

1.	Title of the course	Basic Structural Steel Design
2.	Course number	CE301L
3.	Structure of credits	3-1-0-4
4.	Offered to	UG
5.	New course/modification to	Modification To CE3101/8
6.	To be offered by	Department of Civil and Environmental Engineering
7.	To take effect from	July 2022
8.	Prerequisite	Nil
9.	Course Objective(s): This course introduces the Limit State Design (LSD) philosophy and the design of steel structural elements as per IS 800: 2007. This course mainly emphasises on the design of tension members, compression members, column bases, beams, beam-columns and their connections using welds and bolts.	
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11.	Textbook(s): 1. Narayanan R, Kalyanaraman V, Santhakumar A R, Seetharaman S, Kumar S, Jayachandran A S and Senthil R, <i>Teaching Resource Materials for Structural Steel Design (1,2 & 3 Volumes)</i> , INSDAG Publications (2005). 2. Subramaniam N, <i>Design of Steel Structures : Limit State Method</i> , Oxford Higher Education (2008).	
12.	Reference(s): 1. Arya A S and Ajmani J L, <i>Design of steel structures</i> , Nem Chand & Bros (2007). 2. Sairam K S, <i>Design of Steel Structures</i> , Pearson Publications (2015). 3. INS/PUB/114, <i>Design Manual for Designing Steel Structures According to New IS:800</i> , INSDAG Publications (2010). 4. IS 800 : 2007, <i>Code of Practice for General Construction in Steel</i> , Bureau of Indian Standards (2007).	