October 2024 4th Week	3 / 2	Event Handling- The Delegation event model- Events, Event sources, Event Listeners, Event classes, Handling mouse and keyboard events, Adapter classes, Inner classes, Anonymous Inner classes. 15. Write a Java program to design student registration form using Swing Controls. The form which having the following fields and button SAVE Form Fields are: Name, RNO, Mailid, Gender, Branch, Address.							GUI design contest using Java Swings
	October 2024 5th Week	3 / 2	IInd MID EXAMINATIONS							

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SVR GOVERNMENT DEGREE COLLEGE, NIDADAVOLE
TABLE B- ANNUAL CURRICULAR PLAN –LECTURERWISE

tment: **COMPUTER SCIENCE**   Name of the Lecturer: **SOUJANYA BHUKYA**   Class: **2nd B. Sc Honors Comp Science Major**

mester, Course 6: Data Structures using C

Month& Week	Hours available	Syllabus Topic (as per the university)	Additional Input (or) Value Addition	Curricular Activity				Co-Curricular Activity		Remarks
				Activity	Hours allotted	Whether Conducted	If not Alternate date	Activity	Hours allotted	
JULY 2024 1st Week	3 2	**Basic Concepts:** Pointers and dynamic memory allocation, Algorithm-Definition and characteristics, Algorithm Analysis-Space Complexity, Time Complexity, Asymptotic Notation								
JULY 2024 2nd Week	 3 2	**Introduction to Data structures:** Definition, Types of Data structure, Abstract Data Types (ADT), Difference between Abstract Data Types, Data Types, and Data Structures. 1. Write a program to read 'N' numbers of elements into an array and also perform the following operation on an array a. Add an element at the beginning of an array b. Insert an element at given index of array c. Update an element using a values and index d. Delete an existing element								

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No	Month/Week	Hrs	Topic							Activity		
3	JULY 2024 3rd Week	3	Arrays-Concept of Arrays, Single dimensional array, Two dimensional arrays, Operations on arrays with Algorithms (searching, traversing, inserting, deleting)							Activity: Algorithm analysis exercises		
		2	2. Write Program to implement Single Linked List with insertion, deletion and traversal operations									
4	JULY 2024 4th Week	3	Linked List: Concept of Linked Lists, Representation of linked lists in Memory. Comparison between Linked List and Array.									
		2	3. Write Program to implement Circular doubly Linked List with insertion, deletion and traversal operations									
5	AUGUST 2024 1st Week	3	Types of Linked Lists - Singly Linked list, Doubly Linked list, Circularly Singly Linked list, Circularly Doubly Linked list.							STUDENT SEMINAR		
		2	4. Write Programs to implement the Stack operations using an array									
6	AUGUST 2024 2nd Week	3	Implementation of Linked List ADT: Creating a List, Traversing a linked list, Searching linked list, Insertion and deletion into linked list (At first Node, Specified Position, Last node), Application of linked lists.							Presentations on real-life applications of linked lists		
		2	5. Write a program using stacks to convert a given infix expression to postfix									
7	AUGUST 2024 3rd Week	3	Stacks: Introduction to stack ADT, Representation of stacks with array and Linked List, Implementation of stacks, Application of stacks.									
		2	6. Write Programs to implement the Stack operations using Liked List.									

Month/Week	Hrs	Topic							Activity		
SEPTEMBER 2024 4th Week	3	Sorting: Selection Sort, Bubble Sort, Insertion Sort, Quick Sort and Merge Sort							Sorting algorithm analysis and comparison activities		
	2	11. Write a program for implementation of the following Sorting Algorithms a. Bubble Sort b. Insertion Sort c. Quick Sort									
October 2024 1st week	3	Binary Trees: Concept of Non- Linear Data Structures, Introduction Binary Trees, Types of Trees, Basic Definition of Binary Trees, Properties of Binary Trees,									
	2	RECORD WORK									
October 2024 3d Week	3	Representation of Binary Trees, Operations on a Binary Search Tree, Binary Tree Traversal, Applications of Binary Tree.									
	2	RECORD WORK									
October 2024 4th Week	3	Graphs: Introduction to Graphs, Terms Associated with Graphs, Sequential Representation of Graphs, Linked Representation of Graphs, Traversal of Graphs (DFS, BFS), and Application of Graphs.							Case Study on Applications of Graphs		
	2	RECORD WORK									
October 2024 5th Week	3	IInd MID EXAMINATIONS									
	2										

