

Government Polytechnic, Mandi Adampur				
Name of Faculty: Sh. Ravinder Kumar				
Discipline: Computer Engg.				
Semester: 3				
Subject: Computer Programming using C				
Lesson Plan Duration: 18 Weeks				
Week	Theory		Practical	
	Lecture Day	Topic	Practical Day	Topic
Week 1	Day 1	Unit 1: Algorithm and Programming Development	day 1	Programming exercises on executing and editing a C program
	Day 2	Steps in development of a program		
	Day 3	Steps in development of a program		
	Day 4	Flow charts, Algorithm development		
Week 2	Day 5	Programme Debugging	day 2	Programming exercises on defining variables and assigning values to variables.
	Day 6	Test Unit 1		
	Day 7	Unit 2: Program Structure		
	Day 8	I/O statements		
Week 3	Day 9	assign statements	day 3	Programming exercises on arithmetic and relational operators
	Day10	Constants, variables		
	Day 11	data types		
	day 12	Operators		
Week 4	day 13	Expressions	day 4	Programming exercises on arithmetic expressions and their evaluation
	day 14	Standards		
	day15	Formatted IOS		
	day 16	Data Type Casting		
Week5	day17	Revision and problem discussion	day 5	Programming exercises on formatting input/output using printf and scanf and their return type values.
	day 18	Test Unit 2		
	day 19	Unit 3: Control Structures		
	day 20	Introduction		
Week 6	days 21	Decision making with IF – statement	day 6	Programming exercises using if statement.
	days 22	Revision and problem discussion		
	days 23	IF – Else		
	day 24	Nested IF		
Week 7	day25	While loop	day 7	Programming exercises using if – Else.
	days 26	do-while		
	day27	for loop		
	day28	Break. Continue statement		
Week 8	day29	goto	day 8	Programming exercises on switch statement.
	day30	switch statements		
	day 31	Test Unit 3		
	day32	Unit 4: Pointers		
Week 9	day33	Introduction to Pointers	day9	File Check

	day 34	Address operator and pointers		
	day 35	Revision and problem discussion		
	day36	Declaring and Initializing pointers		
Week 10	day 37	Single pointer	day 10	Programming exercises on do – while, statement.
	day38	Revision and problem discussion		
	day39	Test Unit 4		
	day 40	Unit 5: Functions		
Week 11	day 41	Introduction to functions	day 11	Programming exercises on for – statement.
	day 42	Global and Local Variables		
	day 43	Global and Local Variables		
	day 44	Revision and problem discussion		
Week 12	day 45	Function Declaration	day 12	Programs on one-dimensional array.
	Day 46	Standard functions		
	Day 47	Revision and problem discussion		
	day 48	Parameters		
Week 13	day 49	Parameter Passing	day 13	Programs on two-dimensional array.
	Day 50	Parameter Passing		
	Day 51	Revision and problem discussion		
	day 52	Call - by value/reference		
Week 14	day 53	Call - by value/reference	day 14	(i) Programs for putting two strings together. (ii) Programs for comparing two strings.
	Day 54	Revision and problem discussion		
	Day 55	Test Unit 5		
	day 56	Unit 6: Arrays		
Week 15	day 57	Introduction to Arrays	day 15	Simple programs using structures.
	Day 58	Array Declaration		
	Day 59	Revision and problem discussion		
	day 60	Length of array		
Week 16	day 61	Single and Multidimensional Array	day 16	Simple programs using pointers.
	Day 62	Single and Multidimensional Array		
	Day 63	Revision and problem discussion		
	day 64	Arrays of characters		
Week 17	day 65	Arrays of characters	day 17	Simple programs using union.
	Day 66	Passing an array to function		
	Day 67	Passing an array to function		
	day 68	Revision and problem discussion		
Week 18	day 69	Pointers to an array	day 18	File Check
	Day 70	Pointers to an array		
	Day 71	Revision and problem discussion		
	day 72	test Unit 5		