ADVANCED STEEL DESIGN I								
1	Course Title:	ADVANO	CED 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 f	ace					
14	Course Coordinator:	Prof. Dr.	HAKAN TACETTİN TÜRKER					
15	Course Lecturers:	Hakan T	Türker					
16	Contact information of the Course Coordinator:	hakanttu	rker@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:		burse, students learn how to dimension steel structural s, calculate joints in steel structures, and stability analysis of actures.					
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.					
		4						
		5						
		6						
		7						
		8						
		9						
		10						
21	Course Content:							
		Co	ourse Content:					
	Theoretical		Practice					
1	Construction and assemblage of stee structures							
2	General principles on composite mer and axial force effect							
3	Shear and bending effect on composite members							
4	Combined effects on composite men and load transfer	npers						
5	Moment resisting connections							

	n .																	
	Restriction of compression members																	
7	Splices of structural steel elements																	
8	Splices of structural steel elements																	
9	Design for servicebility limit states																	
10	Stability connections for columns																	
11	Stability connections for beams																	
12	Stability connections for beams																	
13	Stability connections for beams					_												
14	Shear and bending effects on castellated beams																	
	Textbooks, References and/or Other Materials:							F S V L	Regulation on Design, Calculation and Construction Principles of Steel Structures, 2018. American Institute of Steel Construction, Specification for structural steel buildings AISC 360-16, Chicago, 2016 William T. Segui, Steel Design, 6th Ed., Cengage Learning, 2017 Jack C. McCormac, Stephen F. Csernak, Structural Steel Design Fifth Edition, Prentice Hall, 2012.									
	Asse																	
TERM L	LEARNING ACTIVITIES NUMBE						E V	WEIGHT										
Midtern	m Exam 1						4	40.00										
Quiz	0						0	0.00										
Activites							Number				Dura	Duration (hour) Tota Loa			Vork nour)			
	Theoretical 2						T	14			3.00	3.00 42.0						
	etribution of Torm (Year) Learning Activition to lecticals/Labs							0			0.00	0.00			0.00			
Self stu	of study and preperation intribution of Final Exam to Success Grade						16	60.00			3.00			42.00				
Homew								0				0.00	0.00			0.00		
Projects	ots							Ţ.	0			0.00			0.00			
Field St	Studies								0				0.00			0.00		
Mi zl‡ ern	TECTS/ WORK LOAD TABLE								1			75.00			75.00			
Others								0			0.00			0.00				
Final Ex	xams							1			80.00			80.00				
Total W	Work Load												225.00					
Total w	ork lo	ad/ 3	30 hr														7.50	
ECTS (TS Credit of the Course													7.50				
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
	P	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	8 P	Q9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4		5	4	5	4	0	0	0	0		0	0	0	0	0	0	0
ÖK2	4		5	4	4	4	0	0	0	0)	0	0	0	0	0	0	0
ÖK3	5	5	4	5	4	5	0	0	0	0)	0	0	0	0	0	0	0
			I	O: L	.earr	ing C	bje	ctives	S	PQ): P	rogra	m Qu	alifica	tions	•		

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