

Identification	Subject	Fundamentals of Steel design, 6 ECTS credits	
	Department	Civil Engineering	
	Program	Undergraduate	
	Term	Fall 2019	
	Instructor	Mehdi Bashiri	
	E-mail:	mbashiri@khazar.org	
	Phone:		
Prerequisites	Strength of Materials - Structural Analysis		
Language	English		
Compulsory/Elective	Compulsory		
Description	This course is about designing steel members and connections subjected to different types of loading and is one of the important fields in Civil Engineering		
Required textbooks and course materials	Steel Design, 6th Edition, by William T.Seguai		
Course outline	General principals, Definition of different types of steel members and their designing method, Definition of steel Connections and their designing method		
Course objectives	The objective of this course is that the student acquires a solid foundation understanding of steel design in buildings. In this way the student will be able to analyze and design steel members, connections and their performance which are needed for this purpose.		
Learning outcomes	<ul style="list-style-type: none"> • Understand the basic concepts of steel member types and design considerations. • Performance design of axial and flexural elements subjected to different 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		5
	Quizzes		20
	Assignments		5
	Project (3 phases)		-
	Final Exam		40
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. 		

	<ul style="list-style-type: none"> • 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!
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Tentative Schedule		
Week	Topics	Textbook/Assignments
1	Introduction	
2	Concepts in steel structures	
3	Tension members	
4	Tension members	
5	Compression members	
6	Compression members	
7	Compression members	
8	Midterm Exam,	
9	Beams	
10	Beams	
11	Design of connections (bolted)	
12	Design of connections (bolted)	
13	Design of connections (welded)	
14	Design of connections (welded)	
	Final Exam	