



University of Split

Faculty of Civil Engineering, Architecture and
Geodesy

COURSE PROGRAMME FOR EXCHANGE STUDENTS

Architecture and Urban Planning

Split, January 2024

Year 1, 1st semester (Autum / October 2023 - January 2024)*

Code	Course	Lecturer	Contact Hours Lectures	Contact Hours Studio work / Tutorials	ECTS
GAS711	Graduate Design Studio 1	Prof. N. Kezić Asst. prof. J. Kalajžić	30	90	15
GAV711	Protection and Restoration of Architectural Heritage Studio 1	Prof. K. Marasović, PhD Asst. Prof. S. Perojević, PhD	30	30	5
GAU711	Research in Urban Planning	Asst. Prof. A. Šverko, PhD	15	15	2
GAU713	Spatial Planning 1	Asst. prof. H. Bartulović, PhD	30	-	2
GAL711	Project Management	Assoc. Prof. N. Jajac, PhD	30	15	2
	Elective subjects				2

Year 2, 1st semester (Autum / October 2023 - January 2024)*

Code	Course	Lecturer	Contact Hours Lectures	Contact Hours Studio work / Tutorials	ECTS
GAS811	Graduate Design Studio 3	Assoc. Prof. S. Randić	30	90	15
GAS812	Interior Design Studio	Prof. N. Kezić	30	30	5
GAT811	Theory of Architecture	Assist. Prof. S. Matijević Barčot, PhD	30	0	2
GAJ811	Integrated Environmental Protection	Assist. Prof. H. Bartulović, PhD	30	0	2
	Elective subjects				2

* Erasmus students have the option to select any courses offered during the Autumn Semester (1st and 2nd Year).

Year 1, 2st semester (Spring / March 2024 - June 2024)

Code	Course	Lecturer	Contact Hours Lectures	Contact Hours Studio work / Tutorials	ECTS
GAS712	Graduate Design Studio 2	Assoc. Prof. T. Plejić Assoc. Prof. D. Peračić	30	90	15
GAT712	20th Century Croatian Architecture	Prof. D. Tušek, PhD	30	-	2
GAV712	Protection and Restoration of Architectural Heritage Studio 2	Prof. K. Marasović, PhD Asst. Prof. S. Perojević, PhD	30	30	5
GAU712	Urban Design	Asst. Prof. H. Bartulović, PhD	15	15	2
GAU714	Spatial Planning 2	Assist. Prof. A. Grgić, PhD	30	-	2
GAL711	Construction Investment Planning	Assoc. Prof. N. Jajac, PhD	30	-	2
	Elective subjects				2
	Total				30

Year 2, 2st semester (Spring / March 2024 - June 2024)*

Code	Course	Lecturer	Contact Hours Lectures	Contact Hours Studio work / Tutorials	ECTS
GAX911	Master thesis				30

List of elective subjects available to Erasmus students

Code	Course	Lecturer	Semester	Contact Hours Studio work / Tutorials	ECTS
GAS714	Professional Practice	Prof. Neno Kezić	Autumn		2
GAU717	Complex Architectural and Urban-design Structures	Prof. Dario Gabrić	Autumn and Spring	30	2

Course title	Graduate Design Studio 1	
Course code	GAS712	
Type of course	Mandatory course / Lectures and studio work	
Year of study	I	Semester 1 Autumn
ECTS (Number of credits allocated)	15.0	
Name of lecturer	Prof. Neno Kezić Asst. prof. Jakša Kalajžić Contacts: nenokezic@gradst.hr , jaksa.kalajzic@gradst.hr	
Brief description of the course	The agenda of this studio takes on a complex architectural assignment on a specific location, with a high level of urban complexity and demanding contextualization. Studio seeks for comprehensive approach to design in such an environment, the exploration of the potential of different interpretations of the new and the old, the evaluation of the historical context and the reconciliation of new structures and functions with the given spatial, formal and functional realities. The students, in cooperation with teaching staff, prepare a program for the preliminary design of a complex building (office building, shopping mall, multimedia center, museum of contemporary art, cinema, concert hall, sports hall, student dormitory/center etc.). Based on the data maps and a visit to the selected location, the location's potential is examined and a concept of spatial organization is prepared. In the first phase, the students prepare an essay and ideogram/ poster on the subject of the assignment. The next phase relates to the creation of the design proposal; the course ends with the submission of the final design proposal and a public presentation.	
Learning outcomes and competences	Students will be able to: <ul style="list-style-type: none"> - analyze and valorize the spatial context of a given location, considering factors such as site history, culture, and physical characteristics, - creatively interpret design tasks, demonstrating an innovative approach to architectural solutions, - perceive and address various aspects of the architectural programme and location conditions, demonstrating competence in solving complex architectural-urban planning tasks, - analyze design tasks and articulate them into a cohesive spatial concept, integrating design principles and considerations into a well-defined architectural vision, - create a comprehensive architectural design project for a complex program in a demanding location, aligning with prior analyses of the location and program, research of reference situations, and an individual conceptual discourse. 	
Recommended reading	The syllabus presented at the beginning of the semester, will specify the recommended literature for the course, ensuring its relevance to the semester assignment topics. For Erasmus students the course literature will be provided in English.	
Teaching methods	Lectures, studio work, individual consultations.	
Assessment methods	Students are obliged to regularly attend studio meetings and submit their semester project within the agreed deadline. The final grade will reflect the overall progress during the semester and the quality of submitted semester project.	
Language of instruction	Lectures are conducted in Croatian; international students are assigned a supervisor (course lecturer) who provides consultations and studio work support in English. All course materials are provided in English.	

