

MASTER ACADEMIC STUDIES

Study program: ARCHITECTURE AND URBANISM

[Почетак](#)

Architecture and urbanism			
Subject: An Introduction to theory and aesthetics of architecture on ecological ground			
Vasilski S. Dragana			
Compulsory subject			
4 ECTS			
Requirements/conditions: none			
Course objective: Educating the next generation of architects who will be able to meet the challenges of an (aesthetically, functional and design) society that is ecologically based and orientated.			
Outcome of the course: Students' ability to conceptualize and create new, environmentally based forms of built living space.			
Course content: Introduction to the basic principles of an eco-cultural model. Juxtaposition of architecture and ecology. Possible influences on the eco-cultural model: aesthetics of simplicity, imagination and imagination, expressive properties of form. Space as a Framework for Architecture: Genius Loci, Technology and Materials - Realization of Idea and Form, Natural Light. The relation of man to the overall ecological environment - the arch language as a means of communication, the spatial experience of architecture - the phenomenology of perception, the relation between nature and project (case study). Aesthetization of form in the context of eco-architecture. Consideration of the relationship between theory and practice as well as between the desirable (utopian) and the real (case study). Literature review.			
Literature 1. Rudolf Arhajn: Dynamics of Architectural Form, University of the Arts in Belgrade, 1990. 2. Vladimir Milenković: Architectural Form and Multi Function, Andrejevic Foundation, Belgrade, 2004. 3. Dragana Vasilski, Svetlana Stevovic: Eco-architecture in the context of globalization and sustainable development, International Scientific Conference "Globalization and the Environment", Belgrade, Ecologica, No.55. god. XVI, 2009. YU ISSN 0354 - 3285, p. 500. www.ecologica.org.rs 4. Vasilski D. 2010: On light in the architecture of minimalism - Architecture without light is not architecture (Alberto Kampo Baesa), Architecture and Urbanism, No. 28/2010, p. 1-20. ISSN 0354-6055 COBISS.SR-ID 8014860 6. Vasilski, D. 2010: Simplicity in architecture - from the idea in modern architecture to the gurus of minimalism today, Construction, no. 1-2, pp.29-40. ISSN 0350-5421, UDC 624 + 71 + 72 (05)			
Active teaching hours:	Theoretical lectures: 45	Practicce: 15	
Teaching methods: Seminar and interactive form of teaching: learning through student discussions directed and supplemented by the teacher, and through individual and group exercises			
Knowledge scoring system (max.100 points)			
Pre-exam	points	Final work	points
Attendance (lectures)	5	Seminary paper	30
Attendance (exercises)	5	Oral examination	20
Mid-term exam	2x20	preconditions	
Graphic exercises study			

Почетак

Architecture and urbanism			
Subject: Methodology in Architecture and Urban Planning			
Vasilski S.Dragana			
Compulsory subject			
4 ECTS			
Requirements/conditions: none			
Objective of the course Introducing students to the basic characteristics of the field of study and to the general principles and methodological apparatus.			
Outcome of the course Getting to know the basic elements. Adoption of basic concepts in the field of methodology. Understanding basic analytical criteria.			
Contents of the course Theoretical teaching Introduction to methodology. The process of creativity: a philosophical approach, historical and anthropological determinants. Program elements - project assignment. Architectural and urban planning as a process. Spatial-program structure of architectural and urban design. Task analysis. Concepts - Solutions. Project definition and development. Dispositions and incentives in architectural and urban design. Form analysis and development: theme, motive and context. Form study: reading, layering. Creative processes - imagination, imagination. Qualitative project evaluation - parameters and criteria. Literature review.			
Literature: 1.Zevi, Bruno: <i>How to look at Architecture, Architecture as Space</i> , Da Capo Press, NY, 1993. 2. Petrovic, Ivan: <i>Methodology of Architectural Design</i> , Faculty of Architecture Belgrade, 1977. 3.Jenks, Charles: <i>Modern Movements in Architecture</i> , Gradjevinska knjiga, Belgrade, 1990 4.Jones, John Chris: <i>Design Methods</i> , John Wiley & Sons, Ltd, London, 1992.			
Active teaching hours	Theoretical lectures: 30	Practical lectures : 30	
Teaching methods Lectures. Consultations. Discussions. Student presentations. Individual work according to individual project tasks.			
Knowledge scoring system (max.100 points)			
Pre-exam	Points	Final work	Points
Activity during lectures	10		
Graphic study	20		
Seminary paper	30		
Mid-terms		Written exam	40

