# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
# CHHATTISGARH INSTITUTE OF TECHNOLOGY, JASHPUR (C.G.)

### LESSON PLAN SESSION JAN – JUN 2025

SUBJECT: **PROGRAMMING IN C**          SEMESTER: **2ND**          BRANCH: - **COMPUTER SCIENCE & ENGINEERING**

| UNIT NUMBER | NAME OF THE TOPIC | NO OF CLASS REQUIRED | REMARK |
|---|---|---|---|
| **Unit 01: Introduction to C Programming** | 1.1 Program logic development using Algorithm and Flowchart | 02 | |
| | 1.2 Algorithm Development and writing algorithm using pseudo Codes | 02 | |
| | 1.3.1 Basic structure of 'C' Program 1.3.2 Data concepts- token,keywords, identifiers, constants, variables and its declaration | 02 | |
| | 1.4Data Types and Operators in 'C' | 02 | |
| | 1.5 Input/Output Functions in 'C' | 02 | |
| | 1.6 Doubt class | 01 | |
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| **Unit 02: Decision making and branching statements** | 2.1 Introduction to decision-making statements in 'C' | 02 | |
| | 2.2 IF statement and ELSE IF Ladder | 02 | |
| | 2.3 Nested IF statements and Switch Statement | 02 | |
| | 2.4 The ? : Operator and GOTO statement | 02 | |
| | 2.5 Doubt and class | 01 | |
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| **Unit 03: Structured loop control statements** | 3.1 Introduction to structured loop control statements | 02 | |
| | 3.2 WHILE and DO...WHILE Statements | 02 | |
| | 3.3 The FOR statement and BREAK, CONTINUE statements | 03 | |
| | 3.4 Doubt class | 01 | |
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| **Unit 04: User defined function** | 4.1 Concepts and need of functions, 4.2 Library functions | 02 | |
| | 4.3 Math functions, String handling functions | 02 | |
| | 4.4 Miscellaneous functions and Function implementation | 01 | |
| | 4.5 Doubt class | 01 | |
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| **Unit 05: Single Dimensional Array in C** | 5.1 Declaring and initializing One-Dimensional Array | 02 | |
| | 5.2 Array Operations - Insertion, Searching, Deletion | 02 | |
| | 5.3 String operations and Concatenation of strings | 01 | |
| | 5.4 Doubt class | 01 | |
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| | Total Class Required | 40 | |

Lecturer Name & Sign: -  MANISH DONGRE
LECTURER, CSE, GPJ