Course title	Protection and Restoration of Architectural Heritage Studio 1	
Course code	GAV711	
Type of course	Mandatory course / Lectures and studio work	
Year of study	I	Semester 1 Autumn
ECTS (Number of credits allocated)	5.0	
Name of lecturer	Prof. Katja Marasović, PhD Asst. Prof. Snježana Perojević, PhD Contacts: katja.marasovic@gradst.hr , snjezana.perojevic@gradst.hr	
Brief description of the course	The studio focuses on the elements, particularities and specific features of preservation, protection and design in the context of traditional built environment. The students develop an awareness of, and sensibility for, working in the special conditions of vernacular architecture. The knowledge that they acquire enables them to design projects for the renovation of traditional architecture, as well as to design new architecture in the traditional and natural context. The course material is mastered through the standard method of architectural surveying, through studying the distinctive features of traditional architecture, the characteristics of traditional materials and the types of structures and elements (characteristics and use of materials, types of structures, characteristic elements of buildings, service elements, water accumulation and storage). The learning methods include studying examples of renovation and of building of new structures in traditional complexes, as well as solving practical assignments, which include a current state of the building inquiry, an analysis of the elements of traditional architecture and a project for the renovation of a simple building.	
Learning outcomes and competences	Student will be able to: <ul style="list-style-type: none"> - design a project for the renovation of a traditional building / complex, - recommend new contents suitable for a traditional building / complex, - choose appropriate technical solutions and materials for the restoration of traditional architecture, - argue decisions related to the method and content of the renovation of a traditional building, - envision the way of protection, restoration and presentation of the traditional equipment of the settlement 	
Recommended reading	(1) A. Freudenreich: Narod gradi na ogoljenom krasu, Zagreb-Beograd 1962 (2) J. Belamarić i dr.: Pouke baštine za gradnju u hrvatskom priobalju, (extensive summary in English) Zagreb 2007. (3) A. Ercegović: Pučka arhitektura starih splitskih predgrađa, Split 2002. (4) M. Miličić: Nepoznata Dalmacija : studija o seoskoj arhitekturi, Arhitekt, Zagreb, 1955. (5) Z. Živković: Hrvatsko tradicijsko graditeljstvo, / Croatian Traditional Architecture (bilingual text, Croatian and English) Zagreb 2013.	
Teaching methods	Lectures, field work and practical work in the studio.	
Assessment methods	Lectures are conducted in Croatian; international students are assigned a supervisor (course lecturer) who provides consultations and studio work support in English. Students' obligations are to attend practical work in the studio, submit all study assignments and receive positive grades for all assignments. There is no exam; the student receives a grade based on continuous evaluation of the progress of the project and the theoretical part through a colloquium and/or seminar work related to the topic of the assignment.	
Language of instruction	Croatian (communication with foreign students in English)	