Architecture and urbanism		
Subject: Revitalization of architectural objects		
Vujicic N.Lejla		
Compulsory subject		
4 ECTS		
Requirements/conditions: no		
Objective of the course Acquiring specific knowledge in the field of theoretical principles of revitalization of architectural objects, analysis and evaluation of potential for revitalization, technical methods applied in the process of revitalization, strategies for managing revitalization from the point of view of cultural, social, economic, tourist and other needs.		
Outcome of the course Training for research and practical methods of work in the field of revitalization and making adequate decisions in the work on revitalization of architectural objects.		
Contents of the course Theoretical teaching Theoretical principles of revitalization of architectural objects, social and economic needs of revitalization, causes of damage to cultural monuments and overall architectural heritage and consequences, methodology of revitalization of objects, evaluation of the potential of arch. object for revitalization, strategy of revitalization of existing building stock, analysis of space-organizational and technological possibilities of change of purpose and increase of spatial comfort, technical methods of building rehabilitation for the purpose of revitalization, improvement of energy performance of buildings in order to form energy-efficient and efficient buildings - improvement of thermal comfort, natural ventilation and lighting, indicators and checking of energy savings and gains, changes in the design characteristics of buildings - style context and allowed transformations, improving routing systems, modern methods and materials for the rehabilitation and reconstruction of architectural heritage, revitalization in the context of sustainable development. The collaboration of existing and new architectural and urban creativity. Practical teaching Exercises, consultations.		
Literature 1. Vucenovic, S. Architectural and Urban Conservation, Belgrade, 2003 2. Latham, D.: Creative Re-use of the Building: Principles and Practice, Donhead 2000, 256P 3. Bloszies, C.: Old Buildings New Design. Architectural Transformation, Princeton, Princeton Architectural Press, 2013, 144p 4. Kurtovic Folic, N. Construction History 2, Faculty of Technical Sciences, Novi Sad, script 5. Pickles, D.Cattini, C. Energy Efficiency and Historic Buildings: Energy Performance Certificates, Historic England, 2015		
Active teaching	Theoretical lectures : 45	Practical lectures
Teaching methods Lectures. Consultations. Oral exam. Dissertation-essay is eliminatory. The exam grade is formed based on the success of the dissertation-essay and the oral part of the exam.		
Knowledge scoring system (max. 100 points)		
Pre-exam	points	Final work
Activity during lectures	5	Written exam
Practical lectures	5	Oral exam
Mid-terms	2×30	
thesis		

