Course Name: STEEL STRUCTURES OF INFRASTRUCTURE FACILITIES				
Course Code	Course Status	Semester	ECTS Credits	Number of classes
	Compulsory	П	5	2P+1V+1L
Study programmes: Postgraduate master academic studies - study programme Civil Engineering - Structures; 4 semesters / 120 ECTS credits.				
Conditioned by other courses: No prerequisites.				
Aims of the course: Getting basic knowledge in design and construction of steel structures of civil engineering works.				
Learning outcomes: After passing this exam, student will be able to: 1. Know basic types of steel structures of civil engineering works, as well as principles and specifics of their design, construction, protection and maintenance. 2. Independently solve specific problems from common engineering practice in domain of steel structures of civil engineering works. 3. Independently apply acquired knowledge regarding design and construction of steel structures of civil engineering works.				
Teacher and assistant:       Assoc.Prof. Biljana Šćepanović, Dr-Ing. – teacher         Mladen Muhadinović, MSc; Petar Subotić, MSc – assistants				
Methods of teaching and learning: Lectures, exercises, laboratory exercises, consultations, semester project.				
Course content:				
II teaching week III teaching week IV teaching week VI teaching week VII teaching week VIII teaching week VIII teaching week IX teaching week X teaching week XII teaching week XII teaching week XII teaching week XIII teaching week XIV teaching week XV teaching week	design, construction, protection and maintenance.         k       Crane girders.         sk       Crane girders.         sk       Crane girders.         sk       Towers and masts.         ek       Towers.         ek       Towers.         ek       Masts.         ek       Silos.         sk       Tanks.         ek       Pipelines.         ek       Assembly, protection and maintenance of steel structures of civil engineering works.         ek       In situ teaching – excursion to the construction site or existing objects.         eek       Semester project presentation and defence.         eek       Semester wrap-up and final preparation for the examination.			
Student's obligations: Attending of lectures and exercises elaboration of semester project				
STUDENTS LOAD				
			In semester	
Per week		Teaching and final exam: (6.67 hours) x 16 = <u>106.67 hours</u> Necessary preparations before semester (administration, enrolment etc) 2 x (6.67 hours) = <u>13.33 hours</u>		
5 credits x $40/30 = 6.67$ hours Structure:		Total load for the course: 5x30 =150 hours		
2 hours lectures 2 hours exercises 2.67 hours individual work, including consultations		Additional work for exam preparation in the additional exam session, including passing of correctional exam <u>between 0 and 30 hours</u> (remaining time from the previous issues to the final load for the course of 150 hours) Load structure:		
Literature:				
<ol> <li>Buđevac D., Marković Z., Bogavac D. Tošić D.: Metalne konstrukcije, knjiga 1 (Osnove proračuna i konstruisanja) i knjiga 2 (Specijalna poglavlja i tehnologija izrade), Građevinski fakultet u Beogradu, Beograd, 1999.</li> <li>Debeljković M.: Čelične konstrukcije u industrijskim objektima, Građevinska knjiga, Beograd, 1995.</li> <li>Markulak D.: Posebna poglavlja čeličnih konstrukcija, Građevinski fakultet u Osijeku, 2010.</li> <li>Bešević M.: Odabrana poglavlja metalnih konstrukcija, Građevinski fakultet u Subotici, 2020.</li> <li>McCormac J.C.: Structural Steel Design, HarperCollins College Publishers, New York, 1995.</li> <li>Geylord E.H., Geylord C.N., Stallmeyer J.E.: Steel Structures, McGrow-Hill International Editions, Singapore, 1992.</li> <li>Zarić B., Stipanić B., Buđevac D.: Čelične konstrukcije u građevinarstvu, Građevinska knjiga, Beograd, 1989.</li> <li>JUS and MEST EN standards.</li> </ol>				
Examining system and grading:				
<ul> <li>Examining is continuous during the semester and in the final exam.</li> <li>Maximum number of points in semester: 100.</li> <li>The structure of examination and points is as follows: <ul> <li>semester project:</li> <li>22.5 - 45 (min positively marked semester project = 22.5 points);</li> <li>final exam:</li> <li>27.5 - 55 (min positively marked final exam = 27.5 points).</li> </ul> </li> <li>Semester project should be completed in order to be marked. It consists of oral and written part.</li> <li>Final exam is in written form. Both theory part and numerical part should be done ≥ 50%.</li> <li>Following grading system is applied: A for ≥ 90 points, B for 80 ≤ points &lt; 90, C for 70 ≤ points &lt; 80, D for 60 ≤ points &lt; 70, E for 50 ≤ points &lt; 60, F for &lt; 50 points. Positive grade is obtained for min 50 points. F = failed.</li> </ul>				
Special notes for the	course:			
Data prepared by teach	ner: Assoc.Prof. Biljana Šo	epanović, Dr-Ing.	per appirtant hand of the study	programme and vice deen
for teaching.				