



Faculty of Architecture, University of Zagreb

Master Degree Program in Architecture and Urban Planning

Catalog of Courses for International Students

(courses taught in English and/or taught in Croatian with consultative teaching in English / Italian / German / French and/or Spanish)

2018

Master course Professor Term – semester Language of instruction / Other languages for consultative teaching Type of course unit ECTS credit Contact	Course Description	Course Objective	Course Syllabus
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<p>Sustainable Building 2 / Održivo građenje 2</p> <p>Assist. Prof. Zoran Veršić, Ph.D.</p> <p>Winter - I/II semester</p> <p>Croatian / English</p> <p>15 lectures/sem</p> <p>2.0 ECTS</p>	<p>Protection of building users, buildings and environment based on studying building physical features in terms of noise and fire. During its life expectancy every building should fulfill building requirements and other conditions to ensure that they meet all building standards and proscribed laws and regulations. Buildings should be usable during certain lifetime. Building requirements are present in the process of planning, designing and building. Noise and fire protection are two requirements which every building should ensure. These requirements should be respected at building site selection, building design and building dimensioning and its parts, as well as at construction. This can be achieved by using specific structures and materials with specific characteristics.</p>	<p>Building and equipment of building are in certain danger from the external influence. At the same time, its content and usage could present the endangering element to surroundings. It is planned to acquire knowledge and adopt methods for defining optimal architectural systems, materials and structures for protecting building users, buildings and environment. Accordingly, from the first design phase and design process, architectural solutions of elements and applied systems have to be integrated to meet all the building requirements (noise and fire protection).</p>	<ol style="list-style-type: none"> 1. Sound as a physical phenomenon 2. Noise (types of noise, noise pollution, harm of noise pollution for human health) 3. Noise as the source of environmental pollution, concept of noise protection design 4. Regulations in the field of noise protection 5. Requirements for building noise protection (urban planning and architectural design projects) 6. Requirements for building noise protection (traffic noise, noise sources in building, impact noise, vibration from mechanical equipment etc.) 7. Room acoustic / Room noise reduction 8. Materials for noise protection, materials for acoustic cladding 9. Burning process and fire fighting process 10. Regulations and requirements of fire safety 11. Protection against fire 12. Fire evacuation procedures and plans 13. Emergency evacuation routes 14. Materials for protection against fire 15. Concept of designing fire resistance
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Contact:
Assist. Prof. Zoran Veršić, Ph.D
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<p>Urban Planning Workshop - Planning of Settlements / Urbanistička radionica - Planiranje naselja</p> <p>Ass.Prof. Sanja Gašparović, Ph.D.</p> <p>Croatian / English / Italian / German / French / Spanish</p> <p>Winter - I/II semester</p> <p>60 studio/sem</p> <p>6.0 ECTS</p> <p>Contact: Ass.Prof. Sanja Gašparović, Ph.D. sgasparovic@arhitekt.hr office no.: 424 / 4th floor</p>	<p>The course Urban Planning Workshop 2 aims to explore the possibilities of sustainable spatial development of a small town of 10 000 inhabitants within 10 to 15 years.</p>	<p>The course aims to introduce the students to the methodology of drawing up urban plans (spatial planning regulation) for a smaller urban entity (1:2000). Headed by their supervisor, the students are expected to devise planning strategies and possibilities for the development of a particular area and at the same time preserve the cultural and historic heritage and natural resources.</p> <p>The students draw up an urban planning proposal incorporating highly complex spatial, functional and design characteristics. They are expected to conceive and offer:</p> <ul style="list-style-type: none"> - The function and use of a particular area (town) - Proposal for building up an area - Preservation of cultural and historic assets, and natural resources - Public urban areas (squares, parks, promenades etc.) <p>Solutions for parking facilities (parking lots, garages...)</p>	<p>The workshop, as an open form of teaching, encourages students to develop their own critical thinking in relation to the program and culture. The supervisor sets the task and its context. The students are expected to analyze it and draw up a planning proposal.</p> <p>Elements of the task:</p> <ol style="list-style-type: none"> 1. Analysis (present condition, spatial and planning documents etc.) 2. Assessment of construction and landscape features (natural values, built heritage, tourism and other possibilities of development) 3. Analysis map 4. Planning program – numerical data 5. Concept proposal (spatial development of a settlement or part of the settlement with spatial and functional solutions, requirements and design of particular spatial entities) 6. Concept development (space scheme – land use, traffic system, proposal for building up an area) 7. Urban planning solution – detailed land use plan, 1:2000 (level of urban plan) 8. Urban structure and composition – way of construction, public space design, visually dominant features in space (plan – working scale model) 1:2000 (level of urban plan) 9. Textual explanation of the plan 10. Spatial representations (3D simulations or photographs of scale models)
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<p>Architectural Design Workshop 1 - Modern Housing / Radionica arhitektonskog projektiranja 1 - Suvremeno stanovanje</p> <p>Assist. Prof. Branimir Rajčić</p> <p>Winter - I/II semester</p> <p>Croatian / English</p> <p>120 studio/sem</p> <p>12.0 ECTS</p> <p>Contact: Assist. Prof. Branimir Rajčić branimir.rajcic@arhitekt.hr office no.: 3/-I floor</p>	<p>The course focuses on a design project development examining new typology, complex large-scale programs and architectural principles of free topics. Design interior studio is an integral part of the workshop.</p> <p>Architectural workshop is a form of research carried out through a design project which integrates knowledge and skills acquired in the previous years. The assignments set by a supervisor deal with complex architectural programs in a contemporary context encompassing issues relevant to the profession and space development as well as technical and technological innovations</p>	<p>The workshop stimulates the development of critical thinking towards the program, medium used and culture. The supervisor's role is to define the issue and place it into the context of architectural project research. Professional and cultural context of the assignment as well as the suggested readings are included in the reader which introduces students to project work.</p> <p>Visiting lecturers from the Faculty of Architecture and elsewhere broaden students' knowledge about the context of architecture and analogies with other disciplines as well as about multi-faceted aspects of the contemporary moment. Participation of experts in the fields of the built heritage, theory and history of art and architecture, structural systems, technical installations and architectural structures provides a sound basis for coping with these issues.</p> <p>Project presentation and an exhibition are integral parts of the workshop. Students give presentations during the semester and at the end of it. They are expected to develop an ability to deal with complex architectural issues and critically evaluate new ones using the latest techniques, materials and structures.</p>	<p>Architectural workshop is based on an intensive study of architectural issues and a research-based approach to architectural design. It includes seminar work, presentations and discussions during the semester as well as a final project presentation.</p> <p>Work is organized in groups of 10 students under the supervision of tutors and their associates.</p>
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<p>Modern Housing / Suvremeno stanovanje</p> <p>Prof. Alenka Delić, Ph.D.</p> <p>Winter - I/II semester</p> <p>Croatian / English</p> <p>15 lectures/sem</p> <p>2.0 ECTS</p> <p>Contact: Prof. Alenka Delić, Ph.D alenka.delic@arhitekt.hr office no.: 325 / 3rd floor</p>	<p>Living accommodation is one of the most significant aspects in the development of town life. Through the theoretical part of the course and the workshop on modern dwellings, the course explores new (experimental) spatial systems in line with the changing needs, wishes and aspirations of residents, usage multifunctionality, the individualization of apartment block accommodation, participation, implementation of ICT, modern design with use of most modern technologies available, 'intelligent' environments and residential spaces alongside the strategy of sustainable development and an ecological approach.</p>		<ol style="list-style-type: none"> 1 - Uvod u kolegij 2 - Moderna u Hrvatskoj i Europi 3 - Svjetska urbanizacija – nove vizije 4 - Transformacija obitelji 5 - Kako napisati seminarski rad – gost predavač 6 - Hrvatska – Zagreb - urbanizacija 7 - Hrvatska – Zagreb - stanovništvo – socijalna slika 8 - Inteligentno i održivo stanovanje 9 - Katnost i gustoća 10 - Novi smjerovi u višestambenoj tipologiji 11 - Globalizacija, individualizacija i ICT 12 - Stanovanje za različite socijalne skupine 13 - Izmjenjivost / fleksibilnost stanovanja u višestambenim zgradama 14 - Fleksibilnost / varijabilnost / adaptabilnost u organizaciji stana 15 - Ambijent stanovanja
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Physical Planning / Prostorno planiranje Prof. Srećko Pegan, Ph.D. Summer - I/II semester Croatian / English 15 lectures/sem 2.0 ECTS	The course topics cover the general and specific knowledge of physical planning. The lectures will lead to understanding the processes that take place in a region. Urbanization. Basic elements involving in generating contemporary space structure. Traffic and the region. Industry and the region. Tourism. Typology of contemporary tourism zones. Agricultural and forest land. Landscape – basic terms and definition. Identity of space and the danger of its loss in the process of transformation and globalization. Basic principals of protection. Regions of specific characteristics – natural parks, natural reserves, national parks. Detailed methodology in preparing, ruling and application of physical plans	The course is upgrade to the course “Introduction to Physical Planning”. The purpose of a course is to give detailed knowledge of physical planning in relation with contemporary generators of space consumers.	Definition of urban planning, and Physical and management Act. Functional characteristic and basic processes in the region. Basic elements involving in generating contemporary space structure. Urbanization. Traffic and its importance for the region. Traffic conditions of town locations and development. Commercial zones and industry zones in a region. Development of tourist zones and their typology. Agricultural and forest land Landscape – basic terms and definition. Landscape and its identity. Identity of space and the danger of its loss in the process of transformation and globalization. Natural environment endangerness, and space protection. Historic overview of Natural heritage protection in Croatia. Regions of specific characteristics - National parks, Natural reserves and Natural parks. Methodology of preparing physical plans. Practical problems in preparing, ruling and application of physical plans.
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<p>Architecture in Croatian Regions – Dalmatia / Hrvatski prostor i arhitektura - Dalmacija</p> <p>Assist. Prof. Tin Sven Franić</p> <p>Summer - I/II semester</p> <p>Croatian / English</p> <p>36 seminar/sem</p> <p>2.0 ECTS</p>	<p>The site-specific course Croatian space and architecture - Dalmatia, offers general view into the Dalmatian architectural and urban heritage. The basic division of architectural discipline into urbanism, historical and contemporary architecture and architectural design, is used as a framework of the course's curriculum, which addresses natural resources, city's structures, architecture in urban or natural contexts, architecture for tourism and the architectural works by themselves. Itinerary of the tour is drafted in a way to emphasize the specific values of each of the site's characteristics -- in a range from cultural and historical specificities, terrain configurations, morphologies of the city's structures, to the distinctiveness of architects' ouevres and current architectonic and social issues -- in a sense of clarifying the origin of each or the architectural work and it's valorization. During the four full days tour of the Dalmatian area from Nin to Dubrovnik, the course's itinerary is held according to the program. Site visitations and presentations along with the thematic lectures will take place in situ.</p>	<p>The course's main objective is acquaintance with the visited sites and familiarization with the Dalmatia's overall urban and architectural heritage, and together with that cultivation of critical stance towards the current issues of the discipline of architecture. The site-specific course, as an educational method, offers a way of immediate observation of cities and buildings in their actual environment. The guidance, with it's program, evaluation and selection criteria of the chosen samples and in situ exposés, attempts to inform the students with specificities of this kind of immediate communication in the discipline of architecture. This site-specific course which is also an educational method is based not only upon the creative origins of the prominent twentieth century architects but also upon their architectural precedes.</p>	<p>Itinerary: Nin, Zadar, Sibenik, Trogir, Split, Brela, Makarska, Vid – Naron, Ston, Trsteno, Dubrovnik. Beside the academic guidance from the Faculty of Architecture, the course will introduce professionals from other disciplines as well as architects who have labeled the Dalmatian space with the virtue of their work. During the tour, students are expected to record visited cities and buildings with their drawings, photographs and analysis. After the tour, the students are required to choose relevant graphics from their course's diary, together with the supporting commentary in a form of a designed booklet and to submit it as a seminar paper with the title Diary of the site-specific course – Dalmatia. (Depending on the possibilities of the Faculty of Architecture, the curriculum is expanded and involves the area from Pag to Cavtat, including the islands and Dalmatian hinterlands. Also, for the students of the winter semester of the Graduate course, a study visit to Vienna is organized.)</p>
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<p>Sustainable Building 1 / Održivo građenje 1</p> <p>Assist. Prof. Mateo Biluš</p> <p>Summer - I/II semester</p> <p>Croatian / English</p> <p>15 lectures/sem</p> <p>2.0 ECTS</p> <p>Contact: Assist. Prof. Mateo Biluš mateo.bilus@arhitekt.hr office no.: 236 / 2nd floor</p>	<p>The course deals with the concept of building technology and design from the perspective of sustainability.</p>	<p>Students are introduced to the topic of bioclimatic design, application of contemporary, ecological and traditional materials and technology, energy efficient improvements of current buildings and historical buildings refurbishment, international systems of building evaluation of buildings according to basic concepts of sustainability, advanced building installation systems and renewable energy sources.</p> <p>Course objectives are development of technical skills of conceptual design process which meet contemporary requirements of sustainable building, from basic design approach to selection of materials, construction and technical systems selection as well as optimal usage of energy sources.</p>	<ol style="list-style-type: none"> 1. Elements of sustainable building design 2. Bioclimatic building design 3. Materials selection process 4. Sustainable building with traditional and recycled materials 5. Technical systems design process / Contemporary systems of heating and ventilation 6. Contemporary systems of cooling and air conditioning 7. Renewable energy sources and their application in technical systems 8. Lighting – in general. 9. International systems of building evaluation according to the basic concept of sustainability 10. Industrial architecture refurbishment 11. Rehabilitation and retrofitting of building structures 12. Rehabilitation and retrofitting of building structures 13. Energy efficient improvement of buildings 14. Managing building moisture
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<p>Urban Transformations / Urbane preobrazbe</p> <p>Prof. Tihomir Jukić, Ph.D.</p> <p>Summer - I/II semester</p> <p>Croatian / English</p> <p>15 lectures/sem</p> <p>2.0 ECTS</p> <p>Contact: Prof. Tihomir Jukić, Ph.D. tihomir.jukic@arhitekt.hr office no.: 402 / 4th floor</p>	<p>Introduction to city development and urban planning concepts in the world and in Croatia in the 20th century. The course content is presented chronologically. The students are introduced to urban transformations as well as to the impact of social, economic and political changes on urban fabric transformation. It also provides insight into special aspects of transformation.</p>	<p>The aim of this course is to introduce students to the processes of continuous urban transformation as well as the contemporary urban transformation in Croatia and worldwide. Students are taught to recognize and develop critical thinking about urban planning concepts and their impact on the recent events at home and worldwide.</p>	<ol style="list-style-type: none"> 1. Development of urban space concept (20th century) 2. 19th/20th century: types of cities: linear, garden, industrial, new block (New Amsterdam) 3. Urban transformation between the two World Wars in Croatia and worldwide 4. Werkbund, Bauhaus, CIAM 5. 20th century functionalism and a trend for a modern city 6. City and totalitarian regimes (fascism) 7. Concepts of urban fabric after World War II 8. Development of the cities after World War II in Croatia 9. New City of the 20th century (English and Scandinavian new cities, Brasilia, Chandigarh, Canberra...) 10. Urban utopias of the 20th century 11. Typological and morphological elements of urban transformations in the 1970s and 1980s 12. Contemporary urbanism in the world 13. Contemporary urbanism in Croatia 14. Socio-economic and socio-political aspects of city transformation in the early 21st century 15. discussion on contemporary city planning theories and urban transformations (hybrid city, cinematic city, virtual city, , network city, cyborg city, buzz city, intransitive city, informational city, creative city, -seminar <p>- preliminary exam - seminar paper (min. 7 pages) on the topic of urban transformations</p>
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<p>Urban Planning Workshop - Transformation of the City / Urbanistička radionica Preobrazba grada</p> <p>Prof. Tihomir Jukić, Ph.D.</p> <p>Summer - I/II semester</p> <p>Croatian / English / Italian / German / French / Spanish</p> <p>60 studio/sem</p> <p>6.0 ECTS</p> <p>Contact: Prof. Tihomir Jukić, Ph.D. tihomir.jukic@arhitekt.hr office no.: 402 / 4th floor</p>	<p>The course is focused on a systematic and comprehensive planning of complex residential and business city areas and their integration into the existing planned urban fabric.</p> <p>Emphasis is placed on planning public social, commercial and office buildings along with residential housing as the main component of a city. Special emphasis is put on planning new public areas (street, square, parks...). Residential and office buildings are planned on the level of a detailed development plan in the selected unregulated city areas which require intervention in the form of redevelopment, addition or new construction. Planning residential and business urban areas should be coordinated with the use and preservation of the existing values and sustainable construction.</p>	<p>The course aims to teach students how to analyze, conceive and work out a high-quality solution for a residential and business city area which should structurally, functionally and programmatically fit into the existing urban fabric.</p> <p>The course offers an overview of urban planning as a complex interdisciplinary process. It gives knowledge about function and design of particular city areas, urban space management as well as planning procedures and strategies of controlled development. Emphasis is placed on residential and business urban areas and their relationship with other urban areas and their functions. The course develops skills needed for the comprehension of a large scale as a framework for assessment, comparison and planning of residential and business urban areas and their relationship with the city as a whole.</p>	<p>Workshop, as an interactive form of teaching, encourages students to individually explore and develop the methodology of analysis, drawing up and representation of urban plans. The supervisor sets and explains the task and then leads the students through the process of drawing up urban plans.</p> <p>Elements of the task:</p> <ol style="list-style-type: none"> 1. Analysis and presentation of the existing condition (1:5000) and planning documents 2. Analysis and presentation of selected case studies 3. Analysis map – limitations and possibilities of space development (1:5000 scale) 4. Planning program with calculation and urban parameters 5. Concept proposal: spatial organization scheme (1:5000 scale) 6. Concept development and presentation – planned spatial structure 7. Concept development and solution for a wider area – detailed land use plan and structure proposal (1:5000 scale) 8. Urban planning solution –level of detailed urban plan 9. Detailed urban planning solution – layout plan, typical sections and elevations (1:1000 scale) 10. Detailed urban plan – layout plan with ground.-floor plans 11. Plans of all typical underground and above-ground levels and sections of the buildings within a limited area (1:1000 scale) 12. Textual explanation of the plan and urban planning parameters 13. Details of public space arrangement 14. Spatial representations 15. Exhibition and presentations
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<p>Architectural Workshop 2 – Sport+ / Radionica arhitektonskog projektiranja 2 - Sport +</p> <p>Prof. Tonči Žarnić</p> <p>Summer - I/II semester</p> <p>Croatian / English</p> <p>120 studio/sem</p> <p>12.0 ECTS</p> <p>Contact: Prof. Tonči Žarnić tonci.zarnic@arhitekt.hr office no.: 517 / 5th floor</p>	<p>Design</p> <p>Architectural workshop 2 'sport+' is a form of research through design which explores more complex architectural programs in the contemporary context, emerging occurrences in society, discipline and space, technical and technological discoveries. It consolidates knowledge attained in previous years of study, and visiting lecturers contribute to the broadening of knowledge of the context within which architecture emerges, the analogies with other disciplines, and the multifaceted aspects of contemporariness. Research is focused toward the growth of a new model of sport facilities with added programs which enable a broader social impact. The given sport-oriented content is transformed through both the project and the added program into a new type of social centre. This program +, which the student defines individually, has to be a result of completed research of various contexts within the assignment. The subject frame includes unencumbered space, construction rhetoric, the relation of served and serving space, sustainable building, spatial vs. material organization, cross/trans/disprogrammimg and other themes upon which a certain assignment relies. The assignments are carried out in bi-semesteral cycles. The projects explore how the language of architecture articulates and describes specific function/s, spatial character and the choreography of usage, the public appearance of a building, the aspect of sustainability, continuous uptime in the social sense, adaptability etc.</p>	<p>The workshop as an open form of work and teaching enables and encourages the student to develop a critical regard toward the program, the implemented medium and culturological situation. The mentor defines the problem and its context and presents it to the student as a question which he then researches through an architectural project. The student comes to an understanding of complex parameters, spanning from conceptual to technical ones, from which architecture emerges and, along with the project, develops an understanding for the argumentation of ones decisions. Ability to solve more complex architectural problems and to critically engage in new occurrences is also developed while using the newest technical tools, materials and construction.</p>	<p>The architectural workshop 2 is based on intense studying of an architectural problem and research-based approach to architectural design. The workshop includes targeted seminars, group presentations and discussions during the semester, as well as a final presentation and project argumentation. It is carried out through the following steps:</p> <ol style="list-style-type: none"> 1. Study of the subject framework - seminar 2. Preliminary design concept <p>Additional program definition Reading of place Study of mass through real models Visualization of architectural type, materialization and form of spatial organization Usage scenario Spatial illustration Other contributions explaining the project Project presentation</p> <ol style="list-style-type: none"> 3. Concept design <p>Location plan (broader context) scale 1:2000 Location plan scale 1:1000 Plans, sections, elevations scale 1:200 Typical section scale 1:100 Typical details scale 1:20 Construction scheme scale 1:500 Model of the entire object scale 1:200 or a specific segment in an adequate scale Spatial illustration of the project in its surroundings and interior views Technical description</p> <ol style="list-style-type: none"> 4. Exhibition and project presentation
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Sports Facilities / Zgrade za sport Prof. Boris Koružnjak, M.Sc. Summer - I/II semester Croatian / English 15 lectures/sem 2.0 ECTS Contact: Prof. Boris Koružnjak, M. Sc. boris.koruznjak@arhitekt.hr office no.: 408 / 4 th floor	15 lectures of 45 minutes each, consisting of historical, methodological, and technical data as well as debate on the architecture of sports facilities: sports halls, swimming pool facilities and stadiums.	Student should be trained and informed through the acquisition of broad normative, technical, cultural and methodological knowledge in the field of sports as a subject of producing architecture. Preparation and introduction to the method of normative dimensioning and designing sports facilities.	<ol style="list-style-type: none"> 1. PHENOMENOLOGY OF SPORT AND ARCHITECTURAL FORMS OF SPORTS VENUES 2. HISTORY AND DEVELOPMENT OF SWIMMING POOL FACILITIES 3. FUNCTIONAL SCHEMES OF SWIMMING POOL FACILITIES 4. STANDARDS AND FUNCTIONAL PROGRAMMES OF SPORTS HALLS 5. EXAMPLES AND COMMENTARIES ON SWIMMING POOL FACILITIES AND SPORTS HALLS 6. STANDARDS AND TECHNOLOGY OF A SWIMMING POOL 7. EQUIPMENT AND TECHNOLOGY OF SPORTS HALLS 8. HISTORY OF STADIA 9. STANDARDS AND SCHEMES OF STADIA (I) 10. STANDARDS AND SCHEMES OF STADIA (II) 11. ARCHITECTURE OF THE OLYMPIC BULDINGS UNTIL WORLD WAR II 12. ARCHITECTURE OF THE OLYMPIC BULDINGS SINCE 1948 (I) 13. ARCHITECTURE OF THE OLYMPIC BULDINGS SINCE 1948 (II) 14. SPORTS VENUES OF THE LAST DECADE (I) 15. SPORTS VENUES OF THE LAST DECADE (II)
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<p>Interior Workshop / Radionica interijera</p> <p>Associate Prof. Dina Vulin Ileković, Ph.D</p> <p>Summer / Winter - III semester</p> <p>Croatian / English</p> <p>30 studio/sem</p> <p>2.0 ECTS</p> <p>Contact: Associate Prof. Dina Vulin Ileković, Ph.D dvulin@arhitekt.hr office no.: 400 / 4th floor</p>	<p>The course focuses on a design project development examining new typology, complex large-scale programs and architectural principles of free topics. Design interior studio is an integral part of the workshop.</p> <p>Architectural workshop is a form of research carried out through a design project which integrates knowledge and skills acquired in the previous years. The assignments set by a supervisor deal with complex architectural programs in a contemporary context encompassing issues relevant to the profession and space development as well as technical and technological innovations.</p>	<p>The workshop stimulates the development of critical thinking towards the program, medium used and culture. The supervisor's role is to define the issue and place it into the context of architectural project research. Professional and cultural context of the assignment as well as the suggested readings are included in the reader which introduces students to project work.</p> <p>Visiting lecturers from the Faculty of Architecture and elsewhere broaden students' knowledge about the context of architecture and analogies with other disciplines as well as about multi-faceted aspects of the contemporary moment. Participation of experts in the fields of the built heritage, theory and history of art and architecture, structural systems, technical installations and architectural structures provides a sound basis for coping with these issues.</p> <p>Project presentation and an exhibition are integral parts of the workshop. Students give presentations during the semester and at the end of it. They are expected to develop an ability to deal with complex architectural issues and critically evaluate new ones using the latest techniques, materials and structures.</p>	<p>Architectural workshop is based on an intensive study of architectural issues and a research-based approach to architectural design. It includes seminar work, presentations and discussions during the semester as well as a final project presentation.</p> <p>Work is organized in groups of 10 students under the supervision of tutors and their associates.</p>
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<p>Architectural Workshop / Radionica arhitektonskih konstrukcija</p> <p>Assist. Prof. Mateo Biluš</p> <p>Summer / Winter semester</p> <p>Croatian / English</p> <p>150 studio / sem.</p> <p>16.0 ECTS</p> <p>Contact: Assist. Prof. Mateo Biluš mateo.bilus@arhitekt.hr office no.: 236 / 2nd floor</p>	<p>Structures - III</p> <p>Architectural Technology and Sustainable Building Design Studio: Wooden modular apartments are a form of real model research which explores contemporary technical and technological possibilities of prefabricated buildings in the region. The aim of this studio is to expand knowledge acquired in previous years through intensive teamwork from idea to detailed construction project.</p> <p>A series of lectures by guest lecturers, visits to the given building site, collaboration with teachers Faculty of Forestry and visits to timber manufacturers all contribute to dissemination of knowledge about multiple aspects of building with wood and its sustainability aspect.</p> <p>The task examines current models of self-sufficient prefabricated structures with emphasis on holistic approach to project development, in terms of choice of materials and technology. By analyzing a modular unit to the scale of 1: 1, transformation from a conceptual level to the possibility of construction is studied.</p> <p>Wooden modular apartment is supposed to be the result of a study of modern technical and technological possibilities of the region. Manifested through a series of technical and design solutions, it is designed to the level of primary structure and modular grid, technologically equipped. Essential aspects that a design must meet are: limited funding sources both in the construction and during its use, cost effective realisation, use of local materials and technologies, quality solutions for the building envelope and it's aspect of thermal insulation and moisture flow, natural ventilation and active sun protection, interior design materials selection in accordance with function, improved microclimatic, technical and acoustic properties of space. Simple solution of implemented architectural details is required as well as use of environmentally friendly and recycled materials, durability of performance and ease in use. Simple technical solutions of natural systems and optimized installation systems such as ventilation, heating, cooling, light and temperature regulation must be applied. It must be presumed that the designed modular apartment must have the possibility of further production and application of the modular prototype for other programs and locations. Thematic framework includes defining structure, functional interior design as an inseparable part of the module, sustainable building elements, selection of materials with respect to the location, design program and local conditions. The project explores preliminary design draft articulation through aspects of construction possibility and sustainability, as well as possibility of a prototype production and flexibility of design solutions to meet other purposes and programs.</p>	<p>This studio is designed as an open form of work and teaching, based on work in a professional context of the design studio, which gives students an insight in uniqueness and importance of the final phase of a project. Students are acquainted with complex parameters of technical and structural detailing with respect to aesthetic demands, which are a predisposition for quality implementation of the design concept. Students learn about the importance of research and of proposing solutions as well as making decisions by disclosing relevant arguments. Student's ability to accomplish complex architectural tasks and critical decision-making with the use of modern technical means, materials and construction is developed.</p>	<p>Architectural Technology and Sustainable Building Design Studio is based on intensive study topics and research approach to architectural project development. It includes a series of lectures by guest lecturers, visits to the given site and visits to timber manufacturers, targeted seminars, joint presentations and discussions during the semester, workbooks for each student's work, the approximate calculation of the budget and the final presentation and defence of the design.</p> <p>It is conducted through the following steps: Topic study as a seminar paper. Concept design of a technology and the possibility of its wider use. Concept design presentation. Detailed design project which consists of: written specification, list of building envelope layers and partition layers, all area calculation, detailed drawings such as: Site plan M 1:50; load bearing structure scheme M 1:20; Floor plans, sections, facades M 1:20; Detailed section through the segment of a facade wall M 1:10; Characteristic architectural details M 1: 5; Scale model of the pavilion M 1:20 and / or scale model of a specific detail M 1: 2; Three-dimensional unit assembly display. Exhibition and final presentation.</p>
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<p>Architectural Workshop 3 / Radionica arhitektonskog projektiranja 3</p> <p>Prof. Aleksandar Homadovski, Ph.D.</p> <p>Summer / Winter - III semester</p> <p>Croatian / English / Italian / German</p> <p>150 studio/sem</p> <p>16.0 ECTS</p> <p>Contact: Prof. Aleksandar Homadovski, Ph.D. aleksandar.homadovski@arhitekt.hr office no.: 330 / 3rd floor</p>	<p>Design</p> <p>Within Workshop 3 various professors mentor various projects, some of them presented here:</p> <p>Typological studies of architectural plans Typological boundaries of 4* city hotels (2014_2015)</p> <p>--- Trends in development of architectural programs depend in part on specific phenomenon of globalization, work environment that is profiled between real and virtually branded environment, introduction of (virtual) entertainment in areas of free and working time, understanding the scientific paradigm of the world, analog - digital position in architecture and implementation of optimal versus appropriate sustainable (energy) solutions in the fields of architectural construction (Cost Effective Design through a Life Cycle Costing – LCC). Looking together, in synergetic value of mutual influence, the architectonic realities of the information age are formulated. In this context, typology studies of architectural plans and their multifunctional components become the basis for a broader understanding of the architectural composition. Workshop research method integrates interdisciplinary relations in the field of science, art and technology into the body of architectural design. (prof.dr. Homadovski)</p> <p>City hotel 4* and complementary programs on sites proposed by Workshop leaders.</p> <p>"Architectural Workshops affirm the tasks that have not yet been placed in the educational process of undergraduate or graduate studies. Professors - workshop leaders - propose tasks and co-ordinate them at the joint meeting. The proposed tasks of architectural workshop should assume and consolidate complex architectural systems and assemblies; multiplicity of use, events and meanings, dependence of urban or other spatial context. Students investigate and establish a reference frame of problems and formulate theoretical estimations. Presented design at the end of the semester is a concrete, clear concept, drawn in an appropriate scale with all the elements of architecture." (Prof. Geng, Head of the Department of Architectural Design)</p>	<p>Studies of new and/or rare architectural types and their functional components were set up as the basis for a broader understanding of the architectural composition and typology. Understanding the architectural holdings of modern and contemporary world architecture. Understanding architecture in the phenomenon of environmental sustainability at the turn of the 3rd millennium. Application of sustainable and/or appropriate energy approaches in the field of architectural design and construction. Getting to know the integration processes between technological-technical and artistic achievements of architectural creation. Publication of professional papers, scientific research and theoretical work in order to contribute to the scientific field under the mentorship of lecturer. Encouraging the interest for technical and engineering dimensions of architectural creativity in balance with the cultural and artistic dimensions of architecture. Development of generic skills; cooperative strategies and activities, formation and operation within the team-building environment, modeling ad-hoc skills in information processing and formulation of knowledge. Development of skills and understanding of media presentation standards.</p>	<p>With the Museum for Monuments of Totalitarian Regimes, missing places are formed in transitive memory symbols of previous ideologies, a places that connects political and cultural past, present and possible future ▪ Glass palace - Orangerie - Palmen Garten, location of a new Botanical Garden in Zagreb revalue dialogue with representative palaces of the city framed by Lenuzzi horseshoe composition ▪ Culture Forums on the urban-generative locations ▪ Zagreb Forum Buzin contains theme parks as a corporate communication platforms; eco park, techno park, car park, science park ▪ V. Holjevcica Ave. location in Zagreb with the Museum of Contemporary Art contains a range of spatial and programming environments; Visionarijum - Educatorijum as a museum, a park and a media lab. center - promoting natural, scientific and technical activities. ▪ Tipology borders of 4* City Hotels in Zagreb locations.</p>
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Arhitektonska topografija identiteta/ Architectural Topography of Identity/ (prof. Mikic):

