University of Belgrade – Faculty of Architecture

BOOK OF COURSES

Undergraduate academic studies Architecture



University of Belgrade –Faculty of Architecture UNDERGRADUATE ACADEMIC STUDIES ARCHITECTURE BOOK OF COURSES

COMPULSORY COURSES

Study programme:	Undergraduate ac	ademic stud	ies Architect	ure					
Type and level of studies:	Undergraduate ac	ademic stud	ies						
Course:	STUDY UNIT SPAC	F AND SHAP	F ¹ – SPACE A	ND SHAPF					
Teacher:	Associate Professo	or Milan A D	iurić						
Type of course:	Compulsory		june						
ECTS:	o								
	ð								
/ Objectives:									
Research of ideas on the relationship between space and shapes, examining basic elements of the structure of architectural space, building of space and situations, designing of own operating means within the given frame, initiating conceptual ability development and preparing knowledge and skills base, necessary for the level of Studio Design.									
Learning outcomes:									
Recognizing and understanding architectural spatial elements, observing their mutual relations and relations towards environment, and accordingly, development of routine skill for creating concepts of architectural buildings, structures and systems on the basic level. Inception of forming one's own architectural identity.									
Course brief:									
Theoretical education:									
The course opens an insight into the nature of architectural creation, placed in the contemporary designing context. It has been grouped into three									
sub-units with three design tasks dealing in architectural space structure, its tectonics and cultural context in which takes place: A) SPACE ANATOMY									
relations; B) MATTER AND DESIRE (S	helter for a friend): 7. E	nvironment, 8.	Use and organiz	zation of space, 9. Beau	uty and p	roportion, 10. Firmness			
and structures; C) APPLIED GEOMET	RY (Extension): 11. Basic	forms, 12. Cor	nplex forms, 13	. Movement and exper	ience, 14	. Ambiences, 15. Space			
and/or shape.									
Practical education:									
Practical classes are in the form of an	open studio, where 7 sr	nall projects sha	all be completed	d using architectural mo	odel medi I familiar	um. The task is not to			
Walls, Canopy, Beach, Underground	Aboveground shelter fo	r a friend. Exter	ision. The work	on models shall be follo	wed by y	workshops enabling			
students to quickly understand basic	techniques of materials'	treatment in th	e process of arc	chitectural models maki	ing, analy	tical observing and			
understanding of one's own work thr	ough photos and texts t	hat enable stud	ents to develop,	on the basic level, the	ability to	argument themselves			
through reading practice.									
Literature:									
- Kucina I. 15/3 - textbook for the co	ourse space and shape. B	eograd: Univer	itet u Beogradu	I - AF, 2008.	h.P. h	1005)			
 Rem Kolhas: Uvod u S, M, L, XL. (Re Bornard Čumi: Prostori i događaji J 	em Koolhaas, Bruce Mau Bornard Čumis Arbitekts	: SMLXL. New Yo	ork: Monacelli P	ress, Rotterdam: 010 P	ublishers,	, 1995.)			
 Bernard Cumi: Prostori i događaji. Peter Cumtor: Ima li lenota formu? 	Peter Cumtor: Misliti a	rhitekturu Zagr	eh: AGM 2003)	.004)					
– Kengo Kuma: Povratak materijalim	a (Luigi Alini, Kengo Kum	ia: Kengo Kuma	Works and Proj	ects Florence: Flecta M	Iondador	i 2006)			
Active training classes no.:			Works and Froj		lonadaoi	Other:			
Lectures: Pract	cal classes:	Other teachin	g forms:	Studio research:					
2 4		/		1					
Teaching methodology:									
Positive and stimulating atmosphe	re among students an	d teachers thr	ough lectures,	workshops, discussion	ıs, critiqu	ues, presentations and			
consultations. Learning through desig	n. Presentation and ver	ification of stud	ents' work in fro	ont of other students ar	id teache	rs.			
Knowledge evaluation (maxim	ium 100 points)								
Pre-exam requirements	equirements points Final exam points								
Activity during lecturing	10		Written exam			25+10			
Colloquia	20+25 PART OF THE FINAL GRADE ² of the Study unit –								
Seminar-s	2012.	-		Space and	shape	ecasy unic			
				·					

¹ Study unit Leader: Associate Professor Milan A. Djurić

² The final grade is being awarded for the Study unit as a sum of single grades achieved on each of courses depending on the number of ECTS.

Study programme:	Undergraduate	academic stud	lies Architect	ure			
Type and level of studies:	Undergraduate	academic stud	lies				
Course:	STUDY UNIT SP	ACE AND SHAP	^{PE³ – VISUAL /}	ARTS ELEMENTS			
Teacher:	Professor M.Sc.	Vladan B. Ljuk	pinković				
Type of course:	Compulsory						
ECTS:	2						
Preconditions:	·						
/							
Objectives:							
The course objective is for stude	nts to acquire knowledge	e on basic art eler	ments and gain p	practical experience in t	the field	related to the theory of	
color and form. Additionally, the aim is to explore connections and methods within the field of synthesis of fine arts and architecture on the level of							
simple and abstract art research.							
Learning outcomes:							
Recognizing and acceptance of knowledge and practical experiences in visual presentation and transposition of forms and space, as well as the							
application of these skills in the work within the Studio Design.							
Course brief:							
Line, dot / Dynamics of line / Clos	ed line, shape / Line, sur	ace, form / Form	/ Form and Vale	ro / Valero / Texture / T	exture,	materialization / Spatial	
relations / Relief / Color							
Literature:							
– Pavle Vasić, Uvod u likovne um	etnosti, Fakultet likovnih	umetnosti, Beogr	ad, 1968.				
 – Zoran Pavlović, Prostor oblika i 	boje, Klio,Beograd, 1997						
 Johanes Iten, Umetnost boje, L 	metnička akademija, Beo	grad, 1973.					
 Rudolf Arnhajm, Umetnost i viz 	uelno opažanje, Univerzi	tet umetnosti Tim	othy Samara, De	sign Elements, Rockpor	t.		
 – H. V. Dženson, Istorija umetno 	ti, Beograd 1983. or later	editions					
Active training classes no.:				-		Other:	
Lectures: P	actical classes:	Other teachi	ng forms:	Studio research:			
1 1		/		/			
Teaching methodology:							
Keynote lectures and practical cla	sses, which are grouped	by methodologica	I demands and t	heme frame.			
Knowledge evaluation (ma	ximum 100 points)		1		1		
Pre-exam requirements	points		Final exam		point	S	
Activity during lecturing		10	Final portfolio		50		
Practical classes		Oral exam					
Colloquia 20+20 PART OF THE FINAL GRADE ⁴ of the Study unit –							
Seminar-s	Space and shape						

³ Study unit Leader: Associate Professor Milan A. Đurić

⁴ The final grade is being awarded for the Study unit as a sum of single grades achieved on each of courses depending on the number of ECTS.

Study programme:	Undergraduate ad	ademic stud	lies Architectu	ure				
Type and level of studies:	Undergraduate ad	ademic stud	ies					
Course:	STUDY UNIT SPAC	F AND SHAP	F ⁵ – VISUAL B	RESEARCH				
Teacher:	Associate Profess	or M Sc. Duš	an M. Stanisa	vliević				
Type of course:	Compulsory	or 101.5c. Dus						
	2							
ECI3.	2							
Preconditions:								
/ Objectives:								
The course objective is that during the	he teaching process by	selected thema	tic units and ade	oulate nedagogical me	thods st	udents sten by sten and		
continuously develop analytical, cre	ative and performing	skills necessary	for active part	icipation in visual res	earch pr	ocess, encouraging the		
harmonization of a creative triad: im	agination – graphical pre	esentation – visu	ual perception.			,		
Learning outcomes:								
Research – through graphic experiment / Implementation – through study and application of graphical techniques and technologies / Routine –								
through direct graphical experience /	Communication – throu	ugh the process	of coding and de	e-coding of graphic me	aning / R	esponsibility – through		
making graphical decision / Efficiency	- through rational use	of time and the	choice of approp	priate graphic techniqu	ies and te	chnology / Progress –		
through ongoing confrontation with increasingly complex graphical demands / Valorization – through a graphical comparison / Authorship –								
trust and respect.								
Course brief:								
Theoretical education:								
Interactive and ad hoc lectures: Visu	al nercention / Shane a	ind its propertie	es / Granhical co	ncent / Flements of a	granhic	expression (typography		
photography, illustration, decorative	e graphics) / Composin	g graphical ele	ments / Unit, fi	ragment, detail / Met	hods of	graphical presentations		
(sketches and engineering drawings)	(linear and surface gra	phical articulat	ion) (orthograph	ic and axonometric dr	rawing) /	Graphical identification		
codes / Pre-press, format, digital prin	ting, graphic finishing, e	xhibition conce	pt.					
Practical education:								
The research part of the course consi	sts of the transformatio	n of given spatia	al and conceptua	I relationships into an	adequate	e graphical form. / The		
executive pat of the course consists of	of using appropriate mod	des of graphical	presentation to	record/present charac	teristic p	hases of student's		
activities in the corresponding course	Space and snape. The f	araphical proce	course aims at to	orming a representative which affirmatively ropr	e authori	al presentation of		
implementation possibilities of cours	e participants.	graphical prese	intation modes w		esent ac			
Literature:	- F · · · F · · ·							
 – Petrović Đ. / Vizuelna istraživanja / 	Arhitektonski fakultet, I	Beograd 1972.						
Active training classes no.:	•	0				Other:		
Lectures: Pract	cal classes:	Other teachir	ng forms:	Studio research:				
/ 2		1		/				
Teaching methodology:								
In classrooms: Interactive and ad hor	lectures indicating intr	oduction to wo	rking tasks, analy	sis of characteristic ex	amples;	formulation of graphical		
concept and simulation of realization	n process. Individual co	nsultations are	held in professo	r's office. Privately: Co	omposing	graphical contents and		
preparation for production. Printing	ervices: Realization (with	in possible extra	a work at nome).					
Knowledge evaluation (maxim			c : 1					
Pre-exam requirements	points Final exam points				S			
Activity during lecturing			AAT STATE	Written exam 40				
Dractical classos	<u> </u>		Written exam			40		
Practical classes	60		Written exam Oral exam)E ⁶ of the	40 Study upit –		

⁵ Study unit Leader: Associate Professor Milan A. Djurić

⁶ The final grade is being awarded for the Study unit as a sum of single grades achieved on each of courses depending on the number of ECTS.

Type and level of studies: Undergraduate academic studies								
Course: STUDY UNIT INTRODUCTION TO ARCHITECTURE AND ARTS ⁷ – ON ARCHITECTURE								
Teacher: Professor Branislav B. Mitrović								
Type of course: Compulsory								
ECTS: 1								
Preconditions:								
1								
Objectives:								
The course objective is to introduce students with basic elements of architecture as complex, multi-disciplinary social practice. Through a series of								
ex cathedra lectures and interactive work on the semester assignment, the students get an initial insight into basic concepts in architecture a	nd							
explore their meanings through analysis of representative examples.								
Learning outcomes:								
Students' task is to individually examine themes set out in lectures and to present chosen theme unit via analytical review (case study).								
Course priet:								
<u>ITTEOLETICAL EAULATION</u> . The main part of the course are three thematic areas, within which are explored basic elements of architecture as technical (1), art (2) and social (2).								
me main part of the course are three thematic areas, within which are explored basic elements of architecture as technical (1), art (2) and social (3) practice. Each of these themes is discussed in lectures through analysis and explanation of single key terms and presentation of twoical examples.								
illustrating the subject theme and concept.								
literature								
– Milenković, Branislav, Uvod u arhitektonsku analizu I. Beograd: Građevinska knjiga, 1990.								
– Milenković, B. Uvod u arhitektonsku analizu II. Compendium. Beograd: Građevinska knjiga, 1991.								
– Koolhaas, Rem and Bruce Mau. SMLXL. New York: The Monacelli Press, 1993.								
 Till, Jeremy . Architecture Depends. Cambridge, Mass: MIT Press, 2009. 								
Active training classes no.: Other:								
Lectures: Practical classes: Other teaching forms: Studio research:								
1 // // //								
Teaching methodology:								
Teaching methodology includes: ex cathedra lectures, students' independent research, interactive public class and individual consultations in t	he							
process of the semester assignment development. During the examination period, scheduled time for individual consultations will be provided.								
Knowledge evaluation (maximum 100 points)								
Pre-exam requirements points Final exam points								
Activity during lecturing Written exam 70**								
Practical classes Oral exam								
Colloquia 10 (out of 30)* PART OF THE FINAL GRADE ⁸ of the Study unit –								
Seminar-s Introduction to architecture and arts								
*Remaining points of pre-exam requirements (2x10) students achieve on the colloquies of the two other courses within the Study unit Introduction	'n							
to architecture and arts.								
ror each of the courses of the Study unit introduction to architecture and arts (On architecture, Architecture today and Arts today) the semest	er If							
paper is being produced by one-third of the total number of students enrolled in the first year of Undergraduate academic studies: Architecture. If								

⁷ Study unit Leader: Associate Professor Ph.D. Ljiljana M. Blagojević

⁸ The final grade is being awarded for the Study unit as a sum of points achieved on colloquies of all three courses within the Study unit Introduction to architecture and arts and points achieved through semester paper which students' choose to develop for one of the Study unit courses.

Study programme:	11	ndergraduate ac	adomic stud	ios Architocti	Iro				
Type and lovel of studio	. 11	ndergraduate ac	adomic stud						
	s. 0								
Course:	5		DUCTION I	OARCHITECT	URE AND ARTS –	ARCHI	IECTURE TODAY		
Teacher:	A	ssociate professo	or Ph.D. Ljilja	ana M. Blagoj	ević				
Type of course:	C	ompulsory							
ECTS:	1								
Preconditions:									
/									
Objectives:									
The main objective of the course is to provide students with an introduction into studies of contemporary architecture and urbanism and to introduce them with rough knowledge on the important contemporary trends and tendencies in architecture and urbanism worldwide and in Serbia. As a theoretical introduction that is significant for students in design tasks, the coursed is aimed at providing students with basic knowledge on contemporary architectural practices and theory of architecture, as well as basic knowledge of independent research and development of comprehensive, systematic and original presentation of a work.									
Learning outcomes:									
Students are expected to acquire following abilities: basic understanding and systematization of knowledge on main trends in contemporary architecture; awareness and basic assessment of the quality of architectural piece; basic knowledge on important authors and works of world architecture; initial knowledge on contemporary theories of architecture; basic knowledge on development of comprehensive, systematic and original presentation of a work.									
Course brief:									
Through reviewing and problematic lectures, presentations of case studies (ex cathedra) and interactive teaching, the course deals with several theme frames: avant-garde and modern movement, postmodernism; hi-tech architecture; deconstructivism in architecture; green/environmental architecture; contemporary theory of architecture; critical architecture; current architecture and new technologies in architecture; contemporary Belgrade architecture; architecture; architecture; contemporary theory of architecture; contemporary transfer in architecture; contemporary									
Literature:		,	. ,						
 Philip Jodidio. Architecture I 	Now! 1-8,	Köln: Taschen, 2001-	2012						
– Filip Žodidio i Tatjana Biži. A	rchitecture	now!: Arhitektura d	anas. Beograd:	IPS Media, 2003					
 James Steele. Architecture T 	oday. Lond	don: Phaidon Press [1	997], 2001						
 – Ljiljana Blagojević i Dragana 	Ćorović. Kl	limatske promene i e	stetika savrem	ene arhitekture,	u: Vladan Đokić i Zoran	Lazović,	ur. Uticaj klimatskih		
promena na planiranje i pro	jektovanje,	, Beograd: Univerzite	t u Beogradu –	Arhitektonski fa	kultet, 19-33, 2011				
– Miloš R. Perović, ur. Istorija	moderne a	irhitekture, Knjiga 3:	Tradicija mode	rnizma i drugi mo	odernizam. Beograd: Ai	hitektor	ski fakultet, 2005		
Active training classes no.:	Practical	classos:	Othor toachir	a forme:	Studio rocoarch:		Other:		
Lectures.	/	Classes.	/	ig iornis.					
Teaching methodology:	1		1		,				
Thematic units are exercised	through r	eviewing and proble	ematic lectures	and presentation	ons of case studies (e	x catheo	Ira), as well as through		
students' independent resear	ch. During	g the semester ther	e are colloqui	es by which are	e checked students' o	onsisten	cy in classes, individual		
consultations, interactive pul	olic class a	and students' prese	ntations. Final	exam consists	of development of se	emester	paper – independently		
developed presentation of exa	mples rela	ted to thematic units	5.						
Knowledge evaluation (r	naximun	n 100 points)							
Pre-exam requirements		points Final exam points							
Activity during lecturing				Written exam			70**		
Practical classes				Oral exam					
Colloquia		10 (out of	30)*	PAF	RT OF THE FINAL GRADI	E ¹⁰ of the	Study unit –		
Seminar-s Introduction to architecture and arts									
*Remaining points of pre-exam requirements (2x10) students achieve on the colloquies of the two other courses within the Study unit Introduction to architecture and arts. ** For each of the courses of the Study unit Introduction to architecture and arts (On architecture, Architecture today and Arts today) the semester									

paper is being produced by one-third of the total number of students enrolled in the first year of Undergraduate academic studies: Architecture. If more students apply, the selection will be made based on the results of colloquies during the semester.

⁹ Study unit Leader: Associate Professor Ph.D. Ljiljana M. Blagojević

¹⁰ The final grade is being awarded for the Study unit as a sum of points achieved on colloquies of all three courses within the Study unit Introduction to architecture and arts and points achieved through semester paper which students' choose to develop for one of the Study unit courses.

Study programme:	Un	dergraduate ac	ademic stud	ies Architectu	ure				
Type and level of studies	: Un	dergraduate ac	ademic stud	ies					
Course:	ST	UDY UNIT INTR	ODUCTION T	O ARCHITECT	FURE AND ARTS ¹¹ -	- ARTS	TODAY		
Teacher [.]	As	sociate professo	or M Sc. Mile	orad I. Mlade	nović /				
	Pro	ofessor Ph D M	liodrag P Šuv	vaković					
Type of course:		mulson		Validovic					
Type of course.		Inpuisory							
ECIS:	1								
Preconditions:									
<u>,</u> Objectives:									
The course objective is to provide initial information on contemporary art in general, as well as on forms and fields constituting the art. The students shall be introduced with basic concepts of arts today that will help them in further reflection and study of art themes, especially those that are important for the development of contemporary architecture. An important objective of the course is for students to perceive the width of context, themes and forms in which art subsists today and to enter the process of architectural studies aware of the limits and models reached by the contemporary art manifestation. The course objective is to enable students to perceive, recognize and interpret those manifestations.									
Learning outcomes:									
The development of high quality semester paper which will include experiences gained in the course. Theme frame that is taught relates to the widest possible framework of topics and concepts of contemporary art, its theoretical and practical consequences. Semester paper is not necessarily a scientific paper as it is individual and personal exploration of a selected topic through concepts and fields of contemporary art and it is focused on providing incentives to have concepts and topics of contemporary art recognized and included in later research and studies in architecture.									
Course brief:									
Theoretical education:									
The course objective is to provide initial information on contemporary art in general, as well as on forms and fields constituting the art. The students shall be introduced with basic concepts of art today that will help them in further reflection and study of art themes, especially those that are important for the development of contemporary architecture. An important objective of the course is for students to perceive the context, themes and forms in which art subsists today and to enter the process of architectural studies aware of the limits and models reached by the contemporary art manifestation. The course objective is to enable students to perceive and to recognize those manifestations. Also, an important									
Module Introduction to Archite	ctural Desi	gn.			emporary are may	be user			
Literature:		<u> </u>							
– H.Foster, R.Krauss, I.A.Bois, H	I.D.Buchloh	n, Art since 1900: M	lodernism,Antin	nodernism, Post	modernism, Thames ar	nd Hudso	n, London, 2005		
– Đ.K.Argan, A.B.Oliva, Modern	na umetnos	t 1770-1970-2000,	1-3, Clio, Beogr	ad, 2004.					
- P.Wood, G.Perry, G.(eds), Th	emes in Co	ntemporary Art, Ya	le University Pre	ess, New Haven,	2004.				
 M.Šuvaković, Pojmovnik suvi 	emene um	jetnosti, Horetzky, S	Zagreb, 2005.						
– M.Suvaković, Diskurzivna ana	aliza, Unive	rzitet umetnosti u E	Beogradu, Beogr	rad, 2006.					
Active training classes no.:	Due etient et		Othersteechin		Chudie veesevelu		Other:		
Lectures:	Practical ci	asses:	Other teachin	ig forms:	Studio research:				
Teaching methodology:	/		1		/				
Teaching is conducted mainly	through the	matic lectures le	ctures are follow	wed by a number	ar of examples of contr	mnoran	art and examples from		
various theme frame in which	h art takes	s place today. Tea	ching includes	guest lectures	and visits to current	exhibitic	ons or presentations of		
contemporary art. The teaching	g methodo	logy of the course	is compiled wi	th the Study un	it Introduction to arch	itecture	and art, as well as with		
other courses within it.	-		-						
Knowledge evaluation (n	naximum	100 points)							
Pre-exam requirements		points		Final exam		point	S		
Activity during lecturing		F		Written exam		1	70**		
Practical classes				Oral exam					
Colloquia		10 (out of	f 30)*	PAF	RT OF THE FINAL GRAD	E ¹² of the	e Study unit –		
Seminar-s		·			Introduction to archi	tecture a	ind arts		
*Remaining points of pre-exam	requireme	ents (2x10) students	s achieve on the	colloquies of th	e two other courses wi	thin the	Study unit Introduction		
to architecture and arts. ** For each of the courses of the	ne Study un	it Introduction to a	rchitecture and	arts (On archite	cture, Architecture tod	ay and A	rts today) the semester		

paper is being produced by one-third of the total number of students enrolled in the first year of Undergraduate academic studies: Architecture. If more students apply, the selection will be made based on the results of colloquies during the semester.

¹¹ Study unit Leader: Associate Professor Ph.D. Ljiljana M. Blagojević

¹² The final grade is being awarded for the Study unit as a sum of points achieved on colloquies of all three courses within the Study unit Introduction to architecture and arts and points achieved through semester paper which students' choose to develop for one of the Study unit courses.

Study programme:	U	ndergraduate ac	ademic stud	ies Architectu	ure				
Type and level of studies	s: Ur	ndergraduate ac	ademic stud	ies					
Course:	TH	E CITY: FORMS	AND PROCE	SSES					
Teacher:	As	sociate professo	or Ph.D. Alek	sandra B. Stu	ipar				
Type of course:	Co	ompulsory							
ECTS:	3								
Preconditions: /									
Objectives: Comprehensive and organized understanding of the phenomenon of the city, its development and transformations; introduction to basic properties, processes and forms of urban space, inter-linking of natural, socially-economic and technological context with architectural dimension of urban environment.									
Learning outcomes: Critical understanding of a city, its forming, role and transformations; establishment of relations among urban structure (architecture), activities and social changes; introduction to current processes/trends/visions and effects that might have on (dis)continuity of urban space.									
social changes; introduction to current processes/trends/visions and effects that might have on (dis)continuity of urban space. Course brief: Theoretical education: The course objective is to provide initial Teaching is directed towards introduction and overviewing the phenomenon of a city, its role and position within the context of society, technology and environment. Lectures emphasize the connection between the city and architecture through the study of form and elements of urban space, as well as of processes which directly or indirectly affect urban space and society. Considering key spatial and time/historical determinants, students are given timely comprehensive and multilayered image of a city, as a key node of contemporary existence. Practical education: / Literature: - Stupar A: Grad: forme i procesi, Beograd: AF (u pripremi) - Stupar A: Grad globalizacije - izazovi, transformacije, simboli, Beograd: AF, Orionart, 2009 - Nikezić, Z: Građena sredina, Beograd: AF, 2007 Koette, Spire, The City Shaned: Little Province and Meanings Through History. Aguton: A Bulfinch Proce Book: Little Province and Company: 1001									
Active training classes no.:	0/110/01/010	2001					Other:		
Lectures:	Practical o	lasses:	Other teachir /	ng forms:	Studio research: /				
Teaching methodology: Interactive teaching.	,	100 points)	,				l		
knowledge evaluation (r	naximum	1 100 points)		5 10 - 1					
Pre-exam requirements		points		Final exam		point	5		
Practical classes				Oral exam			U		
Colloquia		40							
Seminar-s									

Study programme:	U	ndergraduate ac	ademic stud	lies Architect	ure					
Type and level of studies	s: Ui	ndergraduate ac	ademic stud	ies						
Course:	A	RCHITECTURAL S	TRUCTURES	1: Elements	of buildings' mater	rializati	on			
Teacher:	As	sistant professo	r Dušan M.	lgnjatović	_					
Type of course:	Co	ompulsory								
ECTS:	2									
Preconditions:										
Objectives:										
The main objective is to introd	The main objective is to introduce students to basic terminology, principles and materialization elements of a building.									
Learning outcomes:										
Overview of the logic of designing and materialization of buildings in the massive construction system.										
Course brief:										
Theoretical education:										
Concepts, principles, building	materials:	structural assemblie	s, foundations,	vertical structu	ral elements, horizonta	al structu	ral elements, insulation			
against humidity and water, hy	/dro and th	ermal insulation, fla	t roof, windows	s, doors, staircas	es, coverings, processir	ng, finishe	es.			
Literature:										
 Textbooks on Architectural s 	tructures 1	, Arhitektonski Faku	ltet							
 – Građevinske konstrukcije, M 	. Mitag, Gr	ađevinska knjiga, 20	03.							
– Arhitektonske konstrukcije, A	A. Deplazes	s, Građevinska knjiga	, 2008.				-			
Active training classes no.:							Other:			
Lectures:	Practical of	classes:	Other teachir	ng forms:	Studio research:					
2	/		/		/					
Teaching methodology:										
Ex cathedra lectures.										
Knowledge evaluation (n	naximum	n 100 points)								
Pre-exam requirements		points Final exam points								
Activity during lecturing		Written exam 70								
Practical classes		Oral exam								
Colloquia		30								
Seminar-s										

Study programme:	Ur	dergraduate ac	ademic stuc	lies Architecti	Ire				
Type and level of studies	e. E. Ur	dergraduate ac	ademic stuc						
Type and level of studies	5. 01								
Course:	101/								
leacher:	As	sociate professo	or Ana P. Ra	divojević,					
	As	sistant professo	r M.Sc. Nata	aša D. Cuković	ć-Ignjatović,				
	Pro	ofessor Lidija s. I	Djokić,						
	Pr	ofessor Miomir i	m. Mijić						
Type of course:	Со	mpulsory							
ECTS:	3								
Preconditions:									
<u></u> Objectives:									
Introducing students with basic properties of the most important groups of materials, as well as with physical phenomena to which buildings are exposed. Through an overview of selected materials performances, special attention is given to their performances against water/humidity, and thermal properties of materials. By studying selected characteristics and performances of materials, students gain awareness of their potential, on protrupities and manners in which they are applied in architectural buildings. As well as of a causal connection that selection of material has on									
the building performance as a	whole, i.e.	on the accomplishm	ent of necessa	ry comfort (therr	nal, air, light and soun	d).			
Learning outcomes:	· ·	•		•	-				
By completing the course, stud	dent should	:							
 Master basic terminology ar 	nd informati	on on materials in a	rchitecture,						
 Be aware of main properties 	s (nature) of	materials and their	potentials,						
 Understand what are opported opport	tunities and etween nati	d manners in which ure of material and	different mate the way in wh	erials are applied nich it is used in	on architectural build the process of buildin	ing and h gs' mater	ave awareness of inter- rialization regarding the		
complete performance of a	building,								
 Know what is comfort in terr 	ms of buildi	ngs and what are th	e forms,						
 Have basic knowledge on ea 	ach form of	comfort - its physic	ological basis,	parameters and	limits, as well as meas	ures prov	viding that comfort, and		
especially basic properties o	f materials	relevant to provide a	any comfort.						
in practice	ugn the ana	lysis of different exa	imples taught i	n classes, learn t	o apply acquired know	ledge and	d verify it in actual cases		
Course brief:									
The protion of westion									
Introduction – mutual relation Classification of materials; Na changes of material; Stone an wooden products; Metals; Gla	ship betwee ature of ma d stone ma ss; Polymer	en environment, bui terials – Basic phys Iterials; Brick and cla s and plastics; Prote	lding and mate ical properties ay products; C ctive materials	erials; Concept ar , performances ; onnective materi , Composite mate	nd types of comfort – t against water, therma ials and aggregates, pl erials.	hermal, a I and me asters an	ir, light and sound. chanical performances, d concretes; Wood and		
Literature:		1 /		· · ·					
 Textbook – lectures' extract; 	s								
 Mihailović-Ristivojević MO. 	sobine i per	formanse materijala	u arhitekturi.	Arhitektonski fak	ultet Univerziteta u Be	ogradu. E	Beograd. 1995.		
 Lyons A., Materials for Archi 	tects and B	uilders, Butterworth	-Heinemann, C	Dxford, 2002.		-8,-			
- Ballard Bell V., Materials for	Architectur	al Design, Laurence	King Publishing	g, London, 2006.					
– Jovanović-Popović M., Zdrav	o stanovanj	je, Arhitektonski fak	ultet, Beograd,	1991.					
 – Đokić L., Osvetljenje u arhite 	ekturi – zaht	evi i smernice za pro	ojektovanje, Ar	hitektonski fakul	tet, Beograd, 2007.				
 Kurtović H., Akustika za arhit 	ekte, Akade	emska misao, Beogra	ad, 2002.						
 Szokolay S., Introduction to . 	Architectura	al Science, Architetu	ral Press, 2004						
Active training classes no.:					I		Other:		
Lectures:	Practical c	lasses:	Other teachi	ng forms:	Studio research:				
s Tooching mothodoles:::	1		1		/				
Teaching methodology:				с I					
Ex cathedra lectures, interact involvement, consultation.	ive teachin	g with presentation	and analysis	of examples and	d tasks, followed with	discussio	on and students' active		
Knowledge evaluation (r	naximum	100 points)							
Pre-exam requirements		points		Final exam		points	5		
Activity during lecturing		. 10		Written exam			50		
Practical classes				Oral exam					
Colloquia		40				1			
Seminar-s									

