

SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25)
Syllabus with effect from the Academic Year 2021-2022

Bachelor of Business Administration
BBA (ITM) Semester (II)

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| Course Code | UM02CBB174 | Title of the Course | Programming Using C Language |
| Total Credits of the Course | 03 | Hours per Week | 03 [THEORY] + 03 [PRACTICAL] = 06 |

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| Course Objectives: | <ol style="list-style-type: none"> 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. Ability to work with Arrays of complex objects as well as characters and strings. |
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| Course Content | | |
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| 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 % |



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| 4. | Advanced Programming Concepts Concept of Array, Creating, initializing and working with 1-D arrays - String functions. | 25 % |
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| 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. |
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| Evaluation Pattern | | |
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| Sr. No. | Details of the Evaluation | Weightage |
| 1. | Internal Written / Practical Examination (As per CBCS R.6.8.3) | 15% |
| 2. | Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3) | 15% |
| 3. | University Examination | 70% |

| Course Outcomes: Having completed this course, the learner will be able to | |
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| 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: | |
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| Sr.No. | References |
| 1. | E Balaguruswami: Programming in ANSI C ,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 | |

