ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT
Lesson plan

Name of Faculty	Expert
Discipline	Electronics And Communication Engineering
Semester	Third Sem (3rd sem)
Subject	PROGRAMING IN C
Lesson Plan Duration	From Sep 2023
Work Load [Theory + Practical] Per Week	[03+04]

Week	Day	Theory Topic/ Assignment/ Test	No.	Practical
1st	1	UNIT 1: Steps in development of a program.	1.	Programming exercises on executing and editing a C program.
	2	Flow charts, Algorithm development.		
	3	Programme Debugging, I/O statements.		
2nd	1	REVISION	2.	Programming exercises on defining variables and assigning values to variables.
	2	Constants, variables and data types.		
	3	Operators & Expressions.		
3rd	1	Unformatted and Formatted IOS, Data Type Casting	3.	Programming exercises on arithmetic and relational operators.
	2	Decision making with IF – statement.		
	3	IF – Else and Nested IF.		
4th	1	While and do-while, for loop, Break.	4.	Programming exercises on arithmetic expressions and their evaluation.
	2	Continue, goto and switch statements.		
	3	REVISION		
5th	1	REVISION	5.	Programming exercises on formatting input/output using print f and scan f and their return type values.
	2	UNIT 2: Introduction to pointers.		
	3	Introduction to Address operator.		
6th	1	Declaring and initializing pointers, Single pointer.	6.	Programming exercises using if statement.
	2	Introduction to functions, Function Declaration.		
	3	Introduction to calling, definition.		
7th	1	Parameter Passing, Call - by value/reference.	7.	Programming exercises using if – Else.
	2	Global and Local Variables.		
	3	REVISION		
8th	1	REVISION	8.	Programming exercises on switch statement.

	2	UNIT 3: Introduction to Arrays			
	3	Array Declaration, Length of array			
9th	1	Single and multi-dimensional array	9.	Programming exercises on do – while, statement.	
	2	Arrays of characters			
	3	Introduction of Strings			
10th	1	String declaration and definition .	10.	Programming exercises on for – statement.	
	2	String related function i.e. strlen, strcpy, strcmp			
	3	Passing an array to			
11th	1	function Pointers to an array and strings.	11.	Simple programs using pointers.	
	2	REVISION			
	3	CLASS TEST/ ASSIGNMENT			
12th	1	UNIT 4: Declaration of structures	12.	Programs on one-dimensional array and two-dimensional array.	
	2	Accessing structure members			
	3	Structure Initialization			
13th	1	Pointer to a structures	13.	Programs for putting two strings together. (ii) Programs for comparing two strings.	
	2	Unions			
	3	REVISION			
14th	1	Opening and Closing of File	14.	Simple programs using functions, structures and unions.	
	2	Modes of Accessing Files			
	3	Reading and Writing in the File			
15th	1	REVISION	15.	Program on Reading and Writing data to a file.	
	2	REVISION OLD QUESTION PAPER			
	3	REVISION OLD QUESTION PAPER			