

SUBJECT : Programming for Problem Solving

Semester From Date:01.07.2026 To Date: 05.11.2026

LESSON PLAN for GROUP A

Prepared by: Udaya Meher, Lecturer Stage-I, ETC

COURSE OUTCOMES (COs):

- CO1: Illustrate problem solving using fundamentals of C programming language.
- CO2: Apply appropriate Control structures to solve problems using C programming.
- CO3: Demonstrate concept of Arrays and Strings in C programming language.

CO-PO MAPPING:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	3	3					
CO2		3	3				
CO3			3	3			

WEEKLY LESSON PLAN:

Week	Class Day	Practical Topic	CO
1	1st	C Programming: History, Basic Structure, Constants, Variables, Data Types	CO1
2	1st	C Programming: Input/Output Operations, Operators and Expressions	CO1
3	1st	C Programming: Decision Making - IF, IF-ELSE, Switch Case	CO2
4	1st	C Programming: Looping - While, Do-While, For statements	CO2
5	1st	C Programming: One-dimensional and Two-dimensional Arrays	CO3
6	1st	C Programming: Strings and String Functions (strlen, strcpy, strcat, strcmp)	CO3
7	1st	C Programming: User Defined Functions - Declaration, Calling, Parameters	CO4
8	1st	C Programming: Recursion, Pointers - Call by reference/value	CO4
9	1st	MATLAB Programming: Basics, Vector array, Matrices, Eigen values	CO5
10	1st	MATLAB: Matrix operations, Indexing, Mathematical operations on array	CO5
11	1st	MATLAB: Array types, Loops, M-files, Scripts and functions	CO5
12	1st	MATLAB: Plotting, Programming output, Simulink introduction	CO5
13	1st	MATLAB Simulink: Libraries and Practice Examples	CO5
14	1st	Mixed Practice: C Programming and MATLAB Problems	All COs
15	1st	Revision and Final Assessment	All COs

Udaya Meher
Teacher Sign 29/6/26

Dr. J. S. J. 29-06-26
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SUBJECT : Programming for Problem Solving

Semester From Date: 01.07.2026 To Date: 05.11.2026

LESSON PLAN for Group B

Prepared by: Udaya Meher, Lecturer Stage-I, ETC

COURSE OUTCOMES (COs):

- CO1: Illustrate problem solving using fundamentals of C programming language.
- CO2: Apply appropriate Control structures to solve problems using C programming.
- CO3: Demonstrate concept of Arrays and Strings in C programming language.

CO-PO MAPPING:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	3	3					
CO2		3	3				
CO3			3	3			

WEEKLY LESSON PLAN:

Week	Class Day	Practical Topic	CO
1	1st	C Programming: History, Basic Structure, Constants, Variables, Data Types	CO1
2	1st	C Programming: Input/Output Operations, Operators and Expressions	CO1
3	1st	C Programming: Decision Making - IF, IF-ELSE, Switch Case	CO2
4	1st	C Programming: Looping - While, Do-While, For statements	CO2
5	1st	C Programming: One-dimensional and Two-dimensional Arrays	CO3
6	1st	C Programming: Strings and String Functions (strlen, strcpy, strcat, strcmp)	CO3
7	1st	C Programming: User Defined Functions - Declaration, Calling, Parameters	CO4
8	1st	C Programming: Recursion, Pointers - Call by reference/value	CO4
9	1st	MATLAB Programming: Basics, Vector array, Matrices, Eigen values	CO5
10	1st	MATLAB: Matrix operations, Indexing, Mathematical operations on array	CO5
11	1st	MATLAB: Array types, Loops, M-files, Scripts and functions	CO5
12	1st	MATLAB: Plotting, Programming output, Simulink introduction	CO5
13	1st	MATLAB Simulink: Libraries and Practice Examples	CO5
14	1st	Mixed Practice: C Programming and MATLAB Problems	All COs
15	1st	Revision and Final Assessment	All COs

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