BHAI GURDAS INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Applied Sciences

LESSON PLAN

Subject Name: Programming for Problem Solving Subject Code: - BTPS101-18

Year: - FEB 2023 Semester: - 2ND

Lectu re No.	Unit	Date/ Week	Topic	Teaching Aids	References
L-1	Unit-1	Week	Introduction to Programming,	PPT	Dr. S
			Components of Computer System		Anandamurgan
L-2			Working of Operating System,	Choke and	Book
			Execution and structure of C program	Duster	
L-3			Introduction to Flowchart, guidelines	Choke and	Dr. S
			for drawing a Flowchart, Compilation	Duster	Anandamurgan
			process during program execution		
L-4			Use and working of algorithms in C	Choke and	Dr. S
			Language,	Duster	Anandamurgan
L-5		Week	Character set of C, Use of literals in C	PPT	Book
L-6			Differentiate between compilers & interpreters	PPT	
L-7			Syntax and logical errors in	PPT	Internet
			compilation,		
L-8			Variable declaration and its types	Choke and	Book
				Duster	
L-9		Week	Variable declaration Programs	Choke and	Vipan Arora
				Duster	
L-10		1	Introduction about operators, and its	Choke and	Vipan Arora
			types	Duster	
L-11			Literals or constants	Choke and	Vipan Arora
				Duster	
L-12	UNIT-2	1	Introduction about Input/ Output	PPT	Book
			statements		
L-13		Week	Unformatted I/O functions,	Choke and	Book
			·	Duster	
L-14		1	Character I/O functions	Choke and	Book
				Duster	
L-15]	Use of Type Casting in C	Choke and	Book
				Duster	
L-16]	Library Functions, Use of expressions	Choke and	Vipan Arora
				Duster	
L-17			Practice of running simple	PPT	Dr. S

			programs(addition, subtraction, multiply) 2 numbers		Anandamurgan
L-18		Week	Introduction about Control Statements and their uses	Choke and Duster	Book
L-19			Sequential statements,	PPT	Vipan Arora
L-20			Selection or branching statements	PPT	Dr. S Anandamurgan
L-21		Week	Iteration or looping statements	PPT	Dr. S Anandamurgan
L-22		•	Programming practice	LAPTOP	Vipan Arora
L-23	UNIT-3		Introduction and elements of array, WAP to demonstrate use of an array	Choke and Duster	Book
L-24			Initialization and working of 1-D array,2-D Array	Choke and Duster	Book
L-25		Week	Character Arrays, Declaring and initializing string variables	Choke and Duster	Book
L-26			Array programming practice	LAPTOP	Internet
L-27	UNIT-4		Introduction about searching and sorting algorithms	Choke and Duster	Book
L-28			Working of Bubble Sort, Insertion Sort, Selection Sort	Choke and Duster	Book
L-29		Week	Programming Practice	LAPTOP	Internet
L-30			Differentiate between Bubble, Insertion and Selection sort	Choke and Duster	Book
L-31	UNIT-5		Differentiate between local, global and static variables, Run various programs using function	Choke and Duster	Dr. S Anandamurgan
L-32			Passing parameters to a function, Call by reference, call by value	PPT	Dr. S Anandamurgan
L-33	UNIT-6	Week	Introduction about recursion	PPT	Notes
L-34			Wap to find factorial of a number, sum of given numbers using recursion	PPT	Vipan Arora
L-35			Programming based on Simple functions	LAPTOP	Dr. S Anandamurgan
L-36			Programming based on Call by Reference and call by value	PPT	Internet
L-37		Week	Differentiate between quick and merge sort	PPT	Internet
L-38	UNIT-7		Defining a structure, initialization of structure	Choke and Duster	Book
L-39			Pointer to structure, nested structure with program	PPT	Internet
L-40			Array of structure, Initialization of array of structure Union,	Choke and Duster	Book

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L-41		Differentiate between structure and union	Choke and Duster	Book
L-42		Program based on structure	LAPTOP	Dr. S Anandamurgan
L-43	UNIT-8	Use of pointers in C, Pointers and Arrays	PPT	Vipan Arora
L-44		Pointers to functions, Differentiat between array and pointer	PPT	Notes
L-45		Practice on Pointer Programs	LAPTOP	Book
L-46	UNIT-9	Study various data files, Defining and	Choke and	Dr. S
		opening a file, reading from a file writing to a file	Duster	Anandamurgan
L-47		Programs based on reading and writing on a file.	LAPTOP	Vipan Arora
L-48		Error handlings in file.	PPT	Dr. S Anandamurgan
L-49		Structure of file program,	PPT	Notes
L-50		Command Line Arguments	PPT	Notes
L-51		String Input / Output functions	Choke and	Book
		printing a file	Duster	
L-52		Programs based on making a file	LAPTOP	Book