Course title	Research in Urban Planning	
Course code	GAU711	
Type of course	Mandatory course / Lectures and studio work	
Year of study	I	Semester 1 Autumn
ECTS (Number of credits allocated)	2.0	
Name of lecturer	Asst. Prof. Ana Šverko, PhD Contact: ana.sverko@gradst.hr	
Brief description of the course	<p>The course is based on teamwork and research as the preconditions for high-quality interventions as well as for creating high-quality programs and tasks. It includes familiarization with the professional terminology and the main protagonists of the research-driven and analytical urban design. The following research topics are included into the course program: types of public space and their interconnection, public transport, green infrastructure of the city, urban reconstruction through the rehabilitation of run-down/unconsolidated urban and conurban zones, urban geography, planning in the coastal zone, culture of the city as a product of different activities, urban sociology and economics and communication in professional and public discourse. Research in urban planning is based on the principles of the use of adequate research methods, of the research of urban morphogenesis and the history of urban planning, as well as on those of planning a polysemantically (un)defined urban space, whose empty areas constitute the key element of the Urbis form. The research of the phenomena of spatial communications, which generate activities, and of the notion of the dynamic temporal aspect of planning is also included in learning methodology.</p>	
Learning outcomes and competences	<p>Students will:</p> <ul style="list-style-type: none"> - develop a nuanced understanding of the multidisciplinary nature of urban planning, exploring its intersections with demographic, economic, sociological, and other planning domains, - acquire insight into contemporary global urbanization processes, comprehending the diverse forms and characteristics of urban systems. - develop proficiency in foundational urban planning research topics, including urban renewal, city-edge relations, transport, communal infrastructure, public space dynamics, the cultural dimension of cities, and the evolution of communication as an integrative factor, - gain familiarity with basic methodologies and technologies employed in urban research, treating urban planning as a scientific research discipline. - develop a comprehensive understanding of the historical and contemporary theories of urban planning, - develop an appreciation for the spatial, functional, programmatic, and, importantly, temporal components in urban planning, recognizing the dynamic nature of urban spaces over time, - acquire knowledge of the fundamental principles and criteria governing urban space planning, with a focus on their spatial, functional, programmatic, and temporal dimensions. 	
Recommended reading	<ol style="list-style-type: none"> (1) Healey P. (2007). <i>Urban complexity and spatial strategies towards a relational planning for our times</i>, Routledge. (2) Venturi R. Scott Brown D. & Izenour S. (2017). <i>Learning from Las Vegas</i>. MIT Press. (3) Koolhaas R. (2014). <i>Delirious new york: a retroactive manifesto for manhattan</i>. Monacelli Press. (4) Jacobs J. (2016). <i>The economy of cities</i>. Vintage Books. (5) Hall P. (2014). <i>Cities of tomorrow an intellectual history of urban planning and design since 1880</i>. John Wiley & Sons. 	
Teaching methods	Lectures, studio work, individual consultations. The student assignments throughout the semester will be given in the form of semester project.	
Assessment methods	There is no exam; the student receives a grade based on the quality of the seminar work and project, or research-analytical study on one of the course topics.	
Language of instruction	Lectures are conducted in Croatian; international students are assigned a supervisor (course lecturer) who provides consultations and studio work support in English. All course materials are provided in English.	

Course title	Spatial Planning 1	
Course code	GAU713	
Type of course	Mandatory course / Lectures	
Year of study	I	1 st Semester Autumn
ECTS (Number of credits allocated)	2	
Name of lecturer	Asst. prof. Hrvoje Bartulović, PhD Contact: hrvoje.bartulovic@gradst.hr	
Brief description of the course	The teaching is based on the observation, analysis and comparison of planning processes in the Republic of Croatia and Europe, from a historical overview to contemporary trends and methods. Through theoretical foundations and methods of spatial planning, categorization of spatial plans, to legal frameworks and spatial management instruments, topics of the lecture aimed at introducing students to basic terms and principles in spatial planning and the acquisition of necessary knowledge for the creation of urban projects in the future courses of the studies, as well as in the future real practice.	
Learning outcomes and competences	<ul style="list-style-type: none"> - Knowledge of basic concepts and principles, theories and methods in spatial planning. - Familiarity with the categorization of spatial and urban plans, methods, content and method of their creation. - Knowledge of the basic legal and administrative principles of space management, from historical overview to contemporary trends. - Knowledge of the basic legal frameworks in which spatial development processes take place, as well as knowledge of legislation in terms of spatial planning in the Republic of Croatia, EU directives, strategic state spatial regulations, regional development programs, and knowledge of implementation instruments. - Knowledge of the basic instruments of land policy and methods of acquiring land, such as the right of first purchase of land, consolidation and expropriation. - Knowledge of the basics of space management, infrastructure development, and basic elements of sustainable development. - Knowledge of the basic methods of real estate and land valuation, basic features and processes in the real estate market such as analytical basics, data and market analysis (comparisons, profit, costs). 	
Recommended reading	<ol style="list-style-type: none"> (1) Adams, N., et al. (2006). <i>Regional Development and Spatial Planning in an Enlarged European Union</i>. Ashgate Pub.Ltd., England. (2) Altrock, U., et al. (2006). <i>Spatial Planning and Urban Development in the New EU Member States, From Adjustment to Reinvention</i>. Ashgate Publ. Ltd. (3) Birch, L. E. (Ed.). (2009). <i>The Urban and Regional Planning (Reader)</i>. Routledge, London, New York. (4) Campbell, S., et al. (2003). <i>Readings in Planning Theory</i>. Blackwell Publ., USA. (5) Hall, P. (2002). <i>Cities of Tomorrow: An Intellectual History of Urban Planning and Design in the Twentieth Century</i>. Blackwell Publishers, MA. (6) Evans, A. W. (2004). <i>Economics and Land Use Planning</i>. Blackwell Pub. (7) Faludi, A., & Zonneveld, W. (Eds.). (1997). <i>Shaping Europe: The European Spatial Development Perspective in the Making Built Environment</i>, 32(4), Alexander Press, Oxford. (8) McLoughlin, J. B. (1969). <i>Urban and Regional Planning: A Systems Approach</i>. Faber & Faber London. (9) Larsson, G. (2006). <i>Spatial Planning Systems in Western Europe</i>. IOS Press. 	
Teaching methods	For the Erasmus students consultations with the course lecturer will be held. The student assignments throughout the semester will be given in the form of seminar papers to be completed individually or in group. Through the requirement of preparing a seminar papers, the students are directed towards the independent research of good practice examples and the results of the research are presented throughout the semester.	
Assessment methods	The student's obligation is a submitted and positively evaluated seminar papers (essays). Students who submitted their seminars work within the agreed deadline meet the requirements for taking the final exam. The student receives a grade based on the quality of the seminar work related to one of the course topics and based on the knowledge demonstrated in the final exam.	
Language of instruction	The lectures are conducted in Croatian. For the Erasmus students the course lecturer offers consultative classes and study support in English. For the Erasmus students the exam is also conducted in English.	

