Lecture Plan

Subject: **CSC11101 / Computer Programming [L-T-P = 3-0-0]**
Class: **I Semester Common (All Branch)**

Sl. No.	Name of the Topics	Number of Lectures
1	**C Fundamentals:** Introduction to C, Data types, Constants and variable declaration, Scope, Storage classes, Data input and output functions, Sample programs.	3
2	**Operators & Expressions:** Arithmetic, Relational, Logical, Bitwise operators, Conditional, Assignment, Precedence and Order of Evaluation, Library functions.	3
3	**Control & Looping Statements:** if, while, for, do-while, switch, break and continue statements, nested loops.	5
4	**Arrays:** Declaration, Initialization, Processing an array, 1D, 2D and multidimensional arrays, Strings and their Operations.	4
5	**Functions:** Defining functions, Function prototypes, Accessing a function, Passing arguments, Passing arrays and Recursive functions.	4
6	**Pointers:** Declaration, Operations on pointers, passing pointers to a function, Pointers and arrays, Array of Pointers.	4
7	**Structures & Unions:** Defining a structure, processing a structure, User defined data types, Structure and pointers, passing structure to a function, Self-referential structures, Nested structures, Unions	3
8	**File Management:** File operations, Creating and processing a data file, Command line arguments.	3
9	**Fundamentals of Object-Oriented Programming:** Basic concepts, Objects and classes, Data abstraction and encapsulation, Inheritance, Polymorphism and Dynamic binding.	3
	TOTAL	**32**