STEEL STRUCTURE PROJECT

1	Course Title:	STEEL STRUCTURE PROJECT
2	Course Code:	INS4030
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	4
6	Semester:	8
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	1.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
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:	Hakan T. Türker hakantturker@uludag.edu.tr
17	Website:	
18	Objective of the Course:	to teach students to design a simple steel structure project using the knowledge they have learned in the Steel Structural Design course.
19	Contribution of the Course to Professional Development:	This course provides to learn the basic information required for the design of Industrial Steel Structures, to learn the calculation of loads (dead, snow, wind, earthquake, etc.) on the structure, to have knowledge about vertical and horizontal carrier systems, to learn the design of building elements.
20	Learning Outcomes:	
	1	Fundemental knowladge required for the design of Industrial Steel Structures.
	2	Calculation of the loads (Dead, Snow, Wind, Earthquake etc.)
	3	Having knowledge about gravity and lateral load resisting systems
	4	Design of structural members in load resisting system
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21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Introduction	
2	Type of Industrial buildings and general information	
3	Loads, Calculation of loads	Loads, Calculation of loads

4	Calculation of wind load, snow loads	Calculation of wind load, snow loads
5	Purlin design	Purlin design
6	Modeling of structural resisting system	Modeling of structural resisting system
7	Analyse the structural model	
8	Check irregularity of the structure	
9	Designing of the structural members (beams)	Designing of the structural members (beams)
10	Designing of the structural members (column)	
11	Designing of the structural members (connections)	Designing of the structural members (connections)
12	Designing of column bae plates	Designing of column bae plates
13	Designing of the foundation	Designing of the foundation
14	Drawings	Drawings

22	Textbooks, References and/or Other Materials:	Salmon, C.G., Johnson J.E., Malhas, F.A., Steel Structures. Design and Behaviour. 5th Ed., Pearson International Edition, 2009. -ÇELİK YAPILARIN TASARIM, HESAP VE YAPIM ESASLARINA DAİR ESASLAR -ÇELİK YAPILARIN TASARIM, HESAP VE YAPIM ESASLARINA DAİR YÖNETMELİK HAKKINDA UYGULAMA KILAVUZU, TC, ÇEVRE VE ŞEHİRCİLİK BAKANLIĞI, 2017.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBE**	**WEIGHT**
Theoretical		14
Home work-project	1	40.00
Practicals/Labs		14
Self study and preperation		0
Total	3	100.00
Homeworks		0
Success Grade		
Projects		1
Field Studies		0
Total		100.00
Midterm exams		1
Others		0
Course		
Final Exams		1

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	1.00	14.00
Total	0	0.00	0.00
Homeworks	0	0.00	0.00
Projects	1	20.00	20.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			102.00
Total work load/ 30 hr			3.07
ECTS Credit of the Course			3.00

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	3	3	3	2	0	2	0	0	0	0	0	0	0	0	0	0
ÖK2	5	5	3	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	4	5	4	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	5	5	4	4	0	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

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