Course title	Project Management
Course code	GAL711
Type of course	Mandatory course / Lectures and practical assignments
Year of study	I 1st Semester Autumn
ECTS (Number of credits allocated)	2
Name of lecturer	Prof. Nikša Jajac, PhD Contact: niksa.jajac@gradst.hr
Brief description of the course	The main objective of the course is to teach students both knowledge and skills to cope with the ever-increasing complexity of construction management. As the architectural design and urban interventions are getting more challenging as regards sustainability, projects' implementation, energy consumption and environment, the students need to be acquainted with project management topics to successfully fulfil tasks in their future competitive professional career.
Learning outcomes and competences	Upon completion of the course, students will be able to: <ul style="list-style-type: none"> - comment on the basic elements of project management, - make static and dynamic plans of construction process, - make resource' plans in construction process, - identify and comment on risk causes, - analyse multi-project systems.
Recommended reading	(1) Schwalbe, K. (2012). <i>An Introduction to Project Management</i> . LLC, Minneapolis, MN. + the other titles that correspond to the topics of the given semester project.
Teaching methods	Lectures, individual consultations; in person or online via MsTeams. The student assignments throughout the semester will be given in the form of semester project.
Assessment methods	The final grade is determined through both an oral examination and a comprehensive evaluation of the submitted work and its accompanying presentation.
Language of instruction	International students are not obliged to attend lectures, as they are conducted in Croatian. However, they are assigned independent projects (semester work, essays, or seminar) to be completed individually. The course lecturer offers consultations and study support in English. All course materials are provided in English, and the exam is also conducted in English.

Course title	Graduate Design Studio 2	
Course code	GAS712	
Type of course	Mandatory course / Lectures and studio work	
Year of study	I 2 nd semester	Spring
ECTS (Number of credits allocated)	15.0	
Name of lecturer	Assoc. Prof. Toma Plejić Assoc. Prof. Dinko Peračić Contact: toma.plejic@gradst.hr , dinko.peracic@gradst.hr	
Brief description of the course	The studio explores the programmatic and formal aspects of commercial and tourist architectural typologies. The design programs include hotels, holiday estates, health resorts and marinas. Generally, the sites chosen for this assignment are of a higher level of urban complexity and located in, for example, a historical setting and/or coastal area. The lectures problematize topics related to the functional organization and typological systematization of the facilities for tourism and leisure. The assignment includes the development of a project program, the preparation of a design proposal of a new building, with the precise elaboration of its structural and technological aspects.	
Learning outcomes and competences	Students will: <ul style="list-style-type: none"> - develop advanced analytical skills to critically assess project programs and contextual conditions, enabling the student to navigate and solve complex architectural and architectural-urban challenges, - demonstrate proficiency in addressing diverse architectural typologies and morphologies, fostering the ability to shape spaces that respond innovatively to various design contexts, - cultivate the capacity to independently create innovative tools tailored for approaching spatial challenges inherent in complex urban and spatial planning tasks, - synthesize data from program analysis, contextual survey, research on precedent architectural examples to inform the design concept, - create a design proposal for a building of a complex program situated in a challenging location, showcasing the ability to translate analytical insights and synthesized information into a coherent architectural design. 	
Recommended reading	The syllabus presented at the beginning of the semester, will specify the recommended literature for the course, ensuring its relevance to the semester assignment topics. For Erasmus students the course literature will be provided in English.	
Teaching methods	Lectures, studio work, individual consultations.	
Assessment methods	Students are obliged to regularly attend studio meetings and submit their semester project within the agreed deadline. The final grade will reflect the overall progress during the semester and the quality of submitted semester project.	
Language of instruction	Lectures are conducted in Croatian; international students are assigned a supervisor (course lecturer) who provides consultations and studio work support in English. All course materials are provided in English.	

