

C. U. SHAH UNIVERSITY, WADHWAN CITY.

Faculty of: Computer Science

Course: Bachelor of Computer Applications

Semester: I

Subject Code: CAE201-1C

Subject Name: C LANGUAGE FOR PROGRAMMING

S				Teachin g hours/ Week			Cradi	Evaluation Scheme/ Semester									
-	Categor y	Subjec t Code	Subject Name	T h	Tu			Credi Theory t Point S Continuous and Comprehensive Evaluation		End Semester Exams				Practical End Semester Exams		Tota	
									Mark s	Activity	Mark s	Duratio n	Mark s	Duratio n	Mark s	Duratio n	1
3	MINOR	CAE20 1-1C	C LANGUAGE FOR PROGRAMMI NG	3	-	2	5	4	10 10 05	Assignme nt MCQ Attendan ce	50	2	25	1	-	-	100

Aim: At the end of the syllabus, Student can develop a various types of program using c language.

• Unit -1 : Introduction (6 Lectures)

- [a] Introduction to machine, assembly and higher level language.
- [b] Flowcharts/algorithms.
- [c] History of C, Structure of C, C Tokens.
- [d] Syntax and Semantic errors.
- [e] Variables and Data Types.

• Unit -2: Operators and Expressions

(5 Lectures)

- [a] Arithmetic expressions.
- [b] Type Conversion.
- [c] Types of operators.
- [d] Logical expressions.
- [e] Introduction to conditional branching

• Unit -3: Branching and Looping

(8 Lectures)

- [a] Types of Conditional branching.
- [b] Iterative loops.

• Unit -4: Arrays

(6 Lectures)

- [a] Arranging things using: Arrays.
- [b] Types of arrays.

• Unit -5 : String (6 Lectures)

- [a] Character Arrays and strings.
- [b] Predefined Functions used in string operations.

• Unit -6: Structure and Pointer

(8 Lectures)

- [a] Introduction to User Define functions
- [b] Categories of User define functions.
- [c] Functions and parameter passing by values.

• Unit -7: User Define Functions

(6 Lectures)

- [a] Introduction and initialization of structure.
- [b] Introduction and initialization of pointers.
- [c] Pointers and arrays.

Arrangement of lectures duration and practical session as per defined credit numbers:

Units	Jnits Lecture Duration (In Hrs.))	Total Lecture Duration	Credit Calculation	
	Theory	Practical	Theory	Practical	Theory +	Theory +	
					Practical	Practical	
Unit 1	6	3			9		
Unit 2	5	3			8		
Unit 3	8	4			12		
Unit 4	6	5	3	1	11	4	
Unit 5	6	5			11		
Unit 6	Unit 6 8				13		
Unit 7	6	5			11		
Total	45	30	3	1	75	4	

Evaluation:

Theory Marks	Practical Marks	Total Marks
75	25	100

Reference Books:

- 1. Programming in Ansi C, by E Balagurusamy, Publisher: McGraw Hill Education India, ISBN-13: 978-1259004612
- 2. C: The Complete Reference, by Herbert Schildt, Publisher: McGraw Hill Education (India), ISBN-13: 978-0070411838
- 3. Let Us C, by Yashavant Kanetkar, Publisher: BPB, ISBN-13: 978-8183331630