Study programme:	U	Undergraduate academic studies Architecture							
Type and level of studies	: Ui	ndergraduate ac	ademic stud	lies					
Course:	Μ	ATHEMATICS IN	ARCHITECT	URE					
Teacher:	Pr	ofessor Ph.D. Lji	ljana S. Petr	uševski					
Type of course:	Co	ompulsory							
ECTS:	2								
Preconditions:									
1									
Objectives:									
Students' introduction with ma	athematics	fields relevant for a	pplication with	in the architectu	ral geometry.				
Learning outcomes:									
Ability to apply mathematics w	ithin the a	rchitectural geomet	ry.						
Course brief:									
Theoretical education:									
Vector calculations. Analytic g	geometry i	n space – with emp	phasis on the p	parametric appr	oach suitable for appli	ication i	n terms of architectural		
geometry. Straight line. Plane	Curves in	space. Surfaces in	space. Generat	ive algorithms o	of surfaces. Curves on s	surfaces.	Affine transformations.		
Geometric algorithms. IFS. Loo	ps. Recursi	ion. Symmetries. Alg	orithms of frac	tal geometry. L-s	systems. Cellular autom	аtа. Лан	щи Маркова.		
Practical education:									
of applying gained knowledge	cal educat	ion and are a way to	adopt necessa	ary knowledge. <i>P</i>	At the same time, they	indicate	the level of competence		
literature.			geometry.						
– Michael Frame, Benoit Man	lelbrot an	d Nial Neger Fractal	Geometry Val	e University Aug	aust 22 2007				
 http://classes.vale.edu/fract 	als/		Geometry, rai	e oniversity, Aug	just 22, 2007				
Active training classes no.:	,						Other:		
Lectures:	Practical of	classes:	Other teaching	ng forms:	Studio research:				
2	/		1		1				
Teaching methodology:									
Ex cathedra lectures, practical	classes – ir	nteractive teaching in	n electronic en	/ironment.					
Knowledge evaluation (n	naximum	100 points)							
Pre-exam requirements		points		Final exam		point	S		
Activity during lecturing				Written exam			30		
Practical classes		40 Oral exam							
Colloquia		30							
Seminar-s		1							

Study programme:	Ui	ndergraduate ac	ademic stud	ies Architectu	ıre					
Type and level of studies	s: Ur	ndergraduate ac	ademic stud	ies						
Course:	AF	RCHITECTURAL G	GEOMETRY 1							
Teacher:	As	sistant Professo	r Ph.D. Djor	die D. Diordie	vić					
Type of course:	Co	mpulsory	,	<u>, , , ,</u>						
FCTS	3									
Preconditions:	5									
/										
Objectives:										
 Development of logical and 	creative thi	nking. ability of com	prehensive rev	iew and professi	onally competent read	ing of thr	ee-dimensional space			
and improving the skills of imagination;										
 Introduction with geometry of architectural forms (bodies, surfaces and their compositions) observed in practice and used to define the structural and partition elements – of both interior and exterior: 										
 Introduction with the method 	ods of geom	etric and structural	processing and	two dimensiona	l presentation of 3D fo	rms appli	ied in architecture and			
urbanism – "orthogonal projections" obtained from parallel rays of perception and in accordance with the requirements of CAAD technology.										
Learning outcomes:										
Acquiring the necessary knowledge in the domain of architectural geometry, as well as of geometric - structural procedures required to define										
architectural form of complex	geometries	and their comprehe	ensive presenta	tion in orthogon	al views.					
Course brief:										
Theoretical education:										
Introduction with geometry o	f architectu	ral forms (bodies, su	urfaces and the	ir compositions)	observed in practice a	and used	to define the structural			
and partition elements – of b	oth interio	r and exterior; as w	ell as with the	methods of geo	metric and structural	processin	ig and two dimensional			
presentation of 3D forms ap	onts of CA/	D technology	anism – ortho	gonal projection	is obtained from pa	rallel ray	s of perception and in			
Practical education:		D teennology.								
Training students for product	ivo annlicat	ion of acquired the	oratical knowla	dae – solvina sp	acific geometric proble	ms takor	out from architectural			
and urban design practice.			bretical knowle	uge solving sp	eeine geonietrie proble					
Literature:										
 Graphic templates for lecture 	res /A4. Lec	tures' extracts are a	vailable to stud	ents electronical	ly on the Faculty webs	ite.				
 Graphic templates for practice 	ical classes	A4. Solutions of give	en tasks are ava	ailable to studen	ts electronically on the	Faculty v	vebsite.			
– Gagić, Lj.(2004), Nacrtna ge	ometrija, Al	ademska misao, Be	ograd			,				
– Živanović, S., Čučaković, A. (2008), Zbirl	ka zadataka iz nacrtr	ne geometrije i	perspektive sa re	šenim primerima, Aka	demska n	nisao, Beograd,			
– Anagnosti, P. (1986), Nacrtn	a geometrij	a, Naučna knjiga, Be	eograd,							
– Potmann, H. Asperl, A., Hofe	er, M. & Kili	an, A. (2007), Archit	ectural geomet	ry, Bemntley Ins	titute Press, Exton, Pe	nnsylvani	a – USA			
Active training classes no.:							Other:			
Lectures:	Practical o	lasses:	Other teachir	ng forms:	Studio research:					
Z	I		/		1					
Loctures and practical classes	aro hold sin	aultanoously in Facu	lty amphitheat	ro with the sim t	o ostablish intoractivity	, hotwoo	n students and lecturor			
supported by modern didactic	means		ity ampintieat	re with the ann t	o establisit interactivit	y betwee	in students and lecturer,			
Lectures: Lectures involve inte	eractive con	nmunication with stu	udents: debates	s and discussions	during the work on gr	aphic pre	sentations that follow a			
theme overviewed on lectures	5.				0					
Practical classes: Tasks follow	thematic ur	nits presented during	g lectures.							
Work on the development of	practical tas	k is individual, with	active consulta	tion with all part	icipants of the course					
Knowledge evaluation (r	maximum	100 points)								
Pre-exam requirements		points		Final exam		points	5			
Activity during lecturing				Written exam			40			
Practical classes		20		Oral exam						
Colloquia		2x20=4	10							
Seminar-s						1				

Study programme:	U	ndergraduate ac	ademic stud	ies Architectu	ure				
Type and level of studies:	U	ndergraduate ac	ademic stud	ies					
Course:	TF	RANSFORMATIO	N OF GRAPH	IICAL FORM					
Teacher:	As	sociate Professo	or M.Sc. Duš	an M. Stanisa	vliević				
Type of course:	Co	ompulsory			J ²				
FCTS	2								
Preconditions:									
/									
Objectives:									
The course objective is to theorethicaly and practically introduce students-beginners by selected thematic units with manners of formulation of articulated graphical forms and their transformations into new affirmative forms appropriate for practical use, as well as with manners of comprehensive visual presentation – from preliminary researching sketches, over precise engineering drawing to manually or computerly generated three-dimensional model.									
Learning outcomes:									
Research – through genesis ar	d transfo	rmation of graphic	form / Implem	entation – throu	ugh study and applicat	tion of g	aphical techniques and		
technologies / Routine – through direct graphical experience / Communication – through the process of coding and de-coding of graphic meaning / Responsibility – through making graphical decision / Efficiency – through rational use of time and choice of appropriate graphic techniques and technology / Factography – through permanent graphical and textual recording of all characteristic stages of work / Valorization – through a graphical comparison / Authorship – through independent work on graphics / Collaboration – through sharing of knowledge and experience of graphic / Collegiality – through mutual trust and respect									
Course hrief									
Theoretical education:									
Interactive and ad hoc lectur	es: Shape	and its properties	Geometric	and proportion	al form analysis / Ele	ements c	f a graphic expression		
(typography, photography, eng presentation of geometrized for Presentation concept, pre-press	ineering o orm / Ma s, format,	drawing) / De-comp nners of modeling p digital printing, grap	osing graphica presentation of hic finishing, ex	l elements / Tra spatial form / I chibition concept	nsformation of graphi Mutual relationship be	cal form etween fo	/ Manners of graphical orm and environment /		
Practical education:			0.						
The cognitive part of the cour	se is inte	nded for students t	o be introduce	ed with selected	two-dimensional arti	culated g	raphical forms through		
geometrical and proportional	analysis. (Creative part of the	course consis	ts of applying tl	he method of decomp	oosing or	graphical elements to		
transform them into new visual	appearan	ces which in inext st	age will be trar	islated into three	e-dimensional graphica	l or spati	al form.		
The executive pat of the course	e consists	of making a spatial	model and a s	et of representa	tive graphics displaying	g phases	of a creative procedure		
Literature:	apily allu	precise engineering	urawing.						
- Stanisavljević D / Grafičko pr	odstavlian	ie oblika u prostoru	/Arb fakultet	Bad 2000					
– Stanisavljević D. / 2D Design	Arhitekto	onski fakultet. Beogr	ad. 2005	bgu. 2000					
Active training classes no.:							Other:		
Lectures:	Practical o	classes:	Other teachir	ng forms:	Studio research:				
/	2		/		/				
Teaching methodology:									
In classrooms: Interactive and a	d hoc lect	tures indicating intro	oduction to wo	rking tasks, analy	sis of characteristic ex	amples;	formulation of graphical		
concept and simulation of real	zation pro	ocess. Individual cor	sultations are	held in professo	r's office. Privately: Co	omposing	graphical contents and		
preparation for production. Pril	iting servi	ces: Realization (wit	n possible extra	a work at nome).					
Knowledge evaluation (m	aximum	100 points)							
Pre-exam requirements	s points Final exam points					5			
Activity during lecturing		Written exam 30					30		
		70 Oral exam							
Seminar-s									

Study programme:	Undergraduate acad	demic studi	ies Architectu	ure				
Type and level of studies:	Undergraduate acad	Undergraduate academic studies						
Course:	STUDY UNIT ELEME	NTS OF AR	CHITECTURAI	L DESIGN ¹³ –				
	ELEMENTS OF ARCH	HITECTURAL	DESIGN					
Teacher:	Associate Professor	Associate Professor M.Sc. Zoran R. Abadić						
Type of course:	Compulsory	Compulsory						
ECTS:	8							
Preconditions:								
/								
Objectives: Students' introduction with basic principles of architectural design and composition, structure of architectural design, dimensioning, measurements and proportions, architectural analysis, the logic of spatial organization, elements of the architectural programme and space shaping for a real use by given function.								
Learning outcomes:								
Through two simple design tasks and	two exercises, students de	evelop abilitie	s of self- reflecti	ion, analytical observat	tion and a	pplication of graphical		
and visual skills on a proper architec	ural design with the aim to	o create reada	ble presentation	n of reality – from a de	sign brief	, sketch, concept to the		
architectural conceptual design.								
Course brief.	Course brief:							
<u>Theoretical education:</u> Theoretical education includes one class per week with two hours of lectures + three tests. Lectures are held by the course teacher with teachers from the Department of Architecture. Titles of lectures are: Elements, Labeling, Scale, Context, Concept, Form, Activities, Simulation, Diagram, Organization, Dimension, Utility, Connections and Comfort. The course lasts 15 working weeks in the school. Teaching duration is 15 workweeks.								
Practical								
Practical classes include one 4hours	lass per week. These class	es are held by	teaching assista	ants/associates from th	ne Depart	ment of Architecture.		
along with volunteering senior stude	nts. Practical classes are inf	tended for stu	idents to directly	y apply knowledge gair	ned at lec	tures through two		
architectural exercises, 1. Sign and 2	Comfort, and two archited	ctural assignm	ents, 1. Lightho	use and 2. Beach keep	er house.			
The course lasts 15 working weeks in	the school.							
Literature:								
– Milenković, Branislav : Uvod u arhi	tektonsku analizu, GK, Beog	grad, 1988.		4055				
- Le Corbusier : Modulor 2. London,	(1022) 4 izd Boograd Gr	nisned as Le IV rađovinska knj	iodulor II, Paris,	1955.				
- Francois De Pierrefeu Le Corbusier	: Savremena kuća dostojna	a liudi. GK. Be	ograd. 1956.					
- Le Corbusier : Talks with students.	New York, Orion Press, 196	61, 83 n.	08.00, 19900					
Active training classes no.:		o1) oo p:				Other:		
Lectures: Pract	ical classes:	Other teachin	g forms:	Studio research:				
2 4	,	/		/				
Teaching methodology:								
Worksop, projects, lectures, discuss	ons, critics, presentations,	, consultation	s. Positive and	stimulating atmospher	e among	students and teachers.		
Verification of one's work in front of	other students and teache	ers.						
Knowledge evaluation (maxin	num 100 points)	I						
Pre-exam requirements	points		Final exam		point	S		
Activity during lecturing	10		Written exam			20		
	<u>د</u> م				F ¹⁴ of the	10 Study unit –		
Seminar-s	Elements of architectural design				esign			

¹³ Study unit Leader: Associate Professor M.Sc. Zoran R. Abadić

¹⁴ The final grade is being awarded for the Study unit as a sum of single grades achieved on each of courses depending on the number of ECTS.

Study programme:	Ur	ndergraduate ac	ademic stud	ies Architect	ure		
Type and level of studies	: Ur	Undergraduate academic studies					
Course:	ST	STUDY UNIT ELEMENTS OF ARCHITECTURAL DESIGN ¹⁵ – VISUAL ART FORMS					
Teacher:	Pr	ofessor M.Sc. Br	anko D. Pav	ić			
Type of course:	Co	Compulsory					
ECTS:	2	2					
Preconditions:							
Objectives:							
The course objective is to provide students with comprehensive understanding, practicing and application of fine arts in the field of architecture. Also, to introduce students with various forms of fine arts and their contemporary forms and interpretations, which will provide them a professional approach to visual expression and work							
Learning outcomes:							
Understanding and acceptance of knowledge and practical experiences in visual presentation and transposition of forms and space, as well as the application of these skills in the work within the Studio Design.							
Course brief:							
Introduction in visual presentat	tion / Prepa	arations for presenta	ations of fieldw	ork / Linear con	struction of space persp	pective a	nd proportions / Shape
and space / Contrast / Shape a	nd Valero /	materialization / M	odeling / Artist	ic transposition	of model / Introduction	in visua	l presentation /
Concepts, relations and meaning	ngs / Imme	diate environment					
Literature:							
 Pavle Vasić, Uvod u likovne u Zavan Daulavić, Drastan skliku 	imetnosti, l	Fakultet likovnih um	ietnosti, Beogra	id, 1968.			
- Zoran Paviovic, Prostor oblika	a i boje, Kii	o,Beograd, 1997.	1072				
– Johanes Iten, Omethost boje	, Unietnick vizuolno or	a akaŭenija, Beogra	iu, 1973. umotnosti Tim	othy Somora Do	sign Flomonts Pocknor	+	
– H V Dženson Istorija umetno	sti Beogra	d 1983 or later editi	ions	Stily Salilala, De	sign Liements, Nockpor	ι.	
Active training classes no.:	000, 2008.0						Other:
Lectures:	Practical c	classes:	Other teachir	ng forms:	Studio research:		
1	1		1		1		
Teaching methodology:							
Keynote lectures and practical	classes, wh	nich are grouped by i	methodologica	l demands and tl	heme frame.		
Knowledge evaluation (m	naximum	100 points)					
Pre-exam requirements		points		Final exam		point	S
Activity during lecturing		10		Final portfolio			50
Practical classes				Oral exam			
Colloquia		20+20 PART OF THE FINAL GRADE ¹⁶ of the Study unit –					e Study unit –
Seminar-s Elements of architectural design							

¹⁵ Study unit Leader: Associate Professor M.Sc. Zoran R. Abadić

¹⁶ The final grade is being awarded for the Study unit as a sum of single grades achieved on each of courses depending on the number of ECTS.

Study programme:	U	ndergraduate ac	ademic stud	ies Architectu	ure		
Type and level of studies	s: Ui	Undergraduate academic studies					
Course:	ST	STUDY UNIT ELEMENTS OF ARCHITECTURAL DESIGN ¹⁷ – ARCHITECTURAL GRAPHICS					
Teacher:	As	Associate Professor M.Sc. Dušan M. Stanisavliević					
Type of course:	Co	Compulsory					
FCTS	2						
Preconditions:							
Objectives:							
The primary goal of the course is to provide graphical support to the final work in the course Elements of architectural design through a serie of appropriate design tasks, by respecting individual authorial graphical concept and by using adequate presentation procedures and available graphic technologies to turn creative idea into affirmative architectural drawing, manual or computer model, photography or text. The secondary goal of the course is independent application of acquired knowledge and skills in development of final graphic and modelling presentations in other courses at the Faculty which are based on geometrized graphical presentation and contemporary graphic design. Learning outcomes: Genesis of a form – through a sketch as a monolog and a drawing as a dialogue / Implementation – through study and application of graphical techniques and technologies / Routine – through direct graphical experience / Communication – through the adoption of graphical conventions / Responsibility – through making graphical decision / Efficiency – through rational use of time and choice of appropriate graphic choniques and technology / Progress – through permanent confrontation with increasingly complex demands / Valorization – through a graphical comparison / Authorship – through independent work / Collaboration – through sharing of knowledge and experience of graphic / Collegiality – through mutual trust and respect.							
Course brief							
Theoretical education							
Interactive and ad hoc lectures: Assistive graphical systems: grid and matrix / Genesis of form through activation of parts of graphical matrix / Visual concept by composing of graphical elements / Manners of graphical representation via geometrical construction (orthographical and axonometric drawing) / Graphical identification codes / Transformation of graphical form / Graphical representation of shapes in space / Visual perception and compared experience of graphical forms formation of graphical forms formation of graphical systems.							
Practical education:							
Two-dimensional graphic presentation: sketch, graphical reconstruction, graphical matrix, ortography, linear and surface materialization / Three- dimensional graphic presentation: sketch, graphical construction (axonometry, isometry), form and anti-form, spatial graphical matrix and grid, surface materialization (light, shadow, color), decomposing of graphical form / Graphical representation of shapes in space (elevations, sections, isometrical views) / Graphical analysis of dimensional, proportional and volumetric relations / Decomposing of spatial structure / Representation of spatial structure via manually or computerly produced model and photography / Design and implementation of representative exhibition panel. Literature:							
Active training classes no.:	neustavijan		/ Am. lakultet,	bgu. 2000			Other:
Lectures:	Practical o	lasses:	Other teachir	ng forms:	Studio research:		
/	2		1	-	1		
Teaching methodology: In classrooms: Interactive and concept and simulation of rea	ad hoc lect alization pro	tures indicating intro ocess. Individual cor	oduction to wo	rking tasks, analy held in professo	vsis of characteristic ex r's office. Privately: Co	amples; f mposing	formulation of graphical graphical and
Knowledge evaluation (navimum	100 noints		. work at nonlej.			
Dre-evan requirements	naximun	noints		Final exam		nointe	
Activity during locturing		points		Written ovom		points	40
Practical classes		60		Oral exam			40
Colloquia				ΡΔΓ	T OF THE FINAL GRAD	E ¹⁸ of the	Study unit –
Seminar-s		Elements of architectural design					

¹⁷ Study unit Leader: Associate Professor M.Sc. Zoran R. Abadić

¹⁸ The final grade is being awarded for the Study unit as a sum of single grades achieved on each of courses depending on the number of ECTS.

Study programme:	Undergraduate ad	cademic stud	lies Architect	ure			
Type and level of studies:	Undergraduate ad	Undergraduate academic studies					
Course:	HISTORY OF MOD	HISTORY OF MODERN ARCHITECTURE AND URBANISM					
Teacher:	Associate Profess	Associate Professor Ph.D. Ljiljana M. Blagojević					
Type of course:	Compulsory						
ECTS:	2						
Preconditions:							
Objectives:							
The main objective is to present stu with basic knowledge on the impor works of individual architects, to gi Additionally, the course aims for st	idents with an introductio tant movements, authors ve students wider relevan udents to connect theoret	on into studies o and their ideas, t base groundec tical knowledge	f history of mode , concepts and re d on the historica from lectures wi	ern architecture and ur ealizations, and through al perspective and cultu ith their design engage	banism a n analysis ıral and s ments.	nd to introduce them of movements and ocio-political context.	
Learning outcomes:		Ŭ					
Students are expected to acquire f	ollowing abilities: basic ur	nderstanding an	d systematizatio	n of knowledge on ma	in trends	in modern architecture	
and urbanism; basic knowledge o	n important authors and	works of mode	rn architecture a	and urbanism worldwi	de and ir	n Serbia; formulation of	
wide relevant basis on historical pe	rspective and cultural and	d socio-political	context; initial k	nowledge on theories of	of avant-g	garde and modernism in	
knowledge on comprehensive, syst	ematic and original preser	ntation of a wor	uesign; basic un k.	derstanding of the me		esearch by design; basic	
Course brief:							
Theoretical education:							
Through reviewing and problemati	c lectures, presentations o	of case studies (e	ex cathedra) and	interactive teaching, t	he course	e deals with several	
theme frames: visionary architectu	re and urbanism of 18 th ar	nd 19 th century;	groundbreaking	trends in architecture a	and urbai	nism at the beginning of	
20 th century; avant-garde moveme	nts in architecture and urb	banism of 20 th ce	entury: theory ar	nd practices; modern m	ovement	t in architecture and	
Literature:	erpretation of modern arc	chitecture and u	irbanism in curre	ent architecture.			
Sigfrid Gidion Prostor vromo i a	bitaktura Roograd: Građ	ovinska knjiga 2	002				
- Kenet Frempton, Moderna arhite	ktura: kritička istorija. Beo	ograd: Orion, 20	.002 104				
 – Ljiljana Blagojević. Moderna kuća 	u Beogradu, 1920-1941. E	Beograd: Zadužb	oina Andrejević, 2	2000			
– Ljiljana Blagojević. Modernism in	Serbia: The Elusive Margir	ns of Belgrade A	rchitecture, 191	9-1941. Cambridge, Ma	ss.: MIT	Press in association	
with Harvard University Graduat	e School of Design, 2003						
Active training classes no.:				1		Other:	
Lectures: Pra	ctical classes:	Other teachir	ng forms:	Studio research:			
2 /		/		/			
Teaching methodology:			ulia atualanta'u				
development of a semester paper	atheora lectures, interact	tively through p	ublic students	presentations, individu	ai and pu	idiic consultationas and	
Pre-exam requirements include t	aking 2 colloquies —tests	intended for	a check on stu	dents' consistency in	classes.	The exam includes the	
development of a semester paper	using research by design	method, which	includes cases	tudy, analisys, conclus	ion draw	ing and creative design	
interpretations of one thematic un	t by choice.	-				с с	
Knowledge evaluation (max	mum 100 points)						
Pre-exam requirements	points		Final exam		points	5	
Activity during lecturing	10		Written exam			40	
Practical classes			Oral exam				
Colloquia	30+20=	=50					
Seminar-s							

Study programme:	Undergraduate a	cademic stuc	lies Architect	ure			
Type and level of studies:	Undergraduate a	Undergraduate academic studies					
Course:	HISTORY OF MOD	HISTORY OF MODERN ART AND DESIGN					
Teacher:	Professor Ph.D. V	Professor Ph.D. Vladimir F. Mako					
Type of course:	Compulsory						
ECTS:	1						
Preconditions:							
/							
Objectives:							
The course objective is to introduc	e students with the histor	y and theory of	fine arts, design	and visual culture. The	lectures	chronologically follow	
art concepts from the emergence	of industrial design to post	tmodernism. Th	e course elabora	tes issues of visual artv	vork, fun	ction of art, connections	
between fine arts and its theory, a	is well as the most diferent	t questions rega	rding the relatio	ns and interactions bet	ween vai	rious arts in the context	
Learning outcomes:							
Understanding of different theore	tical aesthetical concent	ual and discursi	ve relations feat	uring the relationshin	hetween	art design and shaning	
from the industrial revolution to t	oday.				setween		
Course brief:							
Theoretical education:							
Theoretical education gives chron	ological study and conside	ration of concep	ts and moveme	nts in modern arts and	design ap	oplying the method of	
discursive analysis, by which are d	efined certain knowledge	objects and forn	ns for elaboratio	n of concepts and theo	ries. Lect	ures provide knowledge	
on the world of art representing t	ne type of application whe	re artwork react	s to the cultural	context in which it was	created	. An artwork placed in	
different concepts has different m	eanings. Thus, the status c	of artwork is not	universal and or	ut-contextual, but inter	active an	d linked to the context	
in which the artwork is observed,	interpreted, understood of	r experienced. D	iscursive analysi	s is a platform from wh	ich theoi	ry of art and design is	
communication forms. Lectures a	a trying to process differen	orks to the cult	rt stating the art	echanisms of an era universal	ougn vei	bal speech and other	
literature:	e trying to process unreren		it stating the art				
– Miško Šuvaković Pojmovnik teo	rije umetnosti. Orion art 1	Beograd 2012					
– Miško Šuvaković, Pojmovnik su	remene umietnosti. Horet	zky Zagreh Ghe	ont 2005				
– Miško Šuvaković, Konceptualna	umetnost. Muzei savreme	ne umetnosti Vo	pivodine. Novi Sa	ad. 2007.			
– Đilo Dorfles, Uvod u dizajn - Jezi	k i istorija serijske proizvod	dnje, Svetovi, No	vi Sad, 1994.				
– Ješa Denegri (ed.), Dizajn i kultu	ra, SIC, Beograd, 1980.						
Active training classes no .:						Other:	
Lectures: Pr	actical classes:	Other teachi	ng forms:	Studio research:			
1 /		/		/			
Teaching methodology:							
Lectures according to previously	set schedule. Standing one	e-week consulta	ition in students	may resolve all issues	related	to the teaching content	
and inform themselves about colo	vincum 100 points)						
Knowledge evaluation (max					in a lint		
Artivity during lasturing	points		Final exam		point	5 70	
Activity during lecturing Practical classes			Oral exam			70	
Colloquia	20						
Seminar-s							
-			1				

Study programme:	Undergraduate a	cademic stuc	lies Architect	ure		
Type and level of studies:	Undergraduate a	Undergraduate academic studies				
Course:	URBAN MORPHO	URBAN MORPHOLOGY				
Teacher:	Professor Ph.D. V	'ladan A. Diol	kić			
Type of course:	Compulsory	j-				
	2					
Due e un dittie un eu	5					
/						
Objectives:						
Introduction to the phenomenor	of morphological characte	ristics of the city	. Complex study	of key morphological of	haracteri	stics of urban areas and
their interdependence with func	ional characteristics as wel	l as with cultura	l context in whic	h they are located. The	overall p	henomenon of the
urban structure is observed mor	hogenetically, i.e. within the	ie historical con	tinuity of its crea	ition, development and	changes	through time.
Introduction with specificities of		cs of cities in se	rbia resulted froi	in cultural identity of o	urenviroi	iment.
Learning outcomes:	annon of urban marnholog	y and typologics	al overview of m	orphological charactori	stics of u	rhan chacas. Knowladga
on key morphological characteris	tics of cities in Serbia and c	auses of found s	tates			ball spaces. Knowledge
Course brief:			interes.			
Theoretical education:						
A: PHENOMENON						
1. Main determinants of urban m	orphology					
2. Positions of urban structures a	nd distribution of elements					
3. Unit by urban space dimension	ing					
4. Shape of urban space	asis for its understanding					
7. Relation between function and	physical structure of the ci	tv				
8. Morphogenesis of urban space		-,				
9. Understanding the way of use	of urban space by Cultural i	dentity				
B: SPECIFICITIES OF OUR ENVIRO	NMENT					
10. Cultural identity of our enviro	nment					
11. Morphological characteristics	of cities in Serbia					
12. Functional characteristics of	itles in Serbia	ia				
14. Transformation of inherited	tructures	ia				
Practical education:						
/						
, Literature:						
– Diokić, Vladan, Urbana morfol	gija - grad i gradski trg. Bec	ograd: Arhitekto	nski fakultet Univ	verziteta u Beogradu. 2	004.	
– Djokić, Vladan. Urbana tipolog	ja: gradski trg u Srbiji. Beog	rad: Arhitektons	ski fakultet Unive	erziteta u Beogradu, 20	09.	
– Kostof, Spiro. The City Shaped:	Urban Patterns and Meani	ngs Through His	tory. Boston: A B	ulfinch Press Book: Litt	le, Browr	and Company, 1991.
– Kostof, Spiro. The City Assemb	ed: The Elements of Urban	Form Through H	listory. Boston: A	A Bulfinch Press Book: L	ittle, Bro	wn and Company,
1992.						
 Krier, Rob[ert]. Urban Space. L 	ondon: Academy Editions, 1	.979.				
Active training classes no.:						Other:
Lectures: P 3 /	ractical classes:	Other teachin	ng forms:	Studio research: /		
Teaching methodology:						
Interactive teaching.						
Knowledge evaluation (ma	ximum 100 points)				1	
Pre-exam requirements points Final exam points				5		
Activity during lecturing			Written exam		ļ	50
Practical classes		Oral exam				
Colloquia	50					
Seminar-s						

Study programme:	Uı	ndergraduate ac	ademic stud	ies Architectu	ure		
Type and level of studies	: Uı	Undergraduate academic studies					
Course:	A	RCHITECTURAL S	TRUCTURES	2			
Teacher:	As	sistant Professo	r Zoran M. S	stepanović (co	ourse leader).		
		sistant Professo	r Dragan n	Marčetić			
Type of course:	Co	ompulsory	- Druguri m				
ECTS:	2						
Preconditions:							
Objectives:							
Introduction with basic termine	ology, prine	ciples and elements	of roof materia	lization, and phy	vsical phenomena to wi	hich the k	ouilding is exposed.
Through the course the studen	ts master t	he logic of designing	g and building r	nethods of struc	tures in the massive co	nstructio	n system.
Learning outcomes:							
Information, understanding an	d readines	s of students to be	able to deal w	ith, to the practi	cal sense through the	next pra	ctical education system,
the logic of design and constru-	ction meth	ods of roof structure	e of buildings ir	n massive buildin	g systems.		
Course brief:							
Theoretical education:							
Pitched wooden roofs: Introdu	ction, class	ification					
Traditional wooden roof struct	ures: close	d couple roof, rafter	tie and collar t	ie			
Traditional wooden roof struct	ures: purlir	n roof structures – ki	ng and queen I	oost truss			
Traditional wooden roof struct	ures: roof t	trusses with purlins,	mono and dua	l pitched roofs			
Contemporary wooden root str	uctures						
Roof finishes, introduction, ter	minology	overings' intersectio	n auttors dat	aile			
Roof covering – materials, class	chimpour	vontilation	on, gutters, det	alis			
Finishing and isolation	chinneys,	ventilation					
Flooring, walls and ceilings finis	hing.						
Practical education:							
Practical classes are related to	Arch, Struc	tures 2 Studio desig	n.				
Literature:							
- Branislav Žegarac: Tradiciona	lne i savre	mene drvene krovne	konstrukcije	Reograd Regija	2007		
 Miodrag Petrović: Arhitektor 	iske konstr	ukcije 1 i 2. Beograd	ICS. 1978.	beograa, negija,	2007.		
– Wolfgang Brennecke, Heiko I	-olkers, Fri	edrich Haferland, Fra	anz Hart: Atlas	krovnih konstruk	cija-kosi krovovi. Beog	rad. Grad	tevinska knjiga, 1990.
– Martin Mittag: Gradievinske	konstrukci	ie. Beograd. Građevi	nska knjiga. 20	03.		, 0	
 Eberhard Schunck, Hans Joch 	en Oster,	Rainer Barthel, Kurt	Kiessl: Roof Co	nstruction Manu	al - Pitched roofs, Base	l, Birkhau	iser - Publishers for
Architekcture, 2003.							
Active training classes no.:							Other:
Lectures:	Practical of	classes:	Other teachir	ng forms:	Studio research:		
2	/		/		/		
Teaching methodology:							
System of lectures.							
Knowledge evaluation (n	naximum	100 points)					
Pre-exam requirements		points		Final exam		points	S
Activity during lecturing				Written exam			70
Practical classes		Oral exam					
Colloquia		30					
Seminar-s							

