

LESSON PLAN

Name of the Faculty: Prem Sagar Sharma

Discipline: B. Tech.

Semester: 2nd

Subject: Fundamentals of Computer and Programming with C

Lesson plan Duration: 15 weeks (from January, 2018 to April, 2018)

Work load (Lecture / Practical) per week (in hours): Lecture-03Practical/02

Week		Theory	Theory Practical	
	Lecture Day	Topic(including assignment/test)	Practical Day	Topic
Week-1	1 st 2 nd 3 rd	Fundamentals: Hardware organization of a computer, CPU Input/ Output Devices Memories, Registers, Ports.	1 st	Introduction of C Language and Compare with English Language
Week-2	4 th 5 th 6 th	Different Number Systems: Decimal Number System Binary Number System	2 nd	Introduce C- Compiler with students in Lab & Explain the Execution process of C - Compiler
Week-3	7 th 8 th 9 th	Octal Number System Hexadecimal Number System Inter-conversions.	3 rd	Comparison between Compiler & Interpreter
Week-4	10 th	Operating System Basics: Introduction to Operating system	4 th	Define the Program and introduce C Editor, How to write a program
	11 th	Functions of an Operating Systems		
	12 th	Classification of Operating Systems		
Week-5	13 th	Machine Language, Assembly Languages, High level Languages	5 th	How to write a simple instruction: Define: printf()
	14 th 15 th	Types of high level languages		
	15	Complier & Interpreter		



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Week-6	16 th	Assembler, Loader, Linker	6 th	C-Tokens:
	17 th	Relationship between	1	Constant
		Compiler, Loader and Linker		Variables
	18 th	Flowcharts	1	Keyword in C
		UNIT-III		
Week-7	19 th	Basic Introduction to Computer	7 th	Data Types in C:
		Networks:		Solve the Problem No
		LAN, MAN, WAN		1,2
	20 th	OSI Reference model		
	21 st	Introduction to Internet and		
		protocols:		
		TCP/IP ref. model		
Week-8	22 nd	Network connecting devices	8th	Define some common
	23 rd	Hypertext documents		syntax & logical errors
	24 th	HTTP, DNS, Network Security.		
Week-9	25 th	An Overview of C:	9 th	Solve the Problem No
		Basic and Derived Data Types,		3,4,5,6
		Constants, Variables, Data types		
	26 th	operators and Expressions		
	27 th	Managing I/O operations,		
		Decision Making		
Week-	28 th	branching and looping	10 th	Solve the Problem No
10	29 th	Derived Data Types like Arrays,		16,17,18,19
		Strings		
	30 th	Structure and Union in C:		
		Defining structure, declaring		
		variables, Accessing structure		
		members, structure		
	- ct	initialization,	th	
Week-	31 st	Copying and comparing	11 th	Define function and
11	o and	structures variables		Recursive Function:
	32 nd	Operations on individual		Cal a tha Bashla a Na
	o o rd	members, Array of structure,		Solve the Problem No
	33 rd	Structure with Structure, Unions	+h	20,21,24,15
Week-	34 th	Pointers in C:	12 th	Simple Programming
12		Introduction, Understanding		with pointer
	o – th	Pointers		Solve the Problem No
	35 th	Accessing the address of a		7,8,9,10
		variable, Declaring Pointer		
		Variables, Initialization of		
	36 th	Pointer Variables		
	30	Pointer Expressions, Pointer		
Mode	37 th	Increments and Scale Factors	13 th	Colve the Duckleys No
Week- 13	37 th	Pointers and Arrays	13	Solve the Problem No
1.0	38	Pointer and Character Strings		23 , 11, 12 ,13



	39 th	Pointers as Function Arguments, Pointers to Functions UNIT-VI		
Week- 14	40 th 41 st	File Management in C: Defining File Types of Files	14 th	File modes with syntax fopen() -syntax fclose() -syntax
	42 nd	Opening file Closing file		fgetc(), fgets(), fputc(),fputs()
Week- 15	43 rd 44 th	I/O operation on files Error handling during I/O	15 th	fread(),fwrite(), rewind(), fseek(),
	45 th	operations. Advantages and Disadvantages of File		Solve the Problem No25,