Course title	20th Century Croatian Architecture	
Course code	GAT712	
Type of course	Mandatory course / Lectures / Consultative classes	
Year of study	I	2 nd Semester Spring
ECTS (Number of credits allocated)	2.0	
Name of lecturer	Prof. Darovan Tušek, PhD Asst. prof. Sanja Matijević Barčot, PhD (consultative classes) Contact: darovan.tusek@gradst.hr ; sanja.matijevic@gradst.hr	
Brief description of the course	The course focuses on the development of 20 th century Croatian architecture. The objective of the course is to enable the students to identify the main achievements and broader context of national architectural production in this period, to analyse the contributions of individual authors and to define a well-reasoned structure of criteria that have decisively affected the authorial design responses of the time. The course develops the understanding of the continuity of Croatian modern architecture as an independent phenomenon within the recent globalization trends.	
Learning outcomes and competences	Student will be able to: <ul style="list-style-type: none"> - detect and analyse the key processes in the development of modern Croatian architecture, - explain the central paradigms, approaches, theories and discourses in Croatian architecture of the 20th century and their effect on contemporary architecture, - outline the significant elements of the architectural design process, illustrating with examples from key architectural achievements in Croatia during the 20th century, - formulate a well-argued structure of criteria of assessment of design response to a specific architectural task in various contextual conditions. 	
Recommended reading	Reader with all required literature will be provided by course lecturer; all required reading material for international students will be available in English.	
Teaching methods	Individual consultations with the course lecturer. The student assignments throughout the semester will be given in the form seminar paper.	
Assessment methods	Students who regularly attended consultative classes and submitted their seminar paper within the agreed deadline receive a grade based on the quality of the seminar paper.	
Language of instruction	English	

Course title	Urban Design	
Course code	GAU712	
Type of course	Mandatory course / Lectures and Practical Assignments	
Year of study	I	2nd Semester Spring
ECTS (Number of credits allocated)	2.0	
Name of lecturer	Asst. Prof. Hrvoje Bartulović, PhD Contact: hrvoje.bartulovic@gradst.hr	
Brief description of the course	The course introduces the students to the methods of initiating, defining, controlling and directing the process of the development of the city and its space and functional territory. It equips the students with the basic knowledge and skills required for the identification, interpretation and evaluation of the states and processes in urban space and for the application of the methods of controlling and articulating the processes of urban development. The course covers a wide range of subjects problematizing the following: spaces (zones) with a single primary use; the role of the building as a generator of urban development; the role of the street in the articulation and development of urban tissue; the subject of the outskirts, borders and constraints in urban design; the relationship between urban design and infrastructure, 'waiting land'; the subject of urban renewal; the role of modern park, architecture and small-scale urban interventions as tools for initiating urban transformation.	
Learning outcomes and competences	Students will be able to: <ul style="list-style-type: none"> - recognize the developmental, progressive and regressive processes in urban space. - define typologies, models and methods of defining and articulating the urban matrix, i.e. morphology. urban space. - dimension the space for the positioning of infrastructural facilities and knowledge of the basic technical, functional and spatial parameters of urban and communal infrastructure. - understand the basic principles of functioning and criteria for planning special-purpose spaces, single-purpose complexes and monofunctional spatial entities such as transport hubs , campuses of various purposes, industry, agriculture, tourism, etc. - recognize, interpret and valorize the state and process in the city space with the ability to articulate and control them. 	
Recommended reading	<ol style="list-style-type: none"> 1. Kostof, S. (1993). <i>The City Shaped: Urban Patterns and Meanings Through History</i>. 2. Bacon, E. N. (1976). <i>Design of Cities</i>. 3. Sitte, C. (2002). <i>Der Städtebau nach seinen künstlerischen Grundsätzen</i>. 4. Hall, P. (1996). <i>Cities of Tomorrow</i>. 5. (Author/Editor Last Name, Initials). (Year). <i>Title of the Book</i>. 6. Rowe, C. (Year). <i>Collage City</i>. 7. English Partnerships. (2000). <i>Urban Design Compendium 1</i>. 8. English Partnerships. (2007). <i>Urban Design Compendium 2</i>. 9. Moughtin, J. C., Cuesta, R., Sarris, C., & Signoretta, P. (Year). <i>Urban Design: Method and Techniques</i>. 10. Alexander, C. (Year). <i>A Pattern Language: Towns, Buildings, Construction</i>. 11. Carmona, M., Heath, T., Oc, T., Tiesdell, S. (2006). <i>Public Places-Urban Spaces</i>. Oxford, Architectural Press. 12. Thomas, R., & Fordham, M. (2005). <i>Sustainable Urban Design</i>. Spon Press. 13. Appleyard, D. (2001). <i>Livable Streets</i>. University of California Press, Berkeley. 	
Teaching methods	For the Erasmus students consultations with the course lecturer will be held. The student assignments throughout the semester will be given in the form of seminar papers to be completed individually or in group. Through the requirement of preparing a seminar papers, the students are directed towards the independent research of good practice examples and the results of the research are presented throughout the semester.	
Assessment methods	The student's obligation is a submitted and positively evaluated seminar papers (essays). Students who submitted their seminars work within the agreed deadline meet the requirements for final grade. The student receives a grade based on the quality of the seminar work related to one of the course topics.	
Language of instruction	The lectures are conducted in Croatian. For the Erasmus students the course lecturer offers consultative classes and study support in English.	