Architecture and urbanism			
Subject: Theory of Urbanism			
Bogdanovic S.Ruzica			
Compulsory subject			
5 ECTS			
Requirement: none			
Objective of the course Introduction to the basic questions of the role, scope and domain of the theory of urbanism. Introduction to the elements of urban theory of urban space creation modes. Introduction to the general principles and methods of urban theory.			
Outcome of the course Ability to reason logically about the content and goals of urbanism theory. Ability to realize practical skills in urban theory. Ability to realize key skills in urbanism theory.			
Contents of the course Theoretical teaching The concept and definition of urbanism. The role of theory in urbanism. Model overview. Progressive pre-urbanism. Cultura pre-urbanism. Pre-urbanism without a model. Progressive model. Cultural and naturalistic urbanism. Technotopy and anthropopolis. City philosophy. City Sociology. Lefebvre's thought of the city. Postmodern urbanism. The revival of romanticism. The theory of urban design on the European continent. Urban design theory - the Anglo-American axis. Postmodern reflex. Themes of Postmodern Urbanism. Reshaping the city and culture. Practical teaching Research, analysis and presentation of anthology texts and current urban topics.			
Literature 1. Francoise Shoe, Urbanism of Utopia and Reality, Gradjevinska knjiga, Belgrade 1978. 2. Nan Elin, Postmodern Urbanism, Orion-art, Belgrade, 2004. or Ellin, Nan: Integral Urbanism (Routledge, 2006) 3. Anri Lefevr, Urban Revolution, Nolit, Belgrade, 1974. 4. Sreten Vujovic, Lefevr's Thoughts on the City, Faculty of Architecture, University of Belgrade, Postgraduate Studies, Materials Volume 35. 5. Miomir Jovanovic, "Urban Concepts for Urban Development", Journal of Industry (str.37-71), iss. 3/2004, Bgd. 6. Rob Krir, Urban Space (pp. 50-70), Building Book, Belgrade, 1999. 7. Kevin Lynch, The Picture of a Town, Gradjevinska knjiga, Belgrade, 1974. 8. Le Corbizie, The Way of Thinking About Urbanism, Gradjevinska knjiga, Belgrade, 1974.			
Active teaching	Theoretical lectures	Practical lectures: 45	
Teaching methods Lectures. Consultations. Discussions. Student presentations. Individual work according to individual project tasks.			
Knowledge scoring system (max.100 points)			
Pre-exam	Points	Final work	Points
Activity during lectures	10		
presentations	20		
Seminary paper	30		
Mid-term exams		Written exam	40

Architecture and Urbanism			
Subject: Urban development			
Bogdanovic S.Ruzica			
Elective subject			
5 ECTS			
Requirement: none			
Objective of the course			
Familiarity with the development of the city through civilizations and cultures from prehistory to postmodernism. Familiarity with the historical, natural, social and cultural conditions that have caused the development of the city through civilizations and cultures. Getting to know the materials and techniques of construction, settlement development, historical, medieval, renaissance, baroque and modern cities.			
Outcome of the course			
Ability to reason logically about the content and goals of city development. Ability to realize practical skills regarding understanding of city development. Ability to realize key skills in the field of city development.			
Contents of the course			
Theoretical teaching			
The old world. Construction and urban planning before Greece. Prehistory. Egypt. Courtyard - Mesopotamia. Hittites and their construction. Aegean Enlightenment. Construction and Urban Acquisition of the Phoenicians. Urbanism of Palestine - Judea. Persia and its construction. Construction and urban heritage of Helada and Hellenism. Etruscans and Construction. Roman Construction and Urbanism. Construction and Urbanism of New Rome (Constantinople). Cities of Western and Central Europe.			
Cities from the collapse of feudalism to the emergence of capitalism in Western Europe.			
Renaissance in Italy. Italy before the seventeenth century (Baroque). France XV – XVIII c.			
Austria and Germany in the XVIII and XIX centuries.			
Construction of Russia XV – XVIII c. and in the XIX century.			
Cities of North America XVIII-XIX c.			
Urban planning in Europe, America and Russia XIX - XX c.			
History of urbanism in Serbia XVIII-XIX c.			
The emergence and development of postmodern urbanism of the XX and XXI centuries.			
Literature			
1. Bruno Milić, City Development Through the Ages, Book I - Prehistory and Antiquity, Skolska knjiga, Zagreb 1995.			
2. Bruno Milic, City Development Through the Ages, Book II - The Middle Ages, Skolska knjiga, Zagreb 1995			
3. Bruno Milić, City Development Through the Centuries, Book III - A New Age, Skolska knjiga, Zagreb 2002.			
4. Nikola Dobrović, Urbanism through the Centuries II - The Old Century, Naucna knjiga, Belgrade, 1951			
5. Kurtović-Folić Nadja, Development of Architecture and Settlements, Book I, Faculty of Architecture, Belgrade 2001			
6. Ivan Nikiforov, History of Urban Planning, UASG, Sofia 2003.			
7. Branko Maksimovic, Urbanism in Serbia, Gradjevinska knjiga, Belgrade, 1962.			
8. Lewis Mamford, City in History, Napred, Zagreb 1988			
Active teaching	Theoretical lectures	Practical lectures:45	
Teaching methods			
Lectures. Consultations. Discussions. Student presentations. Individual work according to individual project tasks.			
Knowledge score system (max.100 points)			
Pre-exam	Points	Final work	points
Activity during lectures	10		
presentation	20		
Seminary papers	30		
Mid-terms		Written exam	40