Each region in Croatia has its specific spatial value – making it different from the others – which is the basis for their development. Architecture, as an essential factor of strategic development, is aiming to conceive and produce solutions to vertically connect the local and regional priorities with the national, and, ultimately, the European ones. This research has considered the local and regional development processes with the view of identifying priority needs of an area, having in mind the fact that the population on the local and regional levels has a clearer understanding of difficulties it is facing, and that local and regional problems largely require specific local and regional solutions. The aims of the field work include: raising awareness of the future architects for the local issues of the Croatian national space, and providing the programme assistance to the regional communities enabling them to more fully comprehend their possibilities for sustainable development. Rural areas in Croatia cover 92% of the total territory. The rural areas offer an alternative to the city life, expanding the possibilities of choice of the place to live and work in. These areas are frequently neglected and devastated, but are given the possibility of development within the new worldview of sustainability.

The research of architectural and urban topography which would include the activation of a wider public space into its structure. As the task emphasis is on the predominance of the natural landscape in the relation to the urban landscape, it is necessary to define their boundaries, which will generate a new programme. Activating and modelling the environment thus becomes a starting point for forming an architectural and urban concept. The students attending this semester are required, and face a challenge, to conduct a kind of experiment within this project task which will potentially redefine the “use” of landscape: improve the quality of life of the domicile population, but also attract the temporary population, define new types of tourism, explore possibilities of all human activities, create new sociological structures and, finally, create a new quality through spatial interventions. The Workshop of Architectural Design aims to guide the students through the process of identifying the focal point of the problem, making a preliminary study of the intervention zone, the project and architectural and urban design programming, the consideration of a technological solution and innovations - all the way to the completed project.

Task: HOTEL (ACCOMODATION CAPACITY WITH COMPLEMENTARY FACILITIES)
Location: Municipality of Kalnik /Municipality of Pisarovina

Individual and team work in exercises, team building, cooperation with complementary experts as part of exercises, exploration of programme bases, lectures by the workshop supervisor and visiting lecturers during the semester, four presentations of works by the stages of the project elaboration before the guest critics, mentor consultations and e-contact with the supervisor - vmikic@arhitekt.hr.

