NAME OF THE FACULTY : RAVINDER KUMAR

DISCIPLINE : ECE

SEMESTER : 3 rd

SUBJECT : Computer Programming using C

LESSON PLAN DURATION : - 15 weeks (from September to December 2020)

WORK LOAD (LECTURE/PRACTICAL) PER WEEK (IN HOURS):- LECTURE-**04**, PRACTIACL-**03** PER GROUP

WEEK S.N.	THEORY		PRACTICAL		
	Lecture / Hrs	TOPIC (Including Assignment/Test)	Practical / Hrs		Experiment
1st	1	**Introduction** Algorithm and Programming Development	Group-1	1	Programming exercises on executing and editing a C program.
				2	
	2	Steps in development of a program		3	
	3	Introduction to Flow charts	Group-2	1	Programming exercises on executing and editing a C program.
				2	
	4	Algorithm development		3	
2nd	5	Introduction to Programme Debugging	Group-1	1	Programming exercises on defining variables and assigning values to variables.
				2	
	6	Programme Debugging		3	
	7	I/O statements	Group-2	1	Programming exercises on defining variables and assigning values to variables.
				2	
	8	Assign statements		3	
3rd	9	Constants, variables	Group-1	1	Programming exercises on arithmetic and relational operators.
				2	
	10	Data Types		3	
	11	Operators	Group-2	1	Programming exercises on arithmetic and relational operators.
				2	
	12	Expressions		3	
4th	13	Standards IO statements	Group-1	1	Programming exercises on arithmetic expressions and their evaluation.
				2	
	14	Formatted IO statements		3	
	15	Data Type Casting	Group-2	1	Programming exercises on arithmetic expressions and their evaluation.
				2	
	16	Introduction to Control Structures		3	
5th	17	**Assignment-1**	Group-1	1	Programming exercises on formatting input/output using printf() and scanf() and their return type values.
				2	
	18	**Sessional Test-1**		3	
	19	Decision making with IF – statement	Group-2	1	Programming exercises on formatting input/output using printf() and scanf() and their return type values.
				2	
	20	Decision making with IF – statement		3	

6th	21	IF – Else	Group-1	1	Programming exercises using if statement.	
				2		
	22	Nested IF		3		
	23	Introduction to loops	Group-2	1	Programming exercises using if statement.	
				2		
	24	While and do-while, for loop		3		
7th	25	While and do-while, for loop	Group-1	1	Programming exercises using if – Else.	
				2		
				3		
	26	Break, Continue, go to statements	Group-2	1	Programming exercises using if – Else.	
	27	Break, Continue, go to statements		2		
	28	Switch statements		3		
8th	29	Introduction to Pointers	Group-1	1	Programming exercises on switch statement.	
				2		
	30	Pointers		3		
	31	Address operator and pointers	Group-2	1	Programming exercises on switch statement.	
				2		
	32	Declaring and Initializing pointers		3		
9th	33	Declaring and Initializing pointers	Group-1	1	Programming exercises on do – while, statement.	
				2		
	34	Single pointer		3		
	35	Revision Pointers	Group-2	1	Programming exercises on do – while, statement.	
				2		
	36	Revision Pointers		3		
10th	37	Introduction to functions	Group-1	1	Programming exercises on for – statement.	
				2		
	38	**Assignment-2**		3		
	39	**Sessional Test-2**	Group-2	1	Programming exercises on for – statement.	
				2		
	40	Introduction to functions		3		
11th	41	Global and Local Variables	Group-1	1	Programs on one-dimensional array.	
				2		
				3		
	42	Global and Local Variables	Group-2	1	Programs on one-dimensional array.	
	43	Function Declaration		2		
	44	Function Declaration		3		

12th	45	Standard functions	Group-1	1	Programs on two-dimensional array.	
				2		
	46	Standard functions		3		
	47	Parameters	Group-2	1	Programs on two-dimensional array.	
				2		
	48	Parameter Passing		3		
13th	49	Call - by value	Group-1	1	(i) Programs for putting two strings together. (ii) Programs for comparing two strings.	
				2		
	50	Call - by reference		3		
	51	Introduction to Arrays	Group-2	1	(i) Programs for putting two strings together. (ii) Programs for comparing two strings.	
				2		
	52	Array Declaration, Length of array		3		
14th	53	Single Array	Group-1	1	Simple programs using structures.	
				2		
	54	Multidimensional Array		3		
	55	Arrays of characters	Group-2	1	Simple programs using structures.	
				2		
	56	Passing an array to function		3		
15th	57	Pointers to an array	Group-1	1	Simple programs using pointers.	
				2		
	58	**Assignment- 3**		3		
	59	**Sessional Test- 3**	Group-2	1	Simple programs using pointers.	
				2		
	60	Revision		3		