Architecture and Urbanism			
Subject: Architectural form and composition			
Kosic D.Tatjana			
Elective subject			
5 ECTS			
Requirements: none			
Objective of the course Introduction to the need and importance of studying the theory of architectural design and composition. Mastering methods and building a systematic basis for analyzing and designing architectural forms and compositions.			
Outcome of the course Students who successfully acquire knowledge in this subject should be able to: thoroughly and properly analyze developments in the development of design and composition; present critical views on this theory; thoroughly present their architectural views on architectural periods, movements and creators of the theory of architectural design and composition, as well as architecture as a whole.			
Contents of the course Theoretical teaching The focus of the course is to acquire the knowledge and skills required to practice architectural practice, through an understanding of topics and strategies relevant to the design and composition of sustainable architectural projects. The course introduces the fundamental principles underlying the vocabulary and theory of architectural design and composition, as well as key elements of the architectural concept. The basic elements of form and composition in the external physical environment and their interaction with structures and people are examined. The course explores values and ethics that inspire all architectural forms and compositions. Introduces students to ideas and historical examples by which they can identify, compare and analyze contemporary practice, as well as key historical developments in the built environment, social and economic issues, climatic conditions and technological developments that influence architectural forms and compositions. Students are encouraged to come up with their own innovative imaginative solutions to architectural forms and compositions inspired by microclimate, global issues and new technologies. Students learn how the choice of architectural form and composition, as analytical media, becomes the primary means of developing architectural ideas. More complex building types are used to integrate student knowledge in these areas into a framework for designing appropriate and sophisticated architectural units as solutions to particular tasks. Practical teaching Exercises, other forms of teaching, student research work. Compulsory dissertation-essay preparation.			
Literature 1.Milencovic Branislav, Introduction to Architectural Analysis 1 and 2, Belgrade, 1972. 2.Unwin, Simon: Analyzing Architecture, Routledge, (1997) 2009, 3rd ed. 3.Petrovic, Visual Research, Union of Architects of Serbia and Faculty of Architecture, Belgrade, 1972. 4.Lurcat A., Form, composition, et lois d 'harmonie I, II, III, IV, V, Editions Vincent, Paris, 1962. 5.Ching, D. C., Architecture - Form, Space, Order, Nan Nostranoe, Renhold, N. Y. 1996. 6. Robertson H., The Principles of Architectural Composition, The Architectural Press, London, 1963. 7. Milosevic, Predrag: Theory of Architecture. Nis: Faculty of Civil Engineering and Architecture, 2000. 8. Peter Gessel, Gabriele Loythoizer, Architecture in the 20th Century, Tashen, Cologne-Belgrade, 2008. 9. Jenks Charles, Modern Movements in Architecture, Belgrade, 1980. 10.Encyclopedia of Modern Architecture, Belgrade, 1970. Additional literature will be determined through student research work.			
Active teaching	Theoretical lectures	Practical lectures:45	
Teaching methods Lectures. Consultations. Discussions. Student presentations. Jury simulation. Independent works.			
Knowledge scoring system (max.100 points)			
Pre-exam	Points	Final work	Points
Activity during lectures	20		
Presentations	20		
works	20	Final research project	40

