

SVR GOVERNMENT DEGREE COLLEGE, NIDADAYOLE
TABLE A: LECTURER WISE ANNUAL CURRICULAR PLAN

Department: **COMPUTER SCIENCE**
 Semester Course: **3: Problem Solving using C**

Name of the Lecturer: **SOUJANYA BHUKYA**

Class: **I B.Sc., Honours in Computer 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	
FEB 2024 1st WEEK	3	Introduction, Basic block diagram and functions of various components of computer, Concepts of Hardware and software, Types of software, Compiler and interpreter. 1. A. Write a program to calculate simple & compound interest B. Write a C program to interchange two numbers.		Teaching Practical	03 02			1				
FEB 2024 2nd WEEK	3 2	Concepts of Machine level, Assembly level and high-level programming, Flowcharts and Algorithms. Fundamentals of C: History of C, Features of C, C Tokens-variables and keywords and identifiers. 2. Find the biggest of three numbers using C.		Teaching Practical	03 02			1				

3	FEB 2024 3 rd WEEK	3	constants and Data types, Rules for constructing variable names, Operators, Structure of C program, Input /output statements in C-Formatted and Unformatted I/O.	2	3. Write a c program to find the sum of individual digits of a positive integer.	Teaching	03	01	Quiz on computer hardware and software concepts	01			
4	FEB 2024 4 th WEEK	3	Decision making statements: if, if else, else if ladder, switch statements.	2	4. A Fibonacci sequence is defined as follows: the first and second terms in the sequence are 0 and 1. Subsequent terms are found by adding the preceding two terms in the sequence.	Teaching	03	02	Student Seminar	01			
5	MARCH 2024 1 st WEEK	3	Loop control statements: while loop, for loop and do-while loop.	2	5. Write a c program to check whether a number is Armstrong or not.	Teaching	03	02	—				
6	MARCH 2024 2 nd WEEK	3	Jump Control statements: break, continue and goto.	2	6. Write a c program to generate all the prime numbers between 1 and n, where n is a value supplied by the user	Teaching	03	01	Assignment: Problem-solving using Decision-Making Statements	01			
7	MARCH 2024 3 rd WEEK	3	Derived data types in C: Arrays: One Dimensional arrays - Declaration, Initialization and Memory representation;	2	7. Write a c program that implements searching of given item in given list	Teaching	03	02	—				

MARCH 2024	4 th WEEK	3
APRIL 2024	1 st WEEK	
APRIL 2024	2 nd WEEK	
APRIL 2024	3 rd WEEK	
APRIL 2024	4 th WEEK	
MAY 2024	1 st WEEK	

MARCH 2024	3	Two Dimensional arrays -Declaration, Initialization and Memory representation.	Teaching	03			Student Seminar	01			
4 th WEEK	2	8. Write a c program that uses functions to perform the following: 1. Addition of two matrices. 2. Multiplication of two matrices.	Practical	01							
APRIL 2024	3	1st MID EXAMINATIONS									
1 st WEEK	2										
APRIL 2024	3		Teaching	03							
2 nd WEEK	2		Practical	01			Activity: Array and String Program Debugging	01			
APRIL 2024	3	9. Write a program for concatenation of two strings. Functions: Function Prototype, definition and calling. Return statement. Nesting of functions: Categories of functions.	Teaching	03							
3 rd WEEK	2	10. Write a program for length of a string with and without String Handling functions	Practical	02			—				
APRIL 2024	3	Recursion, Parameter Passing by address & by value. Local and Global variables. Storage classes: automatic, external, static and register.	Teaching	03							
4 th WEEK	2	11. Write a program to demonstrate Call by Value and Call by Reference mechanism.	Practical	01			Activity: Pair Programming Exercise on Functions	01			
MAY 2024	3	Pointers: Pointer data type, Pointer declaration, initialization, accessing values using pointers. Pointer arithmetic. Pointers and arrays, pointers and functions.	Teaching	03							
1 st WEEK	2	12. Write a Program to find GCD of Two numbers using Recursion.	Practical	01			Group Discussion	01			

14	MAY 2024 2 nd WEEK	3	Dynamic Memory Management: Introduction, Functions-malloc, calloc, realloc, free.	Teaching Practical	03 02					
15	MAY 2024 3 rd WEEK	3 2	13. Write a c program to perform various operations using pointers. Structures: Basics of structure, structure members, accessing structure members, nested structures, array of structures, structure and functions, structures and pointers. 14. Write a c program to read data of 10 employees with a structure of 1, employee id 2. Aadhar no, 3. title, 4. joined date, 5. salary, 6. date of birth, 7. gender, 8. department.	Teaching Practical	03 01			Student Seminar	01	
16	MAY 2024 4 th WEEK	3 2	Unions - Union definition; difference between Structures and Unions. 15. Write a Program to demonstrate dynamic arrays using Dynamic Memory Management functions.	Teaching Practical	03 01			Structured Programming Assignment	01	
17	MAY 2024 5 th WEEK	3 2	IInd MID EXAMINATIONS							

Signature of the Lecturer

Signature of the Dept. J/c
Department of Computer Science
S.V.R. Government Degree College
Nidadavolu, E.C. District.

