Course Name: TIMBER STRUCTURES						
Course Code	Course Status	Semester	ECTS Credits	Number of classes		
	Compulsory	V	5	2P+1V+1L		
Study programmes: Undergraduate academic studies - study programme Civil Engineering; 6 semesters / 180 ECTS credits.						
Conditioned by other courses: Building materials, Strength of materials I & II.						
Aims of the course: Getting basic knowledge in timber structures design.						
Learning outcomes: After passing this exam, student will be able to: 1. Know basic kinds and characteristics of timber as a building material. 2. Know principles and specific issues of application, design, construction and protection of timber structures. 3. Calculate carrying capacity and serviceability, as well as design timber elements in common structures, for the cases of elementary stress states. Know stability problems of timber structures. 4. Know connectors and fasteners in timber structures. Design elementary types of connections in common timber structures. 5. Design simple solid timber structures.						
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:						
I teaching week Introduction – General about timber structures, application domains, the most important objects, historical development, advantages and disadvantages of timber structure. Timber as material of structures in civil						
	engineering (structure, kinds, defects, protection, timber and fire, glue laminated timber).					
II teaching week	Timber properties (aesthetic, physical, rheological, mechanical). Basis of timber structures calculation					
III teaching week	(loads; carrying capacity, stability and serviceability; design methods). Timber structures calculation/design – carrying capacity, stress states (centric tension and compression					
N (to a shi	bending, shear, torsion, eccentric tension and compression). Semester project – task 1.					
IV teaching week	l imber structures calculat	ion/design – carrying ca ccentric tension and cor	apacity, stress states (centric to moression). Semester project -	ension and compression,		
V teaching week	Tapered girders. Semeste	r project – task 3.				
VI teaching week	Timber structures calculat	ion/design – serviceabi	ity, deformations. Semester pr	oject – task 4.		
VII teaching week	Curved and pitched girder	S. Connections and onlie				
IX teaching week	Classic timber structures	Classic timber roofs and	es. d truce girdere			
X teaching week	Girders made of timber ar	d wood-based plates (t	hin-webbed and thin-flanged d	irders)		
XI teaching week	Formworks and scaffoldin	ns	in webbed and thin hanged g	nucroj.		
XII teaching week	In situ teaching – excursio	n to the construction site	or existing objects			
XIII teaching week	Timber structures design	and construction. Seme	ster project – task 5.			
XIV teaching week	Semester project presenta	ation and defence.				
XV teaching week	Semester wrap-up and fin	al preparation for the ex	camination.			
Student's obligatio	ns: Attending of lectures	Student's obligations: Attending of lectures and exercises, elaboration of semester project.				
STUDENTS LOAD						
	S	STUDENTS LOAD	.,			
Dorru	seek	STUDENTS LOAD	In semester			
<u>Per v</u>	veek	TUDENTS LOAD Teaching and final Necessary prepara	<u>In semester</u> exam: (6.67 hours) x 16 = <u>106.6</u> ; tions before semester (administra	<u>7 hours</u> ttion, enrolment etc)		
<u>Per v</u> 5 credits x 40/30 = 6	veek 67 hours	TUDENTS LOAD Teaching and final Necessary prepare 2 x (6.67 hours) = <u>1</u>	In semester exam: (6.67 hours) x 16 = <u>106.6</u> ; tions before semester (administra <u>3.33 hours</u>	7 <u>hours</u> tion, enrolment etc)		
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<u>Per v</u> 5 credits x 40/30 = <u>6</u> Structure: 2 hours lecture	veek 67 hours	TUDENTS LOAD Teaching and final Necessary prepare 2 x (6.67 hours) = <u>1</u> Total load for the c Additional work f	In semester exam: (6.67 hours) x 16 = <u>106.67</u> tions before semester (administra <u>3.33 hours</u> course: <u>5x30 =150 hours</u> or exam preparation in the add	7 <u>hours</u> ition, enrolment etc) itional exam session,		
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