Architecture and Urbanism			
Subject: Theory of Architecture			
Milosevic V.Predrag			
Elective subject			
5 ECTS			
Requirements: /			
<p>Objective of the course</p> <p>Introduction to the need and importance of studying the theory of architecture. Getting to know the basic principles and peculiarities of particular periods, movements and creators in the development of architectural theory, from the time before the Vitruvian Greco-Roman antiquity to the first years of the twenty-first century. Mastering your own systematic background for analyzing the products of architecture theory.</p>			
<p>Outcome of the course</p> <p>Students have successfully completed a course in architecture theory based on their acquired knowledge if: they are able to thoroughly and properly analyze developments in the development of architecture theory; they are able to express critical views on this theory and express their architectural views on the periods, movements and creators of architectural theory and architecture as a whole.</p>			
<p>Contents of the course</p> <p>Theoretical teaching Etymology. Methods and models of philosophy of science. Normal science. Revolutionary science. Empiricism and abstractness. Axioms and Postulates. Coherence. Definitions of architecture. Trinity: Society - Architect - Investor. Introducing students to the development of the theory of architecture from the time before the Vitruvian Greco-Roman antiquity to the present. Characteristic periods in the development of architecture theory. Classicality and avant-garde. Classics and modernity. Stylish and modern. Classics and classicism. Iconography and iconology. The construction idea and the truth. Architecture and the public. The integrity and lawfulness of the complete. Architecture as a cultural object and as a cultural object. Practical classes: Exercises, Other forms of teaching, Study research work Compulsory dissertation-essay preparation.</p>			
<p>Literature</p> <ol style="list-style-type: none"> 1. Milošević Predrag, Theory of Architecture, Faculty of Civil Engineering and Architecture, Niš, 2000. 2. Evers Bernd, and All: Architectural Theory from the Renaissance to the Present, Taschen, Koeln, 2006. 3. Jenks Charles, Modern Movements in Architecture, Belgrade, 1980. 4. Encyclopedia of Modern Architecture, Belgrade, 1970. 5. Ranović Radović, Contemporary Architecture, Stilos, Novi Sad, 2001. 6. Nikola Dobrović, Contemporary Architecture 1, 2, 3, 4 and 5, various publishers, Belgrade, 1963 et seq. 7. Peter Gessel, Gabriella Lothojsler, Twentieth Century Architecture, Tashen, Cologne-Belgrade, 2007. 			
Active teaching	Theoretical lectures: 30	Practical lectures: 45	
<p>Teaching methods</p> <p>Lectures. Consultations. Oral exam. Dissertation-essay is eliminatory. The exam grade is formed based on the success of the dissertation-essay and the oral part of the exam.</p>			

Knowledge scoring system			
Pre-exam	Points	Final work	Points
Activity during lectures	10	Written exam	
Practical lectures		Oral exam	50
Mid-terms			
thesis	40		

Почетак

Architecture and Urbanism
Innovative technologies, materials and construction
Milosevic V.Predrag
Elective subject
5 ECTS
Requirement: /
<p>Objective of the course</p> <p>Understanding the need and importance of studying architectural technologies, materials and structures. Introduction to the basic principles and peculiarities in the implementation of architectural technologies, production and use of building materials and structures. Mastering their own systematic background for the analysis of architectural technologies, materials and structures. Mastering the arguments and protecting the position of an architect who utilizes a variety of sustainable, sustainable technologies, materials and constructions with a correct and innovative approach.</p>
<p>Outcome of the course</p> <p>Students have successfully completed a training course in innovative technologies, materials and structures based on their acquired knowledge if: they are able to properly analyze the goals and methods, content and form of architectural technologies, building materials and structures; they are able to express critical views on architectural technologies, materials and structures; they are able to argue their own architectural creation and express their architectural views and creative positions on technology, materials and structures.</p>
<p>Contents of the course</p> <p>Theoretical teaching</p> <p>The course covers some of the knowledge and, more importantly, the intellectual skills required regarding technologies, materials and structures when confronted with the task of providing technical solutions in design and design. Theoretical and practical information on issues necessary in technical design and design. Testing and critical evaluation of the latest technologies, materials and constructions as type studies or as theoretical concepts. The knowledge to be acquired focuses on finding specific technical design and engineering solutions. Topics such as: the process of designing and designing the application of certain technologies, materials and structures, the behavior of certain technologies, materials and structures and their impact on the design of buildings, the performance of construction technologies, materials and structures in relation to the environment, specific technical areas such as engineering in wood, reinforced concrete and steel.</p> <p>Practical classes: Exercises, Other forms of teaching, Study research work</p> <p>Compulsory dissertation-essay preparation.</p>
<p>Literature</p> <ol style="list-style-type: none"> 1. Siegel, Kurt, Strukturformen der Modernen Architecture, Stuttgart, 1960 2. Dancovic, Desimir, Constructive Systems in Building Construction, Nis, 1978. 3. Fischer, Robert E., New structures, Mc Graw Book Company, 1964. 4. Popovic, Georges, Building, University of Belgrade, Faculty of Architecture, 1998. 5. Matic, Mirko, Energy and Architecture, Zagreb, 1988. 6. Robert Leo Smith, Elements of Ecology, Harper & Row Publishers, New York, 1986.

