



Bachelor of Business Administration
B.B.A (ISM) Semester-II

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| Course Code | UM02 MABBS 02 | Title of the course | C Programming |
| Total Credits of the course | 4 | Hours per week | 4 |

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| 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. Ability to work with Arrays of complex objects as well as characters and strings. |
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| Course Content | | |
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| Units | Description | Weightage |
| Unit – 1 | Concept of Algorithm & flow Chart: Basic Algorithm & flow chart Definition Symbols used to draw flow chart, Typical examples of the flow chart and Algorithm, Introduction to Computer Languages , Types of computer Language, Definition of translators and types, Interpreters, Compilers & Assembler. | 25% |
| Unit – 2 | Basic Programming Concept: General Structure Of C Program, Character Sets, Variables, Keywords, Constants, Symbolic Constants, Basic Data Types Like Int, Char, Float, Double, Basic Operators: Arithmetic, Relational, Logical, Assignment, Shorthand Assignment, Conditional, Increment, Decrement, I / P Functions: Scanf(), Getchar(), Getch(), O / P Functions: Printf(), Putchar(), Clrscr(), | 25% |
| Unit -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 should be based on above topics | 25% |
| Unit-4 | Advanced Programming Concepts: What are Arrays? Creating, initializing and working with 1-D arrays, String functions, User-defined functions, Structures and unions. | 25% |

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| Teaching-Learning Methodology | <ul style="list-style-type: none"> ➤ White Board ➤ Presentation ➤ Video ➤ Case Study |
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SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.11)
Syllabus with effect from the Academic Year 2023-2024

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

| Course Outcomes | |
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| 1 | Understand the basic concepts and applications of the Internet and World Wide Web. |
| 2. | Apply relevant Internet knowledge to enhance their understanding of Other networking situations. |
| 3. | Use current Internet Technology necessary for daily life application. |

| Suggested References | |
|-----------------------------|---|
| Sr.No | References |
| 1 | E Balaguruswami : Programming in ANSI C |
| 2 | Yashwant Kanetker - Let Us C |
| 3 | The Art of Programming Through Flowcharts & Algorithms By Anil Bikas Chaudhuri 2005 |

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| 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 |
| 3. https://www.w3schools.com/c/c_intro.php |
| 4. https://www.tutorialspoint.com/cprogramming/cprogramming_pdf |
| 5. https://www.cprogramming.com/ |
| 6. https://www.geeksforgeeks.org/introduction-to-algorithms/ |
| 7. https://www.researchgate.net/publication/334708010_Fundamentals_of_Algorithm |
| 8. https://asq.org/quality-resources/flowchart#:~:text=A%20flowchart%20is%20a%20picture,process%2C%20or%20a%20project%20plan.. |
| 9. http://www.tmv.edu.in/pdf/distance_education/bca%20books/bca%20ii%20sem/bca-222%20%27c%27%20%27programming.pdf |