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8	AUGUST 2024 4th Week	3	Polish Notations - Converting Infix to Post Fix Notation - Evaluation of Post Fix Notation - Tower of Hanoi, Recursion. Concept and Comparison between recursion and iteration					STUDENT SEMINAR
		2	7 Write Programs to implement the Queue operations using an array					
9	AUGUST 2024 5th Week	3 2	1st MID EXAMINATIONS					
10	SEPTEMBER 2024 1st Week	3 2	Queues Introduction to Queue ADT. Representation of Queues with array and Linked List. Implementation of Queues.					Role-playing activities for stack operations
			8 Write Programs to implement the Queue operations using Liked List					
11	SEPTEMBER 2024 2nd Week	3 2	Application of Queues Types of Queues- Circular Queues, De-queues, Priority Queue. 9 Write a program for Binary Search Tree Traversals					
12	SEPTEMBER 2024 3rd Week	3 2	Searching Linear or Sequential Search, Binary Search and Indexed Sequential Search. 10 Write a program to search an item in a given list using the following Searching Algorithms a. Linear Search b. Binary Search.					

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Department: Computer Science Year: 2024-2025 Semester -III
Name of the Lecturer: M.vKalyani Class: II B.Sc Honours Computer Science Paper: -8- Operating System

Week	Hours available	Syllabus Topic (as per the university)	Additional Input (or) Value Addition	Curricular Activity				Co-Curricular Activity				
				Activity	Hours allotted	Whether Conducted	If not Alternate date	Activity	Hours allotted	Whether conducted	If not Alternate date	Remarks
2	3	4	5	6	7	8	9	10	11	12	13	14
JULY 2024 1st Week	03 02	What is Operating System? History and Evolution of OS, Basic OS functions, Resource Abstraction, 1.Illustrate the LINUX commands a) pwd b) mkdir c) rmdir d) grep			03 02							

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2	JULY 2024 2nd Week	03 02	Types of Operating Systems - Multiprogramming Systems, Batch Systems, Time Sharing Systems; 1. Illustrate the LINUX commands e) chmod f) ls g) rm h) cp		03 01		Assignment	1	
3	JULY 2024 3rd Week	03 02	Operating Systems for Personal Computers, Workstations and Hand-heldDevices. Process Control & Real time Systems 2. Write a program to calculate average waiting time and turnaround time of each process using the following CPU Scheduling algorithm for the given process schedules. a) FCFS b) SJF	ICT &Digital Class Room	03 01		Case Study on a specific operating System: highlighting its functions and key features	01	
4	JULY 2024 4th Week	03 02	Processor and User Modes, Kernels, System Calls and System Programs 2.Write a program to calculate average waiting time and turnaround time of each process Using the following CPU Scheduling algorithm for the given process schedules. c) Priority d) Round Robin		03 01		Quiz		

AUGUST 2024 1st Week	03 02	System View of theProcess and Resources, Process Abstraction. Process Hierarchy. Threads, Threading Issues. Thread Libraries 3. Simulate MVT and MFT memory management techniques		03 01		Student Seminar		
AUGUST 2024 2nd Week	03 02	Process Scheduling- Non-Preemptive and Preemptive Scheduling Algorithms. 4. Write a program for Bankers Algorithm for Dead Lock Avoidance		03 01		Comparison Poster on Scheduling Algorithms	01
AUGUST 2024 3rd Week	03 02	ProcessManagement: Deadlock,DeadlockCharacterization, Necessary and Sufficient Conditions for Deadlock, DeadlockHandling Approaches: Deadlock Prevention, 5.ImplementBankers Algorithm Dead Lock Prevention		03 02			
AUGUST 2024 4th Week	03 02	Deadlock Avoidance and Deadlock Detection and Recovery.Concurrent and Dependent Processes, Critical Section, Semaphores 6. Write a program to simulate Producer-Consumer problem		03 02			
AUGUST 2024 5th Week		Mid-I						