Study programme:	Undergraduate ac	ademic stud	lies Architect	ure		
Type and level of studies:	Undergraduate academic studies					
Course:	SYNTHESIS OF FLE	MENTS AND) ASSEMBLIES	- MASIVE STRUC		SIGN
Teacher:	Professor Ph D M	ilica Di Jova		ć		
Type of course:	Compulsory			•		
FCTS.	4					
Proconditions:	4					
, Objectives:						
The course objective is to practice the knowledge acquired in the theoretical courses, namely Architectural structures 1 and 2, through the development of main design of a smaller individual building. The work on the design provides students with necessary knowledge of structure and materialization of a smaller building and practically rounds up into a whole individual segments of the system which they encountered in theoretical education.						
Learning outcomes: Acquiring knowledge about the structure and materialization of a smaller individual building by practicing on a particular example. During the work on the design, students pass methodological procedure of selection of materials and structure and practically apply the knowledge gained in the field of Architectural structures.						
Course brief:						
Theoretical education:						
Theoretical education is based on the	methodology of design	development,	from the concep	tual solution to main d	lesign. Th	e thematic units include
the following: methodology of selecti	on of structure, materia	lization of all el	ements of a hou	se: walls, staircases, op	penings, fl	oors, flat and pitched
Practical education:	cany complement the p	ractical part and	u provides neces	sary knowledge for the	e design d	evelopment.
Practical classes are designed so that	students start working o	on the concept	ual solution and.	through the elaboration	on of indiv	vidual segments.
assemble a unity, resulting in the mai	n design including: plan	s, sections, elev	ations and all ch	aracteristic details. The	e concept	ual solution of the
building is designed so that students	practice the solution of	the structure, s	tairs, terrace as a	a flat roof, pitched roof	fover one	part of the building,
bay windows, and porches and thus o	vercome all problems th	ney can meet ir	practice in the	development and mate	erializatio	n of a smaller building.
The conceptual solution gives studen	s a possibility of creativ	e expression in	selecting materi	ials, resolving details ar	nd thus in	creating the overall
literature:						
- Textbook on architectural structure	s AF Bookshon					
 Branislav Žegarac: Tradicionalne i s 	avremene drvene krovn	e konstrukcije,	Beograd, Regija,	2007.		
 – Ranko Trbojević: Arhitektonske kor 	strukcije, Masivni konst	ruktivni sklop, (Orion, 2001.			
 Božidar Milić: Elementi i konstrukci 	je zgrada, Univerzitet Cr	ne Gore, Podgo	orica 1999.			
– Wolfgang Brennecke, Heiko Folkers	, Friedrich Haferland, Fr	anz Hart: Atlas	krovnih konstru	kcija-kosi krovovi, Beog	grad, Grad	levinska knjiga, 1990.
Active training classes no.:		Othersteinst		Charlie and a state		Other:
Lectures: Practi	cal classes:	Other teaching	ng forms:	/ Studio research:		
Teaching methodology:		3		1		
Lectures and practical classes are per	formed in groups of 20 s	students				
Knowledge evaluation (maxim	um 100 points)					
Pre-exam requirements	points		Final exam		point	5
Activity during lecturing			Written exam			60
Practical classes			Oral exam		1	
Colloquia	40					
Seminar-s						

Study programme:	Undergraduate academic studies Architecture
Type and level of studies:	Undergraduate academic studies
Course:	MECHANICS AND STRENGTH OF MATERIALS
Teacher:	Assistant Professor Ruža D. Okrajnov Bajić
Type of course:	Compulsory
ECTS:	3

Preconditions:

Objectives:

Teaching in the field of mechanics and strength of materials enables students to define elements of architectural structures, to learn about nature, distribution and range of forces which oppose to the action of external loading and distortion of elements. This course teaches students to properly define stressing of elements of architectural structures so that they can be sized in order to receive and transmit forces to other elements, which is a prerequisite for the formation of a stable and technically correct structure.

Learning outcomes:

Theoretical and practical knowledge in the field of architectural engineering, which ensures competences and academic skills necessary for successful work in the field of architecture.

Course brief:

Theoretical education:

LECTURE 1: Material systems. Statistics of a material point. Conditions of equivalence and equilibrium of forces. Lecture 2. – Statics of girder. Structure and division of linear girders. Definition and calculation of internal forces. Girders of simple beam system and cantilever beams. Lecture 4. – Polygonal girders. Gerber girder. Lecture 5. – Trusses. Forces in members. Methods of nodes and sections. Lecture 6. – Geometrical features of sections. Static moments and moments of inertia. Lecture 7. - Change in the moments of inertia in the translation and rotation of the coordinate system. Principal moments of inertia. Lecture 8. – Concept and definition of stress. Types of stress. Axial stress. Normal stress. Deformation of axially prestressed member. Thermal stress. Sizing and control of stress. Lecture 9. – Pure straight bending. Hypothesis of flat sections. Distribution of normal stresses. Sizing at pure bending. Lecture 10. – Straight bending by forces. Distribution of shear stresses. Conjugation of shear stresses. Pure shear. Lecture 11.- Deformation of girders stressed to bending. Determination of deflection and slope of the elastic line of bent girder. Lecture 12.- Oblique bending. Pure oblique bending and oblique bending by forces. Stresses and deformation. Position of neutral axis. Sizing of girder; lecture 13. – Eccentric pressure or tightening. Expression for normal stress. Core of section. Lecture 14.- Stability of members stressed to pressure. Basic cases of buckling of straight member. Sizing of members. Lecture 15.- Preparation of test tasks.

Practical education:

EXERCISE 1: Determination of resultant for an arbitrary system of forces acting upon a material point. Exercise 2. – Determination of resultant for an arbitrary system of forces acting upon a rigid slab. Exercise 3. – Determination of reactions of supports and intersecting forces for the girder of simple beam system and cantilever beam. Exercise 4. – Determination of reactions of supports and intersecting forces for Gerber girder. Exercise 5.-determination of reactions of supports and intersecting forces for Supports and forces in truss members. Exercise 7.- Determination of position of centroid, surface static moments and moments of inertia of sections. Exercise 8. – Determination of moments of inertia for principal axes of inertia and radius of the ellipse of inertia. Exercise 9.- Determination of stress, deformations and sizing, axial. Exercise 10.- Distribution of normal and shear stresses at section of girder stressed to bending. Exercise 11. – Sizing and determination of deformations of girder stresses. Exercise 12. – Sizing of girder stressed to oblique bending. Determination o fposition of neutral axis and extreme normal stresses. Exercise 13.- Determination of neutral axis and extreme normal stresses for girder stressed to eccentric pressure and tightening.

Literature:

– Predrag Jovanović, Božidar Petrović: "Statika I i II", Zavod za izdavanje udžbenika, Beograd, 1963.

- Dimitrije Rajić, Živorad Bojović: "Otpornost materijala", Zavod za udžbenike i nastavna sredstva, Beograd, 1994.
- Dimitrije Rajić: "Otpornost materijala Zbirka rešenih zadataka sa izvodima iz teorije", Zavod za udžbenike i nastavna sredstva, Beograd, 1995.
 Đorđe Blagojević, Aleksandra Nenadović: "Mehanika i otpornost materijala Praktikum", Arhitektonski fakultet, Beograd, 2007.

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Active training classes no.:		Other:						
Lectures:	Practical class	ses:	Other teaching forms:		forms: Studio research:			
2	2		/		1			
Teaching methodology:								
Teaching includes two-hour lectures and two-hour practical classes per week. Practical classes thematically follow lecturing programme, and are								
supposed for exercising numerical examples related to previously theoretically presented thematic unit.								
Knowledge evaluation (maximum 100 points)								
Pre-exam requirements	р	oints		Final exam		points	;	
Activity during lecturing				Written exam			40	
Practical classes		30		Oral exam				
Colloquia		30						
Seminar-s								

Seminar-s

Study programme:	Undergraduate academic	studies Architect	ture					
Type and level of studies:	Undergraduate academic	Undergraduate academic studies						
Course:	ARCHITECTURAL GEOMET	RY 2						
Teacher:	Assistant Professor Ph.D.	Djordje D. Djordj	ević					
Type of course:	Compulsory	<u> </u>						
FCTS	3	3						
Preconditions:	3							
/								
Objectives:								
Introduction to different "spatial" presentation of architectural and urban forms in two dimension – inclined projections and perspective, to so								
called method of perspective resti	ution and photomontages, as well a	to research of lighte	ening impacts on spatial	properties and visual				
impression.		_						
Learning outcomes:								
Development competencies to: c	onstruct inclined projections and p	erspective views of	architectural and urba	an space; reconstruct geometric				
properties of architectural and ur	ban space shown in photographs (r	estitution); photomo	ontages; construct shad	ows for a given light source - in				
various types of 2D presentations;	and develop "three-dimensional thi	iking" in the process	of architectural and urb	an design – taking advantages of				
Course brief:								
Theoretical education:								
<u>Eamiliarization of students with the</u>	a basic principles of constructing th	contial view of archi	itactural urban alamant	c obligue projections and				
perspectives the logic of perspect	e basic principles of constructing the	imensional character	ristics – using informatic	s – oblique projections and				
elements are presented, the basic	principles of photomontage, the typ	plogy and properties	of different types of lig	ht sources in the context of their				
impact on the affirmation and deg	adation of the geometry and the ba	sic principles of cons	tructing the shadows of	architectural-urban forms for				
typologically elaborated types of li	ghting, in order to develop the abilit	to predict / program	n their impact on the vis	sual impression of the overall				
quality of future space – in its preli	minary design phase.							
<u>Practical education:</u>								
Training students for productive/p	ractical application of gained theore	tical knowledge rela	ting to: (1) constructing	of spatial views of architectural-				
urban forms (oblique projections	and perspectives) , (2) the restitut	on of shaping and c	limensional characteris	tics of architectural-urban forms				
shown in photos, (3) photomont	ige, and (4) the application of ligh	ting to emphasize/a	ffirm geometrical chara	acteristics of architectural-urban				
litoraturo:								
Graphic tomplates for lectures /	A Locturos' extracts are available to	students electronic	ally on the Faculty webs	ito				
- Graphic templates for practical of	lasses /A4 Solutions of given tasks :	re available to stude	nts electronically on the	Faculty website				
– Gagić, Li.(2004), Nacrtna geome	rija. Akademska misao, Beograd		into electromedity on the	rucuity website.				
 Živanović, S., Čučaković, A. (2008) 	b), Zbirka zadataka iz nacrtne geome	rije i perspektive sa i	rešenim primerima, Aka	demska misao, Beograd,				
– Anagnosti, P. (1986), Perspektiva	, Naučna knjiga, Beograd,	, , ,	1 7	, , ,				
– Potmann, H. Asperl, A., Hofer, N	. & Kilian, A. (2007), Architectural ge	ometry, Bemntley Ir	nstitute Press, Exton, Pe	nnsylvania – USA				
Active training classes no.:			-	Other:				
Lectures: Pra	ctical classes: Other t	aching forms:	Studio research:					
2 1	/		/					
leaching methodology:								
Lectures and practical classes are f	eld simultaneously in Faculty amphi	theatre with the aim	to establish interactivit	y between students and lecturer,				
Lectures: Lectures involve interact	ve communication with students: d	hates and discussion	s during the work on gr	anhic presentations that follow a				
theme overviewed on lectures.	ve communication with students. U		is during the work of gr	aprile presentations that follow a				
Practical classes: Tasks follow then	natic units presented during lectures							
Work on the development of practical task is individual, with active consultation with all participants of the course								
Knowledge evaluation (maximum 100 points)								
Pre-exam requirements	m requirements points Final exam points							
Activity during lecturing		Written exam 40						
Practical classes	20	Oral exam						
Colloquia	2x20=40							

Study programme:	U	ndergraduate ad	ademic stud	lies Architect	ure		
Type and level of studies	5: Ui	Undergraduate academic studies					
Course:	H	HOUSING					
Teacher:	As	sociate Profess	or Vladimir N	Л. Lojanica			
Type of course:	Co	ompulsory					
ECTS:	3						
Preconditions:							
/							
Objectives: Introduction with the theme of architectural and urban structures of family and multifamily housing. Information about the factors influencing the types and levels of architecture of this typological groups and study of their different morphological and structural manifestation in space are some of the focal themes of the course. Lectures on course precede and are functionally related to the work in Design Studio 01 and represent the theoretical background for gaining experience in applying theoretical knowledge to solve practical problems in the process of design.							
Learning outcomes: Expected outcome is mastering the knowledge for researching the conditions and influential factors of context that lead to different typologies of assemblies, their identification and comparison, as well as for studing design techniques with which students are introduced into the general methodology of the design procedure for the design of buildings of this type.							
Course brief:							
Theoretical education:							
Theaching includes following t	hematic un	its: Introduction to	residential envi	ronment of fami	ily and multifamily resid	ential fa	cilities, Characteristics
of family and multifamily resid	ential facili	ties, Typology of ho	using architectu	ure, Designing co	onditions for residential	building	s, Typology of multi-
Contemporary tendencies in d	sing unit/A esign of ho	ppartment and its it using architecture	unctions, Housir	ng legislation, Ar	chitectural heritage of i	esidenti	al architecture,
Literature:							
 Vladimir Lojanica, Stanovanj 	e – tematsl	ke celine, Arhitektor	nkski fakultet, B	eograd, 2013.			
 Other required readings will 	be specifie	d during the course	<u>.</u>	-			
Active training classes no.:			1				Other:
Lectures:	Practical o	classes:	Other teachir	ng forms:	Studio research:		
Z Tooching mothodology:	1		/		/		
Ex cathedra lectures							
Knowledge evaluation (r	naximum	100 points)					
Pre-exam requirements	naximan	noints		Final exam		noint	c
Activity during lecturing		points		Written exam		point	40
Practical classes				Oral exam			10
Colloquia		60					
Seminar-s							

Study programme:	Undergraduate ad	ademic stud	lies Architectu	ure					
Type and level of studies:	Undergraduate ad	ademic stud	ies						
Course:	HISTORY OF ARCH	IITECTURE -	SHAPING OF	SPACE AND STYLE					
Teacher:	Assistant Professo	or Ph.D. Gord	lana D. Miloše	ević-Jevtić					
Type of course:	Compulsory								
FCTS:	3								
Preconditions:									
/									
Objectives:									
The objective of the course is to familiarize students with the basics of the history of architecture and city through theoretical aspects of studying from the formation of the first civilizations to the architecture at the dawn of the modern age. Students learn about the complex process of the development of architecture and settlement, construction logic, meaning of the space and the use of symbols in architecture.									
Learning outcomes:									
Students are expected, after passing the exam, to have basic knowledge of architectural history and acquire the skill of observation of architecture and its development path; to understand the basics of the evaluation and analysis of individual architectural buildings throughout history, as well as to be able to, on the basis of a number of analyzed buildings, have general views on programs in architecture, forms, style and strutcture; to use applied principles in design throughout architectural history and implement them in a contemporary way in their own creative work.									
Course brief:									
Course brief: <u>Theoretical education:</u> Overview of the development of architecture and city from the oldest prehistoric human creations, their transformation and definition in civilizations of Egypt and Mesopotamia. The birth of European architecture in the ancient civilizations of Greece and Rome, through an overview of developments in the transition from Late Antiquity to the Middle Ages. Establishment of early Christian thought in architecture in the Middle Ages in the East and the West. Transformation of Byzantine architecture after the fall of Constantinople. Reciprocity in the elements of Romanesque and Gothic architecture. Development of social ideas and basic principles of Renaissance architecture and the continuity of classical architecture. Renaissance builders and their works, comparative analysis of sacred and profane structures. Organization of Renaissance cities in the theory and practice of heritage and application of new ideas. "Juxtaposition" – general features of Baroque, conditions of origin and cultural situation in Italy and the development of Baroque ideas in the area of Western and Central Europe. Reintroduction of the classical ideas of architecture at the dawn of the modern age. The focus is on understanding the spatial organization, the interpretation of paternals, construction techniques and structural achievements in architectural history from prehistory to the emergence of Renaissance. It is anticipated to abstract, through comparative analyses, certain architecture. The particular focus in the lectures is neeled examples of public (sacred and profane) architecture, made in the spring of certain civilizations and stylistic groups, as well as their impact on the formation of schools and the so-called 'provincial' architecture. The topics are selected with the aim of referring students to parallel reading of texts in several books or parts of the text in									
 P. Marej, Arhitektura italijanske Active training classes no : 	renesanse, Gradevinska kn	ijiga, Beograd, 2	.005.			Othor:			
Lectures: Pr	actical classes:	Other teachir	ng forms:	Studio research:					
2 /		/		/					
Teaching methodology: Teaching includes ex cathedra lectures according to the mentioned thematic units. Each lecture includes several forms of teaching; case analysis, interactive communication and focused thematic discussion, with the aim of exciting students' personal interests and mastering the basics of architectural history, through the history of architectural programs, building systems, the history of styles and semantic relations. Connecting general and individual analysis with the principles of design in contemporary architecture and urban planning. Integral parts of the teaching are regular consultations regarding the exam, and the basic and extended literature.									
Knowledge evaluation (max	kimum 100 points)								
Pre-exam requirements	points Final exam points				5				
Activity during lecturing			Written exam			70			
Practical classes			Oral exam						
Colloquia	30								
seminar-s									

Study programme:	Undergraduate ac	Undergraduate academic studies Architecture					
Type and level of studies:	Undergraduate ac	Undergraduate academic studies					
Course:	STUDY UNIT URBA	STUDY UNIT URBAN DESIGN 1 ¹⁹ – URBAN SPACE DESIGN					
Teacher:	Associate Professo	Associate Professor Ph.D. Aleksandra M. Djukić					
Type of course:	Compulsory	Compulsory					
ECTS:	2						
Preconditions: Passed exam from study units related to urbanism in 1 st and 2 nd semester							
Objectives: Development of elementary abilities for understanding, systematization and analysis of the process of formation and transformation of urban spaces and ambiences, and so to recognize tools and to gain basic skills for dealing with urban design and shaping of urban spaces.							
Learning outcomes: Understanding, knowledge and skills: training for oral, written and graphical expression: ability of observation, data collection and systematization of data and conclusions drawing; ability of analytical thinking; development of professional curiosity, independency in understanding of relations and processes and creative approach to express problems of the city and public spaces.							
Course brief:							
Theoretical education:							
1. Identity of the city, character and	genius loci 2. Cultural par	tterns as a func	tion of urban spa	ices shaping 3. Accesibi	ility 1 (pe	destrians, bicycle,	
vehicle, public transport, to plot, blo	ck, unit, open urban spac	ce, networking (of spatial elemen	its) 4. Accessibility 2 (st d flovibility (adaptabili	ationary	traffic – types,	
Comfort vitality and inspiration (co	vering greenery material	lization outdoo	r furniture) 9 Di	mensioning scale orie	ntation	horizontal and vertical	
leveling (level of plot, block, street,	open space, cross- and lo	ngitudinal section	ons, climatic imp	acts) 10. Landmarks, ra	ppers an	d opening 11.	
Continuity and silhouettes 12. Land	cape composition 13. Axe	es of composition	on and balance 1	4. Colors 15. Proportio	ns in the	composition	
Practical education:							
/							
Literature:							
 The Urban Design Compendium, I 	nglish Partnership, 2000.						
 Hertzberger, H.: Lessons for Stude 	nts in Architecture, Uitige	verij 010 Publis	hers, Rotterdam	, 1993.			
- Gehl, J., et all: Places for People, I	/lelbourne, 2004 (e-book)						
 Bazik, D.: Scenario zivota u gradu: Activo training classes po : 	proces nastajanja gradsk	e scenografije,	edicija Arnitektol	nika, AF, Beograd,1996		Othor:	
Active training classes no	tical classes:	Other teachir	a forms:	Studio research:		Other.	
2 /		/	ig ionns.	/		1	
Teaching methodology:							
Interactive teaching.							
Knowledge evaluation (maxi	num 100 points)						
Pre-exam requirements	points		Final exam		point	5	
Activity during lecturing	20		Written exam			50	
Practical classes			Oral exam				
Colloquia	30 PART OF THE FINAL GRADE ²⁰ of the Study unit –						
Seminar-s				Urban des	ign 1		

¹⁹ Study unit Leader: Associate Professor Ph.D. Aleksandra M. Djukić

²⁰ The final grade is being awarded for the Study unit as a sum of single grades achieved on each of courses depending on the number of ECTS.

Study programme:	Undergraduate ac	adomic stud	lies Architect	uro				
Type and lovel of studies:	Undergraduate ac	ademic stud		uie				
Type and level of studies:			21					
Course:		AN DESIGN 1						
	SPECIFIC THEMES	OF URBAN S	SPACE DESIGN	N: RECREATION				
Teacher:	Assistant Professo	or M.Sc. Jelei	na A. Živković					
Type of course:	Compulsory							
ECTS:	1							
Preconditions:								
Passed exam from study units related to urbanism in 1 st and 2 nd semester								
Objectives:								
Introducing students with problema	tic and thematic approacl	h to the shapin	g of urban space	, through recognition a	ind under	rstanding of the		
relations between urban design and	planning, architecture an	nd landscape ar	chitecture.					
Learning outcomes:								
Understanding the multidisciplinar	and multiscalar nature	of the urban d	esign, as well as	s its relation to the so	cial, ecor	nomic, political, natural-		
environmental and cultural contex	t. Recognizing the compl	lex role of urb	an design in the	e development of citie	es and u	nderstanding of current		
recreation and open areas	dern approach to urban u	esign. Understa	anding the speci	ic problems of snaping	orcertai	in types of urban spaces:		
Course brief								
Theoretical education:								
<u>THEOLEULUL EUULULUT:</u> This course includes the following tonics: 1) Nature and nurnese of the urban design: Urban design at different spatial and problematic levels:								
Urban design and planning, archited	ture. landscape architectu	ure: 2) Problem	-oriented urban	design in modern deve	elopment	of cities – an overview		
of current thematic frameworks: a)	"Nature and city": urban o	design and envi	ironmental/clima	atic challenges, b) "Livi	ng togeth	er": urban design and		
multiculturalism, c) "Right to the cit	y" – formal/informal in ur	ban design, d)	"Healthy city" – 1	the concept of active d	esign; e)	Urban design and		
competiveness of cities, f) "City of g	ame": entertainment, cre	ativity and edu	cation through d	lesign; 3) Specifics of s	haping of	f certain types of city		
spaces – Example: open/recreation	al areas: Functional and er	nvironmental b	ases of developn	nent; Needs, activities	and space	es; Types of spaces		
(parks, squares, pedestrian zones, c	oastal, centers of leisure,	sports, culture,	game and enter	tainment); Network	s and loc	ations; Program –		
Practical aducation:	ient and equipping.							
/								
Literature:								
– Loidl H., Bernard S. (2003) Openir	g Spaces: Design as Lands	scape Architect	ure, Basel: Birkha	auser				
 Lefaivre L.,Doll (2007) Ground-up 	City-Play as a Design Tool	l, Rotterdam: O	IO Publishers					
 Hugh, Barton, (2004) Shaping Nei 	ghbourhoods, London, Ne	w York : Spon F	Press					
– Lang J. (2005) Urban Design: a typ	ology of procedures and p	products, Oxfor	d:Architectural	Press				
 Vesnic Nederal Z.(1993) Urbana r Active training classes no : 	ekreacija, Beograd:Arhitek	ktonski fakultet				Othori		
Active training classes no	tical classes:	Other teachir	ng forms:	Studio research:		otilei.		
1 /		/	ig ioniis.	/				
Teaching methodology:		1.		,				
Interactive teaching.								
Knowledge evaluation (maxi	mum 100 points)							
Pre-exam requirements	nts points				point	S		
Activity during lecturing	20		Written exam			50		
Practical classes			Oral exam					
Colloquia	30	30 PART OF THE FINAL GRADE ²² of the Study unit –				e Study unit –		
Seminar-s Urban design 1								

²¹ Study unit Leader: Associate Professor Ph.D. Aleksandra M. Djukić

²² The final grade is being awarded for the Study unit as a sum of single grades achieved on each of courses depending on the number of ECTS.

Study programme:	Ur	ndergraduate ac	ademic stud	ies Architectu	ure		
Type and level of studies	: Ur	Undergraduate academic studies					
Course:	AF	CHITECTURAL S	TRUCTURES	3			
Teacher:	Pr	ofessor Ph.D. Al	eksandra D.	Krstić-Furuno	džić (course leader),	
	As	sistant Professo	r M.Sc. Budi	mir S. Sudima	ас		
Type of course:	Cc	mpulsory					
FCTS	2)					
Preconditions:							
Passed exams from courses Architectural structures 1 and Architectural structures 2							
Objectives:							
Familiarization with modern principles, methods and logic of the design of materialization of architectural buildings with reinforced concrete load- bearing structure and introduction to the principles of design of materialization of façade systems. Discussion of concepts and details of facades, different in terms of material and construction techniques, taking into account the impact of functional-shaping and structural requirements and criteria of comfortable stay. Understanding the specifics of materialization of bay windows, balconies and roof floors. Acquiring knowledge about basic principles of industrialized and prefabricated construction, assemblies and elements of prefabricated structures and principles of design and installation of joints. Students will be also introduced to the fire protection measures.							
Learning outcomes:			•				
Acquiring general knowledge, in the field of materialization of architectural buildings with reinforced concrete structures, and specific knowledge and skills necessary for the development of final design, work in practice and training in further studies. Developing knowledge about the relations of forms, functions and physical properties present in the design of materialization of buildings with rc-structure, with the focus on the skeleton structures.							
technologies.							
Course brief:							
Theoretical education:							
Materialization concept and functional and formal qualities of reinforced concrete structures and massive buildings. Types of reinforced concrete ceilings – principles of design and construction. Vertical structural elements – types, functions and formal features. Types of foundations of skeletal buildings. Concepts and details of façade diversified in terms of materials and construction techniques considering functional, formal and structural demands and comfort criteria. Materialization properties of bay windows, terraces and roof floors – designing principles, details. Basics of industrialized and prefabricated construction. Designing principles of modular buildings, functional, structural and formal aspect. Mounting plans.							
literature:	ineu struct	urai systems. Analys	sis of practicing	examples as a p			
 Krstić-Furundžić, A., textboo Beograd (ISBN 86-80095-48- 	k "Raznovr: 6)	snost materijalizacije	e arhitektonskil	n struktura", Arh	itektonski fakultet Univ	verziteta	u Beogradu, 2003,
 – Ivković, V, Višespratne skelet 	ne zgrade	– konstruktivni sklop	oovi i elementi,	Arhitektonski fa	kultet, Beograd.		
 Krstić-Furundžić, A., textboo 	« "Osnove	materijalizacije savre	emenih industr	ijalizovanih objel	kata", Arhitektonski fak	ultet Un	iverziteta u Beogradu,
 Krstić-Furundžić, A., Žegarac, Krstić-Furundžić, A., Kosić, T. Proceedings of the Confer Engineering and Geoscience: 	D, Beograd B., Rajčić, , Terzović, ence on Ar 5. Delft Uni	A., textbook "Princip J., "Architectural Asp chitectural and Struc versity of Technolog	-47-8) bi i tehnike obla bect of Structur ctural Applications, IOS Press BV	aganja fasadnih z al Design of Glas ons of Glass, Edit . The Netherland	zidova", Arhitektonski f ss facades/Glass Skin A tors: Bos, Louter, Nijsse ds. June 2012. str. 891-1	akultet U pplication e, Veer, F 900.	Iniverziteta u Beogradu ns", in Challenging Glass aculty of Civil
Active training classes no.:			<i>n</i>	,	,,		Other:
Lectures:	Practical o	lasses:	Other teachir	ng forms:	Studio research:		
2	/		/		/		
Teaching methodology: Lectures and interactive teachi	ng.						
Knowledge evaluation (n	naximum	100 points)					
Pre-exam requirements		points		Final exam		point	S
Activity during lecturing		10		Written exam			60
Practical classes				Oral exam			
Colloquia		30					
Seminar-s							

