Course Code	Course Status	Semester	ECTS Credits	Number of classes
	Compulsory	V	5	2L+1E+1L
Study programmes	. ,		ramme Civil Engineering	;
Conditioned by othe	er courses: Building materia		erials I & II.	
Aims of the course: prestressed structures.	Acquiring knowledge in the fig	eld of application, d	esign and construction of	concrete and reinforce concrete a
concrete structures. 2. Ap solid slabs and other flor s familiar with basic concep	ply knowledge, i.e. performs the	design of RC eleme performs the desig ructures and redistr	ents according to the ultim n of RC cross sections for bution of forces and stres	haviour of concrete and reinforced nate limit states (ULS) (for beams, r shear and torsion effects. 4. Be ses in statically indeterminate
Teacher and assistan	t: Nebojša Đuranović, Full p Nina Serdar – Teaching A Maja Lausević-Odalović- T	ssociate, PhD		
Methods of teaching	and learning: Lectures, exe	. .		ndependent work
Course content:	-			
I teaching week	Basic concepts of concrete and	reinforced concrete	structures.	
II teaching week	Basic concepts of concrete and reinforced concrete structures. Material properties			
III teaching week	Detailing rules for reinforcement			
IV teaching week	Basics of design. Behaviour of RC cross sections and elements with increasing load. Structural analysis – calculation of forces /moments/ stresses/displacements. The concept of structural Reliability: limit state design in conjunction with the partial factor method. Constituent connections			
V teaching week	v ,	partial factor meth	od. Constituent connectio	ons
VI teaching week	Stress-deformation field			
VII teaching week	Partially exam I			
VIII teaching week	Basic of design according to ultimate limit states			
IX teaching week	Design of RC cross sections according to ultimate limit states. Cracked sections.			
X teaching week	Design of RC cross sections according to ultimate limit states. Design for shear and torsion effects. Detailing and design of members: particular rules for beams			
XI teaching week	Detailing and design of members: particular rules for solid slabs			
XII teaching week	Detailing and design of members: particular rules for circular slabs and flat slabs with enlarged column head			
XIII teaching week	Other floor systems,			
XIV teaching week	Partially exam II			
XV teaching week		RC structures and	redistribution of forces an	nd stresses in statically indetermina
Student's obligatio	ns: Attending of lectures and	exercises, elaborat	ion of semester project, I	passing of pre-exams.
		STUDENTS LOA	D	
			In semester	
Por wook:			: (6.67 hours) x 16 = 10	
er week: 5 credits x 40/30 = 6.6		Necessary preparations before semester (administration, enrolment etc) 2 x (6.67 hours) = 13.33 hours		
Structure:	Total	load for the course	: 5x30 = 150 hours	
2 hours lectures 2 hours exercises			preparation in the additi	
2 hours exercises 2.67 hours individual work, including consultations		including passing of correctional exam between 0 and 30 hours (remaining time from the previous issues to the final load for the course of 150 hours) Load structure: 106.67 hours (teaching) + 13.33 hours (preparation) + 30 hours (additional		
	edavanja na predmetu Betonski RMIRANI BETON PREMA BAE			d 1991.
F.K. Kong and R.H. Evan	IIRANOBETONSKIH I PRETHC	RESSED CONCRE	TE" Van Nostrand Reinh	old UK,1987 Aćič M., Pakvor A., adevinski fakultet Beograd,
Examining system	5 5			
	during the semester and in the fi ts in semester: 100. Maximum r		final exam: 50	
The structure of examinat	tion and points is as follows:	·		
	nce: from 0 to 5 points (100%			
 semester project pre-exams: 	ct: from 3 to 15 points (min p 2 x 15 = 30 points	osilively marked pa	in or semester project = 3	points <i>)</i> ,
- final exam:	up to 50 points exam are in written form. Positi	ve arade is obtain	ad for min 50 points	
Special notes for the		ve grade is Obidill		
Data prepared by Lec				
	ion on the subject can be obtain	ed from the subject	Lecturer, teaching assoc	ciate, head of the study
programme and vice-deal		,	,	, ,