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Landscape Workshop / Radionica arhitekture Associate Prof. Bojana Bojanić Obad Šćitaroci, Ph.D. Summer / Winter - III semester Croatian / English / Italian / German / French 150 studio/sem 16.0 ECTS	Architecture URBANSCAPE EMANATION _ SPACE VS. -SCAPE. Space is the boundless. -scape a specified scene. Un-volumetric architecture. Rediscovery of Space _ Impressions, Modifications of Consciousness /A Search for the Meaning of Time and Structures in the Space. Practice is 'knowing how to do something; theory is knowing why.' Garrett Eckbo. Emanation - the effect that any entity, system, and/or being has on its environment. Walking choreographies, visual illusions and emotional landscapes of waiting. Emanation - emission: the act of emitting; causing to flow forth. "OUR EPOCH [AS] ONE IN WHICH SPACE TAKES FOR US THE FORM OF RELATIONS AMONG SITES" MICHEL FOUCAULT . What then is time? If no one asks me, I know; if I want to explain it to a questioner, I do not know... We measures times. But how we measure what does not exist? The past is no longer, the future is not yet. And what of the present? The present has not duration... In order that we may compare a short and a long syllable, both must have died away. Thus I do not measure the syllables themselves, but the images of the two tones in my memory... Thus when I measure time, I measure impressions, modifications of consciousness. (Saint Augustin). pejsažne	The objective is to create a paradigm that is independent of the location, nature, scale, time and technology. This paper presents a network of key terms and concepts taking into account the location, context and program. Integrating the classification, structure and analysis, and promoting discussion. Way of designing is transforming the choreography of movement, of visual illusions and of sensory landscapes.	REALISATION go through respecting the integrity of the existing space. Create a picture of the space. Detected through the analysis of how the space can change with time: WHAT WAS? WHAT IS IT? WHAT COULD BE? The framework shaped of the elements of space and natural and cultural limiting elements. Elements that encourage INTERACTION: causes_ effects_ time. Functions play as the dynamics of space. Types of movement. Structures are structural elements: points (something special), lines (corridors), fields, nodes, edges, matrices. Discovering ISOVIST, the creation of relationships between spatial behavior, experiences and realized project.
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Physical Planning Workshop / Radionica prostornog planiranja Prof. Srećko Pegan, Ph.D Summer / Winter - III semester Croatian / English / Italian 150 studio/sem 16.0 ECTS Contact: Prof. Srećko Pegan, Ph.D srecko.pegan@arhitekt.hr office no.: 431 / 4 th floor	Policies and perspectives of development – the Mediterranean context of the use and protection of the coastal area – subject review Exploration and assessment of space potential – SWAT analysis of space changes – identity, „brand“, spatial conditions, planning principles ... the concept of transformation of a part of the coastal area. Presentation of the project through stages, public exhibition	The assignment aims to explore and suggest possible courses of development of a selected coastal area. The proposed solution encompasses check-up and setting up the requirements for the development of a wider area as well as a detailed program of the selected sites with emphasis on space design and preservation of ambient values.	Overview of the selected proposals and solutions for the development and use of coastal areas – research study (seminar) SWAT analysis of spatial development of the Adriatic or continental region Program proposal and conceptual design for the development of a part of the coastal area Site selection is free. The projects are submitted and then presented weekly . 1. SEMINAR PAPER - Introduction to the methodology of setting up spatial parameters for planning a selected topic (it is prepared in the form of a subject review. The best papers are recommended for publication in a scientific journal and are nominated for the Rector's award) 2. SPACE DEVELOPMENT SOLUTION - Comparative analysis of tourist areas in the physical plan of a county (distribution, type, typology, development program, „brand“, identity...) - Extract from Urban plan 3. Analysis map - function, traffic, landscape, required program parameters 4. Concept of a spatial /urban solution (supplement to urban plan if necessary) and program for urban plan 5. Spatial concept (variants), structure, 3D scale model (1:2000) 6. Presentation and public exhibition of the projects
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Urban Planning Workshop / Radionica urbanizma Prof. Tihomir Jukić, Ph.D. Summer / Winter - III semester Croatian / English / Italian 150 studio/sem 16.0 ECTS	A good layout is the basis of all satisfactory urban development, and can only be achieved when the plan derives its inspiration from the site and when the three-dimensional aspect of design is properly studied. The successful urban design proposal depends upon the relationship of the building masses to each other, to the street and space about them, to the land use and their proper setting in the urban landscape. Physical signs of new activities in towns will appear in a realization that riverfronts, coast-fronts and other areas within the city, representing an opportunity for stunning rehabilitation. Downtown should be planned for people and not for cars. Development planning should concentrate on the quality of life and not on the growth as a goal. Urban clusters should be tight, integrated with transit, and designed for pedestrians and should contain a variety of spaces and activities. The available capacity of downtown should be renewed. Downtown will increasingly attract residents and investment.	Understanding of urban problems. Master the big urban scale. Principles of urban composition. Management of urban spaces. Examine procedure in urban planning.	1 to 6 Introduction with the task, process work selection, getting to know the terrain and the basic urban and spatial planning problems, recording situation on the ground, analysis of existing urban and spatial planning documents; 7 to 12, problem maps, alternative conceptions solutions, discussion, decision making at the local plan, urban and spatial development plan; 13 to 15 Introduction to the technique of drafting. Development of the project and the task.
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Master course Professor Term – semester Language of instruction / Other languages for consultative teaching Type of course unit ECTS credit Contact	Course Description	Course Objective	Course Syllabus
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<p>Croatian Architects - Authorial Approaches / Autorski pristupi hrvatskih arhitekata</p> <p>Prof. Andrej Uchytíl, Ph.D</p> <p>Winter – elective course</p> <p>Croatian / English</p> <p>15 lectures/sem</p> <p>1.0 ECTS</p> <p>Contact: Prof. Andrej Uchytíl, Ph.D andrej.uchytil@arhitekt.hr office no.: 409 / 4th floor</p>	<p>This theoretical graduate course is conceived as an upgrade to the regular undergraduate course under the title „Twentieth century Croatian architecture“. It examines, analyzes and interprets remarkable architect's oeuvres, anthological works and creative processes of prominent Croatian architects starting from the 19th century up to the present. Series of lectures are structured according to the architect's education, area of activity and generation's affiliation. Methodological units: 1. Defining the nineteenth century profession of architecture/ 2. Croatian architecture's benchmarks – Bartol Felbinger – Viktor Kovačić – Drago Ibler/ 3. Graduate architects from the period 1918-1945: a) Technical Faculty in Zagreb, b) „Ibler's School“ at the Academy of Fine Arts in Zagreb, c) European Universities/ 4. Architects and graduates of Faculty of Architecture in Zagreb after the year 1945./ 5. Architects graduated in the Republic of Croatia after the year 1991. Depending on the attending student population affinity, the selection for the curriculum is derived from the course's material, which consists of 75 architect's oeuvres. Lectures (1-4) are obligatory for each academic semester, and lectures (5-11) are held in cyclic quadrennial terms, during which the total extent of the material will have been presented. By the end of the semester, lectures are updated with the current architectural themes (12-15). The course is open to all studies and classes of students from the University of Zagreb.</p>	<p>Creating critical stance towards the modernistic architectural heritage. Lectures interpret each architect's professional modus operandi, on the basis of conceptual, social, artistic, contextual and cultural aspect of his approach, and elaborates upon that specific author's contribution. Anthological works are analyzed from the perspective of their conceptual, functional, formal and structural properties in order to understand the issues of architectural synthesis. Mastering this course acquires the body of knowledge about architecture which can be used as a reference memory of architect's individual activity. Students will gain in-depth knowledge of values of Croatian architecture that constitute the „Zagreb School of Architecture“ and special formal features of regional centres, as the specific phenomenon of European architectural and cultural space. The problems of continuity of Croatian architecture within the global trends is discussed. The course is directly associated with the scientific project „Atlas of the twentieth century Croatian architecture“ of the Faculty of Architecture at the University of Zagreb.</p>	<p>Introduction: Croatian architects – Lexicon of architects from the 20th century Croatian architecture atlas/ 2. Bartol Felbinger/ 3. Viktor Kovačić/ 4. Drago Ibler/ 5. Alfred Albini/ 6. Ernest Weissmann/ 7. Nikola Dobrović/ 8. Drago Galić/ 9. Vladimir Turina/ 10. Neven Šegvić/ 11. Ivan Vitić/ 12. Viktor Kovačić Award for Lifetime Achievement 2011: Ivan Crnković/ 13. Student's seminar papers - Presentation of architects awarded by UHA prizes: Viktor Kovačić, Drago Galić, Bernardo Bernardi, Neven Šegvić/ 14. Guest lecture - presentation of the thesis defended on the works of architect/ 15. About the exam and seminar papers; literature, Course's material: I. Fischer, A. Bastl, R. Lubynski, V. Kovačić, E. Šen, A. Baranyai, H. Ehrlich, J. Kodl, V. Šterk, I. Zemljak, H. Baldasar, D. Ibler, A. Albini, J. Denzler, M. Kauzlarić, N. Dobrović, B. Petrović, F. Cota, B. Auer, Z. Neumann, L. Horvat, J. Neidhardt, S. Planić, E. Steinmann, Z. Strizić, A. Ulrich, Z. Vrkljan, I. Antolić, D. Galić, E. Weissmann, Z. Dumengjić, S. Löwy, J. Pičman, J. Seissel, F. Bahovec, Z. Požgaj, E. Ciciliani, K. Ostrogović, H. Bauer, M. Haberle, S. Fabris, L. Perković, B. Rašica, V. Turina, D. Vesanović, V. Richter, N. Šegvić, I. Vitić, A. Čičin-Šain, R. Nikšić, B. Bernardi, A. Dragomanović, Z. Bregovac, N. Šilović, M. Begović, M. Vodička, I. Emili, F. Gotovac, B. Magaš, I. Radić, E. Šmidihen</p>
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<p>English for Architecture 4 / Engleski jezik za arhitekturu IV</p> <p>Senior lecturer Neda Borić, Ph.D.</p> <p>Winter – elective course</p> <p>English</p> <p>15 lectures/sem</p> <p>1.0 ECTS</p> <p>Contact: Senior lecturer Neda Borić, Ph.D. nboric@arhitekt.hr office no.: 306 / 3rd floor</p>	<p>The course focuses on the acquisition of specialist terminology, developing reading skills, improving general English vocabulary, improving oral communication skill, presentation skills, business communication skills (employment). Course materials are based on a selection of authentic texts from various sources with architecture and urban planning-based topics.</p> <p>Topics: redevelopment and renovation projects, famous architects, sustainable human settlements, architecture for the 21st century, business communication (employment)</p>	<p>Students are expected to develop their written and oral competence in English for architecture purposes in order to be able to meet the requirements of their academic education and future professional work. Knowledge and skills acquired should help them in their future professional careers as well as to integrate more successfully into the international business, professional and scientific community within the architectural profession.</p> <p>Knowledge and skills: Developing oral and written communication competence, developing reading skills, presentation skills, improving the knowledge of specialist and general English vocabulary, business communication skills for employment purposes.</p>	<ol style="list-style-type: none"> 1. INTRODUCTION 2. REDEVELOPMENT AND RENOVATION (part I) 3. REDEVELOPMENT AND RENOVATION (part II) 4. TADAO ANDO (part I) 5. TADAO ANDO (part II) 6. SUSTAINABLE HUMAN SETTLEMENTS (part I) 7. SUSTAINABLE HUMAN SETTLEMENTS (part II) 8. ARCHITECTURE FOR THE 21st CENTURY (part I) 9. ARCHITECTURE FOR THE 21st CENTURY (part II) 10. GETTING A JOB (part I) 11. GETTING A JOB (part II)
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Industrial Archaeology / Industrijska arheologija Assist. Prof. Zrinka Barisic Marenic, Ph.D. Winter – elective course Croatian / English / German 15 lectures/sem 1.0 ECTS	<p>The course deals with industrial heritage (factories and industrial areas) and technical monuments in wider sense (railway stations, markets, etc) with the purpose of establishing this category of architectural heritage in the context of social and technical history as well as in the architectural and urban planning context. The regeneration and re-use of the wider category of technical monuments heritage is dealt with in the greatest part of lectures.</p>	<p>Acquaintance with worldwide and Croatian industrial heritage, and the examples of re-use of industrial heritage as a basis for working on re-use projects for these buildings.</p>	<p>1. Industrial heritage, organization of the subject, its definition and methodology. Affirmation of interdisciplinary approach. 2. Historical framework. Historical development of industrialization in the world with special reference to Great Britain as the home country of the First Industrial Revolution. 3. Historical outline of the development of industry in Croatia. Reasons for its late appearance and introduction of only particular types of industry. 4. Technical culture buildings. Definition and the subject scope. Problems linked to location, spatial and structural principles. Evaluation. 5. Industrial heritage worldwide. Representative examples of technical monuments, their conservation and presentation. 6. Industrial heritage in Croatia. Representative examples (Zagreb, Rijeka, Rovinj, Osijek, Karlovac, Zadar, Split ...). 7. Regeneration and re-use of industrial heritage. Aims and principles of re-use, its methodology, socio-economic aspects and re-use selection criteria. 8. A historical outline of industrial heritage re-use. World (St. Catherine Docks, London; Cannery, San Francisco...) and Croatian re-use examples (Glijptoteka, Zagreb). 9. Regeneration of industrial zones. Industrial- archaeological parks. 10. Re-use of industrial heritage for housing purposes. Analysis and critical review of representative examples. 11. Re-use of industrial heritage for commercial purposes. Analysis and critical review of representative examples. 12. Re-use of industrial heritage for mixed purposes. 13. Re-use of industrial heritage for cultural purposes. Analysis and critical review of representative examples. 14. Re-use of industrial heritage for museums and galleries. Analysis and critical review of representative examples. 15. Bright future? Prospects.</p>
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<p>Summer School Ambientura Pučišća / Ljetna škola Ambientura Pučišća</p> <p>Associate Prof. Ivan Mlinar, Ph.D.</p> <p>Winter – elective course</p> <p>Croatian / English</p> <p>15 lectures/sem</p> <p>1.0 ECTS</p> <p>Contact: Associate Prof. Ivan Mlinar, Ph.D. ivan.mlinar@arhitekt.hr office no.: 423 / 4th floor</p>	<p>The relationship between tradition and modernity in architecture, as a fundamental topic of the summer school program, is analyzed through evaluation of local architectural achievements. Trips to interesting and valuable historical and architectural sites are organized by the School: Blaca, Škrip and the island of Hvar (Vrboska, Starigrad,Hvar). Visiting lecturers take part in the summer school work giving lectures in architecture, art history, history, archaeology etc. The School's objective is to work out detailed analyses of the existing ambiances and put forward proposals for possible revitalization of structures in historic ambiances as well as intervention in the existing historic nuclei in view of adapting to modern requirements yet respecting the built heritage.</p>	<p>Developing ability to create space and tourist facilities in a responsible way. The role of architects in planning, design and implementation.</p>	
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<p>Summer School: Tradition, Creativity and Sustainability – Motovun / Ljetna škola: Tradicija, kreativnost i održivost – Motovun</p> <p>Prof. Ljubomir Mišćević</p> <p>Winter – elective course</p> <p>English or Croatian / English</p> <p>15 lectures/sem</p> <p>1.0 ECTS</p> <p>Contact: Prof. Ljubomir Mišćević ljubomir.miscevic@arhitekt.hr office no.: 327 / 3rd floor</p>	<p>Study of traditional heritage as a starting point of a creative interpretation in design assignments focused on renewal of the Istrian town. Renewal model based on conversion and conservation. Public urban space, urban entities and architectural details. Application of CAAD software. Critical dialogue, public interpretation, exhibitions and publications. International cooperation with the Faculties of Architecture in Ljubljana, TU Vienna (Ubergange workshop), Padua, Venice, Darmstadt, Aachen, CED Berkeley - the USA.</p>	<p>Exchange of experiences and work methods among various faculties from different countries. Communication in English as an official foreign language for all teaching formats: lectures, studios, seminars and field class. Restoring continual communication among students, professors and faculties.</p>	<ol style="list-style-type: none"> 1. URBAN MATRIX OF A MEDIEVAL TOWN Research into typical matrices (matrix mapping), renewal models: conservation, conversion, preconditions for the integration of modern urban infrastructure (traffic, public utilities, safety requirements etc.), interpolations 2. PUBLIC URBAN SPACE Squares, streets and other pedestrian precincts, open and enclosed spaces, flexible purpose: occasional and permanent conversion (festivals, concerts, art installations...), modern standards of life: adapting communications (lighting, spatial barriers, safety requirements etc.) 3. COMPUTER-AIDED DESIGN CAAD, computer base for urban and architectural projects, 3D modeling, animation 4. APPROPRIATE CONVERSION OF AUSTRO-HUNGARIAN FORTIFICATIONS Survey, making inventory and architectural design intended for an appropriate conversion of Austro-Hungarian fortifications: Mali Brijun, Barbariga, Pula) 5. MODERN ARCHITECTURE IN ISTRIA Architecture and urban planning between the two World Wars (Raša, Pula) 6. CONTEMPORARY ARCHITECTURE Study, analysis and a critical dialogue about all functional types of architecture (housing, tourism, education, sports and recreation, culture, entertainment and leisure) 7. INTERPOLATION Architectural and urban planning assignments on sites in Motovun and other towns and areas in Istria 8. ARCHITECTURAL COMPETITIONS International architectural student competitions, projects and participations (Trieste EXPO etc.) 9. METHODS AND TECHNIQUES IN RESTORATION AND CONSERVATION Methods, technology, materials, machinery and equipment 10. RENOVATION OF THE ISTRIAN RAILWAY PARENZANA Physical plan of the Istrian county. Renovation concept, reconstruction, conversion, reuse 11. SUSTAINABLE ARCHITECTURE AND URBAN PLANNING Sustainable development, architecture based on climatic, ecological and energy-related issues, vernacular heritage, bioclimatic principles, indigenous materials, energy-efficiency 12. ECO-TOURISM Rural areas, renewal, permaculture, indigenous forms of living, new development models 13. FIELD CLASS Site visits in Istria (Motovun, Grožnjan, Oprtalj, Završje, Buzet, Roč, Hum, Plomin, Labin, Raša, Pazin, Poreč, Vrsar, Rovinj, Pula, National park Brijuni, Sv. Lovreč, Dvigrad, Sv. Petar u šumi, Vodnjan, Bale, Umag) 14. EXHIBITION AND PUBLICATIONS Exhibition - final presentation of drawings, models and projections, digital catalogue - internet exhibition on the web site of the Faculty: www.arhitekt.hr 15. PHOTOGRAPHY AND VIDEO Architectural classical and digital photographs, laboratory work, seminar, course, exhibition, publishing, experimental video-art, projections - performance