S.No	Month/Week	Hours	Topic	Hours			Activity	
10	SEPTEMBER 2024 1st Week	03	Methods for Inter process Communication Process Synchronization, Classical process Synchronization Problems: Producer-Consumer Reader-Writer.	03			Assignment on Dead Lock prevention technique	
		02	7.Simulate all Page replacement algorithms') FIFO f) LRU	01				
11	SEPTEMBER- 2024 2nd Week	03	Memory Management: Physical and Virtual Address Space; 7.Simulate all Page replacement algorithms. g) LFU	03			Student Seminar	
		02	h) Optimal	01				
12	SEPTEMBER 2024 3rd Week	03	Memory Allocation Strategies-Fixed and -Variable Partitions.	03			Assignment	
		02	8. Simulate Paging Techniques of memory management	01				
13	SEPTEMBER 2024 4th Week	03	Paging, Segmentation, Virtual Memory. 9. Simulate the following disk scheduling algorithms	03			Debate on various Memory allocation schemes	
		02	a) FCFS	01				

Month/Week	Hours	Topic	Hours			Activity	
October 2024 1st week	03	File and I/O Management, OS security: Directory Structure, File Operations, File Allocation Methods.	03			Student Seminar	
	02	9. Simulate the following disk scheduling algorithms b) SSTF	01				
October 2024 3rd Week	03	Device Management, Pipes, Buffer	03			Assignment	
	02	9. Simulate the following disk scheduling algorithms c) SCAN	01				
October 2024 4th Week	03	Shared Memory, Disk Scheduling algorithms	03			Comparative studyof various disk scheduling algorithms using real world datasets	01
	02	9. Simulate the following disk scheduling algorithms d) CSCAN	01				
October 2024 5th Week			Mid-II				

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Department: Computer Science

Name of the Lecturer: M. v Kalyani

Year: 2024-2025

Class: II B.Sc Honours Computer Science

Semester -III

Paper: -8-Operating System

Serial Number	Week	Hours available	Syllabus Topic (as per the university)	Additional Input (or) Value Addition	Curricular Activity				Co-Curricular Activity		Remarks
					Activity	Hours allotted	Whether Conducted	If not Alternate date	Activity	Hours allotted	
1	2	3	4	5	6	7	8	9	10	11	12
1	JULY 2024 1st Week	03 / 02	What is Operating System? History and Evolution of OS, Basic OS functions, Resource Abstraction, 1.Illustrate the LINUX commands a) pwd b) mkdir c) rmdir d) grep		ICT &Digital Class Room	03 / 01				01	

	Week		Topic	Teaching Method		Hrs			Activity	
2	JULY 2024 2nd Week	01	Operating Systems for Personal Computers, Workstations and Hand-held Devices, Process Control & Real time Systems	ICT &Digital Class Room		03			Assignment	
		02	2. Write a program to calculate average waiting time and turnaround time of each process using the following CPU Scheduling algorithm for the given process schedules. a) FCFS b) SJF				01			
3	JULY 2024 3rd Week	03	Processor and User Modes, Kernels, System Calls and System Programs	ICT &Digital Class Room		03			Case Study on a specific perating System: highlighting its functions and key features	01
		02	2. Write a program to calculate average waiting time and turnaround time of each process Using the following CPU Scheduling algorithm for the given process schedules. c) Priority d) Round Robin				01			
4	JULY 2024 4th Week	03	System View of the Process and Resources, Process Abstraction, Process Hierarchy, Threads, Threading Issues, Thread Libraries	ICT &Digital Class Room		03			Quiz	1
		02	3. Simulate MVT and MFT memory management techniques				01			
5	AUGUST 2024 1st Week	03	Process Scheduling- Non-Preemptive and Preemptive Scheduling Algorithms.	ICT &Digital Class Room		03			Student Seminar	01
		02	4. Write a program for Bankers Algorithm for Dead Lock Avoidance				01			
6	AUGUST 2024 2nd Week	03	**ProcessManagement:** Deadlock,DeadlockCharacterization, Necessary and Sufficient Conditions for Deadlock, DeadlockHandling Approaches: Deadlock Prevention,	ICT &Digital Class Room		03			Comparison Poster on Scheduling Algorithms	01
		02	5.ImplementBankers Algorithm Dead Lock Prevention.				01			

