



BBA-ITM
Semester - II

Course Code	UM02MABBI02	Title of the Course	Programming Using C Language
Total Credits of the Course	04	Hours per Week	04

Course Objectives	1. To learn concepts of flowchart & algorithm.
	2. Students will be able to develop logics which will help them to create programs, basic applications in C
	3. Control the sequence of the program and give logical outputs
	4. Ability to work with Arrays of complex objects.
	5. Implement strings in C program.

Course Content		
Unit	Description	Weightage (%)
1.	Computer Languages, Flowcharts and Algorithms Introduction to Computer Languages with Examples - Types of Computer Languages - What are translators? Interpreters, Compilers & Assembler - Turbo C Editor Details - Algorithm, Flowchart, Definition, Introduction, Advantages, Disadvantages, Symbols used in Flowcharting, Algorithm & Flowchart examples based on : Simple problems (operations), Decision making concepts, Looping Concepts.	25 %
2.	Programming Basics General Structure Of C Program - Character Sets, Variables, Keywords, Constants, Symbolic Constants - Basic Data Types: Int, Char, Float - Basic Operators: Arithmetic, Relational, Logical, Assignment, Shorthand Assignment, Conditional, Increment, Decrement - I/P Functions: Scanf(), Getchar(), Getch(), Gets(), Puts() - O/P Functions: Printf(), Puchar(), Clrscr() - Precedence & Associativity Of Operators - Problems Based On Above Topics	25 %
3.	Decision Making and Looping Concepts Decision Making Statements: Simple IF Statement, If-Else Statement, Nested If Statement, If-Else Ladder, Switch Statement, Conditional Operator - Looping Structures: For Statement, While Statement - Problems Based On Above	25 %
4.	Advanced Programming Concepts Concept of Array, Creating, initializing and working with 1-D arrays - String functions.	25 %





Teaching- Learning Methodology	Information and Communication Technology (ICT) in education is the mode of education that use information and communications technology to support, enhance, and optimise the delivery of information.
---	--

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes	
1.	Able to implement algorithms and draw flowcharts for solving mathematical and logical problems.
2.	Able to design and develop basic C programs.
3.	Develop confidence for self education and ability for life-long learning needed for computer language.

Suggested References	
Sr. No.	References
1.	E Balaguruswami: Programming in ANSIC ,McGraw Hill Education India Private Limited
2.	Yashwant Kanetker: Let Us C(BPB publication)

On-line resources to be used if available as reference material
On-line Resources
1. https://www.w3schools.in/c-tutorial/ 2. https://www.tutorialspoint.com/cprogramming/index.htm