Signature of the Principal

Department: C
Semester: Cou

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

Department: **COMPUTER SCIENCE**
 Semester Course 3: Problem Solving using C

Name of the Lecturer: **SOUJANYA BHUKYA**

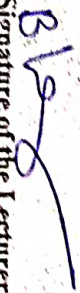
Class: **I B.Sc., Honor's in Computer Science MAJOR**

Month & Week	Hours available	Syllabus Topic (as per the university)	Additional Input (or) Value Addition	Curricular Activity				Co-Curricular Activity	Hours allotted	Remarks
				Activity	Hours allotted	Whether Conducted	If not Alternate date			
FEB 2024 1 st WEEK	3	Introduction, Basic block diagram and functions of various components of computer, Concepts of Hardware and software, Types of software, Compiler and interpreter. 1. A. Write a program to calculate simple & compound interest B. Write a C program to interchange two numbers.		Teaching Practical	03 02					
FEB 2024 2 nd WEEK	3 2	Concepts of Machine level, Assembly level and high-level programming, Flowcharts and Algorithms. Fundamentals of C: History of C, Features of C, C Tokens-variables and keywords and identifiers. 2. Find the biggest of three numbers using C.		Teaching Practical	03 02					

3	FEB 2024 3 rd WEEK	2	constants and Data types, Rules for constructing variable names, Operators, Structure of C program, Input /output statements in C-Formatted and Unformatted I/O. 3. Write a c program to find the sum of individual digits of a positive integer.	Teaching Practical	03 01			Quiz on computer hardware and software concepts	01	
4	FEB 2024 4 th WEEK	3 2	Decision making statements: if, if else, else if ladder, switch statements. 4. A Fibonacci sequence is defined as follows: the first and second terms in the sequence are 0 and 1. Subsequent terms are found by adding the preceding two terms in the sequence.	Teaching Practical	03 02			Student Seminar	01	
5	MARCH 2024 1 st WEEK	3 2	Loop control statements: while loop, for loop and do-while loop. 5. Write a c program to check whether a number is Armstrong or not.	Teaching Practical	03 02			—		
6	MARCH 2024 2 nd WEEK	3 2	Jump Control statements: break, continue and goto. 6. Write a c program to generate all the prime numbers between 1 and n, where n is a value supplied by the user	Teaching Practical	03 01			Assignment: Problem-solving using Decision-Making Statements	01	
7	MARCH 2024 3 rd WEEK	3 2	Derived data types in C: Arrays: One Dimensional arrays - Declaration, Initialization and Memory representation. 7. Write a c program that implements searching of given item in given list	Teaching Practical	03 02			—		

MARCH 2024	3	Two Dimensional arrays -Declaration, Initialization and Memory representation.	Teaching	03					
4 th WEEK	2	8. Write a c program that uses functions to perform the following: 1. Addition of two matrices. 2. Multiplication of two matrices.	Practical	01			Student Seminar	01	
APRIL 2024	3	Ist MID EXAMINATIONS							
1 st WEEK	2								
APRIL 2024	3		Teaching	03					
2 nd WEEK	2		Practical	01			Activity: Array and String Program Debugging	01	
APRIL 2024	3	Functions: Function Prototype, definition and calling. Return statement. Nesting of functions. Categories of functions.	Teaching	03					
3 rd WEEK	2	10. Write a program for length of a string with and without String Handling functions	Practical	02					
APRIL 2024	3	Recursion, Parameter Passing by address & by value. Local and Global variables. Storage classes: automatic, external, static and register.	Teaching	03					
4 th WEEK	2	11. Write a program to demonstrate Call by Value and Call by Reference mechanism.	Practical	01			Activity: Pair Programming Exercise on Functions	01	
MAY 2024	3	Pointers: Pointer data type, Pointer declaration, initialization, accessing values using pointers. Pointer arithmetic. Pointers and arrays, pointers and functions.	Teaching	03					
1 st WEEK	2	12. Write a Program to find GCD of Two numbers using Recursion.	Practical	01			Group Discussion	01	

