Syllabus

Course Type:	Engineering	**Course :**	**Diploma**	
Year/sem:	**3 Sem**	**Branch :**	**CSE**	**Created By:**

Programming in C

CS1301

Unit	Sub Unit	Topic	Duration
Algorithm and Programming Development, Program Str		Algorithm and Programming Development, Steps in development of a program, Flow charts, Algorithm development,Debugging, I/O statements, assignment statements, Constants, variables and data types, Operators and Expressions, Use of Header files & Library functions, Key word, data Types and Identifiers	8
Arrays, Pointers		Introduction to Arrays, Array Declaration and Initialization, Single and Multidimensional Array, Arrays of characters, Introduction to Pointers, Address operator, pointer and functions, Declaring and Initializing pointers, Assignment through pointers, Pointers and Arrays.	8
Control Structures, Functions		Introduction of control structure, Decision making with IF – statement, IF – Else and Nested IF, While and do-while, for loop, Break and switch statements, Introduction to functions, Function Declaration, Standard functions, Parameters and Parameter Passing, Call by value/reference, Global and Local Variables, Recursion.	8
Files		Introduction of files, File reading in different modes, File writing in different modes, File manipulation, File manipulation using standard function types	5
Structures and Unions, Strings		Declaration of structures, Accessing the Structure, Structure Initialization, Arrays of structures, Unions, Memory allocation functions, Introduction, Declaring and Initializing string variables, Reading and writing strings, String handling functions, Array of strings	8