

LABORATORY ASSIGNMENT /SHEET /JOB /PROJECT ACTIVITY PLANNING (LP)

Academic Year: 2025-26 (ODD)

Date: 15/12/2025

Institute Name: PPCOE, Karjat

MSBTE Code: 61305

Program and Code: Civil Engineering (CE)

Course Code & Abbr.: 312338(BMC)

Course Name: Building Material And Construction

Name of Faculty: Miss.Potfode A.D.

Class: CE2K

Semester: 2nd

Scheme: K

Learning Hrs. 45

● Teaching-Learning & Assessment Scheme:

Course Code	Course Title	Abbr	Course Category/s	Learning Scheme					Credits	Paper Duration	Assessment Scheme										Total Marks
				Actual Contact Hrs./Week			SLH	NLH			Theory				Based on LL & TL				Based on SL		
				CL	TL	LL					Practical				FA-PR		SA-PR		SLA		
											FA-TH	SA-TH	Total		FA-PR	SA-PR	SLA	SLA			
											Ma x	Ma x	Max	Min	Ma x	Mi n	Max	Min	Max	Min	
312338	BUILDING MATERIAL AND CONSTRUCTION	BMC	DSC	3	-	2	3	8	4	3	30	70	10 0	40	25	10	-	-	25	10	150

Abbreviations: CL- Class Room Learning, TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS – Indian Knowledge System, SLA - Self Learning Assessment
Legends: @ Internal Assessment, # External Assessment, *# On Line Examination, @\$ Internal Online Examination

● COURSE LEVEL LEARNING OUTCOMES (COS)

- CO1 - Identify relevant type of construction materials for the given type of building.
- CO2 - Use the relevant type of special purpose construction materials in the given situation.
- CO3 - Undertake the given type of building construction activity for the given component of building structure.
- CO4 - Design the relevant means of communication for the given building structure.
- CO5 - Use the relevant type of material for finishing purpose in the given situation.

COs, Practical Laboratory Learning Outcome(LLOs) & Mapping:

Pr. No	COs	LLO	Name of Experiments / Assignment / Sheet / Job/ Project Activity	Planned Date A/B/C		Actual date of Performance	Remark
				From	To		
1	CO 1	LLO 1.1	Identify minimum three available construction materials in the laboratory and prepare a report with photos/pictures/sketches including writeup on its sources and utility.	A-	A-	A-	
				B-	B-	B-	
2	CO1	LLO 2.1	Identify the grain distribution pattern of the given sample of wood material available in the laboratory and draw the various patterns to prepare concise report on it. (along and perpendicular to the grains)	A-	A-	A-	
				B-	B-	B-	

Pr. No	COs	LLO	Name of Experiments / Assignment / Sheet / Job/ Project Activity	Planned Date A/B/C		Actual date of Performance	Remark
				From	To		
3	CO1	LLO 3.1	Prepare the inspection report with relevant photographs by inspecting the three pits of foundation of a site to Identify the different types of layers of soil strata	A-	A-	A-	
				B-	B-	B-	
4	CO1	LLO 4.1	*Record the dimensions of 10 bricks to find its average dimension, weight with relevant interpretation report.	A-	A-	A-	
				B-	B-	B-	
5	CO2	LLO 5.1	*Perform field tests on given sample of brick such as- dropping, striking and scratching by nail and interpret the results obtained to decide its quality and prepare a report on it.	A-	A-	A-	
				B-	B-	B-	
6	CO2	LLO 6.1	Apply the relevant termite chemical on given damaged surface of timber and submit the observation report after one month with photos/pictures.	A-	A-	A-	
				B-	B-	B-	
7	CO2	LLO 7.1	Apply two or more coats of selected paint on the prepared base of a given wall surface for the area of 2m x 2m using relevant tools brush/rollers adopting safe practices and prepare a report on it.	A-	A-	A-	
				B-	B-	B-	
8	CO3	LLO 8.1	Prepare the cement mortar of proportion 1:3 or 1:6 using artificial sand as a special processed construction material and prepare a report on it with sketches/photos while preparation of mortar.	A-	A-	A-	
				B-	B-	B-	
9	CO3	LLO 9.1	*Assemble one and half Brick thick wall in a English Bond and prepare a report on it with pictures/photos.	A-	A-	A-	
				B-	B-	B-	
10	CO3	LLO 10.1	Assemble Brick thick wall in a Flemish Bond. (minimum 3 Course) and prepare a report on it with sketches/photos.	A-	A-	A-	
				B-	B-	B-	
11	CO3	LLO 11.1	Prepare a visit report with sketches/photos by arranging visit to stone masonry construction work.	A-	A-	A-	
				B-	B-	B-	

Pr. No	COs	LLO	Name of Experiments / Assignment / Sheet / Job/ Project Activity	Planned Date A/B/C		Actual date of Performance	Remark
				From	To		
12	CO3	LLO 12.1	Prepare a visit report with sketches/photos of construction site with respect scaffolding, formwork and centering work.	A-	A-	A-	
				B-	B-	B-	
13	CO4	LLO 13.1	*Prepare report with labelled sketches of inspected staircase components during site visit.	A-	A-	A-	
				B-	B-	B-	
14	CO4	LLO 14.1	*Prepare report with labelled sketches of inspected doors and windows components during site visit.	A-	A-	A-	
				B-	B-	B-	
15	CO5	LLO 15.1	Prepare report with labelled sketches of inspected flooring and roofing materials during site visit.	A-	A-	A-	
				B-	B-	B-	
16	CO5	LLO 16.1	*Prepare a visit report with sketches/photos by observing the process of plastering and pointing of a masonry work at construction site.	A-	A-	A-	
				B-	B-	B-	
17	CO5	LLO 17.1	Prepare a visit report with sketches/photos by observing keenly the process of painting in residential / public building.	A-	A-	A-	
				B-	B-	B-	
18	CO1 CO2	LLO 18.1	*Carry out market survey of the building materials used for Brickwork,Flooring,Plastering and Painting, available in your city & prepare a report (each of five).	A-	A-	A-	
				B-	B-	B-	
19	CO1 CO3	LLO 19.1	Prepare the site visit report of the nearby heritage structure to inspect the Civil Engineering attributes with reference to IKS.	A-	A-	A-	
				B-	B-	B-	

ASSESSMENT METHODOLOGIES/TOOLS

- **Formative assessment (Assessment for Learning)**
 - **Tests- Two unit tests of 15 marks.**
 - **For laboratory learning 25 marks**
 - **MCQs for COs Assignment**
 - **Midterm Exam**
 - **Self-learning**
 - **Term Work**

- **Summative Assessment (Assessment of Learning)**
 - **End Term Exam Theory**
 - **End semester assessment of 15 marks for laboratory learning.**
 - **End semester assessment of 30 marks through online MCQ examination.**
 - **Micro-project**
 - **Tutorial Performance**
 - **Seminar/Presentation**

Miss. Potfode A.D.

(Name & Signature of Faculty)

(Name & Signature of HOD)