14	MAY 2024 2 nd WEEK	3	Dynamic Memory Management: Introduction, Functions-malloc, calloc, realloc, free.		Teaching Practical	03 02						
15	MAY 2024 3 rd WEEK	3	Structures: Basics of structure, structure members, accessing structure members, nested structures, array of structures, structure and functions, structures and pointers. 13. Write a c program to perform various operations using pointers.		Teaching Practical	03 01				Student Seminar	01	
16	MAY 2024 4 th WEEK	3	Unions - Union definition; difference between Structures and Unions. 14. Write a c program to read data of 10 employees with a structure of 1. employee id 2. Aadhar no, 3. title, 4. joined date, 5. salary, 6. date of birth, 7. gender, 8. department.		Teaching	03						
		2	15. Write a Program to demonstrate dynamic arrays using Dynamic Memory Management functions.		Practical	01				Structured Programming Assignment	01	
17	MAY 2024 5 th WEEK	3	IInd MID EXAMINATIONS									


Signature of the Lecturer


Signature of the Dept. I/c
Department Incharge
Department of Computer Science
S.V.R. Government Degree College
Maddur, E.G.District.


Signature of the Principal

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

Department: **COMPUTER SCIENCE**
 Semester Course 4: **Digital Logic Design**

Name of the Lecturer: **SOUJANYA BHUKYA**

Class: **I B.Sc., Honours in Computer 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	
FEB 2024 1 st WEEK	3	Number Systems: Binary, octal, decimal, hexadecimal number systems.		Teaching	03			1				
	2	1. Introduction to digital electronics lab-nomenclature of digital ICs, specifications, study of the data sheet, concept of Vcc and ground, verification of the truth tables of logic gates using TTL ICs.		Practical	02							
FEB 2024 2 nd WEEK	3	conversion of numbers from one radix to another radix, r's, (r-1)'s complements, signed binary numbers.		Teaching	03			1				
	2	2. Implementation of the given Boolean functions using logic gates in both SOP and POS forms		Practical	02							

APRIL 2024	3			Practical	01							
1 st WEEK	2	1 st MID EXAMINATIONS										
APRIL 2024	3			Teaching	03							
2 nd WEEK	2	ripple adders and subtractors, ripple adder / subtractor.		Practical	01				Activity: Hands-on Lab Activity: Building Adder and Subtractor Circuits.	01		
APRIL 2024	3	Design of decoders, encoders, priority encoder.		Teaching	03							
3 rd WEEK	2	10. Implementation of 8X1 MUX using suitable lower order MUX.		Practical	01				—	01		
APRIL 2024	3	multiplexers, demultiplexers, higher order decoders, demultiplexers and multiplexers.		Teaching	03							
4 th WEEK	2	11. Implementation of 7-segment decoder circuit.		Practical	01				—			
MAY 2024	3	realization of Boolean functions using decoders, multiplexers.		Teaching	03				Activity: Group Discussion: Applications of Decoders, Encoders, Multiplexers	01		
1 st WEEK	2	12. Implementation of 4-bit parallel adder.		Practical	01							
MAY 2024	3	Classification of sequential circuits, latch and flip-flop, RS-latch using NAND and NOR Gates, truth tables, RS, JK, T and D flip-flops.		Teaching	03							
2 nd WEEK	2	13. Design and verification of 4-bit synchronous counter.		Practical	01				—	01		

15	MAY 2024 3 rd WEEK	3	truth and excitation tables, conversion of flip-flops, flip-flops with asynchronous inputs (preset and clear), 14. Design and verification of 4-bit asynchronous counter.	Teaching Practical	03 02				Student Seminar	01		
16	MAY 2024 4 th WEEK	3 2	Design of registers, shift registers, bidirectional shift registers, universal shift register, design of ripple counters, synchronous counters and variable modulus counters. RECORD WORK	Teaching Practical	03 02				Quiz on Flip-Flops and Register-Counter Design	01		
17	MAY 2024 5 th WEEK	3 2	IIInd MID EXAMINATIONS									

B. V. S.
Signature of the Lecturer

B. V. S.
Signature of the Dept. I/c
Department of Computer Science
S.V.R. Government Engineering College

B. V. S.
Signature of the Principal

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

Department: COMPUTER SCIENCE
Course: Digital Logic Design

Name of the Lecturer: SOUJANYA BHUKYA

Class: I B.Sc., Honor's in Computer 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	
FEB 2024 1 st WEEK	3	Number Systems: Binary, octal, decimal, hexadecimal number systems.		Teaching	03			—		
	2	1. Introduction to digital electronics lab-nomenclature of digital ICs, specifications, study of the data sheet, concept of Vcc and ground, verification of the truth tables of logic gates using TTL ICs.		Practical	02					
FEB 2024 2 nd WEEK	3	conversion of numbers from one radix to another radix, r's, (r-1)'s complements, signed binary numbers.		Teaching	03			—		
	2	2. Implementation of the given Boolean functions using logic gates in both SOP and POS forms		Practical	02					