Course title	Construction Investment Planning		
Course code	GAL711		
Type of course	Mandatory course / Lectures		
Year of study	I	2nd Semester	Spring
ECTS (Number of credits allocated)	2.0		
Name of lecturer	Prof. Nikša Jajac, PhD Contact: niksa.jajac@gradst.hr		
Brief description of the course	The course introduces the students to the planning, estimate, control and tracking of building investments and to other business basics concerning investments, in order to enable them to handle the practical tasks of preparing and choosing building investments, as well as to prepare and comment on feasibility studies and assess investment projects. Along with the elements of business economics (the concepts of market, offer, demand, productivity, cost-effectiveness, profitability, liquidity, management, decision making, marketing strategy, time value of money), with particular emphasis on planning, the students master the evaluation of the type and factors of costs/revenue and the processes of monitoring costs/revenue and business operations. The subjects also include the financial environment of construction companies, capital investments and capital projects in the construction industry (investment studies, prefeasibility and feasibility studies in terms of their significance, the methods of their preparation and their contents), as well as the methods and results of financial analysis and sources of financing. In the complex context of capital projects in the construction industry, the students become acquainted with the roles and modes of cooperation of the stakeholders of these projects.		
Learning outcomes and competences	Students will be able to: <ul style="list-style-type: none"> - identify and comment basic elements of economy with special emphasis on planning, - comment and assess costs and income as well as to control related procedures, - comment financial surroundings of an organization within construction industry, - present and comment investment projects and plans of capital investments in construction, - differentiate and comment financial analysis (methods and results) and sources of funding, - differentiate the possible mutual relations of participants within construction investments. 		
Recommended reading	(1) Hendrickson, C., & Matthews, H. S. (2011). <i>Civil Infrastructure Planning, Investment and Pricing</i> . Carnegie-Mellon University. (2) Grant, E. L., Ireson, W. G., & Leavenworth, R. S. (1976). <i>Principles of Engineering Economy</i> . John Wiley & Sons. + the other titles that correspond to the topics of the given semester project		
Teaching methods	Lectures, individual consultations; in person or online via MsTeams. The student assignments throughout the semester will be given in the form of semester project.		
Assessment methods	The final grade is determined through both an oral examination and a comprehensive evaluation of the submitted work and its accompanying presentation.		
Language of instruction	The lectures are conducted in Croatian. For the Erasmus students the course lecturer offers consultative classes and study support in English.		

Course title	Graduate Design Studio 3	
Course code	GAS811	
Type of course	Mandatory course / Lectures and studio work	
Year of study	II	1 st Semester Autumn
ECTS (Number of credits allocated)	15.0	
Name of lecturer	Assoc. Prof. Saša Randić Contact: sasa.randic@gradst.hr	
Brief description of the course	<p>In this studio, students work on a complex architectural and urban-design assignment, on a site which covers a larger city area. The assignment has a wide range of possible topics and can include, for example, the adaptive reuse of former industrial buildings, revitalization of suburban areas, urban development proposals for small coastal towns. The project is developed in several phases. Students work in groups; in the last phase, they work independently. Each phase is accompanied by a public presentation. For the purpose of testing the presented arguments for design, students are required to constant scale shifting, from the small scale of the conceptual design to the large urban planning scale, and vice versa. For that purpose, the students are encouraged to use the physical model as a method of tracking the development of the concept.</p>	
Learning outcomes and competences	<p>Upon completing this course, students will be able to:</p> <ul style="list-style-type: none"> - analyze all determining elements of the spatial, infrastructural, economic, and social context of the city, part of the city, or settlement addressed by the project. - critically evaluate current spatial policies and existing planning documentation to define strategic and/or detailed proposals for modification. - interdisciplinarily address the repercussions of all social, economic, political, infrastructural, and other issues, tasks, and problems specific to the urban area. - create a proposal for an urban planning and architectural project, offering design solutions for the issues identified through an analysis of the broader context. - demonstrate advanced skills in utilizing typologically and morphologically different types of construction to shape and define high-quality urban spaces. - develop specific planning and design tools for approaching diverse spatial problems in a complex architectural and planning task. 	
Recommended reading	<p>The syllabus presented at the beginning of the semester, will specify the recommended literature for the course, ensuring its relevance to the semester assignment topics. Reader with all required literature will be provided by course lecturer. All required reading material for international students will be available in English.</p>	
Teaching methods	Lectures, field trip, studio work, individual consultations.	
Assessment methods	<p>Students are obliged to regularly attend studio meetings and submit their semester project within the agreed deadline. The final grade will reflect the overall progress during the semester and the quality of submitted semester project.</p>	
Language of instruction	<p>Lectures are conducted in Croatian; international students are assigned a supervisor (course lecturer) who provides consultations and studio work support in English. All course materials are provided in English.</p>	