Study programme:	U	ndergraduate ac	ademic stud	ies Architect	ure		
Type and level of studies	: U	Undergraduate academic studies					
Course:	ST	STRUCTURAL PRINCIPLESS OF ARCHITECTURAL BUILDINGS					
Teacher:	Pi	rofessor Ph.D. M	ilan T. Glišić	(course leade	er),		
	A	Assistant Professor Ph.D. Ruža D. Okrajnov Bajić					
Type of course:	C	Compulsory					
ECTS:	3	3					
Preconditions:							
Passed exam from course Mech	nanics and	l strength of materia	ls.				
Objectives:							
Introduction to structural princ	iples of ar	chitectural buildings	; approaches, s	ystems and met	hods of formation of str	ructural a	issemblies by
recognizing and formulating sta	tic sheme	es on concrete examp	ples of building	s, stress analysis	and introduction to sta	itically in	determinate beams
(continuous beam) with a statio	calculatio	on of impact.					
This course provides students	with kno	wledge to understa	nd logic of for	res transfer with	hin the huilding's struc	tures lo	cal and comprehensive
stability of structural elements	and optim	nal application of cer	tain structural	systems and mat	erials.	cures, re	
This course includes subject m	atters that	t is logical connectio	n between cou	rses Mechanics	and strength of materia	als and D	esign and calculation of
architectural structures 1 and 2.							
Course brief:							
Theoretical education:							
Structural loading, Structural el	ements, R	Reinforced concrete o	ceilings, Stairca	ses, Reinforced o	concrete columns and w	valls, Fou	ndations, Continuous
Deam – symmetric beams – en	velopes, S	teel structures, woo	den structures.				
Stross analysis Positioning of s	tructural c	lomonts — rosidontia		l distribution – r	ainforced concrete flee	rdah Lo	ad condensation
Reinforced concrete staircase,	Continuou	is reinforced concret	e floor slab, Co	ntinuous reinfor	ced concrete beam, En	velope of	continuous beam,
Load distribution – reinforced of	oncrete c	olumn and wall, Posi	itioning of struc	tural elements –	- steel hall, Load analys	es of stee	el roof structure, Load
analyses and static calculation	of the pur	lin, Load distribution	– Arc with thre	e joints and slop	oing beam		
Literature:							
 Lectures in the course Struct 	ural princi	pless of architectura	l buildings				
 Textbook of practical tasks 							
- BOOK OF SOIVED EXAM TASKS							Other:
Lectures:	Practical	classes:	Other teachir	ng forms:	Studio research:		
2	2		1	5	1		
Teaching methodology:							
Lectures and practical classes.							
Knowledge evaluation (m	naximun	n 100 points)					
Pre-exam requirements		points		Final exam		point	S
Activity during lecturing				Written exam			60
Practical classes		15 Oral exam					
Colloquia Seminar-s		25					
Seminal-S							

Study programme:	Undergraduate ad	ademic stud	lies Architect	ure					
Type and level of studies:	Undergraduate ad	ademic stud	lies						
Course:			а. С						
Toochor:	Accesiate Drofess	or Vladimir N	J Loianica						
reacher:	Associate Professo		vi. Lojanica,						
	Ana Z. Nikezić, Đố	orde V. Stoja	novic, vladim	ir B. Milenkovic, V	esna P.	Cagic-IVIIIosevic,			
	Nebojša S. Fotirić,	Igor Z. Rajko	ović, Miloš M.	. Nenadović, Zoran	R. Aba	dić, Milan M.			
	Maksimović, Milo	š M. Komlen	ić, Aleksanda	r Č. Videnović, Ivai	n J. Kuc	ina, Dragan B.			
	Stamenović								
Type of course:	Compulsory								
ECTS:	10								
Preconditions:									
Students are distributed administra	tively based on the grade	achieved in Stu	idy units Space a	nd shape and Elements	of archit	ectural design in the 1 st			
year of studies so that among studi	es is accomplished equal r	atio of success.				_			
Objectives:									
Introduction with method of correa	lating architectural eleme	ents into simple	functional and lo	ogical structural assem	blies whi	ch are consistent with			
environment. Gaining experience in	application of theoretica	l knowledge on	elements of arcl	hitecture, urbanism and	d archite	ctural structures in			
solving practical tasks within a desi	gning act. Development of	f skill to design s	smaller urban as	semblies and architector	ural facili	ties of family housing			
on a given location in free environr	ent from a concept, over	an idea to cond	ceptual design. S	econd part of semester	r includes	designing a multi-			
family building in terms of built env	ironment and interpolation	on with all solut	ion aspects.						
Learning outcomes:									
Development of ability to create a	chitectural designs that s	atisfy functiona	al, aesthetic and	technical requirement	s; to und	erstand the methods of			
investigation and preparation of de	sign brief, to develop res	ponsibility for p	proper work and	ability of self-criticism;	to work	highly independent and			
between huildings and their onvirg	op capacities to practically	apply knowled	age; to understa	ha the relationship be	tween pe	copie and buildings, and			
level of communication skills in ver	ninent, and the need to i	digital forms	and the spaces	between them to num	an neeus	and scale, improve the			
Course brief:	sui, Writteri, Bruphieur und	digital forms.							
Practical education:									
The topic of comestor assignment i	rolated to family and mu	lti family housi	ng in omorging u	rhan anvironment or ir	concrot	ourbon situations. All			
urban parametres infrastructural a	nd traffic conditions are n	ronosed but m	ng in enlerging u hav he adjusted d	luring the work First n	art of sen	hester is dedicated to			
conception, selection and elaborat	on of the architectural sol	ution for a fami	ilv residential fac	cility – house within the	location	frame. The entire plot			
area shall be treated as a whole, w	th open, closed and trans	itional zones. Co	ommon topic is s	ingle family housing bu	uilding int	ended for four-member			
family aligned with terms of legisla	ion in this area. This assig	nment is suppo	sed for team wo	rk. Team members cho	ose a plo	t for which will			
individually develop a design, and a	long will coordinate their	work in order t	o create meaning	gful whole – joint site p	olan. Havi	ng defined urban frame			
which allows maximal flexibility in t	he selection of position of	r plot size, desig	gn brief is set wit	h no strict directions. T	he intent	ion is to achive specific			
and concrete particular briefs, by w	orking on the assignemen	it and with para	illel relevant theo	pretical education.					
Literature:									
 Vladimir Lojanica, Stanovanje – t 	ematske celine, Arhitektor	nkski fakultet, B	eograd, 2013.						
 Other required readings will be s 	pecified according the give	en design brief o	out the tables 10	0.3 and 10.4 and other i	resources				
Active training classes no.:						Other:			
Lectures: Pra	ctical classes:	Other teachin	ng forms:	Studio research:					
/ / /		0		/					
Teaching methodology:	and and last on the		ning Combinetti	an of an and has deter		eu este elus la sturre			
Studio-based methodlogy, with o	ccasional lectures on de	sign related to	pics. Combination	on of several teaching	g torms ·	- ex catheora lectures,			
Knowledge evaluation (max)	mum 100 noints)	cis, research, pi	lesentation, essa	iys, seminars, etc.					
Pre-exam requirements	points		Final exam		point	s			
Activity during lecturing	Written exam			-					
Practical classes	10		Oral exam			5			
Colloquia	30		Design project			55			
·									

Study programme:	Ui	ndergraduate ac	ademic stud	ies Architectu	ure			
Type and level of studies	s: Ui	ndergraduate ac	ademic stud	ies				
Course:	ST	UDIO 01-b URB	AN DESIGN (OF RESIDENTI	AL ASSEMBLIES			
Teacher:	As	sistant professo	r Zoran N. D	jukanović				
Type of course:	Co	ompulsory						
ECTS:	1							
Preconditions:	•							
Passed exam from study units related to urbanism in 1 st and 2 nd semester								
Objectives:								
Introduction with basic methods and techniques of the analysis of location and urban design. Gaining experience in the application of theoretical knowledge of spatial shaping in solving practical tasks in the process of urban design. Developing the skill in urban designing of small urban unities, mainly residential.								
Learning outcomes:								
Upon completion of the course	e, students	will be expected to:						
 understand the multi-layered 	d character	of the urban space						
 have knowledge of different 	t aspects, n	nethods and technic	ques of the ana	lysis of location	and develop the skill	of their a	pplication in a concrete	
urban context • he able to define hased on understanding different urban needs and knowledge of specific relations and processes in the space possibilities of its								
improvement in the field of urban design.								
Course brief:								
Theoretical education:								
1)Urban design of small urban	unities, ma	ainly residential: Urb	an design at dif	ferent spatial an	d problematic levels; l	Jrban des	sign and planning,	
architecture, landscape archite	ecture; 2) P	roblem-oriented urb	oan design in m	odern developm	ent of cities – an overv	iew of cu	irrent thematic	
frameworks. 3) Specifics of sha	aping of cer	tain types of city spa	aces – Example:	small residentia	al communities of low of	density o	f development;	
Functional basis of developme	nt; Needs,	activities and spaces	; Types of spac	es; Networks and	d locations; program –	spatial co	oncepts; Shaping,	
development and equipping								
<u>Practical education:</u>								
/								
Literature:	lubau Daaia			avef Delavede (2				
- Priruchik za urbani dizajn (U	Irban Desig	n Compendium), Or	ion Art and Pro	graf, Beigrade, (2	2008)			
- GLC Study (1978) An Introdu		Dusing Layout; The A	· Architoctural	Proce				
- Thomas B Fordham M (ed)(2005) Sug	stainable Urban Desi	gn · An Environ	mental Annroac	h London New York	Snon Pres	s	
– Hugh, Barton, (2004) Shapin	ig Neighbou	irhoods. London. Ne	w York : Spon F	ress		ponnes		
Active training classes no.:	0 - 0						Other:	
Lectures:	Practical of	classes:	Other teachir	ng forms:	Studio research:			
1	/		1		1			
Teaching methodology:								
Interactive teaching, case stud	lies.							
Knowledge evaluation (maximum 100 points)								
Pre-exam requirements		points				point	S	
Activity during lecturing		20		Written exam			40	
Practical classes				Oral exam				
Colloquia		40		PAF	RT OF THE FINAL GRAD	E ²³ of the	e Study unit –	
				STUDIO 01b Urban design			zn	

²³ The final grade is being awarded for the Study unit Studio 01b as a sum of single grades achieved on each of courses depending on the number of ECTS. (Study unit Leader: Assistant professor Zoran N. Djukanović)

Study programme:	Ur	ndergraduate ac	ademic stud	ies Architectu	ure				
Type and level of studies	: Ur	Undergraduate academic studies							
Course:	VI	VISUAL REPRESENTATION IN ARCHITECTURE							
Teacher:	Pr	ofessor M.Sc. Dr	ragan M. Jel	enković					
Type of course:	Co	ompulsory							
ECTS:	2								
Preconditions:									
/									
Objectives:									
The course objective is for stuc nature and urban environment arts and architecture. Through	lents to acc , as well as a complex	quire knowledge and in art communication art researches the s	d practical expe ons which expl students explor	rience in art repr pre connections a e the possibilities	resentations and art tra and methods that exist s of application in desig	in the fi n work.	on of architecture, eld of synthesis of fine		
Learning outcomes:				P		,			
Understanding and acceptance	e of knowle	edge and practical e	xperiences in v	isual presentatio	on and transposition of	forms a	nd space, as well as the		
application of these skills in the	e work with	in the Studio Desigr	າ.						
Course brief:									
Natural environment and art w	ork / intro	duction to anatomy	and anthropole	ogical proportion	/ Representation of bo	ody in sp	ace and architecture /		
Art study of interior / Art study	of archite	cture / Art communi	ications in arch	itecture / Artistic	drawing in design proc	cess / Ur	ban environment and		
Literature	porary mic	art / Art concept ar	ia presentation						
– Pavle Vasić. Uvod u likovne u	metnosti.	Fakultet likovnih um	etnosti. Beogra	ad. 1968.					
– Zoran Pavlović, Prostor oblik	a i boje, Kli	o, Beograd, 1997.		,					
– Johanes Iten, Umetnost boje	, Umetničk	a akademija, Beogra	ad, 1973.						
 Rudolf Arnhajm, Umetnost i 	vizuelno op	oažanje, Univerzitet	umetnosti Tim	othy Samara, Des	sign Elements, Rockpor	t.			
 H.V.Dženson Istorija umetno 	sti, Beogra	d 1983 ili kasnija izd	anja						
Active training classes no.:	D			<i>c</i>			Other:		
Lectures:	Practical c	lasses:	Other teachin	ng forms:	/ Studio research:				
Teaching methodology:	2		/		/		<u> </u>		
The methodology is related to	research.	design, developmer	nt and product	ion of works inv	olving synthesis of arcl	hitecture	and fine arts. Students		
perform practices which are i	ndividually	determined and re	elated to some	of the themation	c units in the subject	field. Th	e aim is to form a final		
portfolio (map) which will dem	onstrate k	nowledge and meth	nodological and	I researching pro	cess of a student and	must inc	lude all elements of the		
thematic units of the course.									
Knowledge evaluation (n	naximum	100 points)							
Pre-exam requirements		points		Final exam		point	S		
Activity during lecturing		10		Final portfolio			50		
Practical classes				Oral exam					
Colloquia		20+20	J						

Study programme:	Undergraduate ac	ademic stud	ies Architect	ure					
Type and level of studies:	Undergraduate ac	ademic stud	ies						
Course:	EDUCATION AND	EDUCATION AND SPACE							
Teacher:	Assistant Professo	Assistant Professor Vesna P. Cagić Milošević							
Type of course:	Compulsory								
ECTS:	2	2							
Preconditions: /									
Objectives: The course aims to familiarize students, through theoretical education, with the basic principles of design and specifics of space and program facilities intended for education, as well as the conditionality of social and economic context and significance of current pedagogical methods as influential factors in choosing design approach and forming the spatial concept.									
Learning outcomes: Development of the analytical and critical thinking and understanding; Ability to apply the gained knowledge in design process; Knowledge of anthological and contemporary works of architecture in a particular area which reached the highest standards; Awareness of potentials of new technologies; Awareness of issues and topics of contemporary trends in architecture; Awareness of a causal connection of the social context and process in architecture:									
Course brief:	·								
Theoretical education: Theoretical education includes the following areas: history and development of the space and structures intended for education; functional and shape-related requirements, elements, organization, structure, through presentation and analysis of characteristic and specific anthological examples and examples from contemporary world practice; different aspects of the impact of social context and present psychological-pedagogical models, as well as the role of architect in implementing the impacts. Literature: – ARHITEKTURA ŠKOLSKE ZGRADE, Z. Bajbutović, Svjetlost 1983. Sarajevo – ARCHITECTURE OF SCHOOLS: THE NEW LEARNING ENVIRONMENTS, M. Dudek, Architectural Press, Boston 2000. – CHILDREN SPACES, M. Dudek, Architectural Press, Boston 2005. –									
2003. Zagreb				<i>,</i> ,	,	,, , , , , , , , , , , , , , , , , , , ,			
Active training classes no.:		-		•		Other:			
Lectures: Pro	ctical classes:	Other teachir	ng forms:	Studio research:					
2 / / / Teaching methodology:									
Knowledge evaluation (max	imum 100 points)								
Pre-exam requirements	points		Final exam		point	S			
Activity during lecturing	10		Written exam						
Colloquia	20:20-	-40	Oral exam			50			
Conoquia	20+20=	-40	Seminar hahet			50			

Study programme:	Ur	Undergraduate academic studies Architecture							
Type and level of studies:	Ur	Undergraduate academic studies							
Course:	A	ADMINISTRATION BUILDINGS							
Teacher:	As	sociate Profess	or Dejan D. N	Ailetić					
Type of course:	Co	ompulsory							
ECTS:	2	2							
Preconditions:									
/									
Objectives:									
The course objective is to improv narrower framework is the design designing office buildings.	e knowle n of com	edge of students in mercial buildings. Ir	the field of arch n this course, stu	itectural-zoning udents will have	(urban) design through an opportunity to mee	lectures t the con	and papers. The temporary trends in		
Learning outcomes:									
Capacity of development of the a	inalytica	l and critical thinkin	ng and understa	anding; Ability to	apply gained knowled	ge to fut	ure projects being done		
on undergraduate and master ac	ademic s	tudies; ;							
Capacity for applying knowledge	n practio	ce; norary trends in ar	chitecture						
Knowledge about modern and his	storical v	vorks which reache	d the highest sta	andards in archit	ecture;				
Awareness of potentials of new t	echnolog	gies;	U		•				
Course brief:									
Theoretical education:									
In theoretical instruction, teachin	g is carri	ed out through lect	ures and provid	les basic guidelin	es and information neo	cessary to	o understand and		
analyze the process of design of o	ottice bui	Idings. The analytic	al part of the te	aching will relate	e to the analysis of exa	mples fro	om contemporary		
literature		lesigning office built	uings.						
– R.Hascher, S.Jeska, B.Klauck - A	DESIGN	MANUAL - OFFICE	BUILDINGS						
– M.Pavlović – OSNOVNA SAZNA	NjA I DIN	AENZIONALNE PREF	PORUKE ZA MOI	DULARNO PROJE	KTOVANJE ADMINISTRA	ΑΤΙνΝΙΗ	ZGRADA		
Active training classes no.:	,				•		Other:		
Lectures: P	actical c	lasses:	Other teachir	ng forms:	Studio research:				
2 /			/		/				
Teaching methodology:									
Combination of ex cathedra lec	tures, a	nalysis of typical e	examples and s	eminars. The ac	cent is on improveme	ent and	deepening of designing		
Knowledge evaluation (ma	vimum	100 points)							
Pre-evam requirements	Annun	noints		Final evam		noint	c		
Activity during lecturing		10		Written exam			5		
Practical classes		10		Oral exam					
Colloquia		10+10+1	0=30	Seminar paper	·		60		

Study programme:	U	ndergraduate ac	ademic stud	lies Architectu	ure				
Type and level of studies	s: Ui	ndergraduate ac	ademic stud	lies					
Course:	H	STORY OF ARTS							
Teacher:	As	Associate Professor Ph.D. Aleksandar M. Ignjatović							
Type of course:	Co	ompulsory			•				
FCTS:	2	. ,							
Preconditions:									
, Objectives:									
The objective of the course is to introduce students with the basics of art history, including theoretical aspects of the study of art, from prehistory to the beginning of the new century. The objective of the course is to train the students to be able to independently identify, describe and explain artworks and artistic processes in a given historical period in two parallel lines: through the analysis of art and through interpretation of the historical process. In the process of teaching the issues of the visual identity of art, the relationship between art and theory, the relationship between art and science, cultural aspects of art, and social and political functions of art will be systematically elaborated. Special attention is given to questions: how cult and secular social functions, political institutions, science, philosophy and other have influenced the artistic concepts in different eras. What are the methods of interpreting the meaning and role of art works, and what their production and receivent on the available the importance of art in a variety of contexts?									
			EXIS:						
Learning outcomes:									
of architecture, because the students will be able to use it to make judgments about the visual, socio-cultural and aesthetic aspects of architecture									
and visual culture, as well as t	o form a se	lf-reflective judgmer	nt about the ow	n creative acting					
Course brief:									
Theoretical education:									
The course will include presen	tation of ar	t history and its the	pretical explication	tions, including a	rtworks and works of v	visual and	material culture from		
prehistoric times to the begin	ning of the	new century. pocts of the problem	which will bo	analysed on a nu	mbor of oxamplos: art	and culti	ural identity: art and		
politics: art and social process	es: art and	history: art and scier	i which whi be	analyseu on a nu	inder of examples, art		and identity, art and		
Integral part of the course incl	udes aspec	ts of media and aspe	ects of genre, a	s well as aspects	of chronological, geog	raphical a	and national		
determinateness of the art.									
Literature:									
- P. J. E. Davies, W. B. Denny,	F. F. Hofric	hter, J. Jacobs, A. M.	Roberts, D. L. S	Simon, Jansonova	a istorija umetnosti: za	padna tra	adicija (Varaždin: Stanek		
i Beograd: Mono i Manjana,	2008).		. Chanali Mari	Carly Duamatal C	2005)				
 H. V. Janson, Anthony F. Jan Neil MacGregor, A History of 	son, istorija f the World	in 100 Objects (Lon	n: Stanek, Novi don: The Britisl	Sad: Prometej, 2 n Museum 2010	2005).				
– Mark Cheetham, Michael A	n Holly. Ke	ith Moxey (eds.). Th	e Subjects of A	rt History - Histor	, rical Obiects in Contem	porary P	erspective (Cambridge:		
Cambridge University Press,	1998).					.perary r	enspective (earneriage)		
– Eric Fernie (ed.), Art History	and its Me	thods - A Critical Ant	hology (Londoi	n: Phaidon, 1996).				
Active training classes no.:					1		Other:		
Lectures:	Practical o	classes:	Other teachir	ng forms:	Studio research:				
Z	/		/		/				
The classes consist of lecture	s on differ	ant thematic and nr	oblematic unit	s Each session i	ncludes a number of t	teaching	aspects such as a case		
study. interactive communica	tions and t	focused thematic di	scussions. The	main teaching r	nethod is ex cathedra	lectures	aiming to provoke the		
personal interests of students	and to ser	ve as a pretext for o	other specified	teaching forms.	Integral part of teaching	ng is con	sultations with students		
about the colloquias and exan	n, as well as	introduction to bas	ic literature.						
Knowledge evaluation (maximum 100 points)									
Pre-exam requirements	ments points Final exam points					S			
Activity during lecturing				Written exam			70		
Practical classes		Oral exam							
Colloquia		30							
Seminar-s									
Study programme:	Undergraduate ac	ademic stud	ies Architectu	ure					
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Type and level of studies:	Undergraduate ac	ademic stud	ies						
Course:	STUDY UNIT URBA	N DESIGN 2	²⁴ – URBAN IN	NFRASTRUCTURE					
Teacher:	Professor M.Sc. Ra	ajko Lj. Koric	а						
Type of course:	Compulsory								
ECTS:	1								
Preconditions:	dosign 1 in 2 rd comostor								
Objectives:	ruesign 1 in 5 * semester								
Familiarization with the aspects of urban planning and design of infrastructure networks and dependency of urban functions of infrastructure									
services. Recognizing structure, elements, processes and factors of development of infrastructure networks and systems in relation to the rational									
use of energy and land-use planning in built environments.									
Learning outcomes:									
Understanding of modern theoretic	al and practical concepts	of sustainable u	irban developme	ent related to infrastruc	ture, as	well as the applicability			
in the context of Serbia. Application of the basic urban design principles for shaping different types of space depending on the needs for infrastructure equipping of residential, administrative, commercial and recreational facilities.									
Course brief:			ational facilities.	•					
Theoretical education:									
1.Main infrastructure networks and systems 2. Types of infrastructure facilities and services 3. Infrastructure in the function of connection 4. Needs									
for provision of infrastructure of various functions 5. Land use and infrastructure 6. Energy efficiency in relation to infrastructure 7. Infrastructure									
and environmental protection 8. El	ements of urban planning	of infrastructur	e 9. Urban desig	n of various spaces dep	ending c	on the need for			
provision of infrastructure 10.Urba	n design of capital infrastr	ucture projects	11. Modern tren	ids in the development	of infras	tructure and cities in			
different contexts: developed and of sorbian cities 14. Polo of infrastruct	leveloping countries 12. Si	ituation in Serb	an cities and infi	rastructure 13. Application	ollity of r ability of	nodern concepts in			
the legalization of informal settlem	ents in Serbian cities 1	inormal settlen	ients in developi	ing countries 15. Applic	ability of	modern concepts in			
Practical education:									
/									
Literature:									
– Žegarac, Z. (2001), Urbana infrast	ruktura, Beograd								
 Korica, R. (2008) Infrastruktura, s 	aobraćaj, urbanizam, arhit	tektura, Arh. fal	ultet, Beograd.						
Active training classes no.:				a. 11		Other:			
Lectures: Pra	ctical classes:	Other teachir	ng forms:	Studio research:					
Teaching methodology:		/		1		<u> </u>			
Interactive teaching.									
Knowledge evaluation (maxi	mum 100 points)								
Pre-exam requirements	points		Final exam		point	S			
Activity during lecturing	15 Written exam 35			35					
Practical classes			Oral exam			20			
Colloquia	30			PART OF THE FIN	AL GRAD	0E ²⁵			
Seminar-s				of the Study unit –	Urban de	sign 2			

²⁴ Study unit Leader: Professor M.Sc. Rajko Lj. Korica

²⁵ The final grade is being awarded for the Study unit as a sum of single grades achieved on each of courses depending on the number of ECTS.

Study programme:	Un	dergraduate ac	ademic stud	ies Architect	ure					
Type and level of studies	s: Un	dergraduate ac	ademic stud	ies						
Course:	STL	JDY UNIT URBA	N DESIGN 2	²⁶ – TRAFFIC	AND SOCIAL INFRA	STRUC	TURE			
Teacher:	Ass	sistant Professo	r M.Sc. Uroš	B. Radosavlj	ević					
Type of course:	Cor	mpulsory		,						
FCTS	2									
Preconditions:										
Passed exam from Study unit I	Jrban design	1 in 3 rd semester								
Objectives:										
Familiarization with the aspects of urban planning and design of transport networks for providing quality life in built environments in accordance with the principles of sustainability. Understanding people's needs for mobility. Recognizing structures, elements, processes and factors of development of transport systems and networks in relation to the rational use of energy and land-use planning in built environments. Familiarization with the phenomenon and structural characteristics of networks of social urban infrastructure.										
Learning outcomes:										
Understanding of modern theoretical and practical concepts of sustainable urban development related to traffic, as well as the applicability in the context of Serbia. Application of the basic urban design principles for shaping different types of streets and traffic in relation to the position in a city and denending on the type of residential, administrative, commercial and recreational facilities										
Course brief:	· · · ·									
Theoretical education:										
1.Main transport networks and systems 2. Types of transport 3. Transport structures and services in relation to the spaces and functions 4. Street										
network and traffic in the function of connection 5. Needs and motives for mobility 6. Modern concepts of availability for all 7. Energy consumption										
and efficiency of transport system 8. Safety, crossing of movements and slowing down motor vehicle traffic 9. Typology of streets and types of										
transport in relation to the spa	ices and fund	ctions 10. Parking n	ext to differen	t facilities and in	relation to the position	1 11. Pub	lic transport system and			
compact spaces 14 Dynamics	of cities and	traffic in different	contexts: devel	oned and develo	oning countries 15 Tra	ffic in Ser	hian cities and			
applicability of modern concer	ots; 1. Settler	ment networks of s	ocial infrastruc	ture – the defini	tion of the notion and	fundame	ntal roles in the			
functioning of urban systems,	2. Typologica	al classification and	modern conce	pts, 3. Positionir	ng in managing docume	ents, 4. N	lodern trends of			
organization and implication in	n public spac	e shaping.								
Practical education:										
/										
Literature:										
– Maletin, M. (2005), Planiran	je i projektov	vanje saobraćajnica	u gradovima,	Orion Art, Beogr	ad.					
– Radosavljević, U., Lalović, K.	& Đorđević,	A. (2013) Sustainal	ole Urban Deve	lopment & Conc	cept of Mobility Manag	ement in	Belgrade. Belgrade:			
UNDP Serbia, pp. 91-103.	oliton Notw	orke Editorial Gueta	wa Cili Barcal	202						
– Solt, J. J. (2000) The Metrop – Petovar K. (2003) Naši grad	dovi između	države i građanina	Beograd Geog	ona. orafski fakultet <i>I</i>	Arhitektonski fakultet	nstitut 72	arhitekturu i			
urbanizam Srbije	aovinzinicuu	arzave i Bradanina,	Deograd, Geog			institut ze				
– Van Den Dool, L. TH. (2004),	public mana	gement: An introd	uction for Publ	ic managers in d	eveloping Ccountries 8	Emergin	g Economies, Erasmus			
university Rotterdam										
Active training classes no.:					· · · · ·		Other:			
Lectures:	Practical cla	asses:	Other teachir	ng forms:	Studio research:					
Z	/		1		/					
leaching methodology:										
Knowledge evaluation (r	novimum	100 points)								
Nilowieuge evaluation (i	IIaxiiiiuiii			Final avana			-			
Artivity during last wire		points		Final exam		point	<u>ک</u>			
Activity during lecturing		15		Oral ovam			35			
Colloquia		20			PART OF THE FIN	AL GRAF	20)F ²⁷			
Seminar(s)		30			of the Study unit –	Urban de	esign 2			
Schmar(5) Share Stady and Share Shar										

²⁶ Study unit Leader: Professor M.Sc. Rajko Lj. Korica

²⁷ The final grade is being awarded for the Study unit as a sum of single grades achieved on each of courses depending on the number of ECTS.

