ADVANCED STEEL DESIGN I									
1	Course Title:	ADVANO	CED STEEL DESIGN I						
2	Course Code:	INS5047							
3	Type of Course:	Optional							
3 4	Level of Course:	Third Cycle							
4 5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	6.00							
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:	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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		5							
		6							
		7							
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		9							
		10							
21	Course Content:								
	Course Content:								
	Theoretical		Practice						
1	Construction and assemblage of stee								
2	General principles on composite mer and axial force effect								
3	Shear and bending effect on compos members								
4	Combined effects on composite men and load transfer	nbers							
5	Moment resisting connections								

6	Restriction of compression members																		
7	Splic	es o	f struc	ctural	steel e	elemen	ts												
8	Splic	Splices of structural steel elements																	
9	Desi	Design for servicebility limit states																	
10	Stab	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																		
22	Textbooks, References and/or Other Materials:						P A S V L J	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.											
23	Asse																		
TERM L	EARN	NING	ACTI	VITIES	;		۱ F	NUMBE R	= M	WEIGHT									
Midtern	term Exam 1						4	40.00											
Quiz							()	0	0.00									
Activites							Number Duration (hou				· · · ·	r) Total Work Load (hour)							
	Theoretical					Т	14			3 00 4			42 00						
	Contribution of Torm (Voor) Loorning Activition to Practicals/Labs							0			0.00			0.00					
Self study and preperation Contribution of Final Exam to Success Grade						6	60.00			4.00			56.00						
	omeworks							0			0.00	0.00			0.00				
Project	jects							<u> </u>	0			0.00			0.00				
Field S	d Studies							0			0.00			0.00					
Migltern	erner WORK LOAD TABLE							1			30.00	30.00							
Others								0			0.00	0.00			0.00				
Final E	Exams							1			52.00			52.00					
Total W	al Work Load														180.00				
Total w	otal work load/ 30 hr														6.00				
ECTS (CTS Credit of the Course													6.00					
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																			
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	8 PC	3 9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	4	1	5	4	5	4	0	0	0	0		0	0	0	0	0	0	0	
ÖK2	4	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	
	LO: Learning Objectives PQ: Program Qualifications										: P	rogra	m Qu	alifica	tions				

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