Active teaching	Theoretical lectures	P r a c t i c a l l e c t u r e s : 3 0	
Teaching methods Lectures. Consultations. Dissertation-essay is eliminatory. The exam grade is formed on the basis of dissertation-essay success.			
Knowledge scoring system			
Pre-exam	Points	Final work	<i>Points</i>
Activity during lectures	10	Written exam	
Practical lectures		Oral exam	50
Mid-terms			
dissertation	40		

[Почетак](#)

Architecture and Urbanism
Smart buildings
Milosevic V.Predrag
Elective subject
5 ECTS
Requirements: /
Objective of the course Understanding the need and importance of studying smart buildings. Introduction to the basic principles and peculiarities in the design and construction of smart buildings, with the aim of maintaining and improving the human environment. Mastering the basis for analyzing the relationship between smart design and a healthy human environment. Mastering the arguments and protecting the position of an architect who ensures a permanently sustainable environment.
Outcome of the course Students have successfully completed a training course in intelligent buildings based on their acquired knowledge if: they are able to properly analyze the goals and methods, content and form of all buildings, including smart buildings as well, whether based on rational technologies that protect the environment or not; they are able to express critical views about buildings, and smart buildings in particular; they are able to argue

their own architectural creativity and express their views and creative positions on smart design.

Contents of the course

Theoretical teaching

Introduction to individual standard construction and design practices related to domestic buildings, as well as the physical and scientific processes and principles applied in the design and design process. Key elements of conceptual smart design. Basic elements of the external physical environment and their interaction with smart buildings. Significant structural, developmental and technical factors of design in interaction with domestic buildings. Research methods and techniques that advance the development of technical knowledge. Performance of building materials and engineering services within a building and in relation to the protection of human environment: passive and active methods of controlling the internal human environment.

Practical classes: Exercises, Other forms of teaching, Study research work

Compulsory dissertation-essay preparation.

Literature

1. Recknagel, Sprenger, Schramek, Heating, ventilation, air conditioning, Interklima, Zagreb, 2002.
2. Ladener, Späte, Solaranlagen, Oko Buch, Magnum, Munich, 1999.
3. Milosavljevic, Marko, Climatology, Naucna knjiga, Belgrade, 1985.
4. Podlipnik, Peter, Lighting Manual, Maribor, 1978.
5. Goscle, K., Schule, W., Sound, Heat, Moisture, Gradjevinska knjiga, Belgrade, 1978.
6. Robert Leo Smith, Elements of Ecology, Harper & Row Publishers, New York, 1986.

Active teaching

Theoretical lectures: 30

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Teaching methods

Lectures. Consultations. Oral exam. Dissertation-essay is eliminatory. The exam grade is formed based on the success of the dissertation-essay and the oral part of the exam.

