

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

Semester: **Third (B Tech)** LESSON PLAN Subject: **CEMC**

Session:

Theory/Sessional: **Theory**

Branch/Course: **Civil Engineering**

Name of the Faculty Member: **Dr. S. K. Panigrahi**

Period	Module /Number	Topic to be covered	Remark/Sign of the Faculty member
1	Module I	Introduction to Civil Engineering Materials	
2		Bricks: Methods of bricks manufacture	
3		Methods of bricks manufacture	
4		Testing of bricks	
5		Cement: classification of various types of cements, ,	
6		Chemical composition and hydration of cement	
7		Tests for cement	
8		Tests for cement	
9		Concrete: Composition, Water- Cement ration,	
10		Workability of concrete	
11	Module II	Masonary arches: Terms used types of arches, stability of arches	
12		Line of thrust, depth of arch at the crown	
13		Cavity walls: Purpose,	
14		Method of construction for cavity wall	
15		Stairs: Terms used, types of stairs, essential requirements	
16		Various stairs: wooden stairs, concrete stairs, metal stairs	
17	Module III	Fire resistive construction: Fire resistive construction,	
18		Fire resistance of common building materials,	
19		Protection for girders and columns	
20		Fire fighting appliances.	
21		Plastering: Materials for plastering, methods of plastering,	
22		Defects in plastering and remedy	
23		Damp prevention: causes, effects, different	
24		Methods of prevention of dampness	
25	Module IV	Types of Doors	
26		Types of Doors	
27		Types of Windows	
28		Types of Windows	
29		Painting and decoration:	

30		Ingredients of oil paint	
31		Oil painting	
32		Varnishing	
33		Enamel painting	
34		Washes and distemper,	
35		Defects in painting and remedies	
36		Glazing: Varieties of glass	
37		Decorative glass, door and window glazing.	
38		Repair of building: Annual and special repair of buildings,	
39		Maintenance of buildings, Types of cracks in Building, Types of building Joint	
40		Stone: Indian building stones, their properties and uses,	
41		Methods of stone quarrying	
42		Timber: Preservation	
43		Seasoning of timber	
44		Foundation: Brief idea on various types of foundation	
45		Various types of foundation	

Signature of the faculty member:

Date: 10/07/2015

Counter Signature of H.O.D