3	FEB 2024 3 rd WEEK	3	2	addition and subtraction of unsigned and signed numbers, weighted and unweighted codes.		Teaching	03			Activity: JAM (Just a Minute) Session; Explaining Radix Conversion.	01	
4	FEB 2024 4 th WEEK	3	2	3. Realization of basic gates using universal gates. NOT, AND, OR, universal gates, X-OR and X-NOR gates, Boolean laws and theorems, complement and dual of a logic function. 4. Design and implementation of half and full adder circuits using logic gates.		Teaching	03			Student Seminar	01	
5	MARCH 2024 1 st WEEK	3	2	canonical and standard forms, two level realization of logic functions using universal gates. 5. Design and implementation of half and full subtractor circuits using logic gates.		Teaching	03			—		
6	MARCH 2024 2 nd WEEK	3	2	minimizations of logic functions (POS and SOP) using Boolean theorems, K-map (up to four variables), don't care conditions. 6. Verification of stable tables of RS, JK, T and D flip-flops using NAND gates.		Teaching	03			Boolean Algebra Assignment	01	
7	MARCH 2024 3 rd WEEK	3	2	Design of half adder, full adder. 7. Verification of stable tables of RS, JK, T and D flip-flops using NOR gates.		Teaching	03			—		
8	MARCH 2024 4 th WEEK	3	2	half subtractor, full subtractor. 8. Implementation and verification of Decoder and encoder using logic gates.		Teaching	03			Student Seminar	01	

APRIL 2024 1 st WEEK	3	2	1st 10
APRIL 2024 2 nd WEEK	3	2	9. Implementation of logic gates, adders and subtractors.
APRIL 2024 3 rd WEEK	3	2	10. Implementation of logic gates, adders and subtractors.
APRIL 2024 4 th WEEK	3	2	11. Implementation of logic gates, adders and subtractors.
MAY 2024 1 st WEEK	3	2	12. Implementation of logic gates, adders and subtractors.
MAY 2024 2 nd WEEK	3	2	13. Design and implementation of logic gates, adders and subtractors.

APRIL 2024	3	1st MID EXAMINATIONS							
1 st WEEK	2								
APRIL 2024	3		ripple adders and subtractors, ripple adder / subtractor.	Teaching	03			Activity: Hands-on Lab Activity: Building Adder and Subtractor Circuits.	01
2 nd WEEK	2		9. Implementation of 4X1 MUX and DeMUX using logic gates.	Practical	01				
APRIL 2024	3	Design of decoders, encoders, priority encoder.	Teaching	03					
3 rd WEEK	2	10. Implementation of 8X1 MUX using suitable lower order MUX.	Practical	01					01
APRIL 2024	3	multiplexers, demultiplexers, higher order decoders, demultiplexers and multiplexers.	Teaching	03					
4 th WEEK	2	11. Implementation of 7-segment decoder circuit.	Practical	02					
MAY 2024	3	realization of Boolean functions using decoders, multiplexers.	Teaching	03			Activity: Group Discussion: Applications of Decoders, Encoders, Multiplexers		
1 st WEEK	2	12. Implementation of 4-bit parallel adder.	Practical	01				01	
MAY 2024	3	Classification of sequential circuits; latch and flip-flop, RS-latch using NAND and NOR Gates, truth tables, RS, JK, T and D flip-flops.	Teaching	03					
2 nd WEEK	2	13. Design and verification of 4-bit synchronous counter.	Practical	01				01	

15	MAY 2024	3	truth and excitation tables, conversion of flip-flops, flip-flops with asynchronous inputs (preset and clear).	Teaching	02				Student Seminar	01	
		2	14. Design and verification of 4-bit asynchronous counter.								
16	MAY 2024	3	Design of registers, shift registers, bidirectional shift registers, universal shift register, design of ripple counter, synchronous counters and variable modulus counter.	Practical	02				Quiz on Flip-Flops and Register-Counter Design	01	
		2	RECORD WORK	Teaching	03						
17	MAY 2024	3		Practical	02						
	5 th WEEK	2	Final MID EXAMINATIONS								

B. I. S.
Signature of the Lecturer

B. I. S.
Signature of the Dept. H/c
Department Incharge
Department of Computer Science
S.V.R. Government Degree College
Maddur, Channarayana District.

