

## Lesson Plan

**Name of Faculty** : **Expert**  
**Discipline** : **Electronics & Comm. Engg.**  
**Semester** : **3<sup>rd</sup>**  
**Subject** : **CPC**  
**Lesson Plan Duration** : **16 weeks**

**Work load (Lecture /Practical) per week (in hours): Lectures—03, Practical—03**

Week	Lecture Day		Practical	
			Practical Day	Topic
1 <sup>st</sup>	1	Steps in development of a program	1 <sup>st</sup>	Programming exercises on executing and editing a C program
	2	Algorithm development		
	3	Flow charts		
2 <sup>nd</sup>	4	Programme Debugging	2 <sup>nd</sup>	Programming exercises on defining variables and assigning values to variables.
	5	Assignment		
	6	I/O statements		
3 <sup>rd</sup>	7	assign statements	3 <sup>rd</sup>	Programming exercises on arithmetic and relational operators
	8	Constants, variables		
	9	Data types		
4 <sup>th</sup>	10	Operators and Expressions	4 <sup>th</sup>	Programming exercises on arithmetic expressions and their evaluation.
	11	Standards and Formatted IOS		
	12	Data Type Casting		
5 <sup>th</sup>	13	Assignment	5 <sup>th</sup>	Programming exercises on formatting input/output using printf and scanf and their return type values
	14	Test		
	15	Control Structures introduction		
6 <sup>th</sup>	16	Decision making with IF – statement	6 <sup>th</sup>	Programming exercises using if statement
	17	IF – Else		
	18	Nested IF		
7 <sup>th</sup>	19	for loop	7 <sup>th</sup>	Programming exercises using if – Else.
	20	While and do-while		

	21	switch statements		
8 <sup>th</sup>	22	Break. Continue	8 <sup>th</sup>	Programming exercises on switch statement
	23	Assignment		
	24	Introduction to Pointers		
9 <sup>th</sup>	25	Address operator	9 <sup>th</sup>	Programming exercises on do – while, statement.
	26	Address operator and pointers		
	27	Declaring of pointers		
10 <sup>th</sup>	28	Initializing of pointers	10 <sup>th</sup>	Programming exercises on for – statement.
	29	Single pointer,		
	30	Revision of Pointer		
11 <sup>th</sup>	31	Assignment	11 <sup>th</sup>	Programs on one-dimensional array.
	32	Introduction to functions		
	33	Global and Local Variables		
12 <sup>th</sup>	34	Function Declaration	12 <sup>th</sup>	Programs on two-dimensional array
	35	Standard functions		
	36	Parameters		
13 <sup>th</sup>	37	Parameter Passing	13 <sup>th</sup>	(i) Programs for putting two strings together. (ii) Programs for comparing two strings.
	38	Call - by value		
	39	Call - by reference		
14 <sup>th</sup>	40	Assignment	14 <sup>th</sup>	Simple programs using structures
	41	Introduction to Arrays		
	42	Array Declaration, Length of array		
15 <sup>th</sup>	43	Single and Multidimensional Array	15 <sup>th</sup>	Simple programs using pointers.
	44	Arrays of characters		
	45	Passing an array to function		
16 <sup>th</sup>	46	Pointers to an array	16 <sup>th</sup>	Simple programs using union.
	47	Test		
	48	Revision		

