

**SAMANTA CHANDRASEKHAR INSTITUTE
OF TECHNOLOGY & MANAGEMENT**
SEMILIGUDA-764 036, KORAPUT

DEPT. OF.....CIVIL ENGINEERING.....

LESSON PLAN AND PROGRESS REGISTER

(To be maintained by all members of the teaching staff)

SESSION.....2022-2023 (EVEN SEM)

NAME Manisha Mishra
DESIGNATION H.O.D
DEPT. Dept. of Civil Engg.

Manisha
SIGNATURE

LESSON PLAN

Degree/Diploma/+2 Science
(Theory/Pract/Lab/Workshop)

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
February - 14	Th1 Structural	1) Working stress Method (WSM)	
20/02/23	Design-I	1.1) objective of design and detailing. The different methods of design of concrete structure.	01
21/02/23		1.2) Introduction to Reinforced concrete, R.C. Sections their behavior, grades of concrete and steel. Permissible stresses, assumption of WSM.	01
22/02/23		1.3) Flexural design and analysis of single reinforced sections from first principle.	01
23/03/23		1.4) Concept of under reinforced, over-reinforced and Balanced sections.	01
	- do -		
24/03/23		1.5) Advantages and disadvantages of WSM, reasons for its obsolescence.	01
		2) Philosophy of Limit State Method (LSM)	
5/03/23		2.1) Definition, Advantages of LSM over WSM.	01
		2.1) IS code suggestions regarding design Philosophy	

PROGRESS

Degree/Diploma/+2 Science
(Theory/Pract/Lab/Workshop)

Date	Course No. & Title	No. of Student Present	Mention the Topics covered	If not taken mention the reasons	Remarks/ Signature of HOD/Director
	Th1 Struc-		1) Working stress Method		
20/02/23	tural Design - I	37	1.1) objectives of design and detailing. The different methods of design of concrete structure.		
21/02/23	- do -	39	1.2) Introduction to Reinforced concrete, R.C. Sections their behavior.		
22/02/23	- do -	44	1.3) Grades of concrete and steel. Permissible stresses, assumptions of WSM.		
23/02/23	- do -	36	1.4) Flexural design and analysis of single reinforced sections from first principle.		
24/02/23	- do -	38	1.4) Concept of under-reinforced, over-reinforced and balanced section.		
25/02/23	- do -	37	1.5) Advantages and disadvantages of WSM, reasons for its obsolescence.		

LESSON PLAN

Degree/Diploma/+2 Science
(Theory/Pract/Lab/Workshop)

Semester 4th Semester Branch Civil Engineering

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
→ Feb. 27/02/23	Th 1 Structural Design - I	2.2) Types of Limit States, Partial Safety factors for materials strength	01
		2.2) Characteristic strength, design load, Characteristic load, loading on structure as per IS 875.	
→ 28/02/23		2.3) Study of IS specification regarding spacing of reinforcement in slab, cover to reinforcement in slab, beam column and footing.	01
	-do-	2.3) Study of IS specification regarding minimum reinforcement in slab, beam and column, lapping, anchorage, effective span for beam & slab.	
		3) <u>Analysis and Design of Single & Double Reinforced Section (LSM)</u>	
→ 01/03/23		3.1) Limit State of Collapse (flexure) Assumptions, stress-strain rel ⁿ for concrete and steel, Neutral axis	02
→ 03/03/23		3.1) Stress block diagram and strain diagram for singly reinforced sec ⁿ	02

PROGRESS

Degree/Diploma/+2 Science
(Theory/Pract/Lab/Workshop)

Semester 4th Semester Branch Civil Engineering

Date	Course No. & Title	No. of Student Present	Mention the Topics covered	If not taken mention the reasons	Remarks/ Signature of HOD/Director
	Th 1 Structural Design - I		2) Philosophy of Limit State Method (LSM)		
→ 27/02/23	-do-	39	2.1) Definition, Advantages of LSM over WSM (in design)		
→ 27/02/23	-do-	39	2.1) IS Code suggestion regarding design philosophy		
→ 28/02/23	-do-	36	2.2) Types of Limit states, Partial safety factors for materials strength		
→ 01/02/23	-do-	35	2.2) Characteristic strength, design load, characteristic load, loading on structures as per IS 875 (briefly explained)		
→ 02/02/23	-do-	37	2.3) Study of IS specification regarding spacing of reinforcement in slab, cover to reinforcement in slab, beam column and footing.		

Principal
K. S. Srinivasan
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