



B.COM. SEMESTER – 2		
3	MINOR 2	BUSINESS COMPUTER SCIENCE – 2 (PROGRAMMING IN C LANGUAGE)

Name of the Course: **Business Computer Science – 2
(Programming in C Language)**

Course credit: **03 + 01 = 04**

Teaching Hours: **Theory 45 (Hours) + Practical 30 (Hours)**

Total marks: **100**

Distribution of Marks: **50 Marks semester end theory examination
25 Marks semester end practical examination
25 Marks Internal assessments of theory (Unit:1 to 5)**

Objectives:

1. To enable students to write nesting of control statements program using C language.
2. To teach students the importance of structured programming.
3. To enable students to use the concept of arrays, and UDF in C programming.

Learning Outcomes:

After completion of the course, learners will be able to:

1. Understand Nesting of Control Statements;
2. Understand and apply the concepts of Array and User Defined Function in C language
3. Analyze and debug Array and UDF programs written in C language

Unit No. 1 to 5 -> Theory of 70 Marks Unit No. 6 -> Practical of 30 Marks

PARTICULAR	NO. OF LECTURES
UNIT NO. 1 : DECISION STATEMENTS	
- if ... else, Nesting of if ... else, else if ladder sequence - switch (case, default)	12
UNIT NO. 2 : LOOPING STATEMENTS	
- for, while, do ... while, and Nesting of loops - Other statements: go to & label, break, continue	12
UNIT NO. 3 : ARRAY	
- Requirement of an array - Single dimension array - Two dimension array	12
UNIT NO. 4 : LIBRARY FUNCTIONS	
- Character testing/conversion Functions: isalpha(), isdigit(), isalnum(), isupper(), islower(), isprint(), isspace(), toupper(), tolower() - String handling Functions: strlen(), strcpy(), strcat(), strcmp(),strupr(), strlwr(), strrev()	12
UNIT NO. 5 : USER DEFINED FUNCTIONS	
- Requirement of user defined function - No argument and No return value - Argument and No return value - Argument and Return value	12
UNIT NO. 6 : PRACTICAL	
Practical Exercise of Unit 1 To 5 (In C Language)	60
Total Lectures	60 + 60





Theory Question Paper Style

UNIVERSITY EXAMINATION		
Sr. No.	Particulars	Marks
1	QUESTION - 1 (From Unit 1) (OR) QUESTION - 1 (From Unit 1)	10
2	QUESTION - 2 (From Unit 2) (OR) QUESTION - 2 (From Unit 2)	10
3	QUESTION - 3 (From Unit 3) (OR) QUESTION - 3 (From Unit 3)	10
4	QUESTION - 4 (From Unit 4) (OR) QUESTION - 4 (From Unit 4)	10
5	QUESTION - 5 (From Unit 5) (OR) QUESTION - 5 (From Unit 5)	10
Total Marks		50

Credit:

- 1 lecture = 1 hour = 1 credit and 2 practical = 2 hours = 1 credit
- Total 45 hours of theory teaching work per semester and additional 30 hours of practical per semester.
- Theory 3 Hours/week = 3 credits and additional practical 2 hours/week = 1 credits. Total credit is 4.

Examination:

- Theory Examination - Total marks 75 (50 marks of university examination and 25 marks of internal).
- University examination: 2 Hours
- Practical Examination - Total Marks 25 (No Internal Marks)
- University Examination: 2 Hours

Passing Standard:

- Student must obtain minimum 40% marks in theory and practical both
- Theory: Minimum 40% (minimum 20 marks in University examination and minimum 10 marks in internal)
- Practical: Minimum 40% (Minimum 10 marks in University examination)

Suggested Readings:

1. Programming C By Balagurusamy
2. Programming C By Yashwant Kanitkar

Note: Learners are advised to use latest edition of books

