



C.U.SHAHUNIVERSITY, WADHWAN CITY.

Faculty of: **Computer Science**

Course: **Bachelor of Science Information Technology**

Semester: **I**

Subject Code: **ITE201-1C**

Subject Name: **C LANGUAGE FOR PROGRAMMING**

Sr. No	Category	Subject Code	Subject Name	Teaching hours/ Week			Credits	Credits	Evaluation Scheme/ Semester								Total					
				Th	Tu	Pr			Theory				Practical									
									Continuous and Comprehensive Evaluation		End Semester Exams		Internal Assessment		End Semester Exams							
									Marks	Marks	Marks	Duration	Marks	Duration	Marks	Duration						
3	MINOR	ITE201-1C	C LANGUAGE FOR PROGRAMMING	3	-	2	5	4	10	10	05	Assignment	MCQ	Attendance	50	2	2	5	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] Arrangingthingsusing:Arrays.
[b] Typesofarrays.
- **Unit -5 : String** (6 Lectures)
[a] CharacterArraysandstrings.
[b] PredefinedFunctionsusedinstringoperations.
- **Unit -6 : Structure and Pointer** (8 Lectures)
[a] IntroductiontoUserDefinefunctions
[b] CategoriesofUserdefinefunctions.
[c] Functionsandparameterpassingbyvalues.
- **Unit -7 : User Define Functions** (6 Lectures)
[a] Introductionandinitializationofstructure.
[b] Introductionandinitializationofpointers.
[c] Pointersandarrays.

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

Units	Lecture Duration (In Hrs.)		Calculation of Credits (In Numbers)		Total Lecture Duration	Credit Calculation
	Theory	Practical	Theory	Practical	Theory + Practical	Theory + Practical
Unit 1	6	3	3	1	9	4
Unit 2	5	3			8	
Unit 3	8	4			12	
Unit 4	6	5			11	
Unit 5	6	5			11	
Unit 6	8	5			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