DEPARTMENT OF CIVIL ENGINEERING, OSME KEONJHAR

Lesson Plan for Winter 2022-23

Subject: *Structural Design II (5th semester)*		No. of Days/Per week class alloted: 04hrs	Name of the faculty: *Er. Lopamudra Nayak*	Semester From Date: *15-09-2022* To Date: *22-12-2022* No. of weeks: *14*
Month	Week	Date/Class Day	Periods Available	Topic To Be Covered
SEPTEMBER	1st	15-09-2022	2	***CHAPTER 1 - INTRODUCTION*** Briefing of syllabus , introduction about the subject, books required, classroom rules 1.1 common steel structire, advantages and dis advantages of steel structures,
	2nd	19-09-2022	1	1.2 Types of steel , properties of structural steel 1.3 rolled steel sections,
		20-09-2022	1	1.4 Load and load cobinations, 1.5 structural analysis and design philosophy, question answer discussion
		22-09-2022	2	***CHAPTER 2 - STRUCTURAL STEEL FASTNERS AND CONNECTIONS*** 2.1 Descripton about fastners and connections 2.1.2 bolted connection, advantages and disadvantages
	3rd	26-09-2022	1	Classification of bolts 2.1.2 Different terminologies 2.1.3 types of bolted connection
		27-09-2022	1	2.1.4 assumption and principle of design 2.1.5 strength of plates and strength of bolts in a joint
		29-09-2022	2	Numerical Practice 2.1.7 effitiency of th ejoint 2.2 introduction to welded connection
OCTOBER	4th	10-10-2022	1	2.2.1 advantages and dis advantages of welded connections 2.2.2 types of welds 2.2.3 strength of welds 2.2.4 strength of welded joints
		11-10-2022	1	Numericals on welded connection
		13-10-2022	2	Numericals practice and Question answer discussion
	5th	17-10-2022	1	***CHAPTER 3 - DESIGN OF STEEL TENSION MEMBER*** 3.1 common shapes of tension member 3.2 Maximum value o feffective slenderness ratio
		18-10-2022	1	Types of failueof tension members , design strength of tension member, slenderness artio
		20-10-2022	2	Numerical Practice
	6th	25-10-2022	1	Numericals practice
		27-10-2022	2	**Monthly test for the month of october**
		28-10-2022		**Parent Teacher Meeting**
	7th	31-10-2022	1	Revision an dQuestion answer discussion
NOVEMBER		01-11-2022	1	***CHAPTER 4 - DESIGN OF STEEL COMPRESSION MEMBERS*** Introduction to compression member 4.1 Common shapes of compression member , slenderness ratio, buckling and crippling
		03-11-2022	2	4.2 Buckling classs of compression member
	8th	07-11-2022	1	Numerical practice
		10-11-2022	2	4.3 Design compressive stress and strength of compression member
	9th	14-11-2022	1	Numerical practice
		15-11-2022	1	Question Answer discution and Revision
		16-11-2022 17-11-2022		**Internal Examination**
	10th	21-11-2022	1	***CHAPTER 5 - DESIGN OF STEEL BEAMS*** 5.1 Concept of plastic theory, shape factor, plastic section modulus
		22-11-2022	1	5.1 common cross sections and their classification
		24-11-2022	2	5.2 deflection limits, web buckling and web crippling , Design strength of laterally supported beams in shear
		28-11-2022	1	**Monthly Test for the Month of November**
	11th	29-11-2022	1	Numerical practice
		30-11-2022		**Parent Teacher Meeting**
		01-12-2022	2	Numerical practice
		05-12-2022	1	**Revision and Question answer discussion**
	12th	06-12-2022	1	***CHAPTER 6 - DESIGN OF TUBULAR STEEL STRUCTURES*** 6.1 introduction, advantages and disadvantages, permissible stresses

DECEMBER		08-12-2022	2	6.2 Tubularcompression and tension member, Numerical practice
		12-12-2022	1	6.3 connections of tubular sections and question answer discussion
	13th			*CHAPTER 7 - DESIGN OF MASONRY STRUCTURES*
		13-12-2022	1	Introduction ,Masonry units 7.1 design considerations for masonry walls and coulumns
		15-12-2022	2	Load bearing and non-load bearing walls
		19-12-2022	1	slenderness ratio, effective height, length and thickness
	14th	20-12-2022	1	Numerical practice and question answer discussion
		22-12-2022	2	Final Revision and Probable Question Answers Discussion
		TOTAL	*50*	*Model Test*

14-09-2022

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14/9/2022

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OSME, KEONJHAR

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LESSON PLAN (WINTER-2022

cipline: Civil Engg.	Semester-5th	Name of the faculty :Lopamudra nayak
bject –Pr 3. PROJECT WORK (Phase-I)	No of classes /per week class allotted: 6 hrs	Semester from date -15.09.2022 to22.12.2022 No.of weeks: 13

EK	DATE/CLASS DAY	PERIOD AVAILABLE	TOPIC TO BE COVERED
1st	15.09.2022	3	Introduction ,group creation ,topic selection for the projects
2nd	19.09.2022	3	Planning And Execution
	22.09.2022	3	Data Collection
3rd	26.09.2022	3	Data Collection
	29.09.2022	3	Case Study
4th	10.10.2022	3	Problem Analysis & Execution
	13.10.2022	3	Problem Analysis & Execution
5th	17.10.2022	3	Working On Project
	20.10.2022	3	Report Writing Skills
5th	31.10.2022	3	Seminar On The Project Topic
6th	03.11.2022	3	Working On Project
7th	07.11.2022	3	Working On Project
	10.11.2022	3	Preparation Of Project Report
8th	14.11.2022	3	Working On Project
9th	21.11.2022	3	Working On Project
	24.11.2022	3	Seminar On The Project Topic
10th	01.12.2022	3	Working On Project
11th	05.12.2022	3	Working On Project
	08.12.2022	3	Preparation Of Project Report
12th	12.12.2022	3	Verification Of Project Report
	15.12.2022	3	Modification Of Project Report
13th	19.12.2022	3	Seminar On The Project Topic
	22.12.2022	3	Final Report Submission
	TOTAL	69	

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