

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

Semester: 4th

LESSON PLAN

Subject: DESIGN OF STRUCTURE I

Session: Jan 2017 – May 2017

Theory / Sessional

Branch/Course: Architecture

Name of the Faculty Member: Er. SANCHITA BEHERA

Period	Module/ Number	Topic to be covered	Remarks/ Sign. of Faculty Member
01	1	Introduction to RCC design, ,	
02		Design Philosophies	
03		working stress and limit state method	
04		Singly reinforced beam, Analysis and Design using working stress	
05		Singly reinforced beam, Analysis and Design using limit state methods,	
06		Situations where doubly reinforced beams are used, analysis and design of doubly reinforced beam using limit state method only.	
07		analysis and design of doubly reinforced beam using limit state method only.	
08		analysis and design of doubly reinforced beam using limit state method only.	
09	2	T-beams, introduction, analysis	
10		design of T-beam using Limit state method only	
11		Design of shear reinforcement for all types of beams with and without cracking (Limit State method only),	
12		Design of shear reinforcement for all types of beams with and without cracking	
13		Design of shear reinforcement for all types of beams with and without cracking	
14	3	Slabs, Introduction	
15		Design of One way and two way reinforced slabs (simply supported, restrained, continuous) by limit state method only	
16		Design of One way and two way reinforced slabs (simply supported, restrained, continuous) by limit state method only	
17		Design of axially loaded RCC columns	
18		Design of axially loaded RCC columns and columns subjected to BM about one and two axis using limit state method only	
19		Design of axially loaded RCC columns and columns subjected to BM about one and two axis using limit state method only	
20		Design of stair case (Dog-legged only) using working stress method	
21		Design of lintels and cantilever beams and slabs using limit state method only	
22	4	Design of RCC Isolated footings for columns (Square and Rectangle), working stress method only,	
23		Design of RCC Isolated footings for columns (Square and Rectangle), working stress method only,	
24		Introduction to pre-stressed concrete, Pre-tensioning and Post-tensioning methods, Problems of beams	

Signature of the Faculty Member :

Date:

Counter Signature of H.O.D.