



## Training Schedule – C Programming Course

Session #	Title	Details
Session 1	<b>Introduction to C</b>	Types of Languages , Evolution of 'C' Language , C Program development life cycle, Executing a 'C' Program
Session 2	<b>C Tokens</b>	Keywords and Identifiers , Operators , Constants , Variables Data Types , Scope and Lifetime of Variables
Session 3	<b>Control Statement and Expressions</b>	Decision Making using if statement, Types of if ...else block, Switch case Block , relational and logical operators
Session 4	<b>Loops in C</b>	Concept of Loops, For loop, While loop, Do while loop
Session 5-6	<b>Understanding Arrays &amp; Strings</b>	Introduction of Array, One - D Array, Two - D Array, Multidimensional Array, Implementing String Variables, String handling Functions
Session 7	<b>Functions</b>	Concept of Function, User defined Function, System Defined Function, Types of parameter passing in function
Session 8	<b>Understanding Pointers</b>	Need of Pointers, Types of Pointers, Pointer Expression, Arrays of Pointers
Session 9	<b>Structures and Unions</b>	Need of Structure, Implementing Structure Variable, Arrays of Structure, Introduction of Unions, Difference between Structure and Unions
Session 10	<b>File Handling using 'C'</b>	Opening and Closing File, Input / Output operations on File, Random Access to Files , Command Line Arguments
Session 11	<b>Dynamic Memory Allocation</b>	Concept of Dynamic Allocation, Implementing Malloc and Calloc Functions, Releasing the free space
Session 12	<b>Storage Classes and Preprocessor</b>	Introduction of Storage Class , Types of Storage Classes , Introduction of Preprocessor , Macro Substitution , File Inclusion
<b>Total Training Hrs</b>		<b>36</b>