Course Code: 10	02 Introduction to Programming	Credits: 04	Marks	: 100
	using 'C'			al-20 External-80)
Course Outcomes After Completion of this course the student will be able to -  1. Able to implement the algorithms and draw flowcharts for solving Mathematical problem.  2. Ability to design and develop Computer programs, analyzes, and interprets the concept of pointers, declarations, initialization, operations on pointers and their usage.  3. Able to define data types and use them in simple data processing applications also he/she must be able to use the concept of array of structures and file Handling.  4. Develop confidence for self education and ability for life- long learning needed for computer language.				
Unit No.	Descriptions			No. of Periods
I	Statement, Built- In Standard Structure, Vim Editor, writing Compilation and Execution of Specifies and Escape Sequences Control Statements and Arrays  Branching Statements -Introduct	em(Ubuntu) and alysis, Algorithm f errors in  laration, Input d Library, C g the First 'c' F of C Program, tion, if statement	at/output Program Program, Format	15
	else statement, Nested If-else, Son Definition of Loop.  Types of looping statement.  Difference between while loop at Loop control Statement (break, or Infinite Loop.  Definition and declaration of arrows of Array.  Types of Arrays  Initialization of array.  Memory representation of array.  Single Dimensional Array,  Two Dimensional Array,  Predefined String functions.	and do—while L continue),. ay.		

III	Functions and Pointers	15
	<ul> <li>Definition, declaration, prototype of function</li> </ul>	10
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	• Local and global variable,	
	User defined functions	
	Recursion, Storage classes.	
	Pointer Definition and Declaration,	
	Pointer Initialization,	
	Pointer arithmetic.	
	Arrays of Pointers,	
	<ul> <li>Pointers and One and two dimensional Arrays,</li> </ul>	
	<ul> <li>Call by value and call by reference</li> </ul>	
	Dynamic Memory Allocation	
IV	Structures and File Handling	15
	<ul> <li>Definition and declaration of structure,</li> </ul>	
	Nested Structure, Array of structures, structure pointer,	
	<ul> <li>passing structure to function, self- referential structure,</li> </ul>	
	Definition and declaration, of union	
	Difference between Structure and Union	
	Concept of File ,Text and binary mode files, Opening	
	and closing files-fopen() and fclose(),	
	• File opening mode- read, write, append ,reading and	
	writing string function gets(),puts(), getw(),putw().	
	Formatted input, output-fscanf().fprintf(),fseek(),	
	rewind(), ftell().	
	Books Recommended:	
	1. The C Programming Language- By Brian W	
	Kernighan and Dennis Ritchie	
	2. C Programming by E. Balgurusamy.	
	3. The GNU C Programming Tutorial -By Mark Burgess	
	4. Let us C- By Yashwant Kanetkar	