Knowledge scoring system (max.100 points)

Pre-exam	Points	Final work	points
Activity during lectures	10	Written exam	
Practical lectures		Oral exam	50
Mid-terms			
dissertation	40		

Architecture and Urbanism			
Subject: Design management in architecture and urbanism			
Sokolovic A. Sokol			
Elective subject			
5 ECTS			
Requirements: /			
Objective of the course Presentation of different interpretations and ways of applying design management in architecture and urbanism			
Outcome of the course Students are enabled to deal with design management, which should respond to increased global demands in the field of design and consulting.			
Contents of the course Theoretical teaching Design management is viewed from the perspective of industrial design as well as architectural management. Design management is important for properly understanding the impact of design on an object as an investment in real estate. It is implemented at all stages of the life cycle of the development of an architectural project. It is an integral part of the process of developing an architectural product. Quality management of architectural design is essential to achieving the planned deadlines, the required quality of project documentation, the quality and cost of maintaining the built architectural facility, and the desired value index, as expected by project stakeholders. Practical teaching Students are introduced to the role of design management and design manager on a project. The project is being considered from a business and investment point of view. All aspects of design are analyzed as well as controls on time, cost and quality of design. The role of all project stakeholders and their value systems is discussed. The importance and role of the investor value system is particularly emphasized. Value parameters and design are analyzed. The way of gathering information and knowledge from the project is analyzed through the application of digital technologies in the BIM environment. Practical examples of successful design management on international architectural projects are analyzed.			
Literature 1. Stephen Emmitt, Design Management for Architects, Wiley-Blackwell, 2014 2. Rachel Cooper, The Handbook of Design Management, Bloomsbury Academic, 2014 3. Zoran Cekic, "International Construction", Gradjevinska knjiga, Belgrade, 2006			
Active teaching	Theoretical lectures	Practical lecture s: 30	
Teaching methods Lectures and tutorials. A hybrid model of teaching where lectures with intense discussion of important project issues are combined with project and problem based learning. Project simulations apply. The case study critically analyzes the processes.			
Knowledge scoring system (max.100 points)			
Pre-exam	Points	Final work	Points
Activity during lectures	10	Written exam	40
Practical lectures		Oral exam	
Mid-terms	20	
Seminary papers	30		

Architecture and Urbanism			
Subject: International regulation in construction industry			
Draskovic B. Bojana			
Elective subject			
5 ECTS			
Requirements:/			
<p>Objective of the course Introducing students to the basics of international law in the field of civil engineering, international tender procedures and FIDIC contracting conditions; the course enables students to independently analyze international legal acts through understanding competitive advantages of civil engineering in the process of forming basic elements of corporate strategy.</p>			
<p>Outcome of the course Students are enabled to interpret the most important features of international law in the field of civil engineering through the application of both legal and by-laws. They are familiar with basic elements of corporate strategy through the analysis of the most important features of the global construction investment market in accordance with FIDIC rules.</p>			
<p>Contents of the course Theoretical teaching - Introduction to basic postulates of international business law, Application of laws and regulations of international law in the field of construction, FIDIC term and rules, Contemporary international construction practice through FIDIC rules of construction, Standards and models of contracting on international projects, international legal systems , standard forms of contract documents and contracting conditions,, Definition and basic elements of the FIDIC contracting terms, Types of international building contracts by status u cheaters, FIDIC contracting conditions, for construction work in international civil engineering, FIDIC-international tender procedures, participation in international tenders, preparation of tenders, basic steps of international tender procedures, method of contractor selection in international tenders, EU and World Bank tender procedures . International Trade Arbitration - Costs of Arbitration, Arbitration Decision, Steps in Settlement of International Disputes in Construction, Mediation as an Alternative Dispute Settlement Board, Dispute Review Phases. A mediation as an Alternative Dispute Settlement, FIDIC Compensation Claims, Amendments and Corrections, Risk-taking, Goals and Development of International Business Strategy, Impact of Global Market Globalization, Beginnings and Expansion of Internationalization of Serbian Construction, Beginnings and expansion of internationalized construction in Serbia, Selection of local partners, main factors and elements of international construction. Practical teaching - Practical application of legal postulates in the field of international construction with interactive cooperation of students, through the formation of an optimal model of construction contract with the application of FIDIC contracting rules and legislative rules of the RS. Studying international tender procedures, contracting conditions and financing model for international projects.</p>			
<p>Literature 1.FIDIC, Contracting Conditions for Construction Works, General Conditions, Crvena knjiga, 1999 Second Edition, Belgrade, 2008. 2.FIDIC, “Special Contracting Conditions for Construction Works, Construction and Technical Works under Investor Project,” Part II, Belgrade, 2008. 3.FIDIC, “Tendering Procedure”, 2004. 4.FIDIC, “Conditions of Subcontract for Construction, for Building and Engineering Works Designed by the Employer,” First Edition, 2011. 5.Popović, Ž., “Indemnification Requirements in Construction” - Procedures from FIDIC Contracts and Methods of Calculation with Examples, Gradjevinska knjiga, Belgrade, 2009</p>			
Active teaching	Theoretical lectures	Practical lecture s: 30	
Teaching methods			
Lectures, Powerpoint presentations, case studies, interactive participation, expert lecturers in the field of			

