G.P. DHANGAR (Fatehabad)			
Name of Faculty : Mr. Mohan Lal			
Discipline	: CIVIL EN	NGG.	
Semester	: 5th sem		
Subject	: RCC		
Week	Lecture No.	Topic Covered	
1	1	Introduction, concept of RCC	
	2	Reinforced material	
	3	Properties of mild steel and HYSD bar	
	4	Loading on structure	
	5	Working stress method	
2	6	Limit state method	
	7	Introduction on shear and development length	
	8	Shear on working stress method	
	9	Shear strength of concrete without shear reinforcement	
	10	Maximum shear stress	
3	11	Shear reinforcement	
	12	Numerical problems	
	13	Singly reinforced beam, basic assumption of RCC beam	
	14	Stress strain curve , neutral axis	
	15	Balanced ,under reinforced, over reinforced beam, moment of	
4	16	Design of single reinforced beam	
	17	Numerical problems	
	18	Limit state method	
	19	Partial safety factor for load and material, design loads	
	20	Stress block, parameter	
5	21	Singly reinforced beam	
	22	Theory and design of RCC Beam by limit state method	
	23	Theory and design of RCC Beam by limit state method	
	24	Numerical problems	
	25	Numerical problems	
6	26	Introduction on doubly reinforced beam	
	27	Theory and design of doubly RCC beam	
	28	Design procedure of doubly RCC beam	
	29	Numerical problems	
	30	Numerical problems	
7	31	Behavior of T-Beam	
	32	Isolated T beam	

33	Inverted T beam
34	Introduction on one way slab
35	Theory and design of simply supported one way slab by limit state
36	Theory and design of simply supported one way slab by limit state
37	Reinforcement details
38	Reinforcement details
39	Design procedure of one way slab
40	Numerical problems
41	Numerical problems
42	Numerical problems
43	Introduction on two way slab
44	Theory and design of simply supported two way slab by limit state
45	Theory and design of simply supported two way slab by limit state
46	Reinforcement details
47	Reinforcement details
48	Design procedure of two way slab in all condition
49	Numerical problems
50	Numerical problems
51	Axially loaded column
52	Classification and effective length of column
53	Numerical problems
54	Numerical problems
55	Specification of longitudinal and lateral ties
56	Design procedure of different type of column
57	Numerical problems
58	Prestressed concrete
59	Concept and method prestessing
60	Advantages and disadvantage, losses in prestress
	33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60