



Department of Basic Sciences and Humanities

Teaching, Learning & Assessment Tool Plan for Lecture

Name of Faculty: Mrs.Atpadkar S.S.

Subject: PPS

Semester: ODD

Academic Year: 2024-25

Class: FY

Planned Duration: 23/09/2024 to 11/01/2025

Course outcome: After successfully completing the course students will be able to-

CO1: Apply fundamental Laws of Engineering Mechanics (L3)

CO2: Apply Conditions of static equilibrium to analyze given force system (L3)

CO3: Determine the reactions at supports and apply the method of joints to analyze simple plane trusses (L3)

CO4: Compute the motion characteristics of a body/particle for a Rectilinear Motion (L3)

CO5: Know and discuss relation between force and motion characteristics (L2)

Sr. No.	Content	Duration	Planned Date	Conducti on Date	COs to fulfill	Teachin g model	Teachin g activity	Teachin g materia l	Referenc es	Student activity	Student Learnin g material	Assessment tool
01	Module - 1 Fundamental of the Computer and Computing Concepts Generation of computers, Classification of computers	1Hr				Smart Board-Vedios, Chalk & Talk	Explain	Notes	R1,R2	Learn, Understand	Referenc e Books / Question Bank	Tutorials / Unit Test
02	Basic Anatomy of Computer System, Input Devices,	1Hr				Smart Board-Vedios, Chalk & Talk	Explain	Notes	R1,R2	Learn, Understand	Referenc e Books / Question Bank	Tutorials / Unit Test
03	Processor, Output Devices, Memory Management	1Hr				Smart Board-Vedios	Explain	Notes	R1,R2	Learn, Understand	Referenc e Books / Question Bank	Tutorials / Unit Test

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						,Chalk & Talk						
04	Types of Computer Software, Overview of Operating system	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Referenc e Books / Question Bank	Tutorials / Unit Test
05	Editing, Compiling, Error Checking, executing, testing and debugging of programs.	1Hr				Smart Board-Laptop ,Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Referenc e Books / Question Bank	Tutorials / Unit Test
06	IDE commands. Eclipse for C Program development, basic of Flowcharts and Algorithms.	1Hr				Smart Board-Laptop, Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Referenc e Books / Question Bank	Tutorials / Unit Test
07	Module - 2 Types, Operators and Expressions: C Tokens, Data types, sizes, initialization and declarations	1Hr				Ppt,Chal k & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Referenc e Books / Question Bank	Tutorials / Unit Test
08	arithmetic operators, relational and logical operators	1Hr				Chalk & Talk	Explain	Notes	R1,R2	Learn, Understand	Referenc e Books / Question Bank	Tutorials / Unit Test
09	increment and decrement operators, bitwise operators.	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Referenc e Books / Question Bank	Tutorials / Unit Test

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10	assignment operators and expressions, conditional expressions	1Hr				Chalk & Talk	Explain	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
11	precedence and order of evaluation, type conversions.	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
12	Module - 3 Control Flow Statements and Blocks: If-else, if-else ladder,	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
13	nested if-else, switch-case, Loops: while	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
14	for, do-while, break, continue, goto and Labels.	1Hr				Chalk & Talk	Explain	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
15	Functions and Program Structure: Basic of functions, In build functions	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
16	user defined functions, function returning various data types	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
17	external variables scope rules.	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test

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18	Module- 4 Arrays and Pointers in C Initializing arrays, initializing character arrays	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
19	multidimensional arrays	1Hr				Chalk & Talk	Explain	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
20	Pointer: Definition and uses of pointers	1Hr				Chalk & Talk	Explain	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
21	Pointers to integers, characters	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
22	Pointers to floats, arrays.	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
23	More programs on Pointers	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
24	Module — 5 Structures in C and File Management Basics of structures, structures and functions arrays of structures	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
25	Pointers in structures.	1Hr				Chalk & Talk	Explain	Notes	R1,R2	Learn, Understand	Reference Books /	Tutorials / Unit Test

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											Question Bank	
26	More programs on structures	1Hr				Chalk & Talk	Explain	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
27	Introduction to File Management: Defining and Opening File	1Hr				Chalk & Talk	Explain	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
28	Closing File, Input/output Operations on File.	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
29	More Programs on file Management	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test
30	Revision	1Hr				Chalk & Talk	Explain & Solve	Notes	R1,R2	Learn, Understand	Reference Books / Question Bank	Tutorials / Unit Test

Reference Books

R1. Bhavikatti S. S., Rajashekarappa K. G., —Engineering Mechanics, New Age International Publications, 2nd Edition.

R2. Khurmi.- Engineering Mechanics

R3. S. Timoshenko, D. H. Young, —Engineering Mechanics, McGraw Hill, 1995.

Name and Signature:

Role:

Date:

Faculty

(Prepared By)

Academic Coordinator

(Reviewed by)

HOD

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