

Study program:	Civil Engineering		
Level of study:	Undergraduate academic studies		
Course title:	Design of family houses		
Teacher:	Viktorija F. Aladžić		
Course Status:	Elective		
Credits (ECTS):	6		
Prerequisite:	Concrete structures		
Course objective(s):	Introduction to basic principles of designing basic housing units, single-family houses and realisation of individual design for single-family house during exercises.		
Course outcome(s):	Qualification for designing and making preliminary project for basic residential unit – single-family house.		
Course Content:			
1 st week	Introductory lecture		
2 nd week	Anthropometric analysis. Proportions. Modular coordination of measures.		
3 rd week	Analysis of individual family needs. Analysis of functions in housing unit.		
4 th week	Analysis of external influences: climate impacts, winds, insolation, ground, groundwater.		
5 th week	Single-family house program. Typology of single-family houses.		
6 th week	Analysis of functions and interior space of single-family houses.		
7 th week	The spatial organization of single-family houses.		
8 th week	Adaptability of the spaces in single-family houses.		
9 th week	Single-family house and housing.		
10 th week	Structural analyses of house forms.		
11 th week	Artistic design of individual housing unit.		
12 th week	Single-family houses in traditional architecture.		
13 th week	Inside – out connectivity. Organization of a plot.		
14 th week	Analyses of examples of existing single-family houses.		
15 th week	Circuit of respectable examples of the single-family houses.		
	Week by week practice is following lectures		
Literature:	<ol style="list-style-type: none"> 1. B. Milenković, <i>Uvod u arhitektonsku analizu 1</i>, Beograd: Građevinska knjiga, 2009. 2. B. Milenković, <i>Uvod u arhitektonsku analizu 2</i>, Beograd: Građevinska knjiga, 2001. 3. J. Panero, M. Zelnik, <i>Antropološke mere i enterijer</i>, Beograd: Građevinska knjiga, 1987. 4. E. Noyfert, <i>Arhitektonsko projektovanje</i>, Beograd: Građevinska knjiga, 1988. 5. S. Gaudie: <i>The Appreciation of the Arts: Architecture</i>, London: Oxford University Press, 1975. 6. S. E. Rasmussen: <i>Experiencing Architecture</i>, Cambridge: The MIT Press, 1997. 7. S. Unwin: <i>Analysing Architecture</i>, London: Routledge, 1997. 8. B. Zevi, <i>Znati gledati arhitekturu</i>, Zagreb: Naklada da Lukom, 2000. 		
Number of hours:			
Lectures: 2	Exercises: 4	Other forms of teaching: 0	Individual research work: 0
			Other classes: 0
Teaching methods:	Theoretical analysis of materials, practical work on the development of a conceptual design of a single-family house, colloquium, consultations, fieldwork.		
Evaluation of knowledge (maximum 100 points)			
Pre-exam activities	points	Final exam	points
Activity during the lectures	5	Exam	30
Practical work	55	-	-
Colloquia	10	-	-