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Computer-Aided Design in Landscape Architecture / Računalno oblikovanje pejzažne arhitekture Prof. Bojan Baletić, Ph.D. Winter – elective course Croatian / English 15 lectures/sem 1.0 ECTS	The course offers an overview of computer aided modeling techniques for landscape architecture. The topics include a basic systematization of elements for computer modeling and visualization of objects (natural and manmade) and phenomena. More detailed information on documentation process, as well as topics on multimedia presentation of the results.	The course will offer a broad view of the evolving computer tools for the architectural profession, with special focus on the tools that are essential for landscape design today. The student will acquire knowledge on present computer applications for modeling, visualization and presentation. This knowledge of computer tools will provide the student with initial understanding necessary to choose and work with the right tools for the task of landscape design within the Workshop for landscape design in the IX semester.	<ol style="list-style-type: none"> 1. Concept and problem – visualization in design process 2. Basics of computer visualization – scene elements 3. Landscape visualization approaches – overview and basic difference 4. Landscape visualization elements – data sources, CAD, GIS 5. Visualization elements – terrain 6. Visualization elements – vegetation I 7. Visualization elements – vegetation II 8. Advanced visualization elements – light and materials 9. Advanced visualization elements – water and atmosphere 10. Animated visualization – simulation in space 11. Animated visualization – simulation in time 12. Practical usage of the tools and development of new technologies 13. Project presentation 14. Multimedia presentation 15. Interactive presentation
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<p>Contemporary Architecture / Suvremena arhitektura</p> <p>Associate Prof. Bojana Bojanić Obad Šćitaroci, Ph.D.</p> <p>Winter – elective course</p> <p>Croatian / English / Italian / German / French</p> <p>15 lectures/sem</p> <p>1.5 ECTS</p> <p>Contact: Associate Prof. Bojana Bojanić Obad Šćitaroci, Ph.D. bbojanic@arhitekt.hr office no.: 426 / 4th floor</p>	<p>Landscape perivojna</p> <p>A subject of growing interest globally, landscape urbanism is seen as a way to reimagine large cities and aging infrastructures. Landscape urbanism emphasizes the integration of natural, structural, cultural and infrastructural layers of urban space, and suggests a reexamination of current planning models.</p>	<p>The course gives students an insight into the contemporary landscape architecture as an indivisible part of urban planning and architectural design. Through analysis, examples and work on seminar introduces students to the relevant sources and recent examples of landscape architecture. The knowledge gained in this course apply to projects that are made in urban, landscape and architectural workshops.</p>	<p>First step of attractiveness Seeing the void _introduction_contemplating The second step of attractiveness Multisensory experience – synaesthesia: see sound,hear light,touch smell,lick a void and swallow air Context_Concept_Idea Next to ideas and inspiration the site conditions and constraints stand at the beginning of each project. They form the basis for landscape architects and designers to develop convincing concepts, which are Manifested in formal, spatial structures. Open space is always in-between. Between North and South, today and tomorrow, function and shape. Each design for the urban space and landscape has to deal with the site’s specific character, has to Envision Future Space. Deriving from this new paradigm and a local identity is being defined during the design process. The design is developed within a spatial, material and chronological context. Water_canal and river Water_lake and sea Waterscapes are constructed water features in urban public plazas and parks designed to harness both the hydrologic cycle and the aesthetic qualities of water. They celebrate the role of water in our urban landscapes and allow people to experience the qualities of water through touch, sight and sound. Landscape architecture of the city_re-interpretation of the park Pattern, and relationship, proportion, identity, exchange. The area generally unlimited - limited Space through the dimension sizes, distances, intervals, layers Space through the amorphous form, symmetrical, open, closed Space through moving passage, crossing, speed, direction, way Shaping the idea of space: idea, concept, theory, mental image, imagination - the flow of ideas, the discovery Elements of thinking about space and no_ facts, features and no_, security seals and no_identification, associative elements Ways of thinking about space: reasonable, intuitive, speculative, documentary, negating Results of thinking about space conclusion_conviction, the presumption _attitude, finding _creativity, knowledge_ implementation Contemporary re-interpretation_pavilion _ light, sound Pavilions,_small structure, showing the unity of places and events. These structures reveal the attraction, creating atmosphere and transform the light giving the space a character that did not previously have. Tradition transformed into modernity not only content and form, but also design and usability is summed up in a small structure _ pavilion. The rhetoric of contemporary urban landscape The growth of cities: landscape architecture replenishment of cities_planning Although finding a common interest in the landscape, artists, writers, designers, architects and geographers can not accept the common definition, nor agree on its place in the research. Landscape is used differently, but it serves everyone. Landscape Urbanism wants to find out what is happening in the urban landscape. Landscape Urbanism is a concept design and planning in the urban landscape. Spaces_reshaping urban landscape architecture Artform - transform the interest focuses on the deserted area, the obsolete and unproductive spaces and buildings, often undefined and without limits, the place to which the French expression; terrain vague_void, unclear, without content. Areas_ urban landscape design Bridging the Gap Void_emptiness_nonexistence, the lacking of physical and mental content Phenomenological gap can be defined as a place that is charact. by its context and history, which is now outside of urban functions, growth and transformation (such as natural disasters, wars, etc.). Phenomenological gap is an individual event in the city, it builds itself. Functional changes _ altered ways of using the city. Understanding the gap, not only in terms of materiality, but also the location and history are necessary when trying to (re) integration of this type of functionality gaps in the urban space. Physical geographic features such as mountains, rivers and valleys are generated void in the urban space. City areas_movement and connectivity – promenade, avenue, pedestrian streets, bridges Walkspace_ we move through the space: walkscape_we look at the space City areas_adaptive reuse projects_new use After the abandonment of the facilities, the unique park-like setting offers an historic opportunity for the city. Open spaces and cultural events are an important early catalyst in bringing the city back to life. But the long-term vision is to create an outstanding park for the 21st c. Attractions and bizarre / awards Focus on the tension between the temporary and the permanent, between planned and experiential. Periodically review the relationship between the attempts to create order in the city through long-term plans and the everyday chaos that is the product of that process. The goal is to encourage spaces and situations that function within the state of temporality, space and draw energy from its flexibility.</p>
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<p>Tourism in Urban and Physical Planning / Turizam u urbanističkom i prostornom planiranju</p> <p>Associate Prof. Krunoslav Šmit, Ph.D.</p> <p>Winter – elective course</p> <p>Croatian / English</p> <p>15 lectures/sem</p> <p>1.5 ECTS</p> <p>Contact: Associate Prof. Krunoslav Šmit, Ph.D. krunoslav.smit@arhitekt.hr office no.: 425 / 4th floor</p>	<p>Dynamic development of tourism and recreation requires a constant process of knowledge acquisition about the changing forms of tourism in the context of environmental protection. The course content encompasses general and specialist knowledge about physical and urban planning as well as tourist area development, tourist facilities and tourist and recreational centres. The course focuses on drawing up urban plans of tourist areas (zones). It encompasses an overview and a comment on spatial standards and starting points in planning – programming, dimensioning and design for tourism and recreation purposes.</p>	<p>This course aims to provide advanced in-depth knowledge about urban planning requirements for tourist and recreational purposes. Students acquire knowledge about programming and planning tourist and recreational areas.</p>	<ol style="list-style-type: none"> 1. Introduction 2. Tourism in space 3. Coastal region 4. Mountain region 5. Rural area 6. Urban area 7. Protected nature 8. Urban and physical planning 9. Standards for construction and development 10. Selected topics – coastal region 11. Selected topics – mountain region 12. Selected topics – rural area 13. Selected topics – urban area 14. Selected topics – protected nature
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<p>Urban Transportation Design Issues / Urbanistički aspekti prometa</p> <p>Prof. Nenad Lipovac, Ph.D.</p> <p>Winter – elective course</p> <p>English</p> <p>15 lectures/sem</p> <p>1.5 ECTS</p>	<p>The Course is dealing with different traffic and transportation planning issues and their correlation within a City. Quality of good planning and positioning of traffic corridors within a city is of a crucial importance and therefore it has to be implemented into the city-planning process. Through the scope and evaluation of different examples from Croatia and other countries students will get to know the "Ups-and-Downs, Good and Bad" in traffic and transportation planning</p>	<p>Through this Course, students will deepened their knowledge into the topic of how and why the planning of Traffic and Transportation within a City is of a crucial importance in Urban Planning. It is supposed to help in understanding that every architectural artifact needs appropriate and easy recognizable vehicle/vessel and pedestrian access to be able to use it in full. Through seminar topics, students will face the traffic problems of some sites and suggest their improvements within the scoped Place. The knowledge they gain is supposed to help the students in their student and later-to-come professional work.</p>	<p>Lecture 1: HISTORY OF TRAFFIC AND TRANSPORTATION -part I Lecture 2: HISTORY OF TRAFFIC AND TRANSPORTATION -part II Lecture 3: CITY AND THE STREET Lecture 4: STREET JUNCTIONS Lecture 5: PARKING WITHIN STREETS Lecture 6: PARKING OUT OF STREETS Lecture 7: PUBLIC PARKING AND GARAGES Lecture 8: DESIGN OF STREET TRAFFIC CALMING ISSUES Lecture 9: BIKE-LANES Lecture 10: PUBLIC TRANSPORTATION Lecture 11: RAIL TRAFFIC SYSTEM WITHIN A CITY Lecture 12: RIVER, SEA AND AIR TRAFFIC WITHIN A CITY Lecture 13: CONNECTION OF CITY AND REGIONAL TRAFFIC SYSTEMS Lecture 14: Discussion Lecture 15: Seminar and presentation issues</p>
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<p>Project Domain / Granice projekta</p> <p>Assist.Prof. Krunoslav Ivanišin</p> <p>Winter – elective course</p> <p>English</p> <p>15 lectures/sem</p> <p>1.5 ECTS</p> <p>Contact: Assist. Prof. Krunoslav Ivanišin kivanisin@arhitekt.hr office no.: 3rd floor</p>	<p>The way of looking, the way of drawing, and the way of building are causally related. PROJECT DOMAIN is drawn with a sequence of (often unnecessarily incomprehensible) notions, paradigms and epistemologies surrounding the architectural practice and the discourse on architecture. Instead of imposing ready-made design schemes, the intention of this course is to proof logically the existence of the substantial and multidirectional relation: TEXT – IMAGE – PROJECT, through the proposed sequence of diachronically contextualized readings: from the tractates and essays on architecture, architectural travelogues, and exemplary critics of architectural projects, to the excerpts from philosophical treatises, literary writings, or scientific papers directly or indirectly related to architecture.</p> <p>The introductory definition of basic notions around the project, including the project itself, is followed by the elaborate discussion of the relation between nature and architecture in the context of the fundamental ontologies about the purpose of humans in this world. Those relations are architecturally expressed in various notions of place, space and non-place, in the actual facts of horizon and vertical axis, and in the phenomena of natural and artificial growth, and gravitation. The subsequent discussion about the picturesque and the sublime, their origins and their applicability in the architectural practice and the discourse on architecture, leads to the hierarchically substantiated system of specifically architectural perspective on things, dependent on the natural order and the level of the technological sophistication: from the levelled view, the upwards view and the appropriation of the horizon, to the elevated, disinterested view from above, which expands the domain of architecture, from the object scale in the immediate physical context onto the geographic scales of landform and landscape. The logical arguments about the autonomy and about the essential materiality of architecture are derived in the conclusion, following the same scale sequence.</p> <p>Students are expected to possess a certain experience in architectural practice, at least basic knowledge of history and theory of architecture, and normal ambition to critically reflect upon their future profession. The lectures and seminars are in English.</p>	<p>While delimiting the notions around the architectural project, the aim of the lectures and the parallel seminar is to teach the students how to reflect critically upon those notions and, notwithstanding the evanescent meanings and the associated concepts, how to understand and logically argument their own and other projects in pictorial and verbal ways. While attending the lectures, contributing to the discussions, and analysing and presenting the referential project, the student will start to develop his/ her own catalogue of epistemologies and paradigms, eventually useful in his/ her architectural practice.</p> <p>The knowledge acquired with this course will enhance the general architectural skills of the students. In pragmatic, professional terms, it will also help them to pictorially represent and verbalize their projects, expanding thus the limits of the architectural project within the real context of its ever decreasing circumference.</p>	<p>Syllabus</p> <ol style="list-style-type: none"> 1. INTRODUCTION Way of looking, way of drawing, way of building. Idea about the world, idea about architecture. Rational and pseudo-rational (logical and pseudo-logical) reasons and arguments. Propositions and concepts. Verbal and non-verbal thinking; (digital) description and (mental) model. PROJECT; preliminary definition. 2. Seminar I: Catalogues, paradigms, epistemologies. Selection of the referential project for each student to analyze during the semester and represent pictorially and verbally at the end of the course. 3. ELEMENTS: ARCHITECTURE AND NATURE Natural elements, ELEMENTS OF ARCHITECTURE. Natural growth, gravity, Newtonian natural science. Architecture and nature, architecture and technology. The unstable balance. HEARTH. AEDES. Vitruvius: Second Book ; Gottfried Semper: Die vier Elemente der Baukunst (excerpt) ; Reynier Banham: An Ecology for Architecture ; Iñaki Abalos: Thermodynamic Beauty ; Krunoslav Ivanišin: Beginnings 4. FORM: PRESENCE AND SUBSTANCE Classical philosophy: the visible world and the world of forms. Monotheistic idea about the universe: natural materialism, limits of human perception. The fifth element. SPACE. Alberti. PERSPECTIVE. Kant: Formalism, disinterested judgement, nonconceptual nature of architecture. TIME-SPACE. Formalism in modern architectural theory. TEMPLUM. CAVE. TENT. Plato: Metaphor of the Cave (excerpt from Republic) ; Immanuel Kant: Critique of Aesthetic Judgement (excerpt) ; Martin Heidegger: The Origin of the Work of Art (excerpt) ; Siegfried Giedion: Jørn Utzon and the Third Generation 5. PLACE [SPACE] NON-PLACE Nomadic vs. sedentary culture; Polytheistic and Pantheistic vs. Monotheistic idea about nature. CONCEPT and KONTEXT. Spirit of place. Spirit of time. Scale and size. ORIGO. FORREST. MOUNTAIN. DESERT. Christian Norberg Schulz: Natural Place ; Rem Koolhaas: Bigness of the Problem of Large ; Michael Jacob: On Mountains 6. Seminar II: Image and project. Pictorial representation of the referential project. 7. SENTIMENTAL JOURNEYS Exceptional and ordinary; Permanent and transient. Journeys and discoveries. Erfindung vs. Empfindung. LANDSCAPE. RUIN. MACHINE. Le Corbusier: Voyage d'Orient (excerpt) ; Aldo van Eyck: Dogon ; Colin Rowe and John Hejduk: Lockhart, Texas ; Alison Smithson: AS in DS (excerpt) ; Wim Wenders: To Shoot Pictures 8. THE PICTURESQUE Invention of the picturesque: gardening techniques, landscape vs. architecture. Infrastructural corridors and agricultural patterns. COLLAGE. Geological and archaeological layers. Geomorphic and cultural time. GARDEN. ARCHAEOLOGICAL TELL. Zvonimir Radić: Umjetnost oblikovanja ; Hans Hollein: Alles ist Architektur ; Robert Smithson: A tour of the Monuments of
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Students are required to read at least two out of the proposed short texts per lecture. Those hardly accessible will be issued as a script.

