

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: Civil Engineering

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject with code: Design of Concrete Structures-II (CE-302-F)

Name of Faculty with designation: Gaurav Thakur (Assistant Prof.)

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
January	09.01.2018 Tuesday	VI-CE	I (Section-A)	Introduction to the subject, Application of the subject and its various units, syllabus, books to be referred, Introduction to Unit-I		Assignment of 02 Ques.
January	10.01.2018 Wednesday	VI-CE	l	Continuous Beams- Basic assumptions, moment of inertia, settlements		Assignment of 02 Ques.
January	12.01.2018 Friday	VI-CE	İ	Modification of moments, maximum moments and shear		Assignment of 02 Ques.
January	16.01.2018 Tuesday	VI-CE	I	Beams curved in plan- analysis for torsion		Assignment of 02 Ques.
January	17.01.2018 Wednesday	VI-CE	I	Redistribution of moments for single and multi-span beams, design examples		Assignment of 02 Ques.
January	19.01.2018 Friday	VI-CE	II (Section-A)	Flat Slabs: advantages of flat slabs, general design considerations, approximate direct design method (45 min.)		Class Test-1 on Unit-I (45 min. duration)
January	23.01.2018 Tuesday	VI-CE	II	Design of flat slabs- Numerical		Assignment of 02 Ques.
January	24.01.2018 Wednesday	VI-CE	II	Design of flab slabs- Numerical		Assignment of 02 Ques.
January	26.01.2018 Friday	VI-CE		Republic Day		

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January	30.01.2018 Tuesday	VI-CE	П	Design of various types of staircases		Assignment of 02 Ques.
January	31.01.2018 Wednesday	VI-CE	Guru Ravidas Birthday			
February	02.02.2018 Friday	VI-CE			Industrial Visit	
February	06.02.2018 Tuesday	VI-CE	II	Design examples of design of staircases		Assignment of 02 Ques.
February	07.02.2018 Wednesday	VI-CE	III (Section-B)	Foundations- combined footings, raft foundation (45 min.)		Class Test-2 on Unit-II (45 min. duration)
February	09.02.2018 Friday	VI-CE	III	Design of pile cap and piles		Assignment of 02 Ques.
February	13.02.2018 Tuesday	VI-CE				
February	14.02.2018 Wednesday	VI-CE	1st Sessional Examinations			
February	16.02.2018 Friday	VI-CE				
February	20.02.2018 Tuesday	VI-CE	III	Under-reamed piles, design examples		Assignment of 02 Ques.

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
February	21.02.2018 Wednesday	VI-CE	IV (Section-B)	Water Tanks, Silos and Bunkers: Estimation of wind and earthquake forces (45 min.)		Class Test-3 on Unit-III (45 min. duration)
February	23.02.2018 Friday	VI-CE	IV	Design requirements, design of rectangular underground and overhead tanks		Assignment of 02 Ques.
February	27.02.2018 Tuesday	VI-CE	IV	Design of cylindrical underground and overhead tanks		Assignment of 02 Ques.
February	28.02.2018 Wednesday	VI-CE	IV	Intz tanks, design considerations and design examples		Assignment of 02 Ques.
March	02.03.2018 Friday	VI-CE		Holi Break		
March	06.03.2018 Tuesday	VI-CE	IV	Silos and Bunkers- various theories, bunkers with sloping bottoms and with high sidewalls		Assignment of 02 Ques.
March	07.03.2018 Wednesday	VI-CE	IV	Battery of bunkers, design examples		Assignment of 02 Ques.
March	09.03.2018 Friday	VI-CE	V (Section-C)	Prestressed Concrete- Basic principles, classification of pre- stressed members, various prestressing systems (45 min.)		Class Test-4 on Unit-IV (45 min. duration)
March	13.03.2018 Tuesday	VI-CE	V	Losses in prestress, initial and final stress conditions		Assignment of 02 Ques.
March	14.03.2018 Wednesday	VI-CE	٧	Analysis and design of sections for flexure and shear, Load balancing concept, IS specifications		Assignment of 02 Ques.
March	16.03.2018 Friday	VI-CE	٧	End Blocks- analysis of stresses, Magnel's method, Guyon's method		Assignment of 02 Ques.
March	20.03.2018 Tuesday	VI-CE				
March	21.03.2018 Wednesday	VI-CE		2nd Sessional Examina	itions	
March	23.03.2018 Friday	VI-CE				
March	27.03.2018 Tuesday	VI-CE	V	Bursting and spalling stresses, design examples		Assignment of 02 Ques.
March	28.03.2018 Wednesday	VI-CE	VI (Section-C)	Building frames- Introduction, member stiffness, loads (45 min.)		Class Test-5 on Unit-V (45 min. duration)
March	30.03.2018 Friday	VI-CE	VI	Analysis for vertical and lateral loads		Assignment of 02 Ques.

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment	
April	03.04.2018 Tuesday	VI-CE	VI	Ductility of beams, Design and detailing for ductility, Design examples		Assignment of 02 Ques.	
April	04.04.2018 Wednesday	VI-CE	VII (Section-D)	Yield Line Theory- Basic assumptions, methods of analysis (45 min.)		Class Test-6 on Unit-VI (45 min. duration)	
April	06.04.2018 Friday	VI-CE	VII	Yield line patterns and failure mechanisms		Assignment of 02 Ques.	
April	10.04.2018 Tuesday	VI-CE	VII	Analysis of one way rectangular and non-rectangular slabs		Assignment of 02 Ques.	
April	11.04.2018 Wednesday	VI-CE	VII	Analysis of two way rectangular and non-rectangular slabs		Assignment of 02 Ques.	
April	13.04.2018 Friday	VI-CE	VII	Effect of top corner steel in square slabs, design examples		Assignment of 02 Ques.	
April	17.04.2018 Tuesday	VI-CE					
April	18.04.2018 Wednesday	VI-CE	Pre-University Examinations				
April	20.04.2018 Friday	VI-CE					
April	24.04.2018 Tuesday	VI-CE					
April	25.04.2018 Wednesday	VI-CE	Revision of each units or(and) completion of syllabus (if incomplete due to unforeseen conditions) will be done in these three days accompanied by class tests (including Class Test-7 on Unit VII) and assignments.				
April	27.04.2018 Friday	VI-CE					
Мау	May 01 to 10, 2018	IV-CE	External Practical Exams				
Мау	14.05.2018 Onwards	IV-CE	University Theory Examinations				
OTE: Other in	dustrial visits (which are no	t mentioned in	the session plan)	will be conducted on Saturdays due to time constraint to c	omplete the syllabus		
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