

Discipline	Semester -	Name of teaching faculty
Civil Engg	5th	Tarini Maharana
Subject - Structural Design = II	No. of class / week allotted = 5	Semester & nom -
Week	class days	Theory / practical Topics
27/09/21 to 2/10/21	1st to 5th	Common steel structure, Advantages & disadvantages
04/10/21 to 9/10/21	1st to 5th	Type of steel, Properties of steel Rolled steel Sec ⁿ , Spec ⁿ / Consideration load & load combination analysis Design philosophy, Principle of LSM Bolted Connection
11/10/21 to 16/10/21	1st to 5th	← Durga Puja Festival →
18/10/21 to 23/10/21	1st to 5th	← Kuman Purnima → Classification of bolts, advantage & disadvantage Different terminology Type of bolted connection
25/10/21 to 30/10/21	1st to 5th	Assumption & principle of design Shear Capacity & Bearing Capacity Analysis & design of joints Efficiency of joint Welded Connection (Advantage & disadvantage)

Week	Class days	Theory / Practical topics
01/11/21 to 06/11/21	1st 2nd 3rd 4th 5th	Types of welded joint & specifications Design stresses in weld & strength of weld Design Common shape of Compression member
03/11/21 to 13/11/21	1st 2nd 3rd 4th 5th	Rolling class of class slenderness ratio Design of Compression class & slenderness of Compression member Numerical problem practice Numerical problem practice
15/11/21 to 20/11/21	1st 2nd 3rd 4th 5th	Last Monday of Karkra Analysis & design of Compression member Designing Designing Designing Rava Purgina
22/11/21 to 27/11/21	1st 2nd 3rd 4th 5th	Design of steel beam Common class & shear Classification Designing Designing
29/11/21 to 04/12/21	1st 2nd 3rd 4th 5th	Deflection limits, web buckling, web crippling Design of laterally supported beam

Week	Class days	Theory / Practical topics
06/12/21 to 11/12/21	1st 2nd 3rd 4th 5th	Designing Designing Designing Torsion member - Max ^m value of effective slenderness ratio.
13/12/21 to 19/12/21	1st 2nd 3rd 4th 5th	Analysis & design of torsion member Designing Last Thursday of Marysira Designing
20/12/21 to 25/12/21	1st 2nd 3rd 4th 5th	Designing Designing Design of tubular steel structure - Round tubular section, permissible slenderness Tubular Compression member
27/12/21 to 01/01/22	1st 2nd 3rd 4th 5th	Tubular tension member Joint in tubular members Designing Design of Masonry structure - Consolidation of wall, Column
03/01/22 to 08/01/22	1st 2nd 3rd 4th 5th	Load bearing, Neg. load bearing permissible slenderness, slenderness ratio Effective length, height & k factor Designing Designing