Passaic, New Jersey; Strata. A Geophotographic Fiction
9. THE SUBLIME
Philosophical substance: Burke and Kant. Mathematically and dynamically sublime. Naturally and technologically sublime. Detached point of vision. Architectural limits of the sublime. WINDOW. TELESCOPE. MICROSCOPE.
John Ruskin: The Lamp of Power ; Ayn Rand: The Fountainhead (excerpt) ; Slavoj Žižek: Architectural Parallax (excerpt)
10. HORIZONTAL WORLD
View. Strategic observation. Cartesian coordinates. ISLAMIC MINIATURE. AXONOMETRIC PROJECTION. MILITARY PERSPECTIVE. Appropriation of the horizon. Calligraphy, art of weaving, art of building. MAP. CARPET. AXIS MUNDI.
Curzio Malaparte: La pelle (excerpt) ; Orhan Pamuk: Painting and Time ; Stan Allen: Field Condition ; Le Corbusier: Mise au point (excerpt)
11. A VIEW FROM ABOVE: TERRITORIAL SCOPE OF ARCHITECTURE
Bergson and Braudel: Longue durée. Geopolitical perspective. Architectural criteria extended on the geographic scale. LANDFORM. PLATFORM. BUNKER.
Jørn Utzon: Platforms and Plateaus ; Vittorio Gregotti: La forma del territorio ; Jorge Luis Borges: Arrival ; Fernand Braudel: La Méditerranée et le monde méditerranéen à l'époque de Philippe II (excerpt) ; Aleksandar Flaker: Star-like Cities
12. Seminar III: Text and project. Preliminary presentation of the images. Verbalization of the referential project.
13. MATERIAL CONSCIOUSNESS
Work. Material. Materialism. Material presence. Sensual reality. Materiality of architecture. URBAN PLAN.
Richard Sennett: Material Consciousness ; Juhani Palasmaa: Hapticity and Time ; Peter Blake: Le Corbusier, Architecture and Form (excerpt)
14. AUTONOMY OF ARCHITECTURE
Architects and projects.
Mies van der Rohe: Notes for a lecture, June 19th 1924 ; Aldo Rossi: Autonomia dei fatti urbani ; Nikola Dobrović: Dubrovnik as a Testimony to Urban Formation
15. Seminar IV: Final presentation by students: TEXT – IMAGE – PROJECT.