Course title	Interior Design Studio	
Course code	GAS812	
Type of course	Mandatory course / Lectures and studio work	
Year of study	II	1 st Semester Autumn
ECTS (Number of credits allocated)	5.0	
Name of lecturer	Prof. Neno Kezić Contact: nen.kezic@gradst.hr	
Brief description of the course	Interior Design studio explores the aspects of interior architecture, whose design is approached through the exploration of space, forms and concepts. The aim is to encourage the students for design which manipulates emotions through narration and form, so as to create an inspirational environment for the user. Through a study of the programme, the students create architectural solutions for interiors by interconnecting the cultural, spatial, program, narrative, functional and technical elements. The final result is the spatial symbiosis of the user's pragmatic needs and identity together with the aesthetic expression and experience of the architect. The course explores the communication of interior space on the subconscious levels of memory, ritual, metaphor and association for the purpose of engaging the user's intellectual and emotional level. The design of interior architectural space strives to create the forms, spaces, service and identities which reflect the new needs and multi-faceted phenomena of the contemporary society.	
Learning outcomes and competences	Upon completing this course, students will be able to: <ul style="list-style-type: none"> - analyze and evaluate the existing interior space designated for intervention, - differentiate between methods and approaches for intervening in an existing internal architectural space, - analyze project tasks and explore possibilities for interpreting them within spatial concepts, - determine an architectural intervention approach in interior spaces based on analysis results, research findings, project programs, and conceptual discourse, - develop a comprehensive project for interior space design. 	
Recommended reading	(1) Friedmann, A. (1973). <i>Interior design</i> , Elsevier. (2) Massey, A. (1990). <i>Interior design of the 20th century</i> , Thames and Hudson. (3) Pile J. F. & Friedmann A. (2007). <i>Interior design</i> . Pearson Prentice Hall.	
Teaching methods	Lectures, studio work, individual consultations.	
Assessment methods	Students are obliged to regularly attend studio meetings and submit their semester project within the agreed deadline. The final grade will reflect the overall progress during the semester and the quality of submitted semester project.	
Language of instruction	Lectures are conducted in Croatian; international students are assigned a supervisor (course lecturer) who provides consultations and studio work support in English. All course materials are provided in English.	

Course title	Integrated Environmental Protection
Course code	GAJ811
Type of course	Mandatory course / Lectures / Consultative classes
Year of study	II 2nd Semester Autumn
ECTS (Number of credits allocated)	2.0
Name of lecturer	Assist. Prof. Hrvoje Bartulović, PhD Contact: hrvoje.bartulovic@gradst.hr
Brief description of the course	The students get acquainted with the basic premises of the protection of built environment and re-examine its theories and principles. Particular attention is given to the renewal of built areas, as the basis for achieving sustainable development. Considering that the Mediterranean environment has historically been marked by the urban developments, the course also covers the emerging trends of urban revitalization aimed at establishing new values of life in the city and a high-quality dialogue with the natural resources that surround it. In addition, through the requirement of preparing a seminar paper, the students are directed towards the independent research of good practice examples of the integrated environmental protection and the results of the research are presented at the end of the semester.
Learning outcomes and competences	After passing the course, the student will be able to: <ul style="list-style-type: none"> - understand progressive and degrading, or regressive developmental processes in space - recognise types of loads and their impact on the environment - understand methods of control and management of processes that pressure and degrade space and affect the environment. - acknowledge the environmental quality management measures and procedures, legal procedures and technical standards of environmental protection. - interpret and generalize the results of analysis environmental quality. - define the goals of environmental protection. - understand elements and content of an environmental impact assessment study, strategic assessment, assessment of the need for an assessment, etc.)
Recommended reading	<ol style="list-style-type: none"> (1) Carter, N. (2018). <i>The Politics of the Environment: Ideas, Activism, Policy</i>. (3rd ed.). (2) Alberti, M. (2008). <i>Advances in Urban Ecology: Integrating Humans and Ecological Processes in Urban Ecosystems</i>. Springer. (3) Williams, D. E. (2007). <i>Sustainable Design: Ecology, Architecture, and Planning</i>. John Wiley & Sons. (4) Newman, P., & Jennings, I. (2008). <i>Cities as Sustainable Ecosystems: Principles and Practices</i>. Island Press, Washington. (5) Miller, D., & de Roo, G. (Eds.). (2004). <i>Integrating City Planning and Environmental Improvement: Practicable Strategies for Sustainable Urban Development</i>. (2nd ed.). Ashgate. (6) Mihelcic, J. R., Zimmerman, J. B., Auer, M. T., & others. (2010). <i>Environmental Engineering: Fundamentals, Sustainability, Design</i>. John Wiley & Sons. (7) White, R. R. (2000). <i>Building the Ecological City</i>. WPL.
Teaching methods	For the Erasmus students consultations with the course lecturer will be held. The student assignments throughout the semester will be given in the form of seminar paper to be completed individually or in group. Through the requirement of preparing a seminar paper, the students are directed towards the independent research of good practice examples of the integrated environmental protection and the results of the research are presented at the end of the semester.
Assessment methods	The student's obligation is a submitted, presented and positively evaluated seminar papers (essays). Students who submitted their seminars work within the agreed deadline meet the requirements for taking the final exam. The student receives a grade based on the quality of the seminar work related to one of the course topics and based on the knowledge demonstrated in the final exam.
Language of instruction	The lectures are conducted in Croatian. For the Erasmus students the course lecturer offers consultative classes and study support in English. For the Erasmus students the exam is also conducted in English.

