

DEPARTMENT OF CIVIL ENGINEERING				
Lesson Plan For Winter 2023-24 (From: 01.08.2023 To: 30.11.2023)				
Subject: Structural Design II 5th Semester			Name of The Faculty: Lopamudra Nayak No. of Days/Pr week Class Alloted: 04 hrs	
Month	Week	Date/Class Day	Periods Available	Topic To Be Covered
AUGUST	1ST	01.08.2023	2 nos.	Briefing of syllabus , introduction about the subject, books required, classroom rules CHAPTER 1 - INTRODUCTION 1.1 common steel structure, advantages and disadvantages of steel structures
		03.08.2023	1 nos.	1.2 Types of steel , properties of structural steel 1.3 rolled steel sections,
		04.08.2023	1 nos.	1.4 Load and load combinations, 1.5 structural analysis and design philosophy, Question answer discussion (Ch 1)
	2ND	08.08.2023	2 nos.	CHAPTER 2 - STRUCTURAL STEEL FASTNERS AND CONNECTIONS 2.1 Description about fasteners and connections 2.1.2 bolted connection, advantages and disadvantages, Classification of bolts
		10.08.2023	1 nos.	2.1.2 Different terminologies 2.1.3 types of bolted connection
		11.08.2023	1 nos.	2.1.4 assumption and principle of design 2.1.5 strength of plates and strength of bolts in a joint
	3RD	17.08.2023	1 nos.	Numerical Practice 2.1.7 efficiency of the joint
		18.08.2023	1 nos.	2.2 introduction to welded connection 2.2.1 advantages and disadvantages of welded connections 2.2.2 types of welds
	4TH	22.08.2023	2 nos.	2.2.3 strength of welds 2.2.4 strength of welded joints , Numericals on welded connection
		24.08.2023	1 nos.	Numericals practice and Question answer discussion (Ch 2)
		25.08.2023	1 nos.	CHAPTER 3 - DESIGN OF STEEL TENSION MEMBER 3.1 common shapes of tension member 3.2 Maximum value of effective slenderness ratio
	5TH	29.08.2023	2 nos.	Types of failure of tension members , design strength of tension member, slenderness ratio, Numerical Practice
		31.08.2023	1 nos.	Parent teacher meeting
		01.09.2023	1 nos.	Monthly Test (August)
SEPTEMBER	6TH	05.09.2023	2 nos.	Numerical Practice
		07.09.2023	1 nos.	Question Answer discussion (Ch 3)
		08.09.2023	1 nos.	CHAPTER 4 - DESIGN OF STEEL COMPRESSION MEMBERS Introduction to compression member 4.1 Common shapes of compression member , slenderness ratio, buckling and crippling
	7TH	12.09.2023	2 nos.	4.2 Buckling class of compression member
		14.09.2023	1 nos.	Numerical practice
		15.09.2023	1 nos.	Quiz test
	8TH	21.09.2023	1 nos.	Numerical practice
		22.09.2023	1 nos.	4.3 Design compressive stress and strength of compression member
	9TH	26.09.2023	2 nos.	Numerical practice
		28.09.2023	1 nos.	Monthly Test (September)
OCTOBER	10TH	03.10.2023	2 nos.	Numerical practice and Question Answer discussion (Ch 4)
		05.10.2023	1 nos.	CHAPTER 5 - DESIGN OF STEEL BEAMS 5.1 Concept of plastic theory, shape factor, plastic section modulus, common cross sections and their classification
		06.10.2023	1 nos.	Numerical practice on plastic section modulus
	11TH	10.10.2023	2 nos.	5.2 deflection limits, web buckling and web crippling , Design strength of laterally supported beams in shear
		12.10.2023	1 nos.	Internal Assesment
		13.10.2023	1 nos.	Numerical practice
		17.10.2023	2 nos.	Numerical practice
		19.10.2023	1 nos.	Question Answer discussion (Ch 5)

NOVEMBER	12TH	19.10.2023	1 nos.	Question Answer discussion (Ch 5)
		20.10.2023	1 nos.	CHAPTER 6 - DESIGN OF TUBULAR STEEL STRUCTURES 6.1 introduction, advantages and disadvantages, permissible stresses
	13TH	31.10.2023	2 nos.	Parent teacher meeting
		02.11.2023	1 nos.	Monthly Test (October)
		03.11.2023	1 nos.	6.2 Tubular compression and tension member, 6.3 connections of tubular sections
	14TH	07.11.2023	2 nos.	Numerical practice
		09.11.2023	1 nos.	Quiz test
		10.11.2023	1 nos.	Question answer discussion (Ch 6)
	15TH	14.11.2023	2 nos.	CHAPTER 7 - DESIGN OF MASONRY STRUCTURES Introduction ,Masonry units 7.1 design considerations for masonry walls and coulumnns
		16.11.2023	1 nos.	Load bearing and non-load bearing walls
		17.11.2023	1 nos.	slenderness ratio, effective height, length and thickness
		21.11.2023	2 nos.	Numerical Practice and Question answer discussion (Ch 7)
	16TH	23.11.2023	1 nos.	Doubt clearing class
		24.11.2023	1 nos.	Quick revision of Entire syllabus
		28.11.2023	2 nos.	Mock Test
	17TH	30.11.2023	1 nos.	Mock Test
		TOTAL	62nos.	

[Signature]
31-07-2023

Signature of the Faculty

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31-07-23

Signature of the Principal