SURE

Sustainable Urban Rehabilitation

Documentation of study plan and curriculum

for second cycle full-time study in field of Architecture

Developed within project SURE: Sustainable Urban Rehabilitation in Europe
co-funded by the Erasmus+ Programme of the European Union
Key Action 2 : Strategic Partnership Projects
Agreement no 2016-1-PL01-KA203-026232

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Specialty „Sustainable Urban Rehabilitation”

in field of Architecture
second cycle full-time studies
general academic profile

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Erasmus+

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1. General characteristics of SURE studies

a) field of study - **Architecture**,

b) specialty – **Sustainable Urban Rehabilitation,**

c) education level – **second cycle study,**

d) education profile – **general academic**,

e) form of study – **full-time study**,

f) professional title obtained by the graduate – **master engineer architect,**

g) area of education – **in field of technical sciences**,

h) field of science – **technical sciences**, scientific discipline – **architecture**

Specialty Sustainable Urban Rehabilitation in field of Architecture is related to the following disciplines: fine arts, construction, environmental engineering, and the learning outcomes for the specialty are related also to these disciplines.

Objective of the curriculum SURE: Sustainable Urban Rehabilitation in Europe

Aims of the didactic activities within curriculum for specialty Sustainable Urban Rehabilitation are in line with the objectives and tasks stated in the mission and strategy of the universities. The didactic area is regarded as one of the most important, and the detailed aims of SURE curriculum are as follows:

- providing students with the necessary knowledge and skills,
- shaping creative and responsible attitudes,
- adjusting the educational process to the labour market requirements and to functioning in a knowledge-based society.
- educating the young students for competent professionals and enlightened and responsible citizens
- providing the highest level of teaching and research
- participation in the creation of European educational space
- educating students in the spirit of patriotism and humanism, respect and the search for truth, human solidarity, ethical principles, academic tradition

- providing students with not only the necessary knowledge and skills, but also the development of creative and responsible attitudes.

General objectives of education, opportunities of employment and continuation of learning by alumni of the second level study in field of Architecture

Alumnus shall receive background in the field of architecture with particular emphasis on working in historic buildings. The alumnus has advanced knowledge and skills in the following areas:

- architectural, urban and conservation design and urban planning;
- shaping the human environment, taking into account the relations between people and architectural objects and the surrounding space;
- applying the procedures of architectural designs development taking into account social factors;
- solving functional, exploitation, building, construction, engineering and technological problems to the extent necessary for ensuring the safety and comfort of objects exploitation, including exploitation by disabled;
- economics of design, implementation and use of architectural object and the organization of the investment process and integration of plans with planning projects.

Alumnus understands the role of the architect in society and the impact on the quality of the environment, knows the rules of professional ethics and is prepared to applying these rules.

Alumnus is prepared for:

- taking up the creative activity in the field of architectural and urban design;
- obtaining professional licenses required by law;
- performing independent functions in the construction sector;
- designing and managing construction works in the field of architecture;
- coordinating the work of cross-industry project teams;

- managing the architectural and urban design studios;
- independent business activity;
- taking up research work.

Alumnus can be employed in the architectural and urban planning design studios, local and state government units, research institutes and entities providing consultancy services. After undergoing a specific practice alumnus has the possibility of obtaining the full professional licenses required by law and enabling performing autonomous technical functions in the construction sector. The alumnus is prepared for the third level of study (doctorate).

Initial requirements and enrolment rules

Only candidates who hold the professional title of architect or architect engineer and graduated first cycle of study in field of Architecture can apply for admission to the second level study in architecture in specialty Sustainable Urban Rehabilitation.

Candidates must present official certificate confirming the command of English language (at least B2 level)

Qualification for the first year of the second cycle of study in field of Architecture in specialty Sustainable Urban Rehabilitation is carried out through a formal verification of the required documents submitted by the candidates.

Detailed initial requirements and enrolment rules are to be in line with the conditions and procedures for recruitment of the University conducting SURE study.

2. Learning outcomes and their verification

In line with Article 46 (1) of Directive 2005/36/CE the curriculum for specialty Sustainable Urban Rehabilitation in field of architecture maintains a balance between theoretical and

practical aspects of architectural training and guarantees the acquisition of the following knowledge and skills:

a) ability to create architectural designs that satisfy both aesthetic and technical requirements;
b) adequate knowledge of the history and theories of architecture and the related arts, technologies and human sciences;
c) knowledge of the fine arts as an influence on the quality of architectural design;
d) adequate knowledge of urban design, planning and the skills involved in the planning process;
e) understanding of the relationship between people and buildings, and between buildings and their environment, and of the need to relate buildings and the spaces between them to human needs and scale;
f) understanding of the profession of architecture and the role of the architect in society, in particular in preparing briefs that take account of social factors;
g) understanding of the methods of investigation and preparation of the brief for a design project;
h) understanding of the structural design, constructional and engineering problems associated with building design;
i) adequate knowledge of physical problems and technologies and of the function of buildings so as to provide them with internal conditions of comfort and protection against the climate;
j) the necessary design skills to meet building users' requirements within the constraints imposed by cost factors and building regulations;
k) adequate knowledge of the industries, organisations, regulations and procedures involved in translating design concepts into buildings and integrating plans into overall planning.

The intended learning outcomes and methods of their verification for **second level study in field of Architecture in specialty Sustainable Urban Rehabilitation - Annex 1.**

The tables of coverage of the learning outcomes for **second level study in field of Architecture in specialty Sustainable Urban Rehabilitation - Annex 2.**

3. SURE Curriculum

Model programme of SURE is 2-years master study divided into 4 semesters, 30 ECTS in each semester.