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<p>High-tech Architecture / Visokotehnoška arhitektura</p> <p>Prof. Ljubomir Mišćević</p> <p>Winter – elective course</p> <p>Croatian / English</p> <p>15 lectures/sem</p> <p>1.0 ECTS</p> <p>Contact: Prof. Ljubomir Mišćević ljubomir.miscevic@arhitekt.hr office no.: 327 / 3rd floor</p>	<p>The course focuses on a comprehensive definition of concepts, historical development of the topic, contemporary development of high technologies relevant to architectural theory and practice, its social context and implications. Integration of architectural and urban planning concepts and high-tech materials and systems. Recent Croatian and world projects and realizations are presented and analyzed. Emphasis is put on architectural concept and design in the context of investments, building technology and sustainability</p>	<p>Acquisition of advanced knowledge about new materials, systems and structures making the concept, design and construction of high-technology architecture possible. The continuous development of architectural concepts and building technology in the context of rapid developments in the world of inventions and their applications requires a constant effort in keeping up to date with the latest achievements in this field.</p>	<ol style="list-style-type: none"> 1. BASIC DEFINITION OF CONCEPTS Technique, production, technology, industrial and information age, high-tech 2. HISTORICAL DEVELOPMENT OF NEW AGE HIGH TECHNOLOGY Global situation and development strategies. Conventional and renewable energy sources and their impact on environmental protection and improvement, sustainable development approach 3. ECO-TECH and ENVIRONMENT Eco-friendly concept, use of natural materials, renewable sources of energy, ecological preconditions relevant to architectural and urban planning design and physical planning, destruction, recycling materials architecture 4. HISTORICAL DEVELOPMENT AND MODERN TECHNOLOGY Using solar energy (active and passive), technology, contemporary achievements 5. FROM CRYSTAL PALACE TO CRYSTAL CATHEDRAL Joseph Paxton - Philip Johnson 6. FUTURISTIC ARCHITECTURE From Boullée and Ledoux to Leonidov and Sant'Elia, futuristic architecture of the second half of 20th century, contemporary futuristic concepts (Norman Foster, Toyo Ito, Future Systems) 7. CONSTRUCTIVISM, STRUCTURALISM, HIGH-TECH Theoretical impacts, aesthetics, visual arts 8. BIOCLIMATIC HIGH-TECH Microclimate, geographical features, insolation, topographic and other natural and man-made architectural, construction and installation systems 9. EN-TECH ENERGY AND HIGH-TECH Power-supply system and high-tech requirements, definitions, development, indicators, Croatian and EU standards, energy standard of a <i>passive house</i>, high-technology and high energy-efficiency, global influences and effects 10. HIGH-TECH MATERIALS AND SYSTEMS Special types: geosolar, self-sufficient, "intelligent" house 11. HIGH-TECH HIGH-RISE BUILDINGS skyscrapers, projects, realizations; Croatia, Europe, the world 12. TRAFFIC AND POWER-SUPPLY FACILITIES bridges, viaducts, tunnels, roads, dams, power plants, impact on the environment, high-tech prevention of harmful influences 13. TIMBER HIGH-TECH ARCHITECTURE Natural materials and high technology, timber structures, systems and design, eco-friendly approach 14. EXTREME ARCHITECTURE Recent concepts, extreme high-tech concepts, projects and realizations 15. VIRTUAL HIGH-TECH Computer simulations, virtual architecture and environment
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<p>Buildings for Work / Zgrade za rad</p> <p>Prof. Vesna Mikić, Ph.D.</p> <p>Winter – elective course</p> <p>Croatian / English</p> <p>15 lectures/sem</p> <p>1.0 ECTS</p> <p>Contact: Prof. Vesna Mikić, Ph.D. vesna.mikic@arhitekt.hr office no.: Zavod za arhitekturu / Institute for Arch.</p>	<p>A specific body of knowledge and skills in architecture of multipurpose business buildings is presented. It explores different influences, ranging from technical to social, which are manifested in architectural artefacts. In the context of climate changes, economic crises and social transformations, the course focuses on the relationships between technology, design and society which increasingly condition the métier of the architectural idiom of business buildings.</p>	<p>The course draws upon recent theories which describe from various perspectives the influences exerted on the architecture of multipurpose buildings. The influences of the new knowledge are described as “third industrial revolution”, “second modern age”, “information society” or “knowledge society” where surplus value is not generated by capital but rather by productivity and innovation. Both these notions, productivity and innovation, imply the application of knowledge on work activities. The work has changed: it has become more complex and it points to an ever growing need for a swift and comprehensive exchange of knowledge via information and communication technologies, especially via spatial reflections of these processes. The organisation of knowledge entails a preliminary structural analysis of the notion of work and consequently of the notion of the work-intended buildings. The third whole explains the structure and the method of designing such spatial environments. The course specifically focuses on the issues of identity and branding of the new manufacturing centres, on the new work environments, redeveloping of industrial areas and on the matters of productivity and innovation in work environment.</p>	<p>1. INTRODUCTORY LECTURE 2. THEORETICAL SETTINGS OF SUSTAINABILITY IN BUSINESS BUILDING DESIGNS 3. NEW TYPOLOGY OF WORK ENVIRONMENT 4. LIFE CYCLES AND SUSTAINABILITY OF PUBLIC BUILDINGS 5. URBAN LANDSCAPE IN PUBLIC-PURPOSE PROJECTS 6. ARCHITECTURE OF MODERN AIRPORTS 7. COMMUNICATION PLATFORMS OF CORPORATIONS 8. POSTINDUSTRIAL LANDSCAPE OF BUSINESS BUILDINGS ARCHITECTURE 9. ARCHITECTURAL TRENDS IN THE 3rd MILLENIUM WORLD FAIRS 10. ARCHITECTURAL COMPOUNDS OF MODERN FAIRS 11. CAMPUSES 12. BUSINESS AND THEME PARKS IN INDUSTRIAL AND LEISURE ZONES 13. DOCKLANDS AND WATERFRONT DEVELOPEMENT 14. MODERN METHODOLOGICAL EXPERIENCES IN DESIGNING COMPLEX PUBLIC-PURPOSE BUILDINGS 15. ANTICIPATING TRENDS IN MULTIPURPOSE BUSINESS BUILDINGS</p>
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History of making American cities by the end of 19th century /
Američki grad do kraja 19. stoljeća