M. A. S.
Signature of the Principal

SVR GOVERNMENT DEGREE COLLEGE :: NIDADAVOLE
TABLE – A – ANNUAL CURRICULAR PLAN – LECTURER WISE

OF THE LECTURER : SOUJANYA BHUKYA DEPARTMENT : COMPUTER SCIENCE YEAR: 2023-2024
 : IInd B.SC (MPCS) SEMESTER : IVth SEM Subject Name : OOPS through JAVA

MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPIC	ADDITIONAL INPUT VALUE ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				REMARKS
				ACTIVITY	HOURS ALLOTTED	WHETHER COND UCTED	IF NOT, ALTERNATIVE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER COND UCTED	IF NOT, ALTERNATIVE DATE	
2	3	4	5	6	7	8	9	10	11	12	13	14
Jan 2024 1 st Week	4	Features of Java, The Java virtual Machine, Parts of Java Naming Conventions in Java, Data Types in Java, Literals Operators, Priority of Operators		Teaching	4			—				
	2	1. Write a program to read Student Name, Reg.No, Marks[5] and calculate Total,Percentage, Result. Display all the details of students.		Practical	2							

2	Jan 2024 2 nd Week	4 2	if... else Statement, do... while Statement, while Loop, for Loop, switch Statement, break Statement, continue Statement, return Statement. Accepting Input from the Keyboard, Reading Input with Java.util.Scanner Class. 2. Write a program to perform the following String Operations a. Read a string b. Find out whether there is a given substring or not c. Compare existing string by another string and display status d. Replace existing string character with another character e. Count number of works in a string.	Teaching Practical	4 2						
3	Jan 2024 4 th Week	4 2	Displaying Output with System.out.printf(). Displaying Formatted Output with String.format(). Arrays: Types of Arrays, Three Dimensional Arrays (3D array), array name, length, Command Line Arguments. 3. Java program to implements Addition and Multiplication of two N X N matrices.	Teaching Practical	3 1			Assign ment	1		
4	Jan 2024 5 th Week	4 2	Creating Strings, String Class Methods, String Comparison, Immutability of Strings. Problems in Procedure Oriented Approach, Features of Object- Oriented Programming System (OOPS). 4. Java program to demonstrate the use of Constructor.	Teaching Practical	3 1			Assign ment	1		

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Feb 2
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Feb 2024 1st Week	4 2	Object Creation, Initializing the Instance Variables, Access Specifiers, Constructors, Method Header or Method Prototype, Method Body, Understanding Methods, Static Methods. 5. Calculate area of the following shapes using method overloading. a. Triangle b. Rectangle c. Circle d. Square		Teaching Practical	3 1				QUIZ	1				
Feb 2024 2nd Week	4 2	Static Block, The keyword 'this', Instance Methods, Passing Primitive Data Types to Methods, Passing Objects to Methods, Passing Arrays to Methods, Recursion, Factory Methods, Inheritance, The keyword 'super', The Protected Specifier, Types of inheritance. 6. Implement inheritance between Person (Aadhar, Surname, Name, DOB, and Age) and Student (Admission Number, College, Course, Year) classes where ReadData(), DisplayData() are overriding methods.		Teaching Practical	3 1				Student Seminar	1				

7	Feb 2024 3 rd Week	4 2	Polymorphism with Variables, Polymorphism using Methods, Polymorphism with Static Methods, Polymorphism with Private Methods, Polymorphism with Final Methods, final Class. 7. Java program for implementing Interfaces.		Teaching Practical	3 1				Student Seminar	1	
8	Feb 2024 4 th Week	4 2	1 st MID EXAMINATIONS									
9	March 2024 1 st Week	4 2	Types of Data Types, Casting Primitive Data Types, Casting Referenced Data Types, The Object Class, Abstract Method and Abstract Class, Interface, Multiple Inheritance using Interfaces. 8. Java program on Multiple Inheritance.		Teaching Practical	3 1				Student Seminar	1	

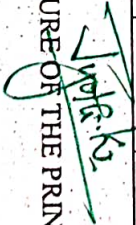
March 2024 2nd Week	4 2	Package, Different Types of Packages, The JAR Files, Interfaces in a Package, Creating Sub Package in a Package, Access Specifiers in Java, Creating API Document. Errors in Java Program, Exceptions, throws Clause, throw Clause, Types of Exceptions, Re – throwing an Exception. 9. Java program for to display Serial Number from 1 to N by creating two Threads		Teaching Practical	3 1							
March 2024 3rd Week	4 2	Stream, Creating a File using FileOutputStream, Reading Data from a File using FileInputStream, Creating a File using FileWriter, Reading a File using FileReader. 10. Java program to demonstrate the following exception handlings: e. Divided by Zero f. Array Index Out of Bound g. File Not Found h. Arithmetic Exception i. User Defined Exception		Teaching Practical	3 1			Student Seminar	1			

12	March 2024 4th Week	4 2	11. Create an Applet to display different shapes such as Circle, Oval, Rectangle, Square and Triangle. 12. Write a program to create Book (ISBN, Title, Author, Price, Pages, Publisher/structure and store book details in a file and perform the following operations J. Add book details k. Search a book details for a given ISBN and display book details, if available l. Update a book details using ISBN m. Delete book details for a given ISBN and display list of remaining Books.		Teaching Practical	3 1				Student Seminar	1	
13	APRIL 2024 1st Week	4 2			Teaching Practical	3 1				QUIZ	1	