Study programme:	Undergraduate ac	cademic stud	ies Architect	ure				
Type and level of studies:	Undergraduate ac	ademic stud	ies					
Course:	ARCHITECTURALS	STRUCTURES	4					
Teacher:	Associate Professo	or Ph.D. Jele	na A. Ivanovi	ć Šekularac (course	e leadei	r),		
	Assistant Professo	or Ph.D. Alek	sandar N. Raj	čić,				
	Assistant Professo	or Ph.D. Jasna	a Lj. Čikić Tov	arović				
Type of course:	Compulsory		•					
ECTS:	2							
Preconditions:								
Passed exam from course Architectu	ral structures 2 and com	pleted course A	rchitectural stru	ctures 3				
Objectives:								
The objective of the course is introd	uction with basic principl	es of materializ	ation of archited	tural structures by app	lying foll	owing structural		
materials: wood, steel, glass; design	of facades and roofs, into	erior partitions,	suspended ceili	ngs and floors for dry p	refabrica	ted construction.		
Learning outcomes:								
The knowledge gained in this course	is necessary to follow te	achning in the o	courses Design st	tudio Architectural stru	ctures ar	nd Design Studio:		
Architectural technologies.								
The evention of continue								
<u>Ineoretical education:</u>		maananta (light	woodon foodo	alace facada motal fa	anda an	maasita matal facadas).		
internal partitions of wood, plaster.	metal: elevated floors: fi	re protection m	easures of given	s, glass lacade, metal la structures.	içade, co	inposite metal lacades);		
Literature:				Structures.				
– Herzog. Natterer.etc. 2004Timbe	r Construction Manual. B	Birkhäuser. Base						
– Hen, Hart, Zontag, Atlas čeličnih k	onstrukcija, Građevinska	knjiga, Beograd	,					
– Schittich, Staib, Balkow, etc, 1999	,Glass Construction Man	ual, Birkhäuser,	Basel					
 Herzog, Kripner, Lang, 2004., Fasa 	de Construction Manuel,	Birkhäuser, Bas	sel					
 Textbooks of lectures from the co 	urse Architectural structu	ures 4						
Active training classes no.:						Other:		
Lectures: Prac	tical classes:	Other teachin	ng forms:	Studio research:				
Z Teaching methodology:		/		1				
Ex cathedra lectures.								
Knowledge evaluation (maxi	num 100 points)							
Pre-exam requirements	points Final exam points							
Activity during lecturing	10 Written exam 70							
Practical classes	Oral exam							
Colloquia	20							
Seminar-s								

Study programme:	Ui	ndergraduate ac	ademic stud	lies Architectu	ıre				
Type and level of studies:	Ui	ndergraduate ac	ademic stud	lies					
Course:	DI	SIGN AND CALC	ULATION O	F ARCHITECTU	JRAL STRUCTURES	51			
Teacher:	Pr	ofessor Ph.D. M	ilan T. Glišić	(course leade	er),				
	As	sistant Professo	r Ph.D. Ruža	D. Okrajnov	Bajić				
Type of course:	Co	ompulsory		,	,				
ECTS:	3	. ,							
Preconditions:									
Passed exam from course Mech	anics and	strength of materia	ls						
Objectives:									
Introducing students to the eler	nents of c	lesign, construction	and sizing of re	inforced concret	e structures of archited	ctural bui	ldings.		
Learning outcomes:									
Exposed material allows studen	ts to unde	erstand the possibilit	ties provided by	y reinforced conc	rete structure, in form	ing vario	us architectural shapes		
in designing architectural buildi	ngs.								
Course brief:									
Theoretical education:									
Properties of concrete and reint	orcing ste	eel,							
Basic postulates of the limit stat	e theory,								
Centrally loaded RC elements,	onding m	omonto							
Sizing of RC section at the phase	of small	and large eccentricit	tv						
Stress notations of main sloping	tensile st	rains at AB section.							
RC elements loaded by torsion		,	,						
Practical education:									
Concrete and reinforcing steel -	concrete	mixture compositio	n – anchorage	length					
Centrally pressed non-slender s	trained co	olumns with bending	schedule						
Spirally reinforced columns,									
Formwork plan with positioning	and stati	c drawings,							
Bending – singly reinforced rect	angular se	ections,	T costions						
Continuous slabs and beams	langular	sections, benuing -	r sections, ,						
Protection of hangers from the	effects of	main sloping tensile	strains						
Drawing a bending schedule for	beam acc	cording to the diagra	am of moments	and transverse f	orces, ,				
Bending with normal force – lar	ge eccent	ricity, ,							
Bending with normal force – sm	all eccent	ricity, ,							
Calculation of RC elements load	ed by tors	sion,							
Short RC element,									
Literature:									
 Lectures in the course structu Reak of solved even tasks 	rai princij	pless of architectura	i buildings						
 BOOK OF SOIVED EXAMPLESS Slobodan Romić, Armirano be 	tonsko ko	nstrukcija Građavir	uska knjiga Bog	ograd 1985					
Active training classes no.:		nistrukcije, Grudevir	iska krijiga, bee	, grad, 1909.			Other:		
Lectures:	Practical o	classes:	Other teachi	ng forms:	Studio research:				
2	2		1	5	/				
Teaching methodology:									
Lectures and practical classes.									
Knowledge evaluation (m	aximum	100 points)		1					
Pre-exam requirements		points		Final exam		point	S		
Activity during lecturing			Written exam 60						
Practical classes		15		Oral exam		ļ			
Colloquia		25							
Seminar-s									

Study programme:	Undergraduate ad	ademic stud	ies Architect	ure					
Type and level of studies:	Undergraduate ac	sademic stud	lies						
Courses									
Course.				VIUNITIES					
Teacher:	Assistant Professo	or Ph.D. Ksen	ija Z. Laiovic						
Type of course:	Compulsory								
ECTS:	2								
Preconditions:									
Passed exams from the field of url	panism in 1 st and 2 nd semes	ter							
Objectives:									
Introducing students to the basic	spects of modern concept	s of sustainable	urban communi	ities and their application	on in a gi	ven social, economic,			
and culture context. Introducing to	basic methodological app	roaches to the	design of sustain	lable urban communitie	es				
Learning outcomes:	.f. atur, aturaa anal aarraal 1941			ifferent enetial levels (\ = : : + + .				
Ine awareness of the complexity of understand basic structural characteries	toristics of urban commun	itios Ability to f	urban areas of d	interent spatial levels. A	ADIIITY TO	recognize and			
space and identify the effects of si	ich activity on sustainable	development of	the community	Acquired basic metho	dological	knowledge of research			
and the assessment of quality of c	omplex urban units in relat	ion to the princ	iples of sustaina	bility.					
Course brief:	-		·	·					
Theoretical education:									
Contemporary conceptual tenants of sustainable urban communities. Principles of achieving urban sustainability and their relational connection									
with the specifics of social, econor	nic and cultural context. In	tegrated model	for the inclusion	n of complexity of the re	eality in s	sustainable urban			
development- basic research mether	ods and techniques. Indivi	dual and comm	on needs and th	eir manifestation in the	e physica	space. Models of			
spatial action in creating networks	and places of social standa	ards – structure	, main character	istics and processes. M	ethods a	nd techniques of			
assessment of spatial capacities an	nd establishing of new arra	ngements.							
Practical education:									
/									
Literature:	E al Marala Intellar								
- Hamilton, NI. (2008). Integral Urbania	y, Evolutionalry Intellgence	es for the Huma	n Hive. Canada:	New Society Publishers	5				
– Nan, E. (2006). Integral Orbanisi – Paiić Prković M. ur. (2010) Kroj	n. London: Routledge, Tayl	or & Francis Gro	Jup I Srbiii Arbitokto	nski fakultat Univorzita	ata u Roo	aradu			
- Thomas B Fordham M (ed)(20	105) Sustainable Urban Des	ign · An Environ	mental Annroac	h London New York' S	non Pres	s			
– Reeds. J. (2011). Smart Growth	From sprawl to sustainabi	lity. UK: Green l	Books.		ponnes	5			
Active training classes no.:						Other:			
Lectures: Pri	actical classes:	Other teaching	ng forms:	Studio research:					
2 /		1		1					
Teaching methodology:									
Interactive teaching, fieldwork, co	mparative analisis of case s	studies, studio r	esearch.						
Knowledge evaluation (may	imum 100 points)								
Pre-exam requirements	points		Final exam		point	S			
Activity during lecturing	20 Written exam 40					40			
Practical classes			Oral exam						
Colloquia	40		PA	RT OF THE FINAL GRAD	E ²⁸ of the	e Study unit –			
Seminar(s)				Studio 02 Ur	rbanism				

²⁸ The final grade is being awarded for the Study unit Studio 01b as a sum of single grades achieved on each of courses depending on the number of ECTS.

Study programme:	U	ndergraduate ad	ademic stud	lies Architect	ure				
Type and level of studies	s: U	ndergraduate ac	ademic stud	lies					
Course:	ST	TUDIO 02-b ARC	HITECTURAL	STRUCTURES	5				
Teacher:	Pr	ofessor Ph.D. A	eksandra D.	Krstić-Furuno	džić (course leader),			
	A	ssociate Profess	or Ph.D. Jele	na A. Ivanovio	ć Šekularac,				
	A	ssistant Professo	or Ph.D. Alek	sandar N. Raj	čić,				
	As	ssistant Professo	or M.Sc. Budi	imir S. Sudima	ac,				
	As	ssistant Professo	or Ph.D. Jasn	a Lj. Čikić Tov	arović				
Type of course:	Co	Compulsory							
ECTS:	4								
Preconditions:									
Passed exams from courses: A	S1, AS2, AS	3 and Synthesis of e	lements and as	semblies – masiv	ve structure design.				
Objectives:									
Introduction to the basic princ	iples of ma	terialization of arch	itectural structu	ures through the	application of following	g structu	ral materials: reinforced		
concrete, wood, steel and glas	s. The main	n objective of the co	urse is solving t	he building struc	cture in accordance wit	h applied	I materials and		
functional requirements, as well as acquiring skills in designing and materialization of different subsystems in the building in terms of construction									
techniques of: façade; roofs; interior prefabricated and dismantling partitions, ceilings and floors etc. from the concept to the detail.									
Learning outcomes:									
Students will gain knowledge a	and skills of	designing architect	ural structures	according to the	specifics of structural s	solution,	applied materials		
(reinforced concrete, steel, wo	iod and gia	iss) and construction	i techniques. I r	le outcome of th	e course is the develop	ment of	design. Knowledge		
Course brief	iecessal y i		JAI.						
Theoretical education									
Teaching is based on previous	vacquired	knowledge in cours	es AS3 and AS4	and deals with s	necifics related to the	materiali	zation of particular		
design projects.	y acquirea	Knowledge in cours		and deals with s		material			
Practical education:									
Students individually solve tas	ks sfrom co	onceptual design to o	details.						
Literature:									
/									
Active training classes no.:							Other:		
Lectures:	Practical	classes:	Other teaching	ng forms:	Studio research:				
1	/		3		/				
Teaching methodology:									
Ex cathedra lectures and other	teaching f	forms.							
Knowledge evaluation (r	naximun	n 100 points)				1			
Pre-exam requirements		points Final exam points							
Activity during lecturing		10		Written exam			30		
Practical classes				Oral exam					
Colloquia		60			<u>,</u>				
					•				

Study programme:	U	ndergraduate ac	ademic stud	ies Architectu	ıre				
Type and level of studies	s: U	ndergraduate ac	ademic stud	ies					
Course:	CC	DLOR AND VISUA	AL CONCEPT	ION					
Teacher:	As	ssociate Professo	or Ph.D. Mar	iela M. Cvetić					
Type of course:	Co	ompulsory							
ECTS:	2								
Preconditions:									
Objectives:									
The course objective is for stu architecture, such as painting, connections and applicability	dents to ac graphics, n of this into	quire knowledge and nodelling and multim the architectural des	d practical expe nedia forms of f sign.	rience in comple fine art. The obje	x visual researches of i active of the course is to	nterest to explore	o the study of visual conception and		
Learning outcomes:									
Understanding and acceptance of knowledge and practical experiences in complex fine arts research, as well as the application of this knowledge in the work within the Studio Design.									
Course brief:									
Introduction to the art/visual	application	of colour in architec	ture / Psychopl	nysical effects of	colour / Spatial effects	of colou	r / Coloristic variations		
and ambiences / Visual conception and n	ot of colour	and shape in space	and architectur	e / Graphics. Mo	odelling, multimedia / E	xamples	of contemporary visual		
literature	resentation								
– Berger, John, Ways Of Seein	g, BBC and	Penguin Books, 1972	2						
Active training classes no.:	0,	0 /					Other:		
Lectures:	Practical of	classes:	Other teachir	ng forms:	Studio research:				
1	2		/		/				
Teaching methodology:									
Keynote lectures and practical	l classes, wl	nich are grouped by i	methodologica	l demands and th	neme frame.				
The classes include practices of	outside Faci	alty, consultations an	nd work on the	final portfolio (m	iap).				
Knowledge evaluation (i	naximun	n 100 points)		-					
Pre-exam requirements		points		Final exam		point	5		
Activity during lecturing		10		Final portfolio			50		
Practical classes			_	Oral exam					
Colloquia		20+20	J		```				
Semindi-S									

Study programme:	U	ndergraduate ac	ademic stud	lies Architect	ure					
Type and level of studies	s: U	ndergraduate ac	ademic stud	lies						
Course:	A	RCHITECTURAL D	DESIGN MET	HODOLOGY						
Teacher:	A	ssistant Professo	or Ph.D Vladi	mir B. Milenk	ović					
Type of course:	Co	ompulsory								
ECTS:	2									
Preconditions:	•									
/										
Objectives:										
Acquiring the ability to identify and analyse the structure of the designed space in relation to the design process – identification of components and										
elements and their cause-effe	ct relations	hips that are of impo	ortance to the v	way of design de	velopment.					
Learning outcomes:	uro of arch	itactural accomplia	olomonts hui	Iding them and	to analyse their inter c	onnoctio	uns which are important			
for: the way of design develo	pment, kno	wledge of the relev	ant specifics o	f creativity relate	ed to the field of archit	tectural of	design, as well as of the			
characteristics of different pha	ases of the	design: seminar pap	er (5400 charad	cters, form of ess	ay) and oral presentati	on.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Course brief:										
Theoretical education:										
During the course, students an	During the course, students are trained to identify the structure of architectural assemblies, elements building them and to analyse their inter-									
connections which are import	ant for: the	way of design deve	lopment, know	ledge of the rele	vant specifics of creativ	ity relate	ed to the field of			
Thematic units:	s of the cha	racteristics of differe	ent phases of tr	ie design.						
1. Introduction to architectura	l design me	ethodology: Contem	porary context	of architecture;	Conceptual and factual	aspect o	f the architecture in the			
design; Spatial and programm	e structure	of the design; 2. Ele	ments and asse	emblies: architec	ture of landscape; accs	ess route	es and entrancies; Inner			
architecture; serving and serv	ed spaces; I	Prevalence of intersp	bace; Transpare	ency of space, lig	ht and volume; Polyvale	ence and	dynamics of space; 3.			
Development of architectural	design: Ma or	terialization of the id	dea on the desi	gn – ecology and	l technology; Model – a	bstractic	on and simulation; 4.			
Literature.	ei									
– Milenković, Vladimir, Arhite	ktonska for	ma i multi-funkcija.	Zadužbina And	reiević Beograd 2	2004					
– Stratimirović, Tatjana, Nepr	ekinuti pros	stor / moderna kuća	, Zadužbina And	drejević Beograd	2009					
– Kordić, Milena, Međuprosto	r, Zadužbir	a Andrejević Beogra	d 2012							
 Tschumi, Bernard, Arhitektu 	ra i disjunk	cija, AGM Zagreb 20	01							
 Baudrillard, Jean, Nouvel, Jean 	an, Singula	rni objekti - Arhitekt	ura i filozofija,	AGM Zagreb 200	18					
Active training classes no.:	Dractical		Otherteachi	a forma	Studio receptob		Other:			
2		LIDSSES.		ig ionns.						
Teaching methodology:			1							
Lectures, homeworks, colloqu	ias, consult	ations, seminar pap	er, exam.							
Knowledge evaluation (naximun	n 100 points)								
Pre-exam requirements		points		Final exam		point	S			
Activity during lecturing				Written exam						
Practical classes				Oral exam			50			
Colloquia		50		`						
Seminar(s)										

Study programme:	Undergraduate ad	cademic stud	lies Architect	ure						
Type and level of studies:	Undergraduate ad	cademic stud	lies							
Course:	INDUSTRY AND CO	INDUSTRY AND COMMERCE BUILDINGS								
Teacher:	Assistant Professo	Assistant Professor Dragan B. Stamenović								
Type of course:	Compulsory									
ECTS:	2									
Preconditions:										
/ Objectives:										
UDJECTIVES: Introducing students to the specifics, characteristics, programming and methods of design of industrial and commercial structures. In addition to the basic principles of locating, zoning, composing and functional solving the organization of these programs, students are familiarized with their										
specific shaping and structural requi	rements and characterist	tics.								
Learning outcomes:										
Development of the analytical and c	ritical thinking and under	rstanding;								
Informing students about adequate	examples from practice	m othor activiti	os to the program	n of architoctural space						
Awareness of potentials of new tech	nologies :			II OF architectural space	=,					
Ability to apply gained knowledge in design process. ;										
Course brief:										
Theoretical education:										
Theoretical education includes the f	ollowing areas: the histor	ry and developn	nent of industria	l and commercial struc	tures: fu	nctional and shape-				
related requirements, elements, org	anization, structure, thro	ough presentation	on and analysis o	of characteristic and spe	ecific exa	mples from practice:				
different aspects of the impact of so	cial context and review c	of such impact in	n relation to cult	ural models, the evolut	ion of th	e program flow of goods				
and capital in architecture from indu	stry to commercial cente	ers.								
Literature:										
- BUILDINGS FOR INDUSTRIAL STOP	AGE AND DISTRIBUTION	, Jolyon Drury,	Peter Falconer A	rchitectural Press, Oxfo	ord, 2003					
- INDUSTRIAL BUILDINGS, A Design	Manual, Jurgen Adam , K	atharina Haush	hann , Frank Jutt	ner Birkhauser , 2004	004					
- THE POWER OF IDENTITY: THE INF	ORMATION AGE: ECONC	DIVITY, SOCIETY A	ND CULTURE, M	anuel Castells, Wiley, 2	004	Other				
Active training classes no	rical classes.	Other teachir	ng forms:	Studio research:		other.				
2 /		/	ig ionns.	/						
Teaching methodology:		1.								
Ex cathedra lectures, interactive tea	ching and discussions.									
Knowledge evaluation (maxing the second seco	num 100 points)									
Pre-exam requirements	points		Final exam		point	S				
Activity during lecturing	10		Written exam							
Practical classes			Oral exam							
Colloquia	20+20=40 Seminar paper 50									

Study programme:	Ur	ndergraduate ac	ademic stud	ies Architect	ure		
Type and level of studies	: Ur	ndergraduate ac	ademic stud	ies			
Course:	AF	RCHITECTURAL H	HERITAGE IN	SERBIA			
Teacher:	As	sociate Professo	or Ph.D. Mirj	ana Z. Roter	Blagojević		
Type of course:	Co	ompulsory					
ECTS:	2	. ,					
Preconditions:							
/							
Objectives:							
The objective is to familiarize s	tudents wi	th the architectural	heritage in Serb	oia, its emergend	ce, characteristics and	values. Th	rough the study of
general trends and characterist	ics of settl	ements and archite	cture in Serbia,	students will be	familiarized with basic	spatial, s	tructural and shaping
characteristics of the historical	scared, pr	ofane and residentia	al architecture,	which will comp	lement their knowledg	e of their	own architectural
tradition and enhance their cre	ative abilit	ties. In addition, stud	dents will be far	miliarized with b	asic problems related t	o the con	versation and
	lage.						
Knowledge of the historical dev	alonment	impact basic stylis	tic periodizatio	a typological St	ructural and shaning c	naractorio	tics of sacred profane
and residential architecture in	Serbia. Acc	uiring knowledge a	bout the histori	cal, cultural and	architectural values of	the archi	tectural heritage in
Serbia, impacts and connection	is with wid	er and immediate s	urroundings, ind	cluding the value	e and importance as a p	bart of the	e overall national and
world cultural heritage.			0,	0			
Course brief:							
Theoretical education:							
The emergence and developme	ent of settl	ements and archited	cture in Serbia f	rom prehistory	to the early XIX century	. Social a	nd cultural conditions,
impacts from immediate and w	vider surro	undings, types of str	uctures, structu	ural characterist	ics and materialization,	the shap	ing of scared, profane
and residential architecture. De	evelopmen	it of settlements, me	edieval cities - f	ortresses and m	onastery unities, and a	rchitectur	al features of buildings
within them. Development of r	ural and u	rban housing in Serb	bia, from the sin	nplest forms of o	construction to the city	houses fr	rom the beginning of
XIX century. Historical, cultural	and archit	ectural values of arc	chitectural herit	age in Serbia.			
Literature:	dokorativa	a arbitalitura u arad		iii Decared 10	0		
– Deroko, A. Monumentaina I (Jekorativn ka arbitekt	a arnitektura u sred	njovekovnoj Sri d. 1040	Diji, Beograd, 19	85		
 Kojić, B.: Stara grauska i seos Kojić, B. Stari balkanski grado 	vi varošii	varošice Beograd	1976				
- Findrik, B. Narodno neimarst	vo - stanov	vanie. Sirogoino, 199	-1570. 94				
 Roter Blagojević, M. Razvoj s 	tambene a	irhitekture Beograda	a u 19. i početko	om 20. veka. Bed	ograd: Arhitektonski fal	kultet i Or	ion Art, 2006.
Active training classes no.:		<u>v</u>	•				Other:
Lectures:	Practical of	classes:	Other teachir	ng forms:	Studio research:		
2	/		1		/		
Teaching methodology:							
Ex-cathedra lectures according	to the th	ematic units. Regul	ar consultation	s with students	regarding the prepara	tion of m	id-term paper and oral
exam, as well as introduction to	o the basic	literature.					
Knowledge evaluation (n	naximum	100 points)					
Pre-exam requirements		points		Final exam		points	5
Activity during lecturing				Written exam			
Practical classes				Oral exam			60
Colloquia		40			```		
Seminar-S							

							1		
Study programme:	Ui	ndergraduate ac	ademic stud	ies Architect	ure				
Type and level of studies	s: Ui	ndergraduate ac	ademic stud	ies					
Course:	U	RBAN ANALYSIS	AND PLANN	ING					
Teacher:	As	sistant Professo	r Ph.D Marij	a L. Maruna					
Type of course:	Co	ompulsory							
ECTS:	3								
Preconditions:									
/									
Objectives:									
The focus of the course is on r	ecognizing,	positioning and stud	lying the essen	ce of the proble	ms in urban developme	ent, as we	ell as defining and		
analyzing the problems in rela	tion to the	possible ways of the	ir solution. Pro	blems are seen v	vithin the domain of pu	ublic inter	rvention. The course is		
directed towards understanding the problems, not their solving.									
Special objectives of the cours	e are: - Dev	eloping interest for	the complex pr	oblems faced by	v urban areas (cities). –	Developi onablos i	ng logical and creative		
professional activity on design	ing alternat	tive directions of dev	/elopment of ci	ties in the future		enables i			
Learning outcomes:	8								
Familiarization with the factor	s and actor	s of the urban devel	opment and co	nstruction, Fami	liarization with researc	h metho	ds and methods of		
regulation of urban structures	, Familiariza	ation with basic met	hods and techn	iques related to	the analysis and planni	ing of the	e spatial organization of		
the city, Understanding the co	mplexity of	development proce	sses in modern	cities, Understa	inding the basis of plan	ning cont	trol of urban		
development, Understanding	the necessi	ty of multidisciplinar	y approach to s	solving urban pro	oblems, Articulating the	e knowle	dge and thinking		
in studying urban structure. Co	nou, Establi	of the cognitive mo	del of professio	polems, identifyi nal expertise – t	ng and defining urban be nature of knowledg	e necess	ary for the work in		
urban planning.	511511 4011011	of the cognitive mos				e necesso	ary for the work in		
Course brief:									
Theoretical education:									
The city as a product and proc	ess. The for	ces affecting the inn	er structure of	a modern city; a	actors in the productior	n of built	environment, private		
and public. Patterns of urban	structure, h	eritage and modern	trends. Urban	changes: probler	ms in development. Pro	oduction	of built space – building		
land and built structures. The	way of use	of city land: the dep	oyment of acti	vities in the city,	conflict and compleme	entary ac	tivities. Values and		
evaluation. Regulation of depl	oyment of a	activities in market c	onditions: stab	ility and dynami	cs of the process. Asse	ssment o	f the quality of the		
forms of public intervention	different re	quirements. Parame	ters and regula	tion in construct	tion. Transformation of	the city :	structure: modern		
Practical education									
/									
Literature:									
 – Lazarević Bajec, Nada (2000) Urbana st	ruktura i zoniranje (t	extbook). Arhit	ektonski fakulte	t Univerziteta u Beogra	adu			
– Teofilović, Anica (2013) Urb	anističko pl	aniranje Beograda i o	očuvanje biodiv	erziteta. Beogra	d: Biološki fakultet Uni	verziteta	u Beogradu		
– Maruna, Marija (2013) Urba	nizam Beog	grada: priručnik za is	traživanje proc	esa proizvodnje j	prostora. Beograd: Arh	itektonsk	i fakultet Univerziteta u		
– Petrović Mina (2009) Trans	formacija g	radova: ka depolitiza	ciii urhanog nit	ania Beograd: I	nstitut za sociološka ist	raživania	Filozofskog fakulteta u		
Beogradu	ioimacija g			anja. Deograd. n		ruzivarija			
– McHarg, Ian (1969) Design	with Nature	. Garden City, NY: N	atural History F	ress					
Active training classes no.:					-		Other:		
Lectures:	Practical o	classes:	Other teachir	ng forms:	Studio research:				
3 Tarahing ng 11 - 1 - 1	/		/		/		l		
leaching methodology:									
Interactive teaching.		100 mainta)							
Knowledge evaluation (r	naximum	100 points)							
Pre-exam requirements		points Final exam points				S			
Activity during lecturing				Written exam			60		
Colloquia		40							
Seminar-s		40			N				
		I				1			

Study programme:	U	ndergraduate ac	ademic stud	lies Architect	ure		
Type and level of studies	s: Ui	ndergraduate ac	ademic stud	lies			
Course:	A	RCHITECTURAL L	JTILITIES				
Teacher:	Pr	ofessor Ph.D Lid	ija S. Đokić (course leade	r),		
	As	sistant Professo	r Ph.D. Mila	n A. Radojevi	ć		
Type of course:	Co	ompulsory		5			
ECTS:	3	. ,					
Preconditions:							
/							
Objectives:							
Overview on an architectural	structure in	general and implem	entation of uti	lities systems wi	th respect to the struct	ural syste	em. Introduction with
utility requirements of various	purposes b	ouildings.		-	-		
Learning outcomes:							
Acquisition of basic knowled	ge on utilit	ies systems that pro	ovide essential	comfort in bui	ldings, as well as on t	he requi	red space for adequate
performance.							
Course brief:							
Theoretical education:							
a. Sanitary facilities;							
b. Design of sewage system;							
c. Design of atmospheric sev	wage;						
d. Design of water supply sy	stem;						
e. Other utilities networks w	rithin a built	ding (heating, ventila	ation and air Co	onditioning, elect	trical installation, eleva	tors, was	te);
 Use of solar energy; Supply a solar energy; 	c notworks	dovices and equipm	ant in architac	tural structures			
g. Synchronization of utilitie	s networks,	, devices and equipm	ient in archited	tural structures.			
Practical education:							
Design of water supply system	and both f	aecal and atmosphe	ric sewage syst	em for a family l	house with at least two	floors. C	onnection to city
Literature:	ns. Detailed	a design if bathroom	interior with a	catalogue of ins	talled equipment.		
LILEI dLUI E.	ma i raaliza	cija arhitektonskih s	biokata 1 Izar	adnia Roograd	100/		
– Kresinin Martinković, Pripre	riručnik 5	Instalacijo u zgradan	Dujekala I. izgla	knjiga Boograd	1994.		
– Lidija Đokić, Milan Badojevi	·· Texthook	- instructions for nr	actical classes	Arhitektonski fa	kultet u Beogradu		
- Gordana Ćosić: Textbook: Pi	rostorne no	trehe sanitarnih ure	đaja Arhitekto	nski fakultet u B	eogradu		
Active training classes no.:			duju. / innekto		co81000.		Other:
Lectures:	Practical of	classes:	Other teaching	ng forms:	Studio research:		
2	2		1		1		
Teaching methodology:							
Ex cathedra lectures,							
Presentation.							
Knowledge evaluation (maximum	n 100 points)					
Pre-exam requirements		points		Final exam		point	S
Activity during lecturing		Written exam 50				50	
Practical classes				Oral exam			
Colloquia		50					
Seminar-s				`			

Study programme:	Ur	dergraduate ac	ademic stud	ies Architect	ure			
Type and level of studies:	Ur	Undergraduate academic studies						
Course:	DE	SIGN AND CALC	CULATION OF	ARCHITECT	JRAL STRUCTURES	2		
Teacher:	As	sociate Professo	or Ph.D Nena	ad D. Šekulara	ac (course leader),			
	As	sistant Professo	or Ph.D Žikica	a M. Tekić				
Type of course:	Co	mpulsory						
ECTS:	3							
Preconditions:								
Enrolled in the 5 th semester of study programme								
Objectives:								
The course objective is to introduc	e stude	nts with the elemer	nts of structural	design and calc	ulating of wooden and	metal arc	chitectural structures,,	
as well as of glass structures.								
Learning outcomes:								
Exposed material allows students	to reco	ognize the possibilit	ties provided b	y wooden, meta	al and glass load-beari	ng struct	ures in forming various	
architectural forms in designing th	e space							
Course brief:								
<u>Theoretical education:</u>								
History of wood, steel and glass as	a build	ing material; proper	rties of wood, s	teel and glass a s	structural building mate	erial; allo	wable stresses; multi-	
story skeleton buildings designed	of wood	, steel or glass as a	load-bearing st	ructure – th opti	mization of disposition	of colum	ns and beams; key	
principles of sizing of wooden, ste	el or gla	ss structural elemer	nts; methods of	constructions a	nd calculations of main	types of	connections of	
wooden, metal or glass structural	elemen	ts; spatial stiffening	of skeleton bui	Idings made of v	wood, metal and glass a	is a load-l	bearing structure	
element.								
Practical education:								
Students for already designed skel	eton bu	ilding (in terms of fi	unction) design	structural syste	m of wood, steel and g	lass – find	optimal solution in	
accordance with the function and	archited	ture of already defi	ined building; p	ositioning of stru	uctural elements; load a	analysis, s	structural analysis and	
of system elements and details of	calcula	tion of the structur	control some si	procoduro stud	opts soo the difference	s in docia	pinent of shop drawing	
structures of different materials	connect		e. mough this	procedure stud	ents see the unierence	s in uesig		
literature:								
– Metalne i drvene konstrukcije V	oiislav I	Kujundžić Dragoslav	v Tošić Zavod z	a udžhenike i na	stavna sredstva Bengr	he		
– Drvene Konstrukcije, v	eri Mil	an Goiković i saradr	v rosic, zavou z nici Građevinsk	i fakultet Univer	ziteta u Beogradu 200	au 7		
 Drvene konstrukcije, Milan Goik 	ović i Di	agoslav Stoiić. Geos	skniiga. Beogra	d.1996.	20061000,200			
 Čelične konstrukcije u zgradarsti 	/u. Drag	an Buđevac. Građe	vinska kniiga i N	Aedifarm. Beogr	ad.1992.			
 Metalne konstrukcije 1 i 2, Drag 	an Buđe	evac i saradnici, Grad	đevinski fakulte	et univerziteta u	Beogradu, Beograd, 199	99.		
Active training classes no.:		,					Other:	
Lectures: Pra	actical c	lasses:	Other teachir	ng forms:	Studio research:			
2 2			1		/			
Teaching methodology:								
Ex cathedra lectures and practical	classes.							
Knowledge evaluation (max	imum	100 points)						
Pre-exam requirements		points		Final exam		points	5	
Activity during lecturing		15		Written exam		50		
Practical classes		15		Oral exam				
Colloquia		20						
Seminar-s				`				

