

Discipline - Semester-4th Name of the teaching faculty: -
 Civil Engg No. of days / Semester from - Tarini Moharana
 Subject - SD-1 week class = 6 no. of weeks:

Weeks	Class day	Theory / practical topics
	1st	
7/03/22	2nd	
to	3rd	
12/03/22	4th	
	5th	
	6th	Objective of design & detailing
	1st	Introducing of RCC grade of concrete
14/03/22	2nd	Flexural Design & single reinforced/sec ⁿ
to	3rd	Type of sec ⁿ & its Concepts
19/03/22	4th	Adv & disadvantage of wsm
	5th	Adv & disadvantages of lsm
	6th	IS code suggestions for design
	1st	Type of load, type of limit state
21/03/22	2nd	Partial safety factor characteristic load
to	3rd	Study of IS specification for member
26/03/22	4th	stress strain relationship
	5th	stress block diagram & strain diagram
	6th	concept of under reinforced sec ⁿ
	1st	concept of over reinforced sec ⁿ
28/03/22	2nd	Neutral axis coefficient & MR
to	3rd	Limiting % of steel reinforcement R _c
02/04/22	4th	Analysis & Design constant
	5th	Moment of resistance
	6th	Area of steel for rectangular sec ⁿ
	1st	Necessity of doubly reinforced sec ⁿ
04/04/22	2nd	Design of the sec ⁿ
to	3rd	Design of doubly reinforced sec ⁿ
9/04/22	4th	Normal shear stress in RCC
	5th	shear bond & development length
	6th	Design for shear strength

theory / practical topics

class day	theory / practical topics
11/04/22	1 st day Min ⁹ shear reinforcement - d, V _h , V _h / V _h
to	2 nd day Bond & type of bond
16/04/22	3 rd day Development length of reinforcement
	4 th day Anchorage & Jolt value
	5 th day Check accuracy of the section
	6 th day Maha Vaidya Sankaranti
18/04/22	1 st day Numerical problem
to	2 nd day Analysis & design principle of T-beam
23/04/22	3 rd day Empirical factors adv of eff. width
	4 th day Design of single reinforced T-beam
	5 th day stress strain diagram
	6 th day Depth of NA, MR of T-section
	1 st day Analysis of T-beam
25/04/22	2 nd day Simple numerical problem
to	3 rd day Simple numerical problem
30/04/22	4 th day problems on deciding effective length
	5 th day problems on T-beam
	6 th day Numerical of T-beam
	1 st day Numerical of T-beam find m _r
2/05/22	2 nd day Numerical of T-beam
to	3 rd day ← 2 nd - 4 th - 5 th →
07/05/22	4 th day Numerical of T-beam
	5 th day Type of slab & its designation
	6 th day Design of one way slab
	1 st day Effective width (for deflection control)
09/05/22	2 nd day Design of edge beam slab
to	3 rd day Design of edge beam slab
14/05/22	4 th day characteristic deflection & development length
	5 th day Design of 2-way slab
	6 th day Design of simply supported slab.

theory

class days

theory / practical topics
Buddha Punjima

class day	theory / practical topics
16/05/22	1 st day Design of dog-legged stair case
to	2 nd day Design of reinforcement in stair
21/05/22	3 rd day Design of stair spacing
	4 th day Design of stair slab design
	5 th day Numerical of stair slab design
	6 th day Numerical of stair slab design
23/05/22	1 st day Column & footing Assumption of column
to	2 nd day Design of column & specification of column
28/05/22	3 rd day Specification for reinforcement of column
	4 th day Column cover, no. of bar, type of tie
	5 th day Dia & spacing of lateral bar
	6 th day Dia & spacing of axially loaded str
	1 st day Robin's Pambayya
30/05/22	2 nd day Square Column design
to	3 rd day Rectangular Column design
04/06/22	4 th day Circular Column design
	5 th day Numerical with lateral tie only
	6 th day Type of footing isolated column footing
	1 st day Design of column footing
06/06/22	2 nd day Numerical of footing
to	3 rd day Numerical of footing
11/06/22	4 th day Numerical of equal column footing
	5 th day Design of unequal column footing
	6 th day previous year question discussion.

Verdoo

21/06/22