APRIL 2024 4 th Week	4 2	Creating an Applet, Uses of Applets, <APPLET> tag, A Simple Applet, An Applet with Swing Components, Animation in Applets, A Simple Game with an Applet, Applet Parameters, Database Servers, Database Clients, JDBC (Java Database Connectivity), Working with Oracle Database, Working with MySQL Database, Stages in a JDBC Program, Registering the Driver. Connecting to a Database, Preparing SQL Statements, Using jdbc-odbc Bridge Driver to Connect to Oracle Database, Retrieving Data from MySQL Database, Retrieving Data from MS Access Database, Stored Procedures and Callable Statements, Types of Result Sets.		Teaching Practical	3 1				ASSIGNMENT 1					
APRIL 2024 3 rd Week	4 2	II nd MID EXAMINATION		Teaching Practical										


 SIGNATURE OF THE LECTURER


 SIGNATURE OF THE HEAD OF THE
 DEPARTMENT
 Department Incharge
 Department of Computer Science
 S.V.R. Government Degree College
 Muddavoylu, E.C.District.


 SIGNATURE OF THE PRINCIPAL

SVR GOVERNMENT DEGREE COLLEGE :: NIDADAVOLE
TABLE – B – ANNUAL CURRICULAR PLAN – LECTURER WISE

YEAR: 2023-2024

OF THE LECTURER : SOULANYA BHUKYA DEPARTMENT : COMPUTER SCIENCE
 S : IInd B.SC (MPCS) SEMESTER : IVth SEM Subject Name : OOPS through JAVA

MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPIC	ADDITIONAL INPUT VALUE ADDITION	CURRICULAR ACTIVITY					CO-CURRICULAR ACTIVITY					REMARKS
				ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATIVE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATIVE DATE			
2	3	4	5	6	7	8	9	10	11	12	13	14		
Jan 2024	4	Features of Java, The Java virtual Machine, Parts of Java Naming Conventions in Java, Data Types in Java, Literals Operators, Priority of Operators		Teaching	4			—						
	2	2. Write a program to read Student Name, Reg.No, Marks[5] and calculate Total, Percentage, Result. Display all the details of students.		Practical	2									
1 st Week														

2	Jan 2024 2 nd Week	4 2	if... else Statement, do... while Statement, while Loop, for Loop, switch Statement, break Statement, continue Statement, return Statement. Accepting Input from the Keyboard, Reading Input with Java.util.Scanner Class. 2. Write a program to perform the following String Operations a. Read a string b. Find out whether there is a given substring or not c. Compare existing string by another string and display status d. Replace existing string character with another character e. Count number of works in a string.	Teaching Practical	4 2						
3	Jan 2024 4 th Week	4 2	Displaying Output with System.out.printf(), Displaying Formatted Output with String.Format (). Arrays: Types of Arrays, Three Dimensional Arrays (3D array), array name, length, Command Line Arguments. 3. Java program to implements Addition and Multiplication of two N X N matrices.	Teaching Practical	3 1			Assignment	1		

Jan 2024	4	Creating Strings, String Class Methods, String Comparison, Immutability of Strings. Problems in Procedure Oriented Approach, Features of Object-Oriented Programming System (OOPS).	Teaching	3							
5 th Week	2	4. Java program to demonstrate the use of Constructor.	Practical	1			Assignment	1			
Feb 2024	4	Object Creation, Initializing the Instance Variables, Access Specifiers, Constructors:: Method Header or Method Prototype, Method Body, Understanding Methods, Static Methods.	Teaching	3							
1 st Week	2	5. Calculate area of the following shapes using method overloading. a. Triangle b. Rectangle c. Circle d. Square	Practical	1			QUIZ	1			

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March 2024 1st Week	4	Types of Data Types, Casting Primitive Data Types, Casting Referenced Data Types, The Object Class, Abstract Method and Abstract Class, Interface, Multiple Inheritance using Interfaces.	Teaching Practical	3 1				Student Seminar	1				
March 2024 2nd Week	4	Package, Different Types of Packages, The JAR Files, Interfaces in a Package, Creating Sub Package in a Package, Access Specifiers in Java, Creating API Document, Errors in Java Program, Exceptions, throws Clause, throw Clause, Types of Exceptions, Re – throwing an Exception.	Teaching Practical	3 1				GROUP DISCUSSION	1				
March 2024 3rd Week	2	9. Java program for to display <i>Serial Number from 1 to N</i> by creating two Threads											
	4	Stream, Creating a File using FileOutputStream, Reading Data from a File using FileInputStream, Creating a File using FileWriter, Reading a File using FileReader.	Teaching Practical	3 1				Student Seminar	1				
	2	10. Java program to demonstrate the following exception handlings e. Divided by Zero f. Array Index Out of Bound g. File Not Found h. Arithmetic Exception i. User Defined Exception											