Study programme:	Undergraduate ac	ademic stud	lies Architect	ure					
Type and level of studies:	Undergraduate ac	ademic stud	lies						
Course:	ARCHITECTURAL	DESIGN PRO	CESS						
Teacher:	Associate Professo	or Borislav A	. Petrović						
Type of course:	Compulsory	Compulsory							
ECTS:	2	2							
Preconditions:									
Objectives: Understanding the emergence of architecture through a series of relative sitations, , which successively connects during the research on organization of the space. Observation of the architecture as a communication and social phenomenon. Review of the meaning of concepts around which subject matter is being developed, avoiding the uncritical acceptance of the conventions.									
Learning outcomes: Increasing the level of sensibility in relation to the phenomenon of architectural space, as well as to historical and socio-cultural cause-effect relations that it entails.									
Course brief:									
Theoretical education:									
Architectural design process represents a summary of theoretical education in undergraduate studies.									
The educational focus is on understa	nding of the circumstand	ces of the emer	gence of archite	ctural work, as well as a	an organi	zed space in general, in			
line with the essential features of cul	tural-historical period ar	nd their impact	on the evaluation	on. Architectural creativ	ity is inte	rpreted as a cultural			
phenomenon, or a form of communi	cation, through the trans	sfer, exchange a	and interpretation	on of information. It is p	rimarily	about the identification			
of individual participants and the leve	el at which communicati	on takes place.	Regardless of w	hether it is perceptual,	syntactic	, semantic or symbolic			
platform, the point is in the relative a	iutonomy of the product	t of creation, ar	chitectural spac	e, i.e. its message, the n	neaning	of which can always be			
Literature:	/.								
	TDANZICUA								
- B.Petrovic, I. Raskovic - TRADICIJA	- TRANZICIJA; upotreba	nasieda u arhite	ekturi", monogra	afija, izdavaci: Arnitekto	пѕкі таки	litet Univerziteta u			
– M Loianica, Proces projektovanja	u, 2011. sveska 1 i 2 Beograd S	krintarnica AF	2001						
– K Poner Objektivno saznanje Pod	orica Paidea 2002		2001.						
– Ž-M Šefer Zašto fikcija? Novi Sad	Svetovi 2001								
– U.Eko, Kultura, informacija, komun	ikacija, Beograd, Nolit, 1	973							
Active training classes no.:						Other:			
Lectures: Pract	ical classes:	Other teachi	ng forms:	Studio research:					
2 /		1		1					
Teaching methodology:									
Combination of lectures, consultation	ons, colloquias, seminar	paper and ora	al presentation	directs the discourse to	owards e	essential issues, without			
excessive and too extensive elaborat	ion.								
Teaching is interactive and implies ac	tive involvement of tead	chers and stude	nts.						
Knowledge evaluation (maxin	num 100 points)								
Pre-exam requirements	points		Final exam		point	S			
Activity during lecturing	10		Written exam						
Practical classes			Oral exam						
Colloquia	20+20=40 Seminar paper 50								
`									

Study programme:	Undergraduate ad	ademic stud	ies Architect	ure				
Type and level of studies:	Undergraduate ad	Undergraduate academic studies						
Course:	URBAN RENEWAL	URBAN RENEWAL						
Teacher:	Professor Ph.D. Ev	Professor Ph.D. Eva J. Vaništa Lazarević						
Type of course:	Compulsory	Compulsory						
ECTS:	3	3						
Preconditions:								
/								
Objectives: Introduction to basic knowledge about the integrated and sustainable urban renewal. Introducing students to the field of urban renewal, regeneration and urban recycling. An overview of the latest knowledge of urban renewal and regeneration, by adapting to global changes, accepting new sensations and phenomena, in terms of social relationships, new form of housing, environmental design, cultural facts, architectural heritage and its protection, all within the context of large-scale urban renewals.								
Learning outcomes: The application of this knowledge to the situation in the Serbia, which during transition period changes its appearance, will contribute that students, future architects – who will encounter this matter at every step, be prepared for the challenges of the profession. Knowledge of applying basic theoretical concepts and skills in shaping, reconstruction and regeneration of urban areas. Understanding the importance and possibilities of professional activity in the field of urban planning in Serbia and beyond.								
Course brief:								
Theoretical education:								
Familiarization with relevant urban	processes, phenomena a	nd ideas that sig	nificantly influe	nce and determine the	develop	ment of urban though		
both locally and in the European co	ntext.							
/								
Literature:								
– Vaništa Lazarević, Eva. Obnova g	adova u novom milenijun	nu. Beograd: Cla	issic map studio,	2003.				
 Vaništa Lazarević, Eva. Urbana Re 	konstrukcija. Beograd: Za	dužbina Andrej	ević, 1999.					
 Stojkov, Borislav, ur.Obnova grac 	ova u Srbiji – temeljne od	rednice. Beogra	d: Institut za arh	nitekturu i urbanizam Si	rbije, 199	6.		
 Lord Rogers of Riverside, ed.Tow 	ards an Urban Renaissance	e: Final Report o	of the Urban Tas	k Force. London: Spon	Press, 20	02.		
 Roberts, Peter W., and Hugh Syk 	es, ed. Urban regeneration	. London: SAGE	Publications, 20	00.		Other		
Active training classes no.:	rtical classos:	Othor toachir	a forme:	Studio rosparch:		Other:		
3 /		/	ig ionns.	/				
Teaching methodology:								
Ex cathedra lectures and interactiv	e teaching.							
Knowledge evaluation (max	mum 100 points)							
Pre-exam requirements	points		Final exam		point	S		
Activity during lecturing			Written exam		60			
Practical classes			Oral exam					
Colloquia	40							
Seminar-s								

Study programme:	Ui	ndergraduate ac	ademic stud	lies Architect	ure					
Type and level of studie	s: Ui	Undergraduate academic studies								
Course:	CC	CONSTRUCTION MANAGEMENT								
Teacher:	As	Assistant Professor Ph.D Miloš P. Gašić								
Type of course:	Co	Compulsory								
ECTS:	3	3								
Preconditions:										
Objectives:	ler									
The course introduces basic of	onconts rola	ted to the activities	and responsibi	lities of the arch	itect as a participant in	the cons	struction and legally			
regulated procedures in the fi	eld of archit	tecture, urban plann	ning and constru	uction. The object	ctive of the course is to	train fut	cure architects to take an			
Learning outcomes:	instruction,	inspection, quality								
Understanding of the construct	ction proces	ss and a role of an ar	rchitect within.	Mastering the te	echniques of developm	ent of Bi	ll of Quantities.			
Knowledge on the ways of doi	ng business	s, keeping document	tation, and relat	tionships betwee	en participants before a	and durir	ng the implementation			
phase.										
Course brief:										
Theoretical education:										
The first part of the course pre	esents cons	truction works and o	calculation of co	onstruction and o	craft works, and develo	pment o	f knowledge necessary			
for the preparation of the Bill	of Quantitie	es. The second part of	of the course re	fers to procedur	res in the realization pr	ocess, as	well as to the roles and			
competences of all participant	ts in the cor	istruction. This part	of the course in	icludes basic ele	ments of project mana	gement.				
Practical education:							and all and a first sh			
Exercises include working on s	selected pos	Sition from Bill of qu	antities of cons	truction works, o	on selected parts of des	sign, thro	ough all groups of rough			
Literature:		fients of the bill of q	quantities and it		ks price by prices analy	515.				
Dučanka Dorđović: IZVOĐEN			Izgradnia Roo	grad 2004						
– Dušanka Dorđević: IZVODLI – Dušanka Đorđević: OSNOVI	MENADŽMI	ENTA SKRIPTA Arhi	i izgradnja, beo itektonski fakult	et 2004.						
Active training classes no.:				20001			Other:			
Lectures:	Practical of	classes:	Other teachir	ng forms:	Studio research:					
2	1		1		1					
Teaching methodology:										
Theoretical education is perfo	rmed via ex	cathedra lectures, a	and practical cla	asses include tas	ks working.					
Knowledge evaluation (maximum	n 100 points)								
Pre-exam requirements		points		Final exam		point	S			
Activity during lecturing				Written exam			50			
Practical classes		20		Oral exam						
Colloquia		30								
Seminar-s										

			iaa Auchitaatu						
Study programme:	Undergraduate ad	cademic stud	ies Architecti	ure					
Type and level of studies:	Undergraduate ac	ademic stud	ies						
Course:	STRUCTURAL SYST	TEMS							
Teacher:	Professor Ph.D. M	liodrag S. Ne	storović						
Type of course:	Compulsory								
ECTS:	3								
Preconditions:									
Passed exam from course Mechanics and strength of materials									
Objectives:									
Introduction to the development and new structural systems for the purpose of rational use in architectural design.									
Systematic approach to the selection of the structural systems according to the design task. Coordination of architectural and structural form in									
order to find optimal solutions.									
Learning outcomes:									
Training to have systematic appro	ach in the selection of the s	structural syster	ns within given c	conditions and so succe	esfuly coo	rdinate the			
architectural and structural forma	tion of a building.								
Course brief:									
Theoretical education:									
1. LECTURE: Introductory class. TI	ne course brief.Presentation	n of students' d	rawings and mod	dels from previous gene	erations.	2. LECTURE: <u>The</u>			
development of structural system	s. Classification, structural	principles, meth	ods of selection	of structural systems.	3. LECTU	RE: <u>Beam systems.</u>			
Shaping (solid, truss, wall, frame,	prestressed systems). 4. LE	CTURE: <u>Beam sy</u>	<u>stems.</u> Orthogor	nal and non-orthogona	I meshes	, supporting and			
suspension with oblique elements	. 5. LECTURE: Arch systems	<u>s.</u> Shaping of arc	hes with variable	e sections, arches comp	posed of	prefabricated elements.			
6. LECTURE: Frame structure syste	ems. Prestressed and non-p	prestressed fram	es. Composition	s with diaphragms. 7. L	ECTURE:	Three-dimensional			
systems. Grid systems with 2-, 3-	and 4- way patterns, nodal	connections, ge	eodesic domes. 8	B. LECTURE: Shell struct	<u>tures.</u> For	ms of the shells that			
provide membrane state of stress	types of shell structures a	ccording to curv	ature. 9. LECTUR	RE: <u>Shapes of shells.</u> Ro	stational,	cylindrical, hyperbolic			
paraboloid, conoid and combined	10. LECTURE: Folded-plate	<u>e structures.</u> Sna	apes of folded-pl	ate structures (simple,	pyramida	al, ninged, polygonal			
and combined). 11. LECTORE: <u>Har</u>	open and closed cable net	c and mombran		S and contoures. 12. Le	Shapos o	Hanging structures on			
(no-moment and banding strained	contour) 1/ LECTURE: Pr	estressed denle	es. 15. LECTURE.	Types by contour sha	no 15 IF	CTURE: Proumatic			
structures – air-supported system	s (that contain a completely	v pressurized in	terior space) and	<u>.</u> air-inflated systems (c	composed	of pillow-like			
elements).		, pressuitzeu	center opace, and		, and a second	or philot line			
Practical education:									
Weeks 1-5: Linear systems. The fo	rmation of the structural g	rid. transformat	ion of columns b	v compression, suppor	ting and	suspending, Weeks 6-7:			
Shell structures with single and do	uble, positive and negative	curvatures. We	ek 8: Folded-pla	te structures on rectar	ngular an	d trapezoidal base-			
plans, with concave and convex ki	ees. Weeks 9-10: Hanging	roofs, single-lay	er and two-layer	r, open and closed cabl	e nets.				
Semester work: Week 11-15: Ana	ysis and selection of the str	ructural system	of high-rise or la	rge-span building. Case	e study: A	nalysis of examples			
from literature of 5 high-rise and	5 large-span buildings.								
Literature:									
– M. Nestorović. KONSTRUKTIVNI	SISTEMI – PRINCIPI KONST	RUISANJA I OBL	IKOVANjA. Arhite	ektonski fakultet Unive	rziteta u	Beogradu, 2000.			
– Đ. Zloković. KOORDNIRANI SIST	EMI KONSTRUKCIJA. Građev	vinska knjiga, Be	ograd 1969. Đ. Z	Zloković. PROSTORNE S	TRUKTU	RE. SPACE STRUCTURES.			
Institut za Arhitekturu i urbaniza	am Srbija, Građevinska knjig	ga, 1969.							
 – F. Moussavi. THE FUNCTION OF 	FORM. Actar and Harvard	Graduate Schoo	l of Design, 2009						
– H. Engel. STRUCTURE SYSTEMS,	3rd Edition. Hatje Cantz, 20	007.							
Active training classes no.:						Other:			
Lectures: Pr	actical classes:	Other teachin	ng forms:	Studio research:					
Z Z		/		/					
Teaching methodology:									
Ex cathedra lectures, practical clas	ses with consultations (in v	which students (develop drawing	s and working models (directly re	elated to the practical			
tasks and development of semester work), case studies – examples from the literature. It is expected that students will take active participation in									
the course.									
Pre-exam requirements	points		Final exam		point	5			
Activity during lecturing			Written exam		,	30			
Practical classes	20		Oral exam		1	50			
Colloguia	50								
Seminar-s			`						

Cturd and an and an and a second	I be demonstrates as								
Study programme:	Undergraduate ac								
Type and level of studies:	Undergraduate ac	ademic stuc	lies						
Course:	LEGISLATION								
Teacher:	Assistant Professo	or Vesna P. C	agić Miloševi	ć,					
	Assistant Professo	or M.Sc. Bise	erka Č. Mitrov	νić,					
	Assistant Professo	or Ph D Milo	š P. Gašić	,					
Type of course:	Compulsory								
Type of course.									
ECIS:	2								
Preconditions: /									
Objectives: The course objectives are: Introducti architectural design and construction diversity of demands and needs of pr construction process.	on with relevance, devel n, as well as with standar ofessions involved in the	opment and co ds and norms t e process of urb	ntents of the leg hat are binding a ban and spatial pl	islation and regulation Irchitects in their profe Ianning, architectural a	s in the a ssional w ind urban	rea of urbanism, ork. Knowledge on the design and			
Learning outcomes:									
Awareness of the importance and ability to understand legislative framework in processes of urban and spatial planning, architectural and urban design and construction process. Ability to apply gained knowledge in practice, and to recognize responsibilities, competencies, place and time of involvement of different stakeholders in the planning, design and construction process. Ability to apply practical knowledge of the processes of implementation and project management. Awareness of a causal connection between social context and processes in architecture.									
Course brief:									
<u>Theoretical education:</u> Significance and development of legislation and planning regulations making the regulatory framework in planning, design and construction; Types and structure of compulsory regulations, laws and bylaws, standards, norms and professional rules; The role of institutional system involved in the process of urban and spatial planning, place and role of particular phases in designing and construction process and understanding of the process of decision-making and scoping of particular projects; Public participation in the legislation of urban and spatial planning; Introduction to the general context of EU legislation; Introduction to the obligations and competencies of stakeholders in the construction process;									
Literature:	,								
 Literature: Gradimir Krstić: ZAKONSKA REGULATIVA U GRADITELISTVU, Časopis "Izgradnja"; SGITS, SAS, Beograd 2004 Cagić Milošević V; Medjo V; Mitrović N. "General legislative (regulatory) framework for residential construction in Serbia from 1948 to 2011. The example of Belgrade", od str. 56 do str 92. in Housing development in Serbia of globalisation end integrations. Methods end tendences. Vol 2. 2012 Faculty of Architecture University of Belgarde Pajović D.: Pregled urbanističkog zakonodavstva Srbije, Udruženje urbanista Srbije. Novi Sad, 2005. Pajović D.: Urbanistički zakoni južnoslovenskih zemalja – BIH, Crna Gora, Hrvatska, Makedonija, Slovenija, Srbija 									
Active training classes no.:						Other:			
Lectures: Pract	ical classes:	Other teaching	ng forms:	Studio research:					
2 /		1		/					
Teaching methodology: Combination of ex cathedra lectures, analysis of characteristic examples and seminar papers. The accent is on improvement and deepening of designing experience in subject area.									
			Final avera		ncint				
Pre-exam requirements	points		Final exam		points	5			
Activity during lecturing			Written exam		───	/0			
Practical classes			Ural exam		───				
	30		、 、		───				
Semilidi-S					L				

Type and level of studies: Undergraduate academic studies Course: PROFESSIONAL INTERNSHIP Teacher: Professor Ph.D. Milorad B. Ribar, Assistant Professor M.Sc. Biserka Č. Mitrović, Assistant Professor Ph.D. Miloš P. Gašić Type of course: Compulsory ECTS: 2 Preconditions: / Objectives: The course objective is the application of acquired knowledge in practice. Students are familiarized with different phases of the realization process, from the development of dorign documentation, the relationship with a client, the procedure for obtaining various permits and approvale to proceedure for obtaining various permits and approvale to proceedure for obtaining various permits and approvale to permits approvale to p							
Course: PROFESSIONAL INTERNSHIP Teacher: Professor Ph.D. Milorad B. Ribar, Assistant Professor M.Sc. Biserka Č. Mitrović, Assistant Professor Ph.D. Miloš P. Gašić Type of course: Compulsory ECTS: 2 Preconditions: / Objectives: The course objective is the application of acquired knowledge in practice. Students are familiarized with different phases of the realization process, from the development of docimentation, the relationship with a client, the procedure for obtaining various permits and approvale to							
Teacher: Professor Ph.D. Milorad B. Ribar, Assistant Professor M.Sc. Biserka Č. Mitrović, Assistant Professor Ph.D. Miloš P. Gašić Type of course: Compulsory ECTS: 2 Preconditions: / Objectives: The course objective is the application of acquired knowledge in practice. Students are familiarized with different phases of the realization process, from the development of design documentation, the relationship with a client, the procedure for obtaining various permits and approvale to							
Assistant Professor M.Sc. Biserka Č. Mitrović, Assistant Professor Ph.D. Miloš P. Gašić Type of course: Compulsory ECTS: 2 Preconditions: / / Objectives: The course objective is the application of acquired knowledge in practice. Students are familiarized with different phases of the realization process, from the development of design desumentation, the relationship with a client, the procedure for obtaining various permits and approvale to proceedure for obtaining various permits and approvale to proceedure for obtaining various permits and approvale to permit and approvale to permit							
Assistant Professor Ph.D. Miloš P. Gašić Type of course: Compulsory ECTS: 2 Preconditions: / / Objectives: The course objective is the application of acquired knowledge in practice. Students are familiarized with different phases of the realization process, from the development of design desumentation, the relationship with a client, the procedure for obtaining various permits and approvale to proceed the development of design desumentation.							
Type of course: Compulsory ECTS: 2 Preconditions: / Objectives:							
ECTS: 2 Preconditions: / / Objectives: The course objective is the application of acquired knowledge in practice. Students are familiarized with different phases of the realization process, from the development of design documentation, the relationship with a client, the procedure for obtaining various permits and approvale to							
Preconditions: / Objectives: The course objective is the application of acquired knowledge in practice. Students are familiarized with different phases of the realization process, from the development of design documentation, the relationship with a client, the procedure for obtaining various permits and approvals, to							
/ Objectives: The course objective is the application of acquired knowledge in practice. Students are familiarized with different phases of the realization process, from the development of design decumentation, the relationship with a client, the procedure for obtaining various permits and approvals to							
Objectives: The course objective is the application of acquired knowledge in practice. Students are familiarized with different phases of the realization process, from the development of design decumentation, the relationship with a client, the procedure for obtaining various permits and approvale to							
The course objective is the application of acquired knowledge in practice. Students are familiarized with different phases of the realization process, from the development of design decumentation, the relationship with a client, the procedure for obtaining various permits and approvale to							
from the development of design decumentation, the relationship with a client, the procedure for obtaining various permits and approvals to							
non the development of design documentation, the relationship with a cheft, the proceeding of documents and approvals, to							
concrete work on the construction of the structure and the role of the architect in supervising and controlling the quality of work.							
Learning outcomes:							
processes and processes and procedures of the realization of architectural and urban designs. Acquiring knowledge about who participants in these processes are and their qualifications, positions in the processes and competencies, as well as the position, duties and							
competences of the architect in the realization of architectural and urban design.							
Course brief:							
Students will spend three working weeks in a design office or on construction site. In the design office, students are introduced to the company							
structure and system of work, phases in developing the design documentation, procedures for obtaining conditions and approvals. On construction							
site, they are introduced to site documentation, construction technology, applied materials, tools and other participants in construction. The work							
plan is in agreement with the employer, within the tasks set by the managerial teacher. During the practice, students keep the log book and write							
paper.							
Literature:							
/ Active training classes no : Other							
Active training classes no Other teaching forms: Studio research:							
Teaching methodology:							
A student himself choses a design office or construction site where he will do the practice / in the country or abroad.							
Practical work within the design office with a visit to the location or a structure in construction, the comparison of the design with the actual							
situation.							
Practical work on construction site, familiarizing with site documentation, technology, participants in construction and business.							
Knowledge evaluation (maximum 100 points)							
Pre-exam requirements points Final exam points							
Day-book on internship activities 50 Seminar paper 50							

University of Belgrade –Faculty of Architecture UNDERGRADUATE ACADEMIC STUDIES ARCHITECTURE BOOK OF COURSES

ELECTIVE COURSES

Study programme:	Undergraduate a	cademic stud	ies Architect	Iro				
Type and level of studies:	Undergraduate a	cademic stud						
Type and level of studies:			nes		<u> </u>			
Course:	STUDIO 01b - UR	BAN DESIGN	OF RESIDENT	IAL ASSEMBLIES -	Design	project 01-14		
Teacher:	Professor M.Sc. Petar Professor Ph.D. Vlada Associate Professor P Professor Zoran N. Đu Ž. Lalović; Assistant P Assistant Professor M	M. Arsić; Protes n A. Djokić; Prof h.D. Aleksandra ıkanović; Assista rofessor Ph.D. N .Sc. Biserka Č. N	sor M.Sc. Dragai essor M.Sc. Rajk M. Đukić; Associ nt Professor M.S larija L. Maruna; litrović	na M. Bazik; Professor F o Lj. Korica; Professor F ate Professor Ph.D. Ale ic. Jelena A. Živković; A Assistant Professor M.	Ph.D. Eva Ph.D. Mio Iksandra I ssistant P Sc. Uroš I	J. Vaništa Lazarević; drag B. Ralević; 3. Stupar; Assistant rofessor Ph.D. Ksenija 3. Radosavljević;		
Type of course:	Elective							
ECTS:	3							
Preconditions:								
Passed exams from study units re	elated to urbanism in 1 st and	d 2 nd semester						
Objectives:								
Introducing students to basic me knowledge of shaping space in so predominantly residential.	thods and techniques of an Iving practical tasks in the u	alysis of location urban design pro	and urban designcess. Developing	gn. Gaining experience g skills in urban design o	in the app of small u	olication of theoretical rban units,		
Learning outcomes:								
Upon completion of the course s	tudents will be able to:							
 Understand multi-layered char Have knowledge of different as context. 	acter of the urban space, spects, methods and technic	ques of analysis	of location and d	levelop skills of their ap	plication	in a specific urban		
 Define, on the basis of underst improvement in the field of underst 	anding different urban dem oan design.	ands and knowl	edge of specific r	elations and processes	in the sp	ace, possibilities of its		
Course brief:	0							
Theoretical education:								
/								
Practical education:								
A) Analytical – problematic frame	ework of urban design of a s	mall urban asse	mbly					
 Analysis of the context: the po functional, physical), analysis c Analysis of location and micro- Synthesis: values/problems, pc Design of a small urban assem 	sition in the city, the charac f correlation and availabilit location: the characteristics ossibilities/limitations regard bly	teristics of a wid /, of public space ding functional-p	er and narrow contents of the charter of the charte	ontext (natural-environ aracteristics of element tions in the space.	imental, s	socio-cultural, n structure,		
Thematic areas: nature/ecosyste Spatial levels: a) small urban asse	ms, needs/activities, comm mbly (district/neighborhoo	unication/move d), b) standard e	ment, building/d element of urban	evelopment, communi structure (block/stree	ty/place, t), c) desi	private/public, gn of details of urban		
space; Program – spatial concept: system	natization of facilities accor	ding to the basi	r spatial and fund	ctional characteristics a	nd under	rstanding their mutual		
relationships. Distribution and or	ganization of facilities in the	e space. Definitio	on of types of bu	ilt-up coverage with ba	isic urban	parameters. Definition		
Design-related solution: formatic	on and shaping of systems o	f structures and	public spaces. D	efinition of all areas an	d basic le	veling at the level of		
conceptual design. Check of mut	ual dimensional, functional,	and regulatory	and composition	al relations.				
Literature:								
– Priručnik za urbani dizajn (Urb	an Design Compendium), O	rion Art and Pro	graf, Belgrade, (2	2008)				
- Loidl H., Bernard S. (2003) Ope	ning Spaces : Design as Land	dscape Architect	ure, Basel, Berlir	n, Boston: Birkhauser				
- Thomas R Fordham M (ed.)	1005) Sustainable Urban De	sign · An Environ	mental Annroac	h London New York: S	non Pres	s		
– Hugh, Barton, (2004) Shaping I	Neighbourhoods, London, N	ew York : Spon F	ress		ponnics	5		
Active training classes no.:						Other:		
Lectures: P / /	ractical classes:	Other teachir 3	ng forms:	Studio research: /				
Teaching methodology:								
Knowledge evaluation (ma	ximum 100 points)							
Pre-exam requirements	noints		Final exam		point	;		
Activity during lecturing	20		Written exam		20110	40		
Practical classes			Oral exam					
Colloquia	40		PA	RT OF THE FINAL GRAD	E ¹ of the	Study unit –		
Seminar-s				Urban Des	sign 1			

¹ The final grade is being awarded for the Study unit Studio 01b as a sum of single grades achieved on each of courses depending on the number of ECTS. (Study unit Leader: Assistant professor Zoran N. Đukanović)

Study programma	11.	dorgraduato ao	adamia atud	iac Architact	170			
Study programme:	01							
Type and level of studies	5: UI	ndergraduate ac	ademic stud	ies				
Course:	ST	UDIO 02a – SUS	TAINABLE U	RBAN COMM	UNITIES – Design	project	01-11	
Teacher:	Pro Pro Ph As Pro	ofessor M.Sc. Rajko L ofessor Ph.D. Aleksaı .D. Ksenija Ž. Lalović sistant Professor M.S ofessor Ph.D. Marija	essor M.Sc. Rajko Lj. Korica; Professor Ph.D. Miodrag B. Ralević; Professor M.Sc. Petar M. Arsić; Associate essor Ph.D. Aleksandra M. Đukić; Associate Professor Ph.D. Aleksandra B. Stupar; Assistant Professor . Ksenija Ž. Lalović; Assistant Professor Zoran N. Đukanović; Assistant Professor M.Sc. Jelena A. Živković; .tant Professor M.Sc. Uroš B. Radosavljević; Assistant Professor M.Sc. Biserka Č. Mitrović; Assistant essor Ph.D. Marija L. Maruna					
Type of course:	Ele	ective						
ECTS:	6							
Preconditions:								
Passed exams from study units	s related to	urbanism in 1 st and	2 nd semester					
Objectives:								
Mastering basic methods, tech	nniques and	tools in designing su	ustainable urba within more co	n communities.	Further development a	ind deep	ening of acquired basic	
Learning outcomes:								
Ability to apply comparative case study methods in searching for possible courses of action in a given spatial area. Ability of urban articulation of								
new spatial solutions on regulatory, functional and formal level. Acquired skills in applying basic analytical techniques, systematization and								
presentation of analytical results, applying techniques tree of objectives/problems, the quantitative evaluation technique. Deepening of skills in the								
tield of urban design and in applying basic urban techniques.								
Course brief:								
<u>Theoretical education:</u>								
/ Dractical advection								
<u>Proclical education:</u>	oprovo givo	n ovicting urban area	a on the basis o	of analysis and ur	adorstanding of the cor	atoxt		
Defining, conceptual setting a	nd concepti	al elaboration of the	e urban design	of the urban are	a in spatial, functional	and form	al context, through	
tree levels: 1. Conceptual setti	ng – quality	assessment, formul	lation of object	ives, expected de	evelopmental effects a	nd estab	lishing the adequate	
relation with the observed cor	ntext on the	programme and spa	atial level. 2. Ur	ban system – ex	ploring forms of new s	patial-fur	nctional assemblies, the	
process of their formation, str	uctures and	I methods of using p	ublic space net	work on a select	ed narrower location.	3. Urban	and architectural	
solution of segment – detailed	definition	of architectural orga	nization and m	aterialization of	the space. Quality eval	uation of	proposed urban	
literature:	bjectives.							
– K Lalović Održive urbane za	aiednice Δr	hitektonski fakultet I	Iniverziteta u f	Beogradu (in pro	duction)			
 Bajić Brković, M.,ed., (2010) 	Kreativne s	trategije za održivi r	azvoj gradova u	u Srbiji, Arhitekto	onski fakultet Univerzite	eta u Bec	ogradu	
– Nan, E. (2006). Integral Urba	anism. Lond	on: Routledge, Taylo	or & Francis Gro	bup			0	
– Thomas R., Fordham M. (ed	.)(2005) Sus	tainable Urban Desi	gn : An Environ	mental Approacl	h, London, New York: S	pon Pres	s	
– Reeds, J. (2011). Smart Grov	vth - From s	prawl to sustainabili	ity. UK: Green E	Books.				
Active training classes no.:							Other:	
Lectures:	Practical o	lasses:	Other teachir	ig forms:	Studio research:			
/ Tooching mothodology:	1		0		/			
Interactive teaching field rose	arch comp	arativo analycic of co	so studios, stu	dia racaarch				
Knowledge evaluation (r	navimum	100 noints)	ise studies, stu	dio research.				
Pre-evam requirements	IIdxiiiidii	noints		Final exam		noint	c	
Activity during lecturing		20		Written evan		point	40	
Practical classes		20		Oral exam			'' U	
Colloquia		40		PAI	RT OF THE FINAL GRAD	E ² of the	Study unit –	
Seminar-s		-	Design studio 02a Urbanism			sm		

² The final grade is being awarded for the Study unit Studio 02 as a sum of single grades achieved on each of courses depending on the number of ECTS.

