



SYNERGY SCHOOL OF ENGINEERING, DHENKANAL
LAB LESSON PLAN & PROGRESS
SESSION 2026-2027 (WINTER)
DEPARTMENT OF CIVIL ENGINEERING

Discipline: Civil Engineering	Semester: 5th/Winter 2026	Name of the Faculty: Satya Prakash Rout Email: satyaprakash.13.ce.rout@gmail.com
Subject: Design of RCC Structures Lab	No. of Days/week class: 04	Start Date: 01/07/26 End Date: 05/11/26

No. of Week	No. of Lab Classes	Topics to be Taught	Date of Delivery	
			G1	G2
1st	1st	Draw the cross section, stress diagram strain diagram of single reinforced beam & Double Reinforced Beam using Auto cad Software.		
	2nd	Draw the cross section, stress diagram strain diagram of single reinforced beam & Double Reinforced Beam using Auto cad Software.		
2nd	1st	Draw the cross section, stress diagram strain diagram of single reinforced beam & Double Reinforced Beam using Auto cad Software.		
	2nd	Draw the cross section, stress diagram strain diagram of single reinforced beam & Double Reinforced Beam using Auto cad Software.		
3rd	1st	Draw the cross section, stress diagram strain diagram of single reinforced beam & Double Reinforced Beam using Auto cad Software.		
	2nd	Draw sketches of different types of column footings		
4th	1st	Draw sketches of different types of column footings		
	2nd	Draw sketches of different types of column footings		
5th	1st	Draw sketches of different types of column footings		
	2nd	Draw sketches of different types of column footings		
6th	1st	Interpret the actual RCC Structural Drawings used on site with reference to reinforcement details of various structural elements		
	2nd	Interpret the actual RCC Structural Drawings used on site with reference to reinforcement details of various structural elements		
7th	1st	Interpret the actual RCC Structural Drawings used on site with reference to reinforcement details of various structural elements		
	2nd	Interpret the actual RCC Structural Drawings used on site with reference to reinforcement details of various structural elements		
8th	1st	Interpret the actual RCC Structural Drawings used on site with reference to reinforcement details of various structural elements		
	2nd	Prepare a checklist for reinforcement provided from actual drawings used on site for various structural elements.		
9th	1st	Prepare a checklist for reinforcement provided from actual drawings used on site for various structural elements.		
	2nd	Prepare a checklist for reinforcement provided from actual drawings used on site for various structural elements.		

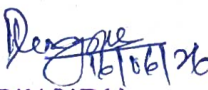
Satya Prakash Rout
11/07/26



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10th	1st	Prepare a checklist for reinforcement provided from actual drawings used on site for various structural elements.		
	2nd	Prepare a checklist for reinforcement provided from actual drawings used on site for various structural elements.		
11th	1st	Prepare a detailed report of site visit for reinforcement detailing of structural elements like beams, columns, staircase & footing		
	2nd	Prepare a detailed report of site visit for reinforcement detailing of structural elements like beams, columns, staircase & footing		
12th	1st	Prepare a detailed report of site visit for reinforcement detailing of structural elements like beams, columns, staircase & footing		
	2nd	Prepare a detailed report of site visit for reinforcement detailing of structural elements like beams, columns, staircase & footing		
13th	1st	Prepare a detailed report of site visit for reinforcement detailing of structural elements like beams, columns, staircase & footing		
	2nd	Modelling, Analysis & Design of Beam using STAAD-Pro. Software		
14th	1st	Modelling, Analysis & Design of Beam using STAAD-Pro. Software		
	2nd	Modelling, Analysis & Design of Beam using STAAD-Pro. Software		
15th	1st	Modelling, Analysis & Design of Beam using STAAD-Pro. Software		
	2nd	Modelling, Analysis & Design of Beam using STAAD-Pro. Software		


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Civil Engg. Dept.
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