No	Month / Week	Units	Topic	Teaching Aid	Units	Activity	Units
7	AUGUST 2024 3rd Week	03 / 02	Deadlock Avoidance and Deadlock Detection and Recovery.Concurrent and Dependent Processes, Critical Section, Semaphores 6. Write a program to simulate Producer-Consumer problem	ICT &Digital Class Room	03 / 02		
8	AUGUST 2024 4th Week	03 / 02	Deadlock Avoidance and Deadlock Detection and Recovery.Concurrent and Dependent Processes, Critical Section, Semaphores 6. Write a program to simulate Producer-Consumer problem				
9	AUGUST 2024 5th Week		MID-I				
10	SEPTEMBER 2024 1st Week	03 / 02	Methods for Inter process Communication Process Synchronization, Classical process Synchronization Problems: Producer-Consumer Reader-Writer. 7. Simulate all Page replacement algorithms.e) FIFOf) LRU	ICT &Digital Class Room	03 / 01	Assignment on Dead Lock prevention technique	
11	SEPTEMBER - 2024 2nd Week	03 / 02	Memory Management: Physical and Virtual Address Space; 7. Simulate all Page replacement algorithms g) LFU h) Optimal	ICT &Digital Class Room	03 / 01	Student Seminar	01
12	SEPTEMBER 2024 3rd Week	03 / 02	Memory Allocation Strategies- Fixed and -Variable Partitions, 8. Simulate Paging Techniques of memory management	ICT &Digital Class Room	03 / 01	Assignment	01
13	SEPTEMBER 2024 4th Week	03 / 02	Paging, Segmentation, Virtual Memory. 9. Simulate the following disk scheduling algorithms a) FCFS	ICT &Digital Class Room	03 / 01	Debate on various Memory allocation schemes	
14	October 2024 1st week	03 / 02	File and I/O Management, OS security: Directory Structure, File Operations, File Allocation Methods. 9. Simulate the following disk scheduling algorithms b) SSTF	ICT &Digital Class Room	03 / 01	Student Seminar	

Left Table (continuation)

	Week		Syllabus Topic		ICT &Digital Class Room				Activity	
15	October 2024 3rd Week	03	Device Management, Pipes, Buffer 9. Simulate the following disk scheduling algorithms c) SCAN	02	ICT &Digital Class Room	03 01			Assignment	01
16	October 2024 4th Week	03 02	Shared Memory, Disk Scheduling algorithms 9. Simulate the following disk scheduling algorithms d) CSCAN		ICT &Digital Class Room	03 01			Comparative study of various diskscheduling algorithms using real world datasets	01
17	October 2024 5th Week		Mid-II							

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Right Page

Department: Computer Science   Year: 2024-2025   Semester -III

Name of the Lecturer: M.V Kalyani   Class: II B.Sc Honours Computer Science   Paper: -7-Computer Organization

Serial number	Week	Hours available	Syllabus Topic (as per the university)	Additional Input (or) Value Addition	Curricular Activity				Co-Curricular Activity				Remarks
					Activity	Hours allotted	Whether Conducted	If not Alternate date	Activity	Hours allotted	Whether conducted	If not Alternate date	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	JULY 2024 1st Week	03 02	.Register Transfer Language and Micro Operations: Introduction-unctional units, computer registers, register transfer language, register transfer, bus and memory transfers 1. Implement a C program to convert a Hexadecimal, octal, and binary number to decimal number vice versa.Open-source assembler.			03 01				01			

SVR GOVERNMENT DEGREE COLLEGE , NIDADAVOLE
TABLE-A -CURRICULAR PLAN - LECTURER WISE

Department: Computer Science
Name of the Lecturer:
Year: 2024-2025
Class: II B.Sc Honours Computer Science
Semester -III
Paper -7-Computer Organization

