

Identification	Subject	Steel Structures 2	
	Department	Civil Engineering	
	Program	Undergraduate	
	Term	Fall 2024	
	Instructor	Yusif Sadigov	
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	Phone:	050 270 7774	
	Classroom/hours		
	Office hours		
Prerequisites	Strength of materials – Structural Analysis		
Language	English		
Compulsory/Elective	Compulsory		
Description	This course deals with the design of steel parts and connections used to build structures. This is an important field in civil engineering and applicable for many purposes.		
Required textbooks and course materials	Structural Steel Design by Jack C. McCormack and Stephen F. Csernak, fifth edition, Prentice hall press (2011)		
Course website			
Course outline	General principals, Definition of the types of steel and international standards, design conditions and load combinations, design of axial members, shear and flexure in parts, torsion, columns, base plates, seismic design are the most important subjects in steel design		
Course objectives	The objective of this course is that the student acquires the basis on the Strength of Materials and Structural analysis. In this way, the student will be able to design different types of elements for construction procedure for buildings with steel structures. For this purpose, many practical and applicable examples will be analyzed.		
Learning outcomes	<ul style="list-style-type: none"> • Understand the basic concepts of steel types and design considerations. • Perform design of beams, columns, axial elements subjected to gravity and lateral loads using AISC code, • Understand the analyze and design procedure of a regular building 		
Teaching methods	Lecture		x
	Experiential exercise		x
	Assisted work		x
	Assisted lab work		x
	Others		
Evaluation	Methods	Date/deadlines	Percentage (%)
	Midterm Exam		30
	Class Participation and Attendance		10
	Quizzes		15
	homework		-
	Project (3 phases)		10
	Final Exam		35
	Total		100
Policy	<ul style="list-style-type: none"> • NO CELL PHONES are allowed during lecture and lab sessions. PLEASE turn them off before lecture! (Not silent or vibrating mode) • No late assignments will be accepted without prior arrangement with the instructor for acceptable excuses. Medical and family emergency will be considered on case-by-case basis. • No late homework will be accepted. Homework is to be completed on an individual basis. Students may discuss homework with classmates, but students are responsible for your own work. If students have consulted 		

classmates, please note the individuals name on the top of students' assignment.

- Quizzes may be given unannounced throughout the term and will count as one homework. There will be no make-up quizzes.
- No make-up exams. If students miss an exam, a zero score will be assigned to the missed exam.
- If students should miss class due to personal emergency or medical reasons, please notify the instructor by email immediately. A doctor's note will be required for make-up work.
- Students are responsible for completing the reading assigned from the textbook related to the covered topics and for checking email regularly for important information and announcements related to the course.
- University policy on academic honesty concerning exams and individual work will be strictly enforced.
- **BE ON TIME!**

Tentative Schedule			
Week	Date/Day (Tentative)	Topics	Textbook/Assignments
1		Introduction and general principles	Chapter 1
2		Loads of and method of design	Chapter 2
3		Design for tension	Chapter 3
4		Design for tension	Chapter 3
5		Design for Compression	Chapter 4
6		Design for Compression	Chapter 4
7		Design for Compression	Chapter 4
8		Midterm exam	-
9		Design of Base plates	Chapter 5
10		Design of Beams	Chapter 6
11		Design of Beams	Chapter 6
12		Design of connections (Hinged)	Chapter 7
13		Design of connections (Fixed)	Chapter 7
14		Design of connections (Bolted)	Chapter 7
15		Design of connections (Special)	Chapter 7
		Final Exam	

This syllabus is a guide for the course and any modifications to it will be announced in advance.