

GANPAT UNIVERSITY																
FACULTY OF MANAGEMENT STUDIES																
Programme		Bachelor of Business Administration				Branch/Spec.		Business Analytics								
Semester		II				Version		1.0.0.0								
Effective from Academic Year			2025-26			Effective for the batch Admitted in			July 2025							
Subject code		BBUA102		Subject Name		Introduction to C Programming										
Teaching scheme						Examination scheme (Marks)										
(Per week)	Lecture (DT)		Practical (Lab.)		Total		CE	SEE	Total							
	L	TU	P	TW												
Credit	02	00	02	00	04	Theory	25	25	50							
Hours	02	00	04	00	06	Practical	25	25	50							
Pre-requisite:																
None																
Objective:																
• Understand basic programming constructs so students can easily switch over to any other language in future.																
Learning Outcome/Course Outcome:																
CO1- Read, understand and trace the execution of programs written in C language.																
CO2- Write the C code for a given algorithm.																
CO3- Implement Programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor.																
CO4- Write programs that perform operations using derived data types.																
Mapping of PO-CO and PSO-CO:																
Course Outcome (CO) No.		PO-CO Mapping								PSO-CO Mapping						
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
		CO1	3	2	1	1	1	1	1	1	3	2	1	1	1	1
		CO2	3	2	1	1	1	1	1	1	3	2	1	1	1	1
		CO3	3	2	1	1	1	1	1	1	3	2	1	1	1	1
		CO4	3	2	1	1	1	1	1	1	3	2	1	1	1	1
Theory syllabus																
Unit	Content														Hrs	
1	Fundamental of Algorithms: Introduction, Algorithm Development Method, Algorithms for basic human general activities focused to understand basic steps, Basic number and arithmetic Operation, Looping & Control flow statements, Series computation, Introduction to flowchart, Symbols for input/output, Processes, Decision, Begin/End, Representation of algorithms by Flowchart.														15	
2	Overview of C: Brief history of C, Importance of C, Features of ‘C’ language, Basic Structure of C Programs, Programming Style, Steps to execute ‘C’ Program, Understanding the terminologies: Source Program, Object Program, Executable Program, Linker, Loader, Debug, Compilation process, Interpreter. Constants, Variables and Data Types: Character set, C tokens, keywords and identifiers, constants, variables, data types, declaration of variables, assigning value to variable, defining symbolic constants.														15	
3	Operators and Expression: Operators - arithmetic, relational, logical, assignment, increment-decrement, conditional, bit-wise and special, Arithmetic expressions, evaluation of expressions, precedence of arithmetic operators, type conversions in expressions, operator precedence and associativity, mathematical functions. Managing Input and Output Operators: Reading and writing a character formatted input-output.														15	
4	Decision Making and branching: Decision making with IF statement, simple IF statement, the IF-ELSE statement, nesting of IF ... ELSE statements, the ELSE IF ladder, Switch statement, turnery (? :)operator, Go-To statement. Looping: Looping statements: WHILE, DO-WHILE and FOR, Nesting and Jumps in loops, Break& Continue														15	
Exam: Theory 50%, Practical 50%																
Text Books																
Let us C –Yashwant Kanetkar, BPB publication																