Serial Number	Week	Hours available	Syllabus Topic (as per the university)	Additional Input (or) Value Addition	Curricular Activity				Co-Curricular Activity			
					Activity	Hours allotted	Whether Conducted	If not Alternate date	Activity	Hours allotted	Whether conducted	If not Alternate date
1	2	3	4	5	6	7	8	9	10	11	12	13
1	JULY 2024 1st Week	03 / 02	.Register Transfer Language and Micro Operations: Introduction-unctional units, computer registers, register transfer language, register transfer, bus and memory transfers 1. Implement a C program to convert a Hexadecimal, octal, and binary number to decimal number vice versa.Open-source assembler.			03 / 01				01		
2	JULY 2024 2nd Week	03 / 02	arithmetic, logic and shift micro-operations, arithmetic logic shift unit. Basic Computer Organization and Design: Instruction codes, instruction cycle. 2. Implement a C program to perform Binary Addition & Subtraction.			03 / 01			Student Seminar	1		
3	JULY 2024 3rd Week	03 / 02	Register reference instructions, Memory - reference instructions, input - output and interrupt. 3. Implement a C program to perform Multiplication of two binary numbers.	ICT &Digital Class Room		03 / 01			Quiz competition on micro-operations	01		
4	JULY 2024 4th Week	03 / 02	CPU and Micro Programmed Control: Central Processing unit: Introduction, instruction formats, addressing modes. Control memory. 4. Implement arithmetic micro-operations using logic gates.						Assignment-1			

No	Month/Week		Topic / Content		Method	Activity	
2	JULY 2024 2nd Week	03 / 02	arithmetic, logic, and shift micro-operations, arithmetic logic shift unit. **Basic Computer Organization and Design:** Instruction codes, instruction cycle. 2. Implement a C program to perform Binary Addition & Subtraction.	03 / 01		Student Seminar	1
3	JULY 2024 3rd Week	03 / 02	Register reference instructions, Memory reference instructions, input - output and interrupt. 3. Implement a C program to perform Multiplication of two binary numbers.	03 / 01	ICT &Digital Class Room	Quiz competition on micro-operations	01
4	JULY 2024 4th Week	03 / 02	**CPU and Micro Programmed Control:** Central Processing unit: Introduction, instruction formats, addressing modes. Control memory. 4. Implement arithmetic micro-operations using logic gates.			Assignment-1	
5	AUGUST 2024 1st Week	03 / 02	address sequencing, design of control unit - hard wired control, micro Programmed control.5. Implement logic and shift micro-operations using logic gates.			Instruction Format Puzzle: Solving a puzzle to decode and understand instruction formats	
6	AUGUST 2024 2nd Week	03 / 02	**Memory Organization:** Memory hierarchy, 6. Implement a C program to perform Multiplication of two binary numbers (signed) using Booth's Algorithms.	03 / 02		Student Seminar	
7	AUGUST 2024 3rd Week	03 / 02	main memory, auxiliary memory, 7. Implement a C program to perform division of two binary numbers (Unsigned) usingrestoring division algorithm.			Memory Hierarchy Poster: Creating informative posters or info graphics on memory Hierarchy	

#	Week	Hrs	Topic								Activity		
8	AUGUST 2024 4th Week	03 / 02	associative memory, Cache Memory and mappings. 8. Implement a C program to perform division of two binary numbers (Unsigned) using no restoring division algorithm.										
9	AUGUST 2024 5th Week		Mid-I										
10	SEPTEMBER 2024 1st Week	03 / 02	**Input-Output Organization:** Peripheral Devices, input-output interface. 9. Write assembly language code for A+B*(C-D) using various instruction formats in MASM or any open-source assembler.										
11	SEPTEMBER- 2024 2nd Week	03 / 02	asynchronous data transfermodes of transfer- programmed I/O 10. Write assembly language code for A+B*C using various addressing modes in MASM or any					Student Seminar					
12	SEPTEMBER 2024 3rd Week	03 / 02	priority interrupt, direct memory access, Input - Output Processor (IOP).								Group Discussion I/O Troubleshooting Challenge		
13	SEPTEMBER 2024 4th Week	03 / 02	**Computer Arithmetic and Parallel Processing:** Data representation- fixed point, floating point										
14	October 2024 1st week	03 / 02	Addition and subtraction Multiplication and division algorithms. Parallel Processing								Debate		
15	October 2024 3rd Week	03 / 02	Parallel Processing, Pipelining, Arithmetic Pipeline, Instruction Pipeline Record writing								Case Study on Parallel processing architecture		
16	October 2024 4th Week	03 / 02	Revision					03 / 01			Student Seminar	01	
17	October 2024 5th Week		Mid-II										

