Department of Civil Engineering

I M.Tech II SEM, DESIGN OF SUB STRCUTURES, 2016-17

LESSON PLAN G Prasanna Kumar

Period	Date	Topic	Unit No	Teaching Methodology	Cumulative Periods
3,4	23/01/2017	Substructure Design: Introduction, Substructure -Definition and purpose	1	C.R	2
3,4	24/01/2017	Role of foundation engineers, General requirements of substructure	1	C.R	4
3,4	30/01/2017	Scope	1	C.R	6
3,4	31/01/2017	Marine Substructures: Introduction, Type of marine structures – Break waters, Wharves, Piers,	2	C.R	8
3,4	06/02/2017	Seawalls, Docks, Quay walls, Locks and moorings,.	2	C.R	10
3,4	07/02/2017	Design loads, Combined loads, Wave action,	2	C.R	12
3,4	13/02/2017	Wave pressure on vertical walls	2	C.R	14
3,4	14/02/2017	Design of break water:Ship impact on piled wharf structures, Design of breakwaters,	3	C.R	16
3,4	20/02/2017	Rouble-Mound break waters, Wall type break water,	3	C.R	18
3,4	21/02/2017	Gravity wall and anchored bulk head wharf structures,	3	C.R	20
3,4	27/02/2017	Design of piled wharf structures.	3	C.R	22
3,4	28/02/2017	Sheet Piles: Introduction, Type of sheet pile structures,	4	C.R	24
3,4	06/03/2017	Design of cantilever sheet piling wall,	4	C.R	26
3,4	07/03/2017	Design of anchored bulkheads, Anchorage methods,	4	C.R	28
3,4	13/03/2017	Design of braced sheeting in cuts, Design of cellular cofferdams.	4	C.R	30
3,4	14/03/2017	Foundations of Transmission Line Towers: Introduction,	5	C.R	32
3,4	27/03/2017	Necessary information, Forces on tower foundations,	5	C.R	34
3,4	03/04/2017	General design criteria,	5	C.R	36
3,4	04/04/2017	Choice and type of foundation,	5	C.R	38
3,4	10/04/2017	Design procedure.	5	C.R	40
3,4	11/04/2017	Example problems.	5	C.R	42
3,4	17/04/2017	Machine Foundations: Introduction,	6	C.R	44
3,4	18/04/2017	Types of foundations,	6	C.R	46
3,4	24/04/2017	Design criteria,	6	C.R	48
3,4	25/04/2017	IS code previsions,	6	C.R	50
3,4	02/05/2017	Construction details of machine foundations	6	C.R	52

3,4	05/06/2017	Design Procedure	6	C.R	54
3,4	06/06/2017	Example Problems	6	C.R	56
3,4	12/06/2017	vibration isolation	5	C.R	58
3,4	13/06/2017	Types.	6	C.R	60

NOTE: C.R- Class Room Teaching (Black board, PPT)

Signature