

Lesson Plan

Name of Faculty : Ms. Sonam, Assistant Professor of CSE
 Discipline : Computer Science and Engineering
 Semester : 1st (ODD)
 Subject : Programming for Problem Solving (ESC-103)
 Lesson Plan Duration : 15 weeks (from July/August-2018 to Nov/Dec-2018)
 Work Load (Lecture/Practical) per week (in hours): Lectures-04 hours

Week	Theory		Topic Covered Date and Remarks		
	Lecture- Day	Topic (Including Assignment/Test)	Date	HOD	Director- Principal
1 st	1	Introduction to Programming			
	2	Introduction to component of Computer System			
	3	Idea of Algorithm			
	4	Representation of Algorithm			
2 nd	5	Algorithm to programs			
	6	Arithmetic expression			
	7	Arithmetic precedence			
	8	Conditional branching			
3 rd	9	Conditional loops			
	10	Writing and evaluations of conditional branching			
	11	Iteration and loops			
4 th	12	Introduction of Arrays			
	13	1-D array			
	14	2 – D array			
	15	Character array			
5 th	16	String			
	17	Basic searching			
	18	Sorting algorithm			
	19	Bubble , insertion , selection sort			
6 th	20	Finding roots of equation			
	21	Notion of order of complexity			
	22	Functions			
	23	Parameter passing in function			
7 th	24	Call by value			
	1st Minor Test				
8 th	25	Call by reference			
	26	Recursion			
	27	Finding factorial			
	28	Fibonacci series			
9 th	29	Ackerman function			
	30	Quick sort			
	31	Merge sort			
	32	Assignment 1			
10 th	33	Structures			
	34	Defining structure			
	35	Array of structure			
	36	Problem and solution			
11 th	37	Idea of pointers			
	38	Defining pointer			
	39	Use of pointer in structure			
	40	Notion of linked list			
12 th	41	Problem and solution			
	42	Assignment 2			
	43	File handling			
	44	Program with help of pointer			
13 th	45	Program on searching			
	46	Program on sorting			
	47	Program on array			
	48	Program on structure			
14 th	2nd Minor Test				
15 th	49	Problem on unit 1			
	50	Problem on unit 2			
	51	Problem on unit 3			
	52	Problem Solution			

Lesson Plan

Name of Faculty : Ms. Arushi, Assistant Professor of CSE
 Discipline : Computer Science and Engineering
 Semester : 1st (ODD)
 Subject : Programming for Problem Solving (ESC-103)
 Lesson Plan Duration : 15 weeks (from July/August-2018 to Nov/Dec-2018)
 Work Load (Lecture/Practical) per week (in hours): Lectures-04 hours

Week	Theory		Topic Covered Date and Remarks		
	Lecture- Day	Topic (Including Assignment/Test)	Date	HOD	Director- Principal
1 st	1	Introduction to Programming			
	2	Introduction to component of Computer System			
	3	Idea of Algorithm			
	4	Representation of Algorithm			
2 nd	5	Algorithm to programs			
	6	Arithmetic expression			
	7	Arithmetic precedence			
	8	Conditional branching			
3 rd	9	Conditional loops			
	10	Writing and evaluations of conditional branching			
	11	Iteration and loops			
4 th	12	Introduction of Arrays			
	13	1-D array			
	14	2 – D array			
	15	Character array			
5 th	16	String			
	17	Basic searching			
	18	Sorting algorithm			
	19	Bubble , insertion , selection sort			
6 th	20	Finding roots of equation			
	21	Notion of order of complexity			
	22	Functions			
	23	Parameter passing in function			
7 th	24	Call by value			
	1st Minor Test				
8 th	25	Call by reference			
	26	Recursion			
	27	Finding factorial			
	28	Fibonacci series			
9 th	29	Ackerman function			
	30	Quick sort			
	31	Merge sort			
10 th	32	Assignment 1			
	33	Structures			
	34	Defining structure			
	35	Array of structure			
11 th	36	Problem and solution			
	37	Idea of pointers			
	38	Defining pointer			
	39	Use of pointer in structure			
12 th	40	Notion of linked list			
	41	Problem and solution			
	42	Assignment 2			
	43	File handling			
13 th	44	Program with help of pointer			
	45	Program on searching			
	46	Program on sorting			
	47	Program on array			
14 th	48	Program on structure			
	2nd Minor Test				
15 th	49	Problem on unit 1			
	50	Problem on unit 2			
	51	Problem on unit 3			
	52	Problem Solution			

Lesson Plan

Name of Faculty : Ms Varsha Rani, Assistant Professor of CSE
Discipline : Computer Science and Engineering
Semester : 1st
Subject : Prog. For Problem Solving lab(ESC 103)
Lesson Plan Duration : 15 weeks (from January/ February-2018 to April/ May-2018)
Work Load (Lecture/Practical) per week (in hours): Lectures-04hours, Practical-02 hours

Week	Theory/ Practical (Group-I/ II)		Topic Covered Date and Remarks		
	Practical Day	Topics/ Programs	Date	HOD	Director-Principal
1 st	1	To formulate simple algorithm for arithmetic and logical problems			
2 nd	2	To translate the algorithm into programs			
3 rd	3	To test and execute the program and correct syntax and logical errors			
4 th	4	To implement conditional branching, iteration and recursion.			
5 th	5	To decompose a problem into functions and synthesize a complete program using divide and conquer approach			
6 th	6	To use array, pointers and structures to formulate algorithms and programs			
7 th		Minor test 1 st			
8 th	7	To apply programming to solve simple numerical methods problems, namely not finding of function.			
9 th	8	To be able to create, read and write to and from simple text files.			
10 th	9	To be able to declare pointers of different types and use them in defining self referential structures.			
11 th	10	Function, call by value			
12 th	11	Function call by reference			
13 th	12	Variable types and type conversions.			
14 th		Minor test 2 nd			
15 th	13	2D arrays and strings.			

Lesson Plan

Name of Faculty : Ms Arushi, Assistant Professor of CSE
Discipline : Civil + FT
Semester : 1st
Subject : Prog. For Problem Solving lab(ESC 103)
Lesson Plan Duration : 15 weeks (from January/ February-2018 to April/ May-2018)
Work Load (Lecture/Practical) per week (in hours): Lectures-04hours, Practical-02 hours

Week	Theory/ Practical (Group-I/ II)		Topic Covered Date and Remarks		
	Practical Day	Topics/ Programs	Date	HOD	Director-Principal
1 st	1	To formulate simple algorithm for arithmetic and logical problems			
2 nd	2	To translate the algorithm into programs			
3 rd	3	To test and execute the program and correct syntax and logical errors			
4 th	4	To implement conditional branching, iteration and recursion.			
5 th	5	To decompose a problem into functions and synthesize a complete program using divide and conquer approach			
6 th	6	To use array, pointers and structures to formulate algorithms and programs			
7 th		Minor test 1 st			
8 th	7	To apply programming to solve simple numerical methods problems, namely not finding of function.			
9 th	8	To be able to create, read and write to and from simple text files.			
10 th	9	To be able to declare pointers of different types and use them in defining self referential structures.			
11 th	10	Function, call by value			
12 th	11	Function call by reference			
13 th	12	Variable types and type conversions.			
14 th		Minor test 2 nd			
15 th	13	2D arrays and strings.			