

ADVANCED STEEL DESIGN I

1	Course Title:	ADVANCED STEEL DESIGN I	
2	Course Code:	INS5247	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	7.50	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. HAKAN TACETTİN TÜRKER	
15	Course Lecturers:	Hakan T Türker	
16	Contact information of the Course Coordinator:	hakantturker@uludag.eu.tr	
17	Website:		
18	Objective of the Course:	To teach designing of steel structural members and connections	
19	Contribution of the Course to Professional Development:	In this course, students learn how to dimension steel structural members, calculate joints in steel structures, and stability analysis of steel structures.	
20	Learning Outcomes:		
		1	Students learn to designing steel structure members.
		2	Students learn to designing steel structure connections.
		3	Students learn stability analysis in steel structures.
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21	Course Content:		
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Week	Theoretical	Practice	
1	Construction and assemblage of steel structures		
2	General principles on composite members and axial force effect		
3	Shear and bending effect on composite members		
4	Combined effects on composite members and load transfer		
5	Moment resisting connections		

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High
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