Prof. Nenad Lipovac, Ph.D.

Summer – elective course

English

15 lectures/sem

1.5 ECTS

Contact:

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The aim of the course is to bring the image of planning and creation of Americas cities from prehistory until the end of the 19th century

The topic of this Course is a research of history of making American cities (starting with prehistoric ones and ending by the cities at the end of 19th century) taking into account the area of North and Mesoamerica. North American continent and the settlement development issues today are rarely experienced as something of a great cultural and scientific value. The most common consideration of the American settlement is through the vision of the grid-system introduced by the end of 18th century. Even today, very few scholars would have the knowledge of the settlements built by the Native Americans (long before the Europeans arrived). These settlements represent real built masterpieces, planned according to the knowledge gained through observing the astronomical events. First contemporary cities were planned and built according to the several very important, and so different from European counterparts, legislation acts that served as the most influenced guides in creating American cities.

1. Peopling of North American Continent 2. Prehistoric Settlements of the Southeast (part I) 3. Prehistoric Settlements of the Southeast (part II) 4. Prehistoric Settlements of the Southwest - Pueblos (part I) 5. Prehistoric Settlements of the Southwest - Pueblos (part II) 6. Maya and Aztec Settlements (part I) 7. Maya and Aztec Settlements (part II) 8. Inkas Settlements 9. 16th Century European Settlements and their Influence upon American Settlements 10. European Settlers and their first Settlements 11. Settlements by the End of 18th Century 12. First Legislation Act for Settlement Planning 13. Settlement/City History and Development Examples (part I) 14. Settlement/City History and Development Examples (part II) 15. Discussion About Seminar