12	March 2024 4th Week	4	Zippping and Unzippping Files, Serialization of Objects, Counting Number of Characters in a File, File Copy, File, Cla Single Tasking, Multi Tasking, Uses of Threads, Creating a Thread and Running it, Terminating the Threads. 11. Create an Applet to display different shapes such as Circle, Oval, Rectangle, Square and Triangle.	Teaching	3				Student Seminar	1		
		2		Practical	1							
13	APRIL 2024 1 st Week	4	Single Tasking Using a Thread, Multi Tasking Using Threads, Multiple Threads Acting on Single Object, Thread Class Methods, Deadlock of Threads, Thread Communication, Thread Priorities, thread Group, Daemon Threads, Applications of Threads, Thread Life Cycle.	Teaching	3							
		2	12. Write a program to create Book (ISBN, Title, Author, Price, Pages, Publisher) structure and store book details in a file and perform the following operations j. Add book details k. Search a book details for a given ISBN and display book details, if available l. Update a book details using ISBN m. Delete book details for a given ISBN and display list of remaining Books.	Practical	1				QUIZ	1		

APRIL 2024 2 nd Week	4	Creating an Applet, Uses of Applets, <APPLET> tag, A Simple Applet, An Applet with Swing Components, Animation in Applets, A Simple Game with an Applet, Applet Parameters. Database Servers, Database Clients, JDBC (Java Database Connectivity), Working with Oracle Database, Working with MySQL Database, Stages in a JDBC Program, Registering the Driver, Connecting to a Database, Preparing SQL Statements, Using jdbc-odbc Bridge Driver to Connect to Oracle Database, Retrieving Data from MySQL Database, Retrieving Data from MS Access Database, Stored Procedures and Callable Statements, Types of Result Sets.		Teaching	3														
APRIL 2024 3 rd Week	4 2	II nd MID EXAMINATIONS		Practical	1														


SIGNATURE OF THE LECTURER


SIGNATURE OF THE HEAD OF THE
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S.V.R. Government Degree College
Nidadavole, E.G.District.


SIGNATURE OF THE PRINCIPAL

SVRK GOVERNMENT DEGREE COLLEGE (M), NIDAVAYOLE
TABLE-A-CURRICULAR PLAN - LECTURER WISE

Year: 2023-2024

Department: **COMPUTER SCIENCE**

Class: **II B.Sc (MPCS) SEMESTER -IV**

Paper: **IV B OPERATING SYSTEMS**

Name of the Lecturer: **SOUJANYA BHUKYA**

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	Activity	Hours allotted	Whether conducted	If not Alternate date	
2	3	4	5	6	7	8	9	10	11	12	13	14
Jan 2024	04	What is Operating System? History and Evolution of OS, Basic OS functions, Resource Abstraction.	https://www.javaonline.com/types-of-operating-systems	Teaching	04			—				
2 nd Week	02	1. Write a program to implement Round Robin CPU Scheduling algorithm		Practical	02							
Jan 2024	04	Types of Operating Systems- Multiprogramming Systems, Batch Systems, Time Sharing Systems.		Teaching	04			—				
3 rd Week	02	2. Simulate SJF CPU Scheduling algorithm		Practical	02							
Jan 2024	04	Operating Systems for Personal Computers, Workstations and Hand-held Devices, Process Control & Real time Systems.	https://www.javaonline.com/os-	Teaching	04			Assignment-1	01			
4 th Week												

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March 2024 2nd Week	04	Methods for Inter-process Communication, Process Synchronization, Classical Process Synchronization Problems: Producer-Consumer, Reader-Writer. 9. Simulate Single level directory File organization techniques		Teaching Practical	04 01			Student Seminar	21			
March 2024 3rd Week	04 02	Memory Management: P: Physical and Virtual Address Space; Memory Allocation Strategies. Fixed and - Variable Partitions, 10. Simulate Two level File organization techniques 11. Simulate Hierarchical File organization techniques		Teaching Practical	04 02			—				
March 2024 4th Week	04 02	Paging, Segmentation, Virtual Memory, File and I/O Management, OS security: Directory Structure, File Operations, File Allocation Methods, Device Management. 12. Write a program for Bankers Algorithm for Dead Lock Avoidance 13. Implement Bankers Algorithm Dead Lock Prevention.		Teaching Practical	04 01			Assignment-3	01			
APRIL 2024 1st Week	04 02	Pipes, Buffer, Shared Memory, Security Policy Mechanism, Protection, Authentication and Internal Access Authorization Introduction to Android Operating System. 14. Simulate all Page replacement algorithms. a) FIFO b) LRU	https://www.javatpoint.com/page-vs-block-in-operating-system	Teaching Practical	04 01			Student Seminar	01			