Study programme:	U	ndergraduate ac	ademic stud	ies Architectu	ure			
Type and level of studies	s: Ur	ndergraduate ac	ademic stud	ies				
Course:	ST	UDIO 03a – ARC	HITECTURA	L TECHNOLOG	GIES – Project Deve	elopme	nt (01-14)	
Teacher:	Pro Ste As: As: Pro Pro	Professor Ph.D. Ana P. Radivojević; Assistant Professor Dušan M. Ignjatović; Assistant Professor Zoran M. Stepanović; Assistant Professor Dragan N. Marčetić; Assistant Professor M.Sc. Nataša D. Ćuković Ignjatović; Assistant Professor M.Sc. Budimir S. Sudimac; Associate Professor Ph.D. Jelena A. Ivanović Šekularac; Assistant Professor Ph.D. Aleksandar N. Rajčić; Assistant Professor Ph.D. Jasna Lj. Čikić Tovarović; Associate Professor Ph.D. Nenad D. Šekularac; Assistant Professor Ph.D. Žikica M. Tekić; Professor Ph.D. Milan T. Glišić; Professor Ph.D. Miodrag S. Nestorović; Assistant Professor Ph.D. Ruža D. Okrajnov Bajić						
Type of course:	Ele	ective	0			, ,		
ECTS:	9							
Preconditions:								
Average grade during the prev	vious studie	S						
Objectives: The course objective is to introduce students with comprehensive process of designing buildings, starting from the conceptual design, through the elaboration of characteristic details, to main architectural design, including elements of structural design. In this process, students are introduced to required contents of design documentation, and relevant regulations applicable to architectural design and construction, understanding their impact on the design process itself. Students through design development improve acquired knowledge which they synthetically apply, taking into account the full complexity of the profession. The task is a simulation of the entire designing process, during which it is necessary to harmonize different requirements in solving a particular architectural problem. This process aims to confront students with the necessity and requirements of to any orchange and promote different ideas and consents.								
Learning outcomes:	T the team	exchange and prom						
 General outcomes: integrating knowledge acquired in the field of materialization and construction technique; acquiring the ability to synchronize aesthetic and technical requirements in the process of architectural design; developing the ability to work on main design through creative cooperation with all participants in the process of designing buildings, creating a basis for quality work in practice. Specific outcomes: understanding the design of structural system; acquiring the knowledge about the logic of establishing the structural system in the context of mechanical behavior of the structure, as well as methods of analysis of the mechanical behavior of the structure as a function of optimization of the system shape and shape and dimensions of structural elements; 								
 acquiring the knowledge ab rom adverse climatic condi developing competencies for 	out the phy tions; or designing	sics of buildings, as	well as function	is of the structur	e in order to provide in	idoor con	nfort and protection	
 acquiring the knowledge ab During all phases of design design designing pr 	out all elem velopment ocess, aestl	ients of the design d the general evaluati netic and technical c	locumentation on criteria are: quality of the de	preceding the pro- independence ar esign and present	oject realization. nd organization, linking tation.	and app	lication of theoretical	
Course brief:								
<u>Practical eaucation:</u> The course is carried out throu	igh practica	l classes during wh	ich architectura	lurban design is	developed containing	alamant	s of structural design	
according to the given program	n, on a part	icular location. In th	he studio are te	achers and assoc	ciates from the field of	architect	ural structures and	
architectural engineering, whi Based on the defined design b and comparative analyses of d Special emphasis is given to th	ch are the t rief and pro lifferent spa e design of	hematic framework ogram, the architect atial-functional, shap structure and archit	of the task. ural-urban desi, pe-related and t tectural detail.	gn is developed, echnical solution	with elements of struc	tural desi	ign, through research	
literature:		design includes the a		inerent methous	or presentation and vi	Sudiizatic	лп	
 Addis Bill, Creativity and Inn Ivković, V, Višespratne skele Curtis W. Fentress, Civic Bui Martin Mitag. Građevinske I 	ovation – tl tne zgrade Iding, Wiley construkcije	ne Structural Engine – konstruktivni skloj -academy, London, e. Građevinska knjiga	er's Contributic povi i elementi, 2002. a. Beograd, 200	on to Design, Arcl Arhitektonski fa 0.	hitectural Press, 2001. kultet, Beograd.			
Active training classes no.:							Other:	
Lectures:	Practical o	lasses:	Other teachir	ng forms:	Studio research:			
/ Teaching methodology:	/	omont protion de	7	tations	/			
Knowlodge evaluation (ement, practical clas	ses and consul	lations.				
Bro over requirements	naxiiiluff	noints)		Einal over		noint		
Activity during lecturing		points		Written evam		points		
Practical classes				written exam Oral exam		50		
Colloquia		15+3	0	Seminar-s		1	-	

Study programme:	U	ndergraduate ac	ademic stud	ies Architectu	ure				
Type and level of studies	s: Ui	Undergraduate academic studies							
Course:	ST	UDIO 03b – MU	LTIFAMILY H	IOUSING – 01	-11				
Teacher:	As Pr Pr As Pr M	Associate Professor Dejan D. Miletić; Associate Professor Ivan V. Rašković; Assistant Professor Aleksandar Č. Videnović; Assistant Professor Nebojša S. Fotirić; Assistant Professor Ph.D. Djordje V. Stojanović; Assistant Professor Vesna P. Cagić-Milošević; Assistant Professor Igor Ž. Rajković; Associate Professor Aleksandru J. Vuja; Associate Professor Milan A. Djurić; Assistant Professor Ivan J. Kucina; Assistant Professor Ph.D. Milan D. Maksimović							
Type of course:	El	ective							
ECTS:	4								
Preconditions:									
/									
Objectives: The course objective is to enable students to continue education in the field of housing. After theoretical classes on housing and studio work in the previous semester in the field of family housing and transitional housing forms, in this course students are introduced with problems of multifamily housing through a series of lectures and studio work. Through dedicated lectures related to the specifics of this type of housing, as well as through development of the design on a particular location, students are introduced to advantages and limitations of multifamily housing. Working in the studio, a series of discussions, and case studies, all in accordance with the context, provide an opportunity for students to form contemporary architectural view on the existing mestar the skills appropriate design on the studies.									
architectural view on the subject matter and master the skills necessary to develop conceptual design of a multifamily building.									
Learning outcomes: Students acquire knowledge that enable them up-to-date, professional and sustainable approach to the design of multifamily housing buildings, in the spirit of modern life and contemporary architecture, and they become trained to master complex design issues related to this type of structure and create the space worthy of a modern man									
Course brief:									
Theoretical education: Theoretical education aims at is at the level of physical, phys architect in creation of this ty	understand iological an	ling historical, social, id utilitarian concept ure, in terms of appe	, economic and ion of the spac earance, sustair	social aspects of e, from one side, nability, expertise	f the phenomenology c , while, from the other e and relevance.	of multifa side, it d	mily housing. The focus efines the role of the		
Practical education:		,	· · · · · · · · · · · · · · · · · · ·						
Practical education takes place correlation with the context, s conceptual design with all nec with multifamily residential us	e in the stud tudents im essary func se.	dio, where in direct w prove their skills in fo tional and aesthetic	work on a partion orming concept characteristics,	cular location, a i t, which afterwar , but also the ele	multifamily residential rds, through further ela ments necessary for pr	building aboration esenting	is designed. In , bring to the level of architectural structure		
Literature:	-								
– Vladimir Lojanica, Stanovan	je – tematsi	<i>ke celine,</i> Arhitekton	kski fakultet, B	eograd, 2013.					
 Other required readings will 	be specifie	d according the give	n design brief o	ut the tables 10.	3 and 10.4 and other re	esources.			
Active training classes no.:							Other:		
Lectures:	Practical o	classes:	Other teachir	ng forms:	Studio research:				
/ Teaching methodology:	/		4		/				
Studio-based methodlogy w	ith occasio	nal lectures on des	ign related to	nics Comhinatio	on of several teaching	forms -	- ex cathedra lectures		
interactive teaching, case stud	lies, individ	ual and group projec	cts, research, pr	esentation, essa	ys, seminars, etc.	,			
Knowledge evaluation (maximum	n 100 points)			·				
Pre-exam requirements		points Final exam points					5		
Activity during lecturing		10	_	Written exam					
Practical classes				Oral exam			10		
Colloquia		40		Design project			40		
Seminar-s		1				1			

Study programme: Undergraduate academic studies Architecture										
Type and level of studie	s: Ui	ndergraduate ac	ademic stud	lies						
Course:	PF	RIVATE AND PUB	LIC IN RESID	ENTIAL ARCH	IITECTURE OF					
	A	NTIQUITY AND T	HE MIDDLE	AGES						
Teacher:	As	sistant Professo	r Ph.D. Gord	lana D. Miloš	ević-Jevtić					
Type of course:	El	Elective								
FCTS	2									
Dressenditioner	2									
/										
<u>,</u> Objectives:										
This thematic unit is designed	to introduc	e students to definir	ng concents of	residential archit	ecture in ancient times	and the	Middle Ages Style			
form, applied structure and co	onstruction	technique and syste	matization of n	naterials on type	es of structures, the sha	are of ma	terials and building			
material in late antiquity in th	e region, wi	th special emphasis	on monolithic a	and skeleton con	struction and applied t	ypes of s	tructural systems.			
Medieval house and the estab	lishment of	the concept of citiz	en-householde	r. Transformatio	n of private and public	in the coi	ntext of the early			
Christian's house. Bishop's pa	ace as a ne	w center of power.								
Learning outcomes:										
Upon each chronologically cor	npleted uni	it, colloquies/mid-te	rm exams (4 in	total) are planne	ed; in which students w	ill analysi	is certain forms of			
residential architecture from t	he past. Stu	udents are expected,	, after passing t	he exam, to have	e knowledge of history	and deve	elopment of residential			
architecture and division of th	e space into	public and private.	Acquired speci	fic knowledge in	the field of ancient an	d mediev	al residential			
architecture will be of direct b	enefit to th	e understanding of i	needs in design	ing residential ar	rchitecture based on co	ontempor	ary needs of urban and			
rural population.										
Course brief:										
Theoretical education:										
Hellenization in art and archite	ecture, whi	ch began in the seco	nd century BC,	became the basi	ic framework of private	and pub	lic life in the Roman			
Empire. Social and historical d	iversity in t	he organization of th	house on the	e east and west s	ublimates unique deve	lopmenta	al type of residential			
architecture of the Roman Em	pire – dom	us. Such an attitude	and a lifestyle I	ead to the creati	on of international Ror	nan hous	e, which reigns			
and transformation. During la	to antiquity	it came to the tran	formation of t	ho rolation botw	oon public and privato	and villa	- function, appearance			
nlace similar to a privatized for	rum The ar	, it came to the trans	sidential archit	ecture in the Fas	t through the Byzantir	ne house	and its transformation			
of structure and space into ur	ban Islamic	house. Residential a	rchitecture of t	he feudal West a	and organization of put	plic and p	rivate in single-space			
and multi-space houses. The l	ord of the n	nanor in the Middle	Ages and adjus	tment of the hou	use to post and petrail s	skeleton	construction. Feudalist			
and fortified palace - castle a	nd different	iation between publ	ic and private.	Sacralization of I	iving space in monaste	ries and b	oishops' palaces.			
Bishop's palace as a new center	er of power	. Impacts of ancient	and medieval h	nouses on reside	ntial architecture of the	e Renaiss	ance and Baroque.			
Literature:										
 – G. Milošević, Stanovanje u s 	rednjoveko	vnoj Srbiji, Beograd	1977.							
 – P. Ven i dr., Od Rimskog car 	stva do 100	0. godine, U: Istorija	privatnog živo	ta 1 (ed. F. Arijes	, Ž. Dibi), Beograd, 200	0, Clio.				
 D. Bartelemi i dr., Od feudal 	ne Evrope o	do renesanse, U: Isto	orija privatnog ž	života 2 (ed. F. Ar	rijes, Ž. Dibi), Beograd 2	2001, Clio				
 – J. C. Anderson, Roman Arch 	itecture and	d Society, The Johns	Hopkins Univer	sity Press Baltim	ore and London, 1977	•				
 – L. Breje, Vizantijska civilizaci 	ija, Beograd	1976								
Active training classes no.:	Destinate				Charlie and a state		Other:			
Lectures:	Practical o	classes:	Other teachir	ng forms:	Studio research:					
Z	1		/		1					
Introduction through locturer	to modor	a mathadalagy of st	udving ancient	and modioval ha	using stock in the torrit	ony of th	o formar Poman			
Empire Each lecture includes	several tea	rhing: case studies i	nteractive com	munication and	guided thematic discus	sions wit	the aim of provoking			
personal interests of students	mastering	and connecting with	n contemporary	housing standa	rds Integral parts of th	e teachin	g are regular			
consultations with students re	garding exa	ams, and introducing	to basic and re	ecommended lite	erature. Consultations	regarding	preparation of the			
final paper.			,			-88	pp			
Knowledge evaluation (maximum	100 points)								
Pre-exam requirements		points		Final exam		points	5			
Activity during lecturing		. 10		Written exam			40			
Practical classes				Oral exam		1	10			
Colloquia		40								
Seminar-s										

Study programme:	U	ndergraduate ac	ademic stud	lies Architectu	ure			
Type and level of studie	s: Ui	Undergraduate academic studies						
Course:	PF	ROTECTION AND	REVITALIZA	TION OF ARC	HITECTURAL HERI	ГAGE		
Teacher:	A	Associate Professor Ph.D. Miriana Z. Roter-Blagoiević						
Type of course:	FI	Elective						
FCTS	2	2						
Preconditions:								
/								
/ Objectives:								
Introduction to the basic objectives, principles, methods and contemporary examples of integrative care, restoration and revitalization of the architectural heritage in the world and in Serbia in order to acquire basic knowledge in the field pf preservation of cultural heritage and architectural design in the protected areas. Knowledge of basic elements of the law on cultural goods and international recommendations and charters.								
Learning outcomes: Knowledge of basic principles, legislation, evaluation, methods of protection and use of contemporary architectural heritage as a qualification for future problem solving in the field of protection and revitalization of historic buildings and spaces. This knowledge is necessary for quality dealing with protection and revitalization when working on design projects on higher levels of studies and practice in the future.								
Course brief:								
Theoretical education:								
Historical development of the architectural heritage in our country and worldwide, contemporary standards, recommendations and charters. Evaluation and monumental qualities. Principles and methods of technical protection of architectural heritage. Objectives and principles of revitalization of the architectural heritage. Opportunities for revitalization and contemporary approach in the renewal of historic buildings and areas. Presentation and contemporary use of protected buildings and ambiences. Regeneration and renewal of different types of heritage – urban core, residential architecture, industrial heritage etc. <u>Practical education:</u> Visits to protected areas, consultations, introduction to literature, colloquias and presentation of research results to follow students' engagement in								
Literature:								
 Nenadović, S. Zaštita gradita Nešković, J. Revitalizacija sp Venecijanska deklaracija INT 32-34. Jokileto, J. Konzervacija izm Stovel, H. Kulturni peizaži: n 	eljskog nask omenika ku TBAU - za o eđu prakse ovi pristup	eđa, Arhitektonski fa Ilture, Arhitektonski čuvanje spomenika l i teorije, u: Glasnik E očuvanju kulturnog	kultet, Beograd fakultet, Beogr kulture i celina DKS, br. 27 (200 nasleđa, u: Gla	d, 1980. ad, 1986. u 21-om veku, u 13), str. 9 – 14. spik DKS, br. 27 (: Info – urbanistički zav 2003) str. 14 – 19	od Beogr	ada, br. 20 (2007), str.	
Active training classes no.:	on priotup	eeuvunju kultumeg			2000/00121 201		Other:	
Lectures: 2	Practical o	classes:	Other teachir /	ng forms:	Studio research: /			
2 / / / Teaching methodology: Ex cathedra lecture by thematic units. Discussions and referral of students to research work related to data collection in the field, in archives, development of analysis and case studies by choice. Excursions and visits to protected sites, regular consultations regarding colloquias and exams – semester paper and oral presentation, as well as the introduction to basic and specific literature.								
Knowledge evaluation (naximun	n 100 points)		r		1		
Pre-exam requirements		points		Final exam		points	5	
Activity during lecturing		10		Written exam			40	
Practical classes				Oral exam			10	
Colloquia		40						
Seminar-s								

Study programme:	Ur	ndergraduate ac	ademic stud	ies Architectu	ıre				
Type and level of studies	: Ur	Undergraduate academic studies							
Course:	DE	DESIGN IN RURAL AREAS 1 – Housing in the countryside							
Teacher:	Pr	ofessor Ph.D. M	ilorad B. Rib	ar					
Type of course:	Fle	Elective							
FCTS	2	2							
Dreconditions:									
/									
Objectives:									
The main objective of the cours	The main objective of the course is for students to acquire theoretical and practical knowledge about planning and design of private spaces in rural								
areas. Classes are designed to i	mprove st	udents' ability in ma	stering the urb	an and architectu	ural needs of housing a	nd worki	ng facilities in rural		
environments, taking into acco	unt the spe	ecificity of different	environments a	ind spatial situat	ions. Developing resou	rcefulnes	ss of students in design		
approach in areal contexts.									
Learning outcomes:	c								
Rural territory, organization, ty	pes of sett	lements, zoning, cha	aracteristics of l	nousing with wor	rking in the rural area,	principle:	s of design of new and		
	courtyaru	s. rocus on misisting	on students to	treat the real spa		ai mouei.	s and in real situations.		
Theoretical education									
01 Introductory lecture Introd	ucing stud	ents to objectives h	rief and metho	ds of teaching in	the elective course or	inciples	and criteria for		
evaluation of their performance	e.				the elective course, pr	meipres			
02-03. Rural territories. Zones	and charad	cteristics of settleme	ents.						
04. Rural settlements. Rural co	urtyard as	the main factor of th	ne settlement. ⁻	Fradition.					
05. Rural settlements – particu	ar design t	ask from the previo	usly studied ma	iterial.					
06. Rural courtyard. Beginning	of the wor	k on a particular des	ign project. Co	ncept and design	i program.				
07. I Colloquia: prepared in sch	ooi, compi sign solutiv	eted at nome, and s	ubmitted at the	ing model accor	e next class.	Clarificat	ion and discussion of		
the seminar paper.	Sign Solutio		e concept, worr			Clarincat			
09. Spatial-functional organizat	ion Spatial	organization of the	courtyard. Hou	ising and econon	nic facilities. Consultati	ons rega	rding the paper.		
10. Spatial-functional organizat	ion. Elaboi	ration of the solution	n, materializatio	on, shaping. Subr	mission of the seminar	paper.			
11. Analysis of examples. Prese	ntation of	examples and discus	ssion of individ	ual works.					
12. Final work. Synthesis of acq	uired know	vledge, interpolatio	n of quality solu	itions from collo	quia into the final work	, correct	ions of the elements of		
the design.	n task rola	ted to individual pro	iect It is prepa	red in school co	moleted at home and s	ubmitte	d at the beginning of		
the next class.	ii lask i eia		ject. It is prepa		inpleted at nome and s	ubinitte	a at the beginning of		
14. Final work. Final consultation	ons regardi	ng the design and ag	greement abou	t the finalization	of the work.				
Literature:									
– Simonović R. Đorđe, Ribar B.	Milorad. L	Iređenje seoskih teri	itorija i naselja.	Beograd: IBI-Inž	enjering i projektovanj	e Simovia	έĐ.		
 Seoski stan. Arhitektonski fak 	ultet, Beo	grad.							
 – Simonović Đ. Sistemi seoskih 	naselja u u	užoj Srbiji. IAUS, Beo	grad						
– Kojić B. Simonović Đ. Seoska	naselja Srb	bije. IICS Beograd.							
 Kanic F. Srbija - zemlja i stano Active training classes no : 	ovnistvo. Si	rpska književna zadr	uga, Beograd				Othor		
Active training classes no	Practical	lasses.	Other teachir	og forms:	Studio research:		other.		
2	/		/	.8.1011101	/				
Teaching methodology:					•				
Combination of various teaching	g forms: le	ectures, presentation	ns, discussions,	case studies, ser	ninars, individual and p	otentiall	y group design tasks.		
Knowledge evaluation (m	naximum	100 points)							
Pre-exam requirements		points		Final exam		point	S		
Activity during lecturing		5		Written exam			55		
Practical classes				Oral exam			10		
Colloquia		10+10=	20						
Seminar-s									

Study programme:	Ui	ndergraduate ac	ademic stud	ies Architectu	ure				
Type and level of studies	5: UI	ndergraduate ac	ademic stud	ies					
Course:	DI	ESIGN OF MOBIL	E ART RESID	ENCES					
Teacher:	As	Associate Professor M.Sc. Milorad J. Mladenović							
Type of course:	El	Elective							
ECTS:	2								
Preconditions:									
/									
Obiectives:									
The objective of the course is t	to train stu	dents of architecture	e for a research	and design of m	inimal facilities of mob	ile art re	sidences which could,		
within certain fictitious circum	stances, pr	ovide residence and	work of artists	in different plac	es. In this regard, the c	ourse is	aimed to provide		
introduction to basic strategies	s of artistic	acting today, condit	ions that are ne	ecessary or possi	ble for such work, as w	ell as to	possible role of		
architects in this field of action	i. The wide	st objective of the co	ourse is the inte	egration of artist	ic and architectural act	ing throu	igh a single art project		
	cial space a	is active and recogni	zable.						
Implementation of a design pr	oiect of mo	hile art residence a	s well as a conc	entual group pro	niect within which is cru	eated as	sembly or campus of		
mobile art residences in which	is possible	stay and work of a l	arger group of	artists and archit	ects. Acquired research	hing and	practical experience in		
the implementation of this typ	e of design	tasks in architectur	e.			0 * *			
Course brief:									
Theoretical education:									
Theoretical education is condu	icted on the	e basis of previous e	xperiences and	strategical princ	iples of artistic activity	within tl	he residence and work		
of artists and architects in our	country an	d worldwide, as wel	l as on the basis	s of formal archit	ectural requirements f	or such a	a residence and work.		
Special emphasis in theoretica	l education	is on the contempo	rary possibilitie	s of artistic and	architectural acting in t	the conte	ext of this form of		
artistic and architectural treat	ment.			<i>c</i>					
Many lecturers and invited ass	ociates wil	I take participation in	n this course pe	erformance.					
Practical education:		the state of the s		Could be dealers	C		1		
Students' practical work includ	ies explora	tion of single and gro	oup possibilities	the whole group	of mobile art residence	through c of impl	the conception and		
concents that are theoretically	contemniz	ated as well as on th	e implementati	on of the most n	ninimal and functional	mohile r	esidential snace		
Literature:	concempt		emplementati			inobile i	esidential space.		
 Literature will be specified a 	ccording th	ne given design brief	out the tables	10.3 and 10.4 an	d other resources.				
Active training classes no.:	0	0 0					Other:		
Lectures:	Practical of	classes:	Other teachir	ig forms:	Studio research:				
1	1		/		/				
Teaching methodology:									
Keynote lectures which set the	e framewor	k which enables con	temporary artis	stic strategies of	artists' and architects'	residenc	e and work, as well as		
the frame of design implemen	tation of a	specific adopted con	cept. Gradually	, during the sem	ester the focus is move	ed on the	e conception and		
implementation of design. The	e course bri rivon condi	ef also defines the fi	eld area where	is possible to or	ganize residence of a g	roup and	work on a joint project		
Knowledge evaluation (r	navimum	100 points)	oup mobility.						
Dro ovam requirements	IIdAIIIIUII	noints		Final ovam		noint	c		
Activity during locturing				Writton oxom		ροπι	5		
Practical classes		10		Oral evam			50		
Colloquia		40		Orar exam					
Seminar-s		10							
		1				•			

Study programme:	U	ndergraduate ac	ademic stud	ies Architect	ure			
Type and level of studies	s: Ui	Undergraduate academic studies						
Course:	IN	INTRODUCTION TO NEW MEDIA						
Teacher:	As	Associate Professor Ph.D. Mariela M. Cvetić						
Type of course:	El	ective						
ECTS:	2	2						
Preconditions:	Preconditions:							
/								
Objectives:								
The main objective is introduc	tion with th	ne concept and idea	of new media a	s post-media or	meta-media which use	old med	ia as their basic	
Learning outcomes:								
Knoledge to understand, reco	gnize and e	valuate art works de	veloped in "nev	w medias", and s	skills in the developmer	nt of thes	e.	
Course brief:				,	•			
Theoretical education:								
Keynote theoretical study of n	ew media a	and their history follo	owed through s	elected example	25.			
Practical education:								
Practical classes and research	are intende	d for students to co	nceptualize a p	roject based on t	the idea of new media	where th	e artwork is no longer	
based on perfecting the art fo	rm, but on	dealing with context	s in which it (w	ork) appears.				
Literature:								
– Manovič, Lev, Metamediji, O	Centar za sa	vremenu umetnost	Beograd, Beogr	ad, 2001				
 Rush, Michael, New Media i 	n Art, Than	nes and Hudson, 200	13					
 – Šuvaković, Miško, Pojmovni 	k suvremen	e umjetnosti, Horet	zky, Zagreb, 200)5.				
Active training classes no.:			r		1		Other:	
Lectures:	Practical o	classes:	Other teachir	ng forms:	Studio research:			
1	1		/		/			
leaching methodology:								
Keynote ex cathedra lectures	which trans	fer to discussions, ai	nalysis and dial	ogues. Films proj	jections is also planned	, so to op	oen a debate on the	
Knowledge evaluation (mpietion, ti		ks is planneu.					
Knowledge evaluation (i	naximun			c : 1				
Pre-exam requirements		points		Final exam		point	S	
Activity during lecturing		10		Final portfolio			60	
		00		Urai exam				
Sominar s		30						
Jerriniai-2								

Study programme:	Ur	ndergraduate ac	ademic stud	ies Architectu	ure			
Type and level of studies	s: Ur	Undergraduate academic studies						
Course:	IN	TEGRATED MOD	DELING OF A	RCHITECTURA	AL STRUCTURES			
Teacher:	As	sistant Professo	r Ph.D. Mirja	ana S. Deveta	ković Radojević			
Type of course:	Ele	ective						
ECTS:	2							
Preconditions: Basic knowledge of English, as well as possession of an appropriate computer on which it is possible to install student version of the chosen software.								
Objectives: Integrated modeling is a technology where the architectural form, defined as a parametric 3D computer model, becomes the main carrier of all other information about an architectural structure, through its entire life cycle, from the concept phase, design, construction, exploitation, to demolition. Integrated modeling is a part of a broader concept known as BIM (Building Information Modeling) in which, in addition to architects, participate engineers of other professions, and 3D model of an architectural structure is the central document for communication. The objective of the course is to introduce students to the basics of this technology, and to train them for independent application of integrated modeling in the architectural design process.								
Learning outcomes: Upon completion of this course, students will know basic terminology in BIM (Building Information Modeling), and will be able to use available software for integrated modeling. One will be able to identify and analyze case studies of BIM technology application in designing architectural structures and to analyze advantages of this technology application. Students will be able to independently work on simpler integrated models of architectural structures, on independent preparation of selected parametric defined components of models, as well as to engage in the activity of design teams who work together on complex projects. He/she will have a basis for further education and specialization in the field of BIM.								
Course brief:					-			
Course brief: Theoretical education: 1. Basic concepts of integrated modeling, BIM (Building information Modeling) 2. Overview of integrated modeling software 3. Case study of the application of integrated modeling in domestic practice 5. Modeling of basic building elements 6. Modeling of building envelope 7. Families of elements – equipment and furniture 8. Control of display of integrated model 9. Materials, lighting, rendering 10 -14. Work on integrated model of selected existing architectural structure. Practical education: 1. Account activation in the virtual environment and presentation of students and teachers 2. Installation of student version of selected software for integrated modeling (Revit, Autodesk) 3. Research of examples of the application of integrated modeling in the world practice 4. Introduction to the integrated model of the Building of Technical Faculties (prepared in the academic year 2012/13) 5. Modeling of basic building elements (Autodesk BIM Curriculum, Unit 1, Lesson 1) 6. Modeling of building envelope; Curtain wall (Autodesk BIM Curriculum, Unit 1, Lesson 2-3) 7. Creating families of parametric defined elements (Autodesk BIM Curriculum, Unit 1, Lesson 6) 10. Starting integrated model (Autodesk BIM Curriculum, Unit 1, Lesson 5) 9. Materials, lighting, rendering (Autodesk BIM Curriculum, Unit 1, Lesson 6) 10. Starting integrated model 14. Visualization of selected fragments of the integrated model 15. Final presentation. Literature: – – Katz, G: AutoDesk BIM Curriculum, Complete Unit 1 - BIM Modeling Basics, Student Workbook, Autodesk, 2011, http://bimcurriculum.autodesk.com/unit/unit-1bim-modeling-basics – Revit Architecture 2011 User's Guide, Autodesk 2010, .pdf – Katz, G: MutoDesk BIM Curriculum, Complete								
 Devetaković, M. (urednik) i g based on the performances Active training classes no.: 	rupa stude in autumn a	nata: Integrisano m and spring semester	odeliranje arhit s 2012/13.)	ektonskih objeka	ata - primer zgrade Teh	ničkih fal	culteta, (in production, Other:	
Lectures:	Practical c	lasses:	Other teachir	ig forms:	Studio research:			
Teaching methodology: Combination of lectures, pract where students publish their to http://elearning.amres.ac.rs/m	ical classes asks during noodle/cou	and students' indep a semester, as well rse/view.php?id=17	iendent work. T as a final works 7.)	eaching is suppo (an example is a	/ / orted with specially pre available on	pared vir	tual environment	
Pre-evam requirements	IIaxiiIIuffi	noints		Final exam		noint	<u> </u>	
Activity during lecturing		Points		Written exam		Ponts	,	
Practical classes		60		Oral exam				
Colloquia				Final work – po	oster and portfolio		40	
Seminar-s								

Study programme:	Undergraduate ad	cademic studies Archite	cture							
Type and level of studies:	Undergraduate ad	Undergraduate academic studies								
Course:	ENGLISH FOR ARC	ENGLISH FOR ARCHITECTS 1								
Teacher:	Assistant Professo	Assistant Professor Ph.D. Gordana M. Vuković-Nikolić								
Type of course:	Elective	Elective								
ECTS:	2	2								
Preconditions:										
Objectives: By an integrated approach in the course, it is being developed a communicative competence in listening, reading, speaking and writing but the primary goal is to analytically process and rationalize various types of so-called "descriptive discourse" in the texts of architecture in English. Learning outcomes: Development of verbal skills in foreign language (English) on texts which are descriptive and thematically related to the context of architectural										
studies at the Faculty of Architect	ire.									
Course brief: <u>Theoretical education:</u> The focus is on the functional apparatus of the descriptive texts, original and created, systematically arranged to thematically and functionally make one whole. Topics are related to studies in architecture at the Faculty of Architecture. The students are being trained to analytically rationalize the organized set of descriptive text and perceive their most important grammatical and lexical features. It is expected that later they will be able to synthesize this acquired knowledge in other courses English for Architects 2 and 3. The practicum which has been innovated each year, as well as multimedia presentations and seminar papers of previous generations are the basis for the course. Literature: – Dr. Gordana Vuković-Nikolić: Engleski za arhitekte 1. praktikum. Arhitektonski fakultet. Beograd. 2012. (distributed on the first class)										
 – Gordana Vuković-Nikolić: Grama Faculty's website) 	tika engleskog jezika sa ve	zbanjima, Viša PTT škola, Bec	ograd, 1995. (online editio	n is on the teacher's page of th	ıe					
– Gordana Vuković-Nikolić: Kreati	no pisanje, Krug centar, 20	010. (available in the booksh	op)							
Active training classes no.:		-		Other:						
Lectures: Pr.	ectical classes:	Other teaching forms:	Studio research:							
2 / / / Teaching methodology: Teaching classroom and teacher's office are equipped with audio-visual technology. Classes are based on the texts that are presented in the form of multimedia presentations and seminar papers of previous generations' students. Main part of the coursework is the Practicum that each student receives at the beginning (for free). Through announced units in the Practicum, the students are encouraged to explore tgiven topic on the internet, to discuss and to write about it in class and at home so that this gradually gained knowledge can be completed by the preparation for the final exam. The complete course methodology is being performed through teacher's self-developed method (Portfolio method, described in detail in the book Creative writing. G. Vukovic -Nikolić. 2010).										
Knowledge evaluation (may	imum 100 points)									
Pre-exam requirements	points	Final exa	m	points						
Activity during lecturing	30	Written exa	ım	20						
Practical classes		Oral exam		10						
Colloquia	40									
Seminar-s										