Course title	Professional Practice	
Course code	GAS 714	
Type of course	Elective / Professional practice in an architectural (design) office	
Year of study	I-II	1 st -3 rd Semester Autumn
ECTS (Number of credits allocated)	2.0	
Name of lecturer	Prof. Neno Kezić Contact: nen.kezic@gradst.hr	
Brief description of the course	<p>This course provides students with the opportunity for hands-on design practice within a design bureau. The overarching goal is to familiarize students with the operations of a project bureau, encompassing the preparation of necessary project documentation in accordance with obtained permits. This involves gaining an understanding of spatial plans, laws, and regulations within the realm of architectural activities, along with the application and alignment of project documentation during the project development phase. The course looks into project management methods, addressing the coordination of various disciplines involved in development, such as construction, physics and noise, occupational safety, fire protection, water supply and sewage, mechanical installations, etc. Additionally, it explores the roles of supervising engineers and design supervision, emphasizing the monitoring of construction works.</p> <p>Professional practice is conducted either before or after the completion of the regular semester, with a total duration of 60 working hours.</p>	
Learning outcomes and competences	<p>The student will be able to:</p> <ul style="list-style-type: none"> - independently work in different stages of developing an architectural design project - understand the legislation related to planning and construction, - be familiar with technical norms and regulations related to design, - demonstrate the ability to create urban projects or various levels of spatial planning documentation (DPU, UPU, etc.), - integrate and apply the knowledge and skills acquired during studies in practice, - demonstrate the ability to work in a team, coordinate, and manage a project or its segment. 	
Recommended reading	-	
Teaching methods	Professional practice with supervision of a mentor	
Assessment methods	The student's obligation is to provide a confirmation of completed professional practice in one of the design bureaus in Croatia and/or abroad, endorsed by the mentor (the head of the company where the practice was conducted), along with a signed work diary indicating the tasks the student worked on during the professional practice.	
Language of instruction	English	

Course title	Complex Architectural and Urban-design Structures	
Course code	GAU 717	
Type of course	Elective / Seminar	
Year of study	I-II	1st-3rd Semster Autumn and Spring
ECTS (Number of credits allocated)	2.0	
Name of lecturer	Prof. Dario Gabrić Contact: dario.gabric@gradst.hr	
Brief description of the course	This course provides fundamental knowledge about design-program parameters and urban aspects of complex spatial structures and macro-urban complexes, such as transportation terminals (airports, seaports, railway, and road terminals), hospitals and other healthcare buildings, university campuses and structures for higher education, cultural buildings, hotels and tourist complexes, stadiums and sports complexes, cemeteries and crematoriums, hybrids, and similar structures.	
Learning outcomes and competences	The student will be able to: <ul style="list-style-type: none"> - understand the basic typologies and typological development of complex spatial-functional structures, - be familiar with the fundamental spatial elements and conditions for positioning complex structures in space, - understand the basic functional components and spatial organization of complex architectural structures, - describe legal frameworks for planning, designing, and constructing complex structures, - develop a project program for one of the analyzed complex spatial structures. 	
Recommended reading	<ol style="list-style-type: none"> (1) Izenour, G. C. (1997). Theater Design. Yale University Press. (2) Pevsner, N. (1976). A History of Building Types. Princeton University Press. (3) Verderber, S., & Fine, D. J. (2000). Healthcare Architecture in an Era of Radical Transformation. Yale University Press. (4) Geraint, J., Sheard, R., & Vickery, B. (2007). Stadia: The Populous Design and Development Guide. Routledge. (5) Worpole, K. (1988). Contemporary Library Architecture. Routledge. 	
Teaching methods	Consultative class. The student assignments throughout the semester will be given in the form of seminar paper.	
Assessment methods	Students who regularly attended consultative classes and submitted their seminar work within the agreed deadline receive a grade based on the quality of the seminar work.	
Language of instruction	English	