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

Year: 2023-2024

Department: COMPUTER SCIENCE

Name of the Lecturer: B SOUJANYA

Class: II B.Sc (MPCS) SEMESTER -IV

Paper: IV-B OPERATING SYSTEMS

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	Activity	Hours allotted	
1	2	3	4	5	6	7	8	9	10	11	12
1	Jan 2024	04	What is Operating System? History and Evolution of OS, Basic OS functions, Resource Abstraction.	https://www.javatpoint.com/types-of-operating-systems	Teaching	04			—		
1	1 st Week	02	1. Write a program to implement Round Robin CPU Scheduling algorithm		Practical	02					
2	Jan 2024	04	Types of Operating Systems – Multiprogramming Systems, Batch Systems, Time Sharing Systems.		Teaching	04			—		
2	2 nd Week	02	2. Simulate SJF CPU Scheduling algorithm		Practical	02					
3	Jan 2024	04	Operating Systems for Personal Computers, Workstations and Hand-held Devices, Process Control & Real time Systems.	https://www.javatpoint.com/os-cpu-scheduling	Teaching	04			Assignment-1	01	
3	4 th Week	02	3. Write a program the FCFS CPU Scheduling algorithm		Practical	02					

4	Jan 2024 5 th Week	04	Processor and User Modes, Kernels, System Calls and System Programs, System View of the Process and Resources.		Teaching	04			Student Seminar	01	
		02	4. Write a program to Priority CPU Scheduling algorithm		Practical	01					
5	Feb 2024 1 st Week	04	Process Abstraction, Process Hierarchy, Threads, Threading Issues, Thread Libraries.		Teaching	04			QUIZ	01	
		02	5. Simulate Sequential file allocation strategies		Practical	01					
6	Feb 2024 2 nd Week	04	Process Scheduling, Non-Preemptive and Preemptive Scheduling Algorithms.		Teaching	04			Assignment-2	01	
		02	6. Simulate Indexed file allocation strategies		Practical	01					
7	Feb 2024 3 rd Week	04	Deadlock, Deadlock Characterization, Necessary and Sufficient Conditions for Deadlock, Deadlock Handling Approaches: Deadlock Prevention.	https://www.javaipoint.com/os-deadlocks-introduction	Teaching	04			Group Discussion	01	
		02	7. Simulate Linked file allocation strategies		Practical	01					
8	Feb 2024 4 th Week		1 st MID EXAMINATIONS								
9	March 2024 1 st Week	04	Deadlock Avoidance and Deadlock Detection and Recovery. Concurrent and Dependent Processes, Critical Section, Semaphores.	https://www.javaipoint.com/os-resource-allocation-graph	Teaching	04					
		02	8. Simulate MVT and MFT memory management techniques		Practical	01			Assignment-3	01	
10	March 2024 2 nd Week	04	Methods for Inter-process Communication; Process Synchronization, Classical Process Synchronization Problems: Producer-Consumer, Reader-Writer.		Teaching	04					
		02	9. Simulate Single level directory File organization techniques		Practical	02					

	March 2024 3rd Week	04 02	Memory Management: P: Physical and Virtual Address Space; Memory Allocation Strategies. Fixed and - Variable Partitions, 10. Simulate Two level File organization techniques 11. Simulate Hierarchical File organization techniques		Teaching Practical	04 02				
11										
	March 2024 4th Week	04 02	Paging, Segmentation, Virtual Memory, File and I/O Management, OS security : Directory Structure, File Operations, File Allocation Methods, Device Management. 12. Write a program for Bankers Algorithm for Dead Lock Avoidance 13. Implement Bankers Algorithm Dead Lock Prevention.		Teaching Practical	04 02				
12										
	APRIL 2024 1st Week	04 02	Pipes, Buffer, Shared Memory, Security Policy Mechanism, Protection, Authentication and Internal Access Authorization Introduction to Android Operating System. 14. Simulate all Page replacement algorithms. a) FIFO b) LRU c) LFU	https://www.javatpoint.com/page-vs-block-in-operating-system	Teaching Practical	04 01			Student Seminar	01
13										

	APRIL 2024	04	Android Development Framework, Android Application Architecture, Android Process Management and File System, Small Application Development using Android Development Framework.	Teaching	04				
14	4 th Week	02	15. Simulate Paging Techniques of memory management	Practical	01			Assignment	01
	APRIL 2024	04	IIInd MID EXAMINATIONS						
15	3 rd Week	02							

Signature of the Lecturer

B. L. S.

Signature of the Dept. H/c

B. L. S.

Department Incharge

Department of Computer Science

S.V.R. Government Degree College

Nellore District, E.C.D. District.

Signature of the Prin

T. J. S.

circulated to students:

1. S. Creethika

2. Ch. Nagaraju

3. K. Aravind

4. K. Anusudha

5. M. Akhila Naga Devi

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