international construction.

Exercises - a detailed analysis of case studies, practical work with groups of students in order to study international tender procedures and FIDIC contracting conditions.

Knowledge scoring system (max.100 points)

Pre-exam	Points	Final work	Points
Activity during lectures	10	Written exam	<i>30</i>
Practical lectures		Oral exam	
Mid-term	40	
Seminary papers	20		

Почетак

Architecture and Urbanism
subject: Research study
Teacher:
Compulsory subject
10 ECTS
Requirements: /
<p>Objective of the course Application of basic, theoretical, methodological, scientific and expert-applied knowledge and methods to solve specific problems within the chosen area. Students analyze a problem, its structure and complexity and draws conclusions on possible ways of solving it on the basis of the conducted analyzes. Studying the literature, the student is introduced to methods that are intended to solve similar problems. The goal of students' activities within this part of the research is to gain the necessary experience by solving complex problems and tasks and recognizing the possibilities for applying previously acquired knowledge in practice.</p>
<p>Outcome of the course Enabling students to independently apply acquired knowledge from different areas they have previously studied, in order to understand the structure of a given problem and its systematic analysis in order to draw conclusions about possible directions for solving it. Through the independent use of literature, students expand their knowledge in their chosen field and study various methods and papers related to similar issues. In this way, students develop the ability to conduct analyzes and identify problems within a given topic. Practical application of the acquired knowledge from different fields develops the ability to understand the place and role of engineers in the chosen field, the need for cooperation with other professions and teamwork.</p>
<p>Contents of the course It is formed individually in accordance with the requirements for the preparation of a specific master's thesis, its complexity and structure. The student studies professional literature, diploma and master's work of students dealing with similar topics, performs analyzes in order to find a solution to a specific task defined by the thesis of the master's thesis. Part of the course teaching is conducted through independent study research work. Study work also includes active monitoring of primary knowledge from the topic of work, organization and conducting of experiments, numerical simulations and statistical data processing, writing and / or communication at a conference in a narrow scientific teaching field to which the topic of undergraduate-master's work belongs.</p>
<p>Literature 1. Author Group: Kobson Magazines 2. Group of authors: journals and master's thesis</p>
Active teaching: 300
<p>Teaching methods The graduate - master thesis mentor prepares the assignment and submits it to the student. The student is obliged to create the work within the given topic defined by the thesis of the diploma - master's work, using the literature suggested by the mentor. During the preparation of the master's thesis, the mentor can give additional instructions to the student, refer to specific literature and further guide them order to produce a quality master's</p>

thesis. As part of the student's research work, the student consults with the mentor and, if necessary, with other teachers who deal with issues in the field of the topic of the work itself. Within the given topic, the student also performs certain measurements, tests, counts, surveys, statistical data processing, if needed for the master's thesis.

Knowledge scoring system (max.100 points)

Pre-exam	Points	Final works	<i>Points</i>
Activity during lectures		Written exam	
Practical lectures		Oral exam	50
Seminary papers	50		

[Почетак](#)