Study programme:	Undergraduate ad	cademic stud	lies Architect	ure				
Type and level of studies:	Undergraduate a	Undergraduate academic studies						
Course:	URBAN MARKETI	NG						
Teacher:	Professor Ph D M	liodrag B Ra	lević					
Type of course:	Flective							
FCTS [.]	2							
Preconditions:								
Objectives: The objective of the course is to provide knowledge on contemporary techniques of urban marketing and to train students to use those on different problems and levels of marketing modelling of urban settlements development.								
Learning outcomes: Upon completion of the course the student is expected to: – Understand the marketing approach in space (spatial market and goods, competitiveness); – Apply the techniques of branding of settlements/ region; – Use the techniques of marketing modeling in their academic and professional performance.								
Course brief:								
Theoretical education: Thematic blocks: I. MARKETING APPROACH; II. MARKETING METHODS; III. MARKETING PROCEDURES; IV. TECHNIQUES OF 'MARKETING'; V. OPERATIONS OF ACHIEVEMENT Practical education: /								
 Literature: Miodrag Ralević and Novica Aranđelović (2001), Urbani menadžment, urbani marketing i preduzetništvo u funkciji razvoja urbanih aglomeracija, Udruženje urbanista Srbije, Beograd Ljubinko Pušić, (2002), Preduzetnici i grad, Centar za sociološka istraživanja, Novi Sad Dejvid Aker, V. Kumar, Džordž S. Dej, (2008), Marketinško istraživanje, Ekonomsli fakultet, Beograd, 2008 Saša Veljković, (2006), Marketing usluga, Ekonomsli fakultet, Beograd Branko Rakita (2005). Međunarodni marketing. Ekonomsli fakultet, Beograd 								
Active training classes no.:		Otherstein		Charles and the		Other:		
Lectures: Pra	ctical classes:	/ Uther teachin	ng torms:	/ Studio research:				
Teaching methodology: Combination of various teaching ar debates, round tables, workshops,	d working forms: ex cath and experts' guest lecture	edra lectures, in es and visit to re	iteractive teachir levant institutior	ng, group and individua	I project	s and presentations,		
Knowledge evaluation (maxi	mum 100 points)				•			
Pre-exam requirements	points		Final exam		point	S		
Activity during lecturing	30		Written exam					
Practical classes			Oral exam			40		
Colloquia Seminar-s	30							

Study programme:	U	ndergraduate ac	ademic stud	ies Architectu	ure			
Type and level of studies	s: Ui	Undergraduate academic studies						
Course:	0	OPEN URBAN SPACES						
Teacher:	As	Assistant Professor Zoran N. Đukanović						
Type of course:	El	ective						
ECTS:	2	2						
Preconditions:								
/								
Objectives:								
The course objective is to train contemporary professional co	n students, nception, te	through theoretical o establish authentic	and interactive methods and p	work, to link the principles of plan	eoretical views with pra nning and design of ope	ctical op n urban	eration, to apply areas.	
Learning outcomes:								
Understanding the elements,	structures,	manifested shapes a	nd general con	text of open urb	an spaces. Recognition	and und	erstanding of relations	
between open urban spaces a	nd spatial, i and conditi	functional, social, eco onality of modern pl	onomic, politica anning design	al, natural-enviro development ar	onmental and cultural c	ontext o	t the urban area.	
Course brief		onanty of modern pr	anning, design,	development a	id equipping of open d	ibali spa		
Theoretical education								
1. Benefits and potentials of o	pen urban :	spaces: spatial-funct	ional: social: he	alth: environme	ntal: economic. 2. Cate	gories of	open urban spaces:	
types, elements, structure and	network;	private and common	open urban sp	aces; open urbai	n spaces – neighborhoo	od level;	open urban spaces –	
city level – public infrastructur	e. 4. Conte	mporary approaches	s to planning, d	esign, developm	ent and equipping of o	pen urba	n spaces: the quality of	
life, sustainability, cultural ide	ntity, desig	n for all, participatio	n. 5. Case studi	es.				
<u>Practical education:</u> /								
/ Literature:								
– Woolley, H.: Urban Open Sp	aces.First n	ublished 2003 by Sp	on Press I OW	Tavlor & Francis	e-Library, 2005			
– Francis, M.; Urban Open Spa	ace: Design	ing For User Needs; \	Washington [et	c.] : Island Press	: Landscape Architectu	re Found	lation, 2003;	
– Đukanović, Z. Živković J.; Jav	na umetno	ost i kreiranje mesta -	- studija slučaja	– Beograd, Grad	dska opština Stari grad;	Arhitekt	onski fakulet	
Univerziteta u Beogradu; Be	ograd; 200	8.						
Active training classes no.:							Other:	
Lectures: 1	Practical o	classes:	Other teachir /	ig forms:	Studio research: /			
Teaching methodology:								
Interactive teaching.								
Knowledge evaluation (r	naximun	n 100 points)						
Pre-exam requirements		points		Final exam		point	S	
Activity during lecturing		20		Written exam				
Practical classes				Oral exam			50	
Colloquia		30						
Seminar-s								

Study programme:	Undergraduate ad	ademic stud	lies Architect	ure				
Type and level of studies:	Undergraduate ad	Undergraduate academic studies						
Courses			1105					
Course.			<u> </u>	• /				
Teacher:	Assistant Professo	or M.Sc. Uros	s B. Radosavij	evic				
Type of course:	Elective							
ECTS:	CTS: 2							
Preconditions:								
/								
Objectives:								
The main objective of the course i	s to introduce students wit	h the aspects o	f design and plar	ning of development o	f the urb	an structure and to		
achieve higher levels of quality of	life in urban areas, in accor	dance with the	principles of sus	tainable urban transpo	rt system	IS.		
Learning outcomes:								
Students will acquire the following	in this course: :					the state of the s		
 Understanding of key contemport an overview of basis tenets from 	rary disciplinary issues rela	ited to provision	n of multimodal	transport and mobility	of people	e in urban areas through		
sustainability of transport safet	v and environmental prote	ction	fit management	, parking management,	lanu-use	planning to ensure		
 Knowledge of basic methods of 	mobility management, par	king manageme	ent and land-use	planning to ensure sus	tainability	y of transport.		
 Practical knowledge of the princ 	iples of urban design in acc	cordance with t	he requirements	of high mobility and su	ustainable	e transport in the city.		
This knowledge should increase th	e competences of students	s in solving prob	plems of urban d	esign and planning in a	ccordanc	e with the principles of		
sustainable transport systems in t	ne urban area and the skill	to competently	collaborate with	n experts in the field of	transport	t in integral solving of		
urban problems.								
Course brief:								
Theoretical education:								
Key thematic areas of architecture	and urban planning includ	led in this cours	se are:	1.11.				
 Aspects of urban design in according to the second s	dance with the principles of t	of reaching high	quality of urban	i mobility,				
The structure of thematic units the	at will be studied within the	s of sustaillable	urban transport					
 Principles of land-use planning t 	o ensure sustainability of t	ransport – stud	ents will deal wit	th the requirements set	by the si	ustainable transport		
systems in planning the use and	purpose of the land							
 Mobility management – student 	s will deal with the require	ments that high	n quality of urbai	n mobility sets to archit	ects duri	ng urban planning and		
design.								
 Parking management – students 	will deal with the requirer	ments that effic	iently parking m	anagement sets to arch	itects du	ring urban design and		
planning of parking space in the	city							
Safety and environmental protect	on – students will deal wit	h the instrumer	nts for ensuring e	environmental protection	on using a	alternative fuels and		
Practical advection	nanning.							
/								
Weelley, H.: Urban Open Space	Eirst published 2002 by Sr	on Brock LOW	Taylor & Francis	a Library 200E				
- Woolley, H.; Orban Open Space:	Designing For User Needs:	Washington [et	taylor & Francis	e-Lividiy, 2005	Foundat	tion 2003:		
– Đukanović, 7. Živković I.: Javna i	imetnost i kreiranie mesta	– studija slučaja	a – Beograd, Gra	dska opština Stari grad:	Arhitekt	onski fakulet		
Univerziteta u Beogradu; Beogra	id; 2008.	occanja oracaje						
Active training classes no.:						Other:		
Lectures: Pr	actical classes:	Other teachi	ng forms:	Studio research:				
1 1		/		/				
Teaching methodology:								
Interactive teaching.								
Knowledge evaluation (max	imum 100 points)							
Pre-exam requirements	points		Final exam		points	5		
Activity during lecturing	20		Written exam					
Practical classes			Oral exam			50		
Colloquia	30							
Seminar-s								

Study programme:	Undergraduate ad	cademic stud	lies Architect	ure				
Type and level of studies:	Undergraduate ad	cademic stud	lies					
Course:	ARCHITECTURAL	DETAIL						
Teacher:	Assistant Professo	or Ph.D. Jasn	a Li. Čikić Tov	arović (course lead	ler).			
	Associate Profess	or Ph.D. Jele	na A. Ivanovi	ć Šekularac	,			
Type of course:	Flective							
FCTS:	2	2						
Enrolled in the 5 th semester of study	programme							
Objectives:	programme							
The course objective is to introduce	students to basic princip	les of designing	the architectura	l detail, taking into acc	ount: fun	ctional, shape-related		
and aesthetic aspect, as well as the	logic of constructing links	s, the specificity	of materializatio	on, and special features	related t	o construction		
technology and realization of the bu	ilding, exploitation and n	naintenance. Ne	ew trends in arch	nitecture and emergence	e of new	materials bring new		
architectural solutions and different	approaches to solving de	etails.						
Learning outcomes:			<i>.</i>					
In this course, students will acquire	new knowledge, focusing	g on the importa	ance of well-desi	gned architectural deta	iil, taking	into account that a		
Course brief:		significantiy inin		ecture and perception of		iuilig as a whole.		
Teaching in this course relies on the	knowledge gained in the	ourse Archite	ctural structures	1-4 and is expanded w	ith new s	necific knowledge		
Different approaches to the design	of architectural details th	rough analyzing	a significant nu	mber of examples and l	basic prin	ciples for solving are a		
basis of theoretical education in this	course. The main theme	es that will be de	ealt with in this c	ourse are: the attitude	of the ar	chitect/designer		
towards architectural detail, a detai	l as a part of the architec	tural concept; tl	he importance o	f the detail for the perc	eption of	f the building as a		
whole; the connection of the building	ng with the terrain at the	level of detail;	pecific façade d	etails; details of entran	ce, canop	y; fences; shades;		
cornices; specific interior details; th	e combination of materia	ll-texture, color,	compatibility, s	implicity-complexity in	solving d	etails etc.		
Literature:								
 Thomas Herzog, Roland Krippner, 	Werner Lang, Facade Co	nstruction Man	ual, Detail, ISBN	3-7643-7109-9				
 Klaus Sedlbauer, Eberhard Schung 	k, Rainer Barthel, Hartwi	g Künzel, Flat Ro	oof Construction	Manual, Detail, ISBN 9	78-3-034	6-0658-5		
 Christian Schittich, Gerald Staib, E 	Pieter Balkow, Matthias S	chuler, Werner	Sobek, Glass Cor	nstruction Manual 2nd	Ed, Deta	il, ISBN 978-3-7643-		
8122-6	Themes Heres Delevel	C ala		anh an Canadau atian Ma				
- Julius Natterer, wolfgang winter,	Thomas Herzog, Roland	Schweitzer and	wichael voiz, II	mper construction wa	nual, Det	all, ISBN 978-3-7643-		
– Detail Magazine								
Active training classes no.:						Other:		
Lectures: Prac	tical classes:	Other teachir	ng forms:	Studio research:				
2 /		/		1				
Teaching methodology:								
Ex cathedra lectures, case studies, in	nteractive teaching, activ	e participation i	n discussions, w	ork on preparing paper	s and dra	wings.		
Knowledge evaluation (maxi	mum 100 points)							
Pre-exam requirements	points		Final exam		points	S		
Activity during lecturing	30		Written exam			50		
Practical classes			Oral exam			20		
Colloquia								
Seminar-s								

Study programme:	Ur	ndergraduate ac	ademic stud	ies Architectu	ure				
Type and level of studies	: Ur	Undergraduate academic studies							
Course:	EN	ENVIRONMENTAL ASPECTS OF DESIGN AND CONSTRUCTION							
Teacher:	As	Assistant Professor M.Sc. Nataša D. Ćuković Ignjatović							
Type of course:	Ele	Elective							
ECTS:	2	2							
Preconditions:									
/									
Objectives:									
The course objective is to intro	duce stude	ents to environment	al aspects of co	ntemporary arch	nitectural theory and pr	ractice.			
Learning outcomes:									
Training students to perceive, t	hrough an	integrative approac	h to architectu	ral design, a broa	ader context and enviro	onmental	implications of		
decisions in all design phases –	from conc	ept design to constr	uction.						
Course brief:									
Theoretical education:									
Environmental issues in the cor	itext of coi	ntemporary archited	ctural theory an	d practice. Basic	theoretical models; Cr	adle to C	radle (C2C), lifecycle		
assessment (LCA), certification	systems et	c. Understanding th	e development	and manifestati	ion of theoretical postu	lates thr	ough developed (built)		
structures of contemporary architecture.									
Literature:									
 Textbook (distributed during 	the semes	ter)							
 Collection of texts and extrac 	ts from the	e relevant regulatior	ns (distributed o	during the seme	ster)				
– A Green Vitruvius, V. Brophy	and J.O. Le	ewis, Earthscan 2011	1.						
 Cradle to Cradle. Remaking the 	ne Way We	e Make Things, M. B	raungart, W. M	cDonough, Nort	h Point Press 2002.				
 A Life Cycle Approach to Build 	dings, H. K	oning et al., Detail G	ireen Books, 20	10.					
Active training classes no.:							Other:		
Lectures:	Practical c	lasses:	Other teachir	ng forms:	Studio research:				
2	/		/		/				
Teaching methodology:									
Combination of various teachin	g forms, sı	uch as ex cathedra le	ectures, interac	tive teaching, ca	se studies, small resear	ch proje	cts, presentations,		
seminars.									
Knowledge evaluation (m	naximum	100 points)				1			
Pre-exam requirements		points		Final exam		point	S		
Activity during lecturing		10		Written exam			40		
Practical classes		25		Oral exam					
Colloquia	oquia 25								
Seminar-s									
Study programme:	Uı	Undergraduate academic studies Architecture							
--	-------------------------------	--	--------------------	---------------------------------	--------------------------	-------------	------------------------		
Type and level of studies	s: Ui	Undergraduate academic studies							
Course:	EL	ELEMENTS OF REINFORCED CONCRETE STRUCTURES							
Teacher:	As	Assistant Professor Ph.D. Ruža D. Okrajnov-Bajić							
Type of course:	El	ective							
ECTS:	2								
Preconditions:									
Mechanics and strength of ma	iterials, Stru	ctural principless of	architectural b	uildings, Design a	and calculation of arch	itectural	structures 1		
Objectives:									
The objective of this course is through learning the rules of c	to thorougl lesign and o	hly introduce studen calculation of reinfor	ts to applicatio	n of reinforced co ructures.	oncrete in contempora	ry archit	ectural structures,		
Learning outcomes:									
Through a series of lectures, s	tudents are	introduced with stru	uctural elemen	ts that are usuall	y performed in reinfor	ced conci	rete. Design and		
structuring, calculation and di	mensioning	, and finally details o	of reinforcemer	it and performan	ce of particular reinfor	ced conc	rete structural		
elements will be studied in mo	ore details.								
Theoretical education:									
Hangers frame girders trusse	c combino	d linear systems rec	tangular clahe l	oodod in ono dir	action crosswise rainfe	arcod cla	hs slahs supported on		
columns, r.c.walls, r.c. staircas	es, ribbed a	and pot floors, easy p	precast ceiling,	hangers loaded v	with torsion	Ji ceu siai	os, siabs supported on		
Practical education:	,	. , ,	0,	0					
Calculation and sizing of contin	nuous cross	wise reinforced floo	or (slabs and gire	ders). Sizing of rit	bed or pot structure,	sizing of	r.c. frame		
Literature:									
 – Ž.Radosavljević, D. Bajić: AR 	MIRANI BE	TON 3, Građevinska	knjiga, Beograd	, 1996.					
 Textbook of practical tasks i 	n Concrete	structures at the Fac	culty of Archite	cture, group of a	uthors				
 Textbook of practical tasks i 	n Elements	of concrete structur	res						
Active training classes no.:			1				Other:		
Lectures:	Practical o	cal classes: Other teaching forms:		ig forms:	Studio research:				
Zeaching methodology:	1		/		1				
Teaching includes as cathodra lectures and practical classes presenting numerous examples. During semester there are two collectures with the									
nearing includes excarted a rectares and practical classes presenting numerous examples. During semester there are two colloquids with the purpose to check students' level of knowledge adoption. Each colloquium is composed out of 10 questions									
Students work on their assignments at home, and submit them on classes. At the end of the course, students should have a study of four accepted									
assignements.									
Knowledge evaluation (maximum 100 points)									
Pre-exam requirements	ents points Final exam points				5				
Activity during lecturing	Activity during lecturing 10			Written exam			70		
Practical classes				Oral exam					
Colloquia	20		Seminar-s						

<u> </u>		1 1 1					
Study programme:	U	Undergraduate academic studies Architecture					
Type and level of studies	: U	Undergraduate academic studies					
Course:	ST	STRUCTURAL EXPERIMENTS					
Teacher:	Pr	Professor Ph.D. Milan T. Glišić					
Type of course:	El	ective					
ECTS:	2						
Preconditions:							
/							
Objectives:							
The main objective of the cour	se is for stu	udents to learn the s	tructural and ca	alculation princip	oles of large-span roof s	structure	s of sport, exhibitions
and other public facilities. In th	e process	of teaching the stude	ents will learn t	he logic basics of	f forming of structural of	concept a	and forces transferring
in large-span structures.							
Learning outcomes:							
Knowledge to understand the	ogic of for	ming the structural o	concept and for	ces transferring	in large-span structure	s.	
Course brief:							
<u>Theoretical education:</u>							
Basic concepts and principles of	f designing	g long-span roofs.					
Analysis of flows of forces in sp	ecific stru	ctural solutions.			Concerned and the section of the		hand a
The principles of calculation using finite element method. Introducing to computer programs for analysis using finite element method. Π							
contour				ire with the basis	5 01 2500 sq.111. with su		ily along the basis
Literature:							
LIICI alui C. Slobodan Romić Armirana batanska konstrukcija. Građavinska knjiga. Roggrad, 1005							
– Sobodan Konne, Anni and Belonske Konstrukcije, Gradevinska Knjiga, Belgrad, 1965. – Vojislav Kujundžić, Žikica Tekić, Saša Đorđević, Savremeni sistemi drvenih konstrukcija. Orion art. Beograd, 2004							
 Vojislav Kujundžić, Dragoslav 	Tošić, Me	talne i drvene konstr	ukcije, Građevi	inska knjiga, Beo	grad 1991.		
Active training classes no.: Other:							Other:
Lectures:	Practical of	classes:	Other teachir	ng forms:	Studio research:		
2	2 / /						
Teaching methodology:							
Ex cathedra lectures.							
Knowledge evaluation (maximum 100 points)							
Pre-exam requirements	-exam requirements points			Final exam		points	
Activity during lecturing		10	Written exa		m		60
Practical classes				Oral exam			
Colloquia	Colloquia			Seminar-s			

Study programme:	Uı	Undergraduate academic studies Architecture					
Type and level of studies	s: Ui	Undergraduate academic studies					
Course:	ST	STRUCTURAL FORMS					
Teacher:	As	Assistant Professor Ph.D. Žikica M. Tekić					
Type of course:	FI	Flortivo					
FCTS.	2						
Dracanditional	2						
Preconditions:							
/ Objectives:							
Introducing students to conce	nts and fun	damental principles	underlying the	structural design	. The course objective	is to hold	students to
understand some of geometric	c structural	relations that can be	e used in design	ning architectura	I structures. Also, the o	course air	ns to show students
that the structure is an integra	ited part of	architecture and its	understanding	is a basis for uno	derstanding both mech	anical an	d conceptual aspects
inherent in the art of building.	Although t	he structural form is	conditioned by	y structural dema	ands, the course affirm	s the app	roach, in which the
structure should not be constr	ued as a lin	niting aspect, in which	ch systems of e	lements integrat	e with patterns, propo	rtions, sc	ale, which are
connected with essential aspe	cts of archi	tectural design: form	hal and spatial o	composition and	coordination. The stru	ctural for	m is an architectural
allow formal research simulat	ion exact of	communication of id	encally acceptar	n presentation	and production of stru	a by mou ctural for	ei testing which will
Learning outcomes:				n, presentation			
Students are expected to deve	lon a new :	area of competency	in terms of met	hodology of des	ign of structures, acqu	ire knowl	edge about geometric
and structural principles that a	are basis of	architectural shapin	g: train to creat	tively approach t	o problems, and propo	se forms	of buildings and other
structures. Students acquire th	ne following	general and course	-specific skills:	trained for pro	per perception of elem	ents forn	ning architectural
space; trained to understand p	procedures	and reconcile diverg	ent factors in c	reating the struc	tures that meet aesthe	etic and te	echnical requirements;
ability to generate structures I	oy applying	adequate computer	programs; lear	n to solve concre	ete problems using scie	entific me	thods and procedures
and integrate acquired knowle	edge from o	lifferent fields in ord	er to apply the	m in the context	of architectural profes	sion.	
Course brief:							
Theoretical education:							
Mapping and transformation.	Theory of g	roups. Symmetry. G	roup symmetry	in the plane. Sy	mmetry in mineralogy,	crystallo	graphy, morphology of
plants and animals, the notion	of automo	rphism groups, rota	tions, reflectior	is, translations. N	Modular coordination,	spaces ar	d forms. Proportion.
l'essellations.							
Practical education:	alia						
Work on Individual or group ta	ISKS						
			indua luniina Da	a area of 1000			
- Đ. ZIOKOVIC. KOURDINIRANI S	abroco R E	ortunato P. P. Ludu	inska knjiga, Be		OF FORM Actor and L	Januard C	raduate School of
Design 2009	ыозе, в. г	ortunato, K. K. Luuw	ng, A. Schnicker	. THE FUNCTION	I OF FORIVI. Actal allu r	iai vai u G	
– H. Pottman, A. Asperl, M. Hofer, A. Kilian, ARCHITECTURAL GEOMETRY, Reptly Institute Press, 2007							
– AD Vol 79 No 6. PATTERNS OF ARCHITECTURE. Guest-Edited by M. Garcia. Londom: Wiley-Academy. Nov./Dec. 2009.							
– F. D. K. Ching, B. S. Onouye, D. Zuberbuhler. BUILDING STRUCTURES: PATTERNS, SYSTEMS AND DESIGN. Wiley, 2009.							
Active training classes no.: Other:							
Lectures:	Practical of	tical classes: Other teaching forms: Studio research:					
2	2 // //						
Teaching methodology:							
Ex cathedra lectures and consultations related to the preparation of individual or group tasks. It includes active participation of students in teaching.							
Knowledge evaluation (maximum 100 points)							
Pre-exam requirements		points		Final exam		points	
Activity during lecturing		20		Written exam			50
Practical classes		Oral exam					
Colloquia		30		Seminar-s			
						1	

Study programme:	U	Undergraduate academic studies Architecture					
Type and level of studies	5: UI	Undergraduate academic studies					
Course:	GI	REEN ARCHITECT	TURE				
Teacher:	As	sistant Professo	or Dušan M.	lgnjatović			
Type of course:	El	ective					
ECTS:	2						
Preconditions:							
1							
Objectives:							
The main objective of the cour	se is introd	luction to the conce	pt of "green arc	chitecture" as a t	theoretical and designing	ng-techn	ological approach in the
architectural design.							
Learning outcomes:					delte attende for a bitter at		
Development of a critical view	on the rela	ation of architecture	, energy, techn	ology and mater	rialization of architectur	ral struct	ures.
Course prier:							
Ineoretical education:							
Concept of a green building (n	Concept of a green building (historical and contemporary tendencies). Analisys and impacts of environment. Principles, technological solutions,						
literature:							
– Bioklimatsko planiranie i pro	– Bioklimatsko planiranje i projektovanje - urbanistički parametri. M. Jovanović popović i dr						
– Bioklimatska arhitektura, M	Pucar, IAU	IS 2006.	,				
– Green Architecture, J. Wines, Taschen 2000							
- Solar Energy in Architecture and Urban Planning, T. Herzog (ed.), Prestel 1996.							
 Solar architecture: Strategies, Visions, Concepts, C. Shittich (ed.), Birkhauser 2003. 							1
Active training classes no.: Other:							Other:
2	Practical C	Ical classes: Other teachi		studio research:			
Zeaching methodology:							
Combination of various working forms, such as: ex cathedra lectures, analysis of examples, researching projects, students' presentations.							
Knowledge evaluation (maximum 100 points)							
Pre-exam requirements		points Final exam points				S	
Activity during lecturing		20		Written exam		50	
Practical classes				Oral exam			
Colloquia		30 Seminar-s					

Study programme:	Undergraduate academic stud	lies Architecture						
Type and level of studies:								
Course:	STUDIO 04 – SVNTHESIS – 01-17							
Teachar:	Professor Branislav R Mitrović: Profes	ssor Ph.D. Milorad R. Rihar, Professor M	lihailo B. Timotiiević: Professor					
	Miodrag M. Mirković; Professor Zoran M. Lazović; Associate Professor Ph.D. Ružica Dj. Božović Stameno Associate Professor Ph.D. Dragana M. Vasiljević Tomić; Associate Professor Vladimir M. Lojanica; Assoc Professor Dejan R. Miljković; Associate Professor M.Sc. Milan M. Vujović; Associate Professor Borislav /							
	Petrović; Professor Ph.D. Eva J. Vaništ Professor M.Sc. Uroš B. Radosavljević	a Lazarević; Associate Professor Ph.D. A ; Associate Professor Ph.D. Jelena A. Iva	leksandra B. Stupar; Assistant nović Šekularac; Assistant					
	Professor Ph.D. Jasna Lj. Čikić Tovarov	vić, Assistant Professor Dragan N. Marče	etić; Assistant Professor Ph.D.					
Type of course:								
For the for course.								
Preconditions:	14							
/								
Objectives:								
The main objective of the course is the architecture, urbanism and architectur cultural, educational and service feature architecture feature.	e introduction to methodological princ ral technologies in designing complex a res in a given location, in the built env	iples of linking acquired knowledge and architectural-urban units, with integrate ironment, from a concept, through the	skills in the field of arts, design, ed residential, commercial, elaboration of design, to the					
Students, through gaining experience in solving practical tasks during the de logical structural systems that are adju	n the application of theoretical knowl sign process, learn methods and techr isted to the built-up surrounding.	edge of elements of architecture, urban iques of connecting architectural eleme	ism and architectural structures ents in complex functional and					
Learning outcomes: The outcome of all activities in this co	urse aims at developing architectural-u	ırban design. Thematic framework in re	lation to the problematic					
structure defines the expected results	of the design: : alls in urban, architectural design proc	ess and engineering and practicing Aco	ujiring the knowledge and skills					
in identifying and overcoming basic pr	oblematic aspects of design of more co	omplex urban-architectural units in the	real environment.					
Understanding specific real urban and	architectural phenomena and their tra	ansformation in a given context. Master	ing the methods and techniques					
of urban and architectural design, the	application of mastered methodology	of design process to the level of concept operating creatively new ideas and form	otual architectural and structural					
knowledge in practice. Capacity for ev	aluating ideas of proposals and forms.	Ability to recognize and appropriately u	use architectural theories					
(primarily in the field of urban design)	concepts, paradigms and principles. L	Inderstanding the relationship betweer	buildings and their					
environment, as well as the need for connecting structures and space between them to human needs and scale.								
Course brief:	Course brief:							
<u>Ineoretical education:</u>	Lectures on design related topics							
Practical education:	riectures on design related topics.							
Students work in the studio to develo	conceptual designs of higher level of	program and spatial complexity, with the	ne application of all acquired					
knowledge from the previous studies.	In typological terms, designs are based	d on previously completed theoretical c	ourses of Department of					
Architecture. In terms of programming	g, designs are defined as complex, with	a combination of two or more basic ty	pologies. Designs are developed					
In the spatial urban context and may a with testing the possibilities for impro	e spatially defined as smaller urban ce vement and enrichment of existing fea	enters or as multifunctional units with matures (contextual). The focus of this co	urse is to design typologies of					
multi-functional housing with support	ng multipurpose, educational, cultura	l, business, sports, commercial and serv	ice functions. Architectural-					
urban unity on a given location in the	ouilt environment is a field for improvi	ng all previously acquired knowledge fr	om the studies.					
Literature:								
– Frempton, K. (2004). Moderna arhitektura: Kritička istorija. Beograd: Orion Art.								
– Gidion, S. (2002). Prostor, vreme i arnitektura. Beograd: Gradevinska knjiga. – Koolbaas R. Mau R. (1998). S.M.I.XI. New York: The Monacelli Press								
– Zumthor, P. (1999). Thinking Architecture. Basel: Birkhäuser-Publishers for Architecture.								
- Tschumi, B. & Cheng, I. (2003). The State of Architecture at the Beginning of the 21st Century. New York: The Monacelli Press.								
Active training classes no.:	Cher:							
	tical classes: Other teaching forms: Studio research: /							
Teaching methodology:								
Teaching includes various forms – ex cathedra lectures, interactive teaching, case studies, individual and group projects, research, presentation,								
essays, seminars, etc.								
Knowledge evaluation (maxim	um 100 points)	Final aven	a cinta					
Activity during locturing	nts points Final exam		points					
Practical classes	Oral exam		10					
Colloquia	15+15=30	Design project	50					
Seminar-s								