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<p>Architectonics of Light / Arhitektonika svjetla</p> <p>Assist. Prof. Neda Cilinger</p> <p>Summer – elective course</p> <p>Croatian / English</p> <p>15 lectures/sem</p> <p>1.0 ECTS</p> <p>Contact: Assist. Prof. Neda Cilinger neda.cilinger@arhitekt.hr office no.: 412 / 4th floor</p>	<p>The course aims to help students understand the role of light in architecture and teach them how to incorporate it in their projects in the context of functional disposition and design. The role of light needs to be viewed in its relationship with the form, colour, texture, atmosphere and psychological requirements.</p>	<p>The aim is to provide students with advanced knowledge and skills in the design of light in architecture. Defining the concept of light, parameters and criteria for a high-quality design through a synergy of perception and creativity.</p>	<ol style="list-style-type: none"> 1. Introduction – what is Light? 2. Senses – perception of space – creation with light 3. Emotion and Light – concept structure: sense of sight-perception-feeling-emotion 4. Colour and Light 5. Colours of Light 6. Light – Shadow 7. Texture and Light 8. Atmosphere of space – concept structure 9. The concept of light in philosophy and art 10. Daylight 11. Artificial light 12. Technical light elements in design and luminaires 13. Criteria for a high-quality design 1; analysis – creativity – responsibility 14. Criteria for a high-quality design 2; comfort-health-better world 15. Guest – Ranko Skansi, M.Sc., field trip, laboratory of light
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Drawing and Architectural Graphics / Crtanje i arhitektonska grafika Prof. Renata Waldgoni Summer – elective course Croatian / English 15 lectures/sem 1.0 ECTS	Linking cultural aspect with drawing skills. Strong bond between creation and expression (representation).	Knowledge consolidation. Supporting individual visual expression..	<ol style="list-style-type: none"> 1. Historical development, general information, significance, illusion, understanding, personality 2. Spaces in various scales (from urbanism to interior design, figure) 3. Two-dimensional representations of a horizontal plane 4. Two-dimensional representations of a vertical plane 5.-6. Three-dimensional representations 7. -9. Different approaches to a representation depending on art discipline 10.-12. Architect's expression and representation technique 13.-15. Architectural work in the environment and its representation (sketch on field trips, a study) Home tasks with corrections before submission every other week. A notebook is obligatory where students take notes of lectures, tasks, their personal observations, texts, drawings, reproductions. A sketchbook (no.3) for field trip drawings and sketches and drawing studies at home.
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English for Architecture 3 / Engleski jezik za arhitekturu III Senior lecturer Neda Borić, Ph.D. Summer – elective course English 15 lectures/sem 1.0 ECTS	The course focuses on the acquisition of specialist terminology, developing reading skills, improving knowledge of general English vocabulary, developing written and oral communication skills, presentation skills, business communication skills in architecture. Course materials are based on a selection of authentic texts from various sources with architecture and urban planning-based topics. Topics: city - a human habitat, famous architects, sustainable architecture, business communication in architecture	Students are expected to improve their oral and written competence in English for architecture in order to be able to meet the requirements of their academic education and future professional work. Knowledge and skills acquired should help them in their future professional careers and allow them to integrate more successfully into the international business, professional and scientific community within the architectural profession. Knowledge and skills: developing reading skills, developing oral competence, improving knowledge of specialist vocabulary, presentation skills, business communication skills.	1. INTRODUCTION 2. CITY - A HUMAN HABITAT (part I) 3. CITY - A HUMAN HABITAT (part II) 4. SUSTAINABLE ARCHITECTURE (part I) 5. SUSTAINABLE ARCHITECTURE (part II) 6. FRANK GEHRY - GUGGENHEIM MUSEUM, Bilbao (part I) 7. FRANK GEHRY (part II) 8. LE CORBUSIER (part I) 9. LE CORBUSIER (part II) 10. BUSINESS COMMUNICATION in architecture
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Contact:
Senior lecturer Neda Borić,
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nboric@arhitekt.hr
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<p>Geometry in Architecture / Geometrija u arhitekturi</p> <p>Assist. Prof. Marija Šimić Horvath, Ph.D.</p> <p>Summer – elective course</p> <p>English</p> <p>15 lectures/sem</p> <p>1.5 ECTS</p>	<p>The course covers geometry – based construction- graphic procedures by which objects in space and their relations are depicted in a plane, either by classical techniques or supported by CAD software. Special emphasis is placed upon studying architectural examples. This is architectural journey through geometry. Main topics are: axonometric perspective, perspective with inclined axis of view, architectural photogrametry, reflections in perspective, selected types of surfaces frequently used in architecture.</p>	<p>Examples based on architectural practice challenge students to ask “geometric questions” which are far away from material studied in required course Descriptive geometry and perspective. In that sense the course covers thesis suitable for application later in architectural practice. After the course is completed the student is able to measure in perspective with horizontal axis of view and represent architectural objects by the method of perspective with inclined axis of view. He can resolve different types of problems concerning architectural photogrametry. Further on, they are introduced to the application of rotating surface in building construction.</p>	<ol style="list-style-type: none"> 1. Axonometric perspective with horizontal axis of view 2. Measuring in perspective with horizontal axis of view 3. Perspective with inclined axis of view (bird's eye and worm's eye view) 4. Measuring in perspective with inclined axis of view 5. Architectural photogrametry – in general 6. Reconstruction of facades based on the photo taken from bird's eye and worm's eye view 7. Reconstruction of the interior based on the photo 8. Examples of facade reconstructions based on the photo taken from the horizontal axis of view 9. Reflections in perspective 10. Reflecting surface vertical and parallel to picture plane 11. Reflecting surface vertical and inclined to picture plane 12. Rotating surfaces (ellipsoid, paraboloid, hyperboloid of one nappe, hyperboloid of two nappe, torus) 13. Rotating surfaces (application in building construction, water – tower R. Morandi, Livorno, Italy) 14. Ruled surfaces – formation, categorization (chatedral Sacre-Coeur / Alžir, P. Herbe, J. le Couteu, R. Sarger) 15. Construction analysis of hyperbolic paraboloid exemplified by built structures (HP surface at pavilion of Zagreb fair)
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Contact:
Assist. Prof. Marija Šimić
Horvath, Ph.D.
marija.simic@arhitekt.hr
office no.: 65 / ground floor

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Industrial Archaeology / Industrijska arheologija Assist. Prof. Zrinka Barisic Marenic, Ph.D. Summer – elective course English 15 lectures/sem 1.5 ECTS Contact: Assist. Prof. Zrinka Barisic Marenic, Ph.D. zrinka.barisic@arhitekt.hr office no.: 2 / -I floor	The course deals with industrial heritage(factories and industrial ares) and technical monuments in wider sense(railway stations, markets,etc) with the purpose of establishing this category of architectural heritage in the context of social and technical history as well as in the architectural and urban planning context. The regeneration and re-use of the wider category of technical monuments heritage is dealt with in the greatest part of lectures.	Acquaintance with worldwide and Croatian industrial heritage, and the examples of re-use of industrial heritage as a basis for working on re-use projects for these buildings.	<ol style="list-style-type: none"> 1. Industrial heritage, organization of the subject, its definition and methodology. Affirmation of interdisciplinary approach. 2. Historical framework. Historical development of industrialization in the world with special reference to Great Britain as the home country of the First Industrial Revolution. 3. Historical outline of the development of industry in Croatia. Reasons for its late appearance and introduction of only particular types of industry. 4. Technical culture buildings. Definition and the subject scope. Problems linked to location, spatial and structural principles.Evaluation. 5. Industrial heritage worldwide. Representative examples of technical monuments, their conservation and presentation. 6. Industrial heritage in Croatia. Representative examples (Zagreb, Rijeka, Rovinj, Osijek, Karlovac, Zadar, Split ...). 7. Regeneration and re-use of industrial heritage. Aims and principles of re-use, its methodology, socio-economic aspects and re-use selection criteria. 8. A historical outline of industrial heritage re-use. World (St. Catherine Docks, London; Cannery, San Francisco...) and Croatian re-use examples (Gliptoteka, Zagreb). 9. Regeneration of industrial zones. Industrial- archaeological parks. 10. Re-use of industrial heritage for housing purposes. Analysis and critical review of representative examples. 11. Re-use of industrial heritage for commercial purposes. Analysis and critical review of representative examples. 12. Re-use of industrial heritage for mixed purposes. 13. Re- use of industrial heritage for cultural purposes. Analysis and critical review of representative examples. 14. Re-use of industrial heritage for museums and galleries. Analysis and critical review of representative examples. 15. Bright future? Prospects.
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Mathematical Structures

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Matematičke strukture

Lecturer Stipek Vidak, Ph.D

Summer – elective course

Croatian / English

15 lectures/sem

1.0 ECTS

Contact:

Lecturer Stipe Vidak, Ph.D

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Analiza i kultiviranje intuitivnog poimanja Euklidovog prostora. Kombinacija razvijanja mašte i egzaktnog pristupa problematici. Transformacije figura (skupova točaka) homeomorfizmima koji dozvoljavaju više slobode od transformacija kongruencijama.

1. Skupovi. Funkcije
2. Euklidov prostor. Metrika u Euklidovom prostoru.
3. Nепrekidne funkcije. Homeomorfizam
4. Figure u euklidovom prostoru. Homeomorfnost figura
5. Topološke invarijante
6. Krivulje
7. Topološke invarijante krivulja
8. Pojam grafa
9. Eulerov teorem za poliedre. Plohe
- 10 Eulerova karakteristika
11. Moebiusova traka. Ručka. Lijepljenje ploha
12. Zatvorene plohe. Teorem o klasifikaciji zatvorenih ploha. Kleinova boca
13. Metrički prostor. Topološka struktura. Topolški prostor.
Projektivna ravnina
14. Induktivna dimenzija figure
15. Dimenzija pokrivanja figure

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Building Structures - Methods and Practice
/
Metode i praksa nosivih konstrukcija u arhitekturi

Associate Prof. Miljenko Haiman, Ph.D.

Summer – elective course

Croatian / English

15 lectures/sem

1.0 ECTS

Contact:
Associate Prof. Miljenko Haiman, Ph.D.
nhaiman@arhitekt.hr
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1. Constructions made of iron, wrought iron, and steel in the 19th and the 20th century, review of details and force transmission
2. Skeleton construction in steel, significant buildings, details
3. Superstructure and sustainable construction in steel, examples, flow of forces, details, dimensions
4. Steel and glass facades, spatial steel structures realized
5. Architects and architecture of steel bridge structures
6. Residential buildings made in steel worldwide and in Croatia
7. Composite structures of steel and concrete or wood-concrete. Possible spans, combinations and dimensions
8. Contemporary wooden structures worldwide and in general, recommended dimensions
9. Contemporary wooden structures and state-of-the-art detail-solving possibilities (continued)
10. Spatial wooden structures, mesh structures, geodesic domes, tensegrity wood-steel structures
11. Wooden structures of sports facilities, public and religious structures in our country and worldwide
12. Timber structures in recent housing construction, possibilities, new products, combinations, dimensions
13. Suspended large-span structures
14. Inflated structures and air-supported structures
15. Combinations of constructions made of steel, wood and inflated cushions, examples

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Buildings for Work / Zgrade za rad Prof. Vesna Mikić, Ph.D. Summer – elective course Croatian / English 15 lectures/sem 1.0 ECTS Contact: Prof. Vesna Mikić, Ph.D. vesna.mikic@arhitekt.hr office no.: Zavod za arhitekturu / Institute for Arch.	A specific body of knowledge and skills in architecture of multipurpose business buildings is presented. It explores different influences, ranging from technical to social, which are manifested in architectural artefacts. In the context of climate changes, economic crises and social transformations, the course focuses on the relationships between technology, design and society which increasingly condition the métier of the architectural idiom of business buildings.	The course draws upon recent theories which describe from various perspectives the influences exerted on the architecture of multipurpose buildings. The influences of the new knowledge are described as “third industrial revolution”, “second modern age”, “information society” or “knowledge society” where surplus value is not generated by capital but rather by productivity and innovation. Both these notions, productivity and innovation, imply the application of knowledge on work activities. The work has changed: it has become more complex and it points to an ever growing need for a swift and comprehensive exchange of knowledge via information and communication technologies, especially via spatial reflections of these processes. The organisation of knowledge entails a preliminary structural analysis of the notion of work and consequently of the notion of the work-intended buildings. The third whole explains the structure and the method of designing such spatial environments. The course specifically focuses on the issues of identity and branding of the new manufacturing centres, on the new work environments, redeveloping of industrial areas and on the matters of productivity and innovation in work environment.	1. INTRODUCTORY LECTURE 2. THEORETICAL SETTINGS OF SUSTAINABILITY IN BUSINESS BUILDING DESIGNS 3. NEW TYPOLOGY OF WORK ENVIRONMENT 4. LIFE CYCLES AND SUSTAINABILITY OF PUBLIC BUILDINGS 5. URBAN LANDSCAPE IN PUBLIC-PURPOSE PROJECTS 6. ARCHITECTURE OF MODERN AIRPORTS 7. COMMUNICATION PLATFORMS OF CORPORATIONS 8. POSTINDUSTRIAL LANDSCAPE OF BUSINESS BUILDINGS ARCHITECTURE 9. ARCHITECTURAL TRENDS IN THE 3rd MILLENIUM WORLD FAIRS 10. ARCHITECTURAL COMPOUNDS OF MODERN FAIRS 11. CAMPUSES 12. BUSINESS AND THEME PARKS IN INDUSTRIAL AND LEISURE ZONES 13. DOCKLANDS AND WATERFRONT DEVELOPEMENT 14. MODERN METHODOLOGICAL EXPERIENCES IN DESIGNING COMPLEX PUBLIC-PURPOSE BUILDINGS 15. ANTICIPATING TRENDS IN MULTIPURPOSE BUSINESS BUILDINGS
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Language in which majority of courses are taught is Croatian. Each course offers consultative teaching in English. Some courses offer consultive teaching in Italian, German, French or Spanish, as well. Only up to 20% of all offered courses are taught in English – it is impossible to make 30 ECTS only in English!