Course Basic Informat	ion			
Academic Unit:	Civil Engineering Fa	aculty		
Course title:	Plates and shell			
Level:	Master			
Course Status:				
	Elective			
Year of Study:	first(I), semester I			
Number of Classes per Week:	2+2			
ECTS Credits:	6			
Time /Location:	9:15-12:00; S 513			
Teacher:	Prof.ass.dr. Hajdar Sadiku			
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Contact Details:	Email: najuar.sauk	<u>u@uni-pr.eau</u>		
Course Description:	Content: The course contains two main parts: the theory of bending of thin plates and the theory of shells. The first part includes rectangular plates and circular varnishes. The second part analyzes the rotating shells, as well as the cylindrical rotating shells and those with a general shape.			
Course Goals:	It is that after the determination of the shear forces the students are able to dimension them by determining the dimensions of their cross sections and to determine the amount of reinforcement			
Expected Learning	Learning outcomes of the course: After completing the course the student will			
Outcomes:	be able to know, understand and use correctly the basic notions			
	construction science in general, in the field of slab holders and shell in			
	particular, in order to easily cope with the difficulties that await him during			
	and after these studies.			
	and after these studies.			
Student Workl	oad (should be in compli	ance with student's Le	arnign Outcomes)	
Activity	Hours	Day/ Week	Total	
Lectures	3	15	45	
Theory/ Lab	2	15	30	
Work/Exercises				
Practical Work	0	0	0	
		ÿ	0	
Consultations with the teaher	0	0	0	
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teaher Field Work Test, seminar paper		0 15 0	0 15 0	
teaher Field Work Test, seminar paper Homework	1	0 15	0 15	
teaher Field Work Test, seminar paper Homework Self-study (library or home)	1 0	0 15 0	0 15 0	
teaher Field Work Test, seminar paper Homework Self-study (library or	1 0 1	0 15 0 3	0 15 0 3	
teaher Field Work Test, seminar paper Homework Self-study (library or home) Preparation for final exam Assessment time (test,	1 0 1 0	0 15 0 3 0	0 15 0 3 0	
teaher Field Work Test, seminar paper Homework Self-study (library or home) Preparation for final exam	1 0 1 0 2	0 15 0 3 0 15	0 15 0 3 0 30	
teaher Field Work Test, seminar paper Homework Self-study (library or home) Preparation for final exam Assessment time (test, quiz, final exam) Projects, presentations,	1 0 1 0 2 2 2	0 15 0 3 0 15 12	0 15 0 3 0 30 24	

Subject Title: Plates and shell

Teaching Methods:	Lectures, exercises during class using different materials, one project work in group of 2-3 students (independent work), individual homework		
Assessment Methods:	The pass rate of the course is 60%. Student attendance 10%; Assessment from tests 60%; Final exam 30%.		
Primary References	Musa Stavileci: Teoria e sistemeve sipërfaqësore, UP, FNA, Prishtinë, 1997 Stavileci M.: Teoria e sistemeve sipërfaqesore – detyra të zgjidhura, UP, FNA Prishtinë, 1997,		
Additional	Girkman K.: Flachentragwerke, Wien, 1959		
References:	Timoshenko S.: Theory of plates and Shells, New York, 1965		
Designed teaching plan			
Week	Title of the Lecture		
Week 1:	Mechanical properties of materials		
Week 2:	Solution of free supported plate on four sides through double trigonometric series-Navier method Navier's solution to the rectangular plate problem		
Week 3:	Utilizing the Navier solution for different load cases		
Week 4:	Long plates		
Week 5:	Plate freely supported on two sides facing each other and any other two conditions- Solution according to the single trigonometric series-Solution according to Maurice Levy		
Week 6:	Utilizing the Maurice Levy solution for various load cases		
Week 7:	Finite difference method		
Week 8:	Finite element method		
Week 9:	Circular plates		
Week 10:	Contour conditions for circular slabs and annular slabs		
Week 11:	General knowledge on shells		
Week 12:	Spherical shells		
Week 13:	Conical shell		
Week 14:	Cylindrical shell		
Week 15:	Shell deformities		
Academic Policies and Code of Conduct			

Tools used during class must be cleaned and stored away at the end of class. Mobile/smart phones, and other electronic devices (e.g. iPods) must be turned off (or on vibrate) and hidden from view during class time.

Laptop and tablet computers are allowed for quiet use only; other activities such as checking personal email or browsing the Internet are prohibited