

## 25CV104: Departmental Workshop (Civil)

<b>w. e. f. Academic Year:</b>	<b>2025-26</b>
<b>Semester:</b>	<b>1/2</b>
<b>Category of the Course:</b>	<b>Engineering Science</b>
<b>Prerequisite:</b>	Zeal to learn the subject
<b>Rationale:</b>	Department Workshop can serve as a valuable educational resource, offering explanations, guidance, and support across various aspects of civil engineering., educators can enhance student engagement and understanding, bridging the gap between theoretical knowledge and practical application.

### Course Outcomes:

After Completion of the Course, Student will able to:

	<b>Course Outcome (CO)</b>	<b>RBT Level (Cognitive Domain)</b>
CO1	Understand and demonstrate the correct use of measuring instruments	Understand / Apply
CO2	Analyze and construct various brick bonds for wall panel creation	Understand/ Analyse
CO3	Apply principles of architectural planning to design residential bungalows	apply/ Create
CO4	Evaluate spatial requirements and design effective toilet layouts	Evaluate/ Create
CO5	Understand and apply fundamental plumbing principles in building planning	Understand / Apply
CO6	Integrate planning, bonding, and service systems to produce a coordinated building layout	Create

### Teaching and Evaluation Scheme:

<b>Teaching Scheme</b>					<b>Examination Scheme</b>				
<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>Hrs/Week</b>	<b>IE</b>	<b>Theory</b>	<b>CIA</b>	<b>Practical</b>	<b>Total Marks</b>
-	-	02	01	02	-	-	30	20	50

IE: Internal Evaluation

Theory: Theory Exam (End Semester)

CIA: Continuous Internal Assessment

Practical: Practical Exam (End Semester)

### List of Practical:

<b>Sr. No.</b>	<b>Title</b>	<b>Hours</b>
1.	Setting out of a Room: The student should set out a building (single room only) as per the given building plan using tape only.	4
2.	Construct a wall using plumb bob for different types of bonds.	6

3.	Perform the lineout activity on the site for the given type of foundation work	4
4.	Draw with scale: Plan of their own house.	4
5.	Planning of Toilet for house and any one public building (Group activity)	4
6.	Planning of plumbing and Electrification in 2 BHK Bungalow	4
7.	Collect brochure of residential building, study the plan	4
Total Hours		30

### Text/ Reference Books:

1. Introduction to civil Engineering by Bhogayata, Shah &Vora – Tata McGraw hill.
2. Surveying Vol. I by B.C. Punamia.
3. Building construction by B.C. Punamia.
4. Building Material by S.C.Rangwala.

### Course Outcomes Mapping:

CO	Course Outcome (CO)	POs/PSOs Mapped	Cognitive Level (RBT)	Knowledge Category	Lab Sessions (Hrs)
CO1	Understand and demonstrate the correct use of measuring instruments	PO1, PO5, PSO2	Understand / Apply	Procedural	4
CO2	Analyze and construct various brick bonds for wall panel creation	PO1, PO3, PO5, PSO2	Understand / Analyse	Procedural, Conceptual	6
CO3	Apply principles of architectural planning to design residential bungalows	PO2, PO3, PO6, PSO1	Apply / Create	Conceptual	6
CO4	Evaluate spatial requirements and design effective toilet layouts	PO3, PO6, PO7, PSO1	Evaluate / Create	Procedural, Conceptual	4
CO5	Understand and apply fundamental plumbing principles in building planning	PO1, PO3, PO7	Understand / Apply	Conceptual	4
CO6	Integrate planning, bonding, and service systems to produce a coordinated building layout	PO2, PO3, PO5, PO11, PSO1, PSO2,	Create	Procedural	6

**Mapping of COs with POs & PSOs:**

CO	PO												PSO	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
<b>CO1</b>	3	0	0	0	3	0	0	0	0	0	0	0	0	3
<b>CO2</b>	3	0	3	0	3	0	0	0	0	0	0	0	0	3
<b>CO3</b>	0	2	3	0	0	2	0	0	0	0	0	0	3	0
<b>CO4</b>	0	0	3	0	0	2	2	0	0	0	0	0	3	0
<b>CO5</b>	3	0	3	0	0	0	2	0	0	0	0	0	0	0
<b>CO6</b>	0	2	3	0	3	0	0	0	0	0	0	0	3	0

**3: High, 2: Medium, 1: Low**