

	-:C Programming Languages:-	
Date	Topics	Time
12-06-2024	Introduction to C Programming  1. History and Overview of C  o Brief history of C. o Importance and applications of C programming.	2 hrs
15-06-2024	Getting Started with C  1. Setting Up the Environment o Installing a C compiler (e.g., GCC). o Using an Integrated Development Environment (IDE) like Code::Blocks or Visual	2 hrs
16-06-2024	Basic Syntax and Data Types  1. Variables and Data Types  o Variable declaration and initialization. o Basic data types: int, float, double, char. o Constants (#define and const).  2. Operators o Arithmetic operators: +, -, *, /, %. o Relational operators: ==, !=, >, <, >=, <=. o Logical operators: &&,   , !. o Assignment operators: =, +=, -=, *=, /=. o Increment and decrement operators: ++,	2 hrs
19-06-2024	Control Flow  1. Conditional Statements o if, if-else, else if. o Nested if statements.	2 hrs
22-06-2024	Functions  1. Defining and Calling Functions  2. Syntax of a function	2 hrs



23-06-2024	Arrays and Strings  1. Arrays o Declaration and initialization. o Accessing and modifying array elements. o Multidimensional arrays.  2. Strings o Declaration and initialization of strings.	2 hrs
26-06-2024	o String handling functions (strlen, strcpy, strcat, strcmp).  Pointers  1. Introduction to Pointers  o Basics of pointers. o Pointer variables, dereferencing. o Pointer arithmetic. o NULL pointer. 2. Pointers and Arrays o Relationship between arrays and pointers. o Pointer to an array.	2 hrs
29-06-2024	Structures and Unions  1. Structures  o Defining and using structures. o Accessing structure members. o Nested structures and arrays of structures.  2. Unions o Defining and using unions. o Difference between structures and unions	2 hrs
30-06-2024	File I/O  1. Basic File Operations o Opening and closing files. o Reading from and writing to files. o File handling functions: fopen, fclose, fprintf, fscanf, fgets, fputs.	2 hrs
03-07-2024	Exercise: o Hello World program. o Calculator program. o Program to find the largest of three numbers. o Program to calculate factorial of a number using recursion. o Arrays and strings manipulation. o Functions and recursive functions. o File operations (reading from and writing to files).	2 hrs
	Total	20 hrs