

**C. K. Pithawala College of Engineering & Technology, Surat.**

**B.E.: 1<sup>st</sup> Year (2nd Sem)**

**Branch: Mechanical Engineering**

**Year: 2017-18**

**Division: A**

**Subject (code) : Computer Programming and Utilization(2110003)**

**Active Learning Assignments (ALA)**

<b>Group No.</b>	<b>Enrolment No.</b>	<b>Topics</b>	<b>GTU Chapter No</b>
G_01	170090119010	Introduction to computer and programming : Introduction, Basic block diagram and functions of various components of computer, Concepts of Hardware and software, Types of softwares, Compiler and interpreter, Concepts of Machine level, Assembly level and high level programming, Flow charts and Algorithms	1
	170090119019		
	170090119043		
	170090119082		
G_02	170090119015	Fundamentals of 'C' : Features of C language, structure of C Program, comments, header files, data types, constants and variables, I/O functions	2
	170090119017		
	170090119021		
	170090119026		
G_03	170090119016	Fundamentals of 'C' : operators, expressions, evaluation of expressions, type conversion, precedence and associativity,	2
	170090119038		
	170090119039		
	170090119077		
G_04	170090119014	Array: Concepts of array, one and two dimensional arrays, declaration and initialization of arrays	4
	170090119024		
	170090119092		
	170090119103		
G_05	170090119049	String : String, string storage, Built-in-string functions	4
	170090119076		
	170090119083		
	170090119084		
G_06	170090119028	Functions : Concepts of user defined functions, prototypes, definition of function, parameters	5
	170090119037		
	170090119050		
	170090119091		
G_07	170090119009	Functions : parameter passing, calling a function, recursive function, Macros, Pre-processing	5
	170090119022		
	170090119068		
	170090119081		
G_08	170090119003	Structure : Basics of structure, structure members, accessing structure, members, nested structures, array of structures, structure and functions, structures and pointers	7
	170090119029		
	170090119031		
	170090119061		

G_09	170090119005	Pointers : Basics of pointers, pointer to pointer, pointer and array, Pointer to array, array of pointers, functions returning a pointer	6
	170090119034		
	170090119059		
	170090119064		
G_10	170090119004	Dynamic Memory Management : Dynamic memory allocation Introduction to Dynamic memory allocation, malloc, Calloc	8
	170090119007		
	170090119025		
	170090119032		
G_11	170090119085	File management : Introduction to file management and its functions	9
	170090119093		
	170090119101		
G_12	170090119001	Control structure in 'C' : Simple statements, Decision making statements, goto statement, Looping statements, Nesting of control structures, break and continue	3
	170090119013		
	170090119040		
	170090119090		
	170090119100		

Faculties Prof. Vishruti Desai  
Prof. Ronak Ahir