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SVR GOVERNMENT DEGREE COLLEGE , NIDADAVOLE
TABLE-B -CURRICULAR PLAN - LECTURER WISE

ment: **Computer Science**

of the Lecturer: **M. V Kalyani**

Year: 2024-2025
Class: II B.Sc Honours Computer Science

Semester -III
Paper: -7-Computer Organization

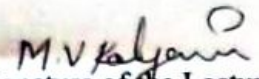| Serial Number	Week	Hours available	Syllabus Topic (as per the university)	Additional Input (or) Value Addition	Curricular Activity				Co-Curricular Activity		Remarks
					Activity	Hours allotted	Whether Conducted	If not Alternate date	Activity	Hours allotted	
1	2	3	4	5	6	7	8	9	10	11	12
1	JULY 2024 1st Week	03 02	.Register Transfer Language and Micro Operations: Introduction- Functional units, computer registers, register transfer language, register transfer, bus and memory transfers 1. Implement a C program to convert a Hexadecimal, octal, and binary number to decimal number vice versa. Open-source assembler.		ICT &Digital Class Room	03 01				01	

4	**JULY 2024 4th Week**	03 02	**CPU and Micro Programmed Control:** Central Processing unit: Introduction, instruction formats, addressing modes. Control memory. 4. Implement arithmetic micro-operations using logic gates		ICT &Digital Class Room	03 01			Assignment-1	1
5	**AUGUST 2024 1st Week**	03 02	address sequencing, design of control unit - hard wired control, micro Programmed control.5. Implement logic and shift micro-operations using logic gates.		ICT &Digital Class Room	03 01			Instruction Format Puzzle: Solving a puzzle to decode and understand instruction formats	01
6	**AUGUST 2024 2nd Week**	03 02	**Memory Organization:** Memory hierarchy, 6. Implement a C program to perform Multiplication of two binary numbers (signed) using Booth's Algorithms.		ICT &Digital Class Room	03 01			Student Seminar	01
7	**AUGUST 2024 3rd Week**	03 02	main memory, auxiliary memory, 7. Implement a C program to perform division of two binary numbers (Unsigned) using restoring division algorithm.		ICT &Digital Class Room	03 02			Assignment-2	

		03	associative memory, Cache Memory and mappings. 8. Implement a C program to perform division of two binary numbers (Unsigned) using no restoring					Memory Hierarchy Poster: Creating informative posters or info graphics on memory Hierarchy.		
8	AUGUST 2024 4th Week	02	division algorithm.							
9	AUGUST 2024 5th Week		Mid-II							
10	SEPTEMBER 2024 1st Week	03	**Input-Output Organization:** Peripheral Devices, input-output interface, 9. Write assembly language code for A+B*(C-D) using various instruction formats in MASM or any open-source	ICT &Digital Class Room	03					
		02	assembler.		01					
11	SEPTEMBER -2024 2nd Week	03	asynchronous data transfer modes of transfer- programmed I/O,		03		Student Seminar			
		02	10. Write assembly language code for A+B*C using various addressing modes in MASM or any	ICT &Digital Class Room	01					

12	SEPTEMBER 2024 3rd Week	03 02	priority interrupt, direct memory access, Input - Output Processor (IOP).		ICT &Digital Class Room	03 01			Group Discussion I/O Troubleshootin g Challenge	01
13	SEPTEMBER 2024 4th Week	03 02	**Computer Arithmetic and Parallel Processing:** Data representation- fixed point, floating point, .		ICT &Digital Class Room	03 01				
14	October 2024 1st week	03 02	Addition and subtraction Multiplication and division algorithms. Parallel Processing		ICT &Digital Class Room	03 01			Debate	
15	October 2024 3rd Week	03 02	Parallel Processing, Pipelining,Arithmetic Pipeline,Instruction Pipeline Record writing		ICT &Digital Class Room	03 01			Case Study on Parallel processing architecture	

			ICT &Digital Class Room			Student Seminar		
16	October 2024 4th Week	Revision						
17	October 2024 5th Week	Mid-II						

M.V.Kalyani
Signature of the Lecturer

B.
Signature of the Dept. I/c

Signature of the Principal