Multidisciplinary joint MSc degree programme SURE: Sustainable Urban Rehabilitation combines the following areas of sustainable development: broadly understood architecture, urban planning and protection of cultural heritage. These fields are complemented by social issues, e.g. Urban design attracting multicultural travellers or Sociology of the city.

SURE curriculum includes:

- 4 general courses introduced for better adjustment of alumni skills to labour market requirements (Foreign language, General Building Engineering, Introduction to the labour market, Managing the investment process)
- 8 basic courses determining the profile of SURE alumni
- 25 specialised courses - courses broadening knowledge and skills of students in relation to minimum specified in standards in order to allow alumni better adjustment to labour market specific requirements.

Basic and specialised courses (excluding Master seminars) are aggregated in 3 thematic modules:

- Sustainable heritage (10 courses)
- Sustainable architecture and urban planning (11 courses)
- Heritage and Society (10 courses).

Four specialised courses are planned as elective courses: in case of each of these four specialised courses two courses are proposed within SURE curriculum and the students can select one out of the two courses proposed.

SURE curriculum consists of:

Module: Sustainable architecture and urban planning	**28 ECTS**
Module: Sustainable heritage	**29 ECTS**
Module: Heritage and Society	**28 ECTS**
Block of General courses	**8 ECTS**
Apprenticeship	**4 ECTS**
Master seminar	**3 ECTS**
Master thesis	**20 ECTS**

Elective courses	**10 ECTS**

1ST SEMESTER – 30 ECTS	2ND SEMESTER 30 ECTS	3RD SEMESTER 30 ECTS	4TH SEMESTER 30 ECTS
Inventory and Survey of Historical Buildings (pre-design activities)	Freehand Architectural Drawing/Urban sketching	Historical Building Adaptation To Modern Function or *Urban Design Attracting Multicultural Travellers*	Urban and Environmental Economy
Sustainable revitalisation of degraded areas and buildings	Week summer design studio /real case studies – object and landscape scale - conceptual design/	Sustainable Urban Design in World Heritage Sites	Sociology of the city
Modern Structures and Innovative Building Materials - Technical Appraisal	Nature And Regional Architecture In Design Process	Traditional , Vernacular And Historic Architecture	Introduction to the Labour Market
Protection of Monuments and Historical Towns	Landscape Architecture	Heritage And Society for Development	Managing the Investment Process
Theory and History of the city	Aesthetics of Architecture or *Philosophy of architecture*	Comprehensive Design Project (Integrating Aspects of Technology, Sustainability, Research and Cultural Awareness in the Design Process)	Master Seminar
Propaedeutics of Heritage Protection	Architectural Design In Historical Context – Design studio or *Architectural Design In Environmental Context – Design studio*	Heritage Sites and Environmental Protection	Master Thesis
Urban renewal - sustainable architecture and urban planning design studio	Architectural conservation studio	Sustainable Architecture And Eco-Design	
Urban planning	Introduction Course on Theory and History of Conservation	Spatial and Regional Planning	
Architectural design	The Conservation Area and the Registered Landscape	Construction applied to Heritage or *Heritage Problems. Causes. Solutions*	
Foreign language	Museology & Museography	Methodological approach to conservation	
General Building Engineering	Apprenticeship	Master Seminar - Research: Methods and Project	

More detailed information on Model programme of SURE: Sustainable Urban Rehabilitation available online http://sure.pollub.pl/outputs/

a) Number of ECTS credit for obtaining **the professional title of master engineer architect – 120,**

b) Number of semesters – **4,**

c) Description of particular learning modules – **Annex 3,**

d) lengths, principles and form of apprenticeship,

Apprenticeship for students of the second level study in field of Architecture, specialty Sustainable Urban Rehabilitation takes place after 2nd semester, from July 1st to September 30th, and last 4 weeks. The apprenticeships are obligatory, and the cases of exemptions from the apprenticeships are set individually. The student agrees the place of the pre-diploma apprenticeships with the dean's proxy for students' apprenticeships. The students' apprenticeships can be implemented at an earlier date – during the semester with the approval of the dean or an authorized deputy dean, provided that the students' placements will not interfere with the fulfilment of the student's obligations arising from the studies. The pre-diploma apprenticeships can take place in architectural offices and designing practices in Poland and abroad. The students get the pass in apprenticeships from the dean's proxy for the apprenticeships based on the entry in the "Students apprenticeships record book", in which the person in charge of the students apprenticeships confirms the implementation of the apprenticeships lasting 4 weeks and evaluates the involvement of the trainee. Detailed rules for implementation of apprenticeship (financial and other issues) are to be defined in the "Agreement" between the trainee and the unit in which apprenticeship takes place. The decisions concerning specific situations of apprenticeships implementation are made by the dean or the dean's proxy for students' apprenticeships.

e) Learning outcomes matrix - **Annex 4**,

f) Description of the methods of verification of selected learning outcomes with reference to courses, forms of classes and tests - **Annex 3**,

g) plan of study for 2nd level study in field of Architecture in specialty Sustainable Urban Rehabilitation with an indication of courses to be selected by the student - **Annex 5**,

SURE curriculum combines the traditional teaching model (classes within the course one or two days per week) with a block teaching model. Teaching of the selected courses within SURE curriculum will have the following structure:

- one or two weeks' advance reading using an online learning environment that can be accessed through a web browser and traditional literature sources. This part can be accomplished at a distance
- up to two weeks' intensive classroom teaching - a taught phase where all students have direct contact with the teacher
- up to four weeks post-course phase - the student individually completes the work that will be assessed by the teacher. The work is submitted via the online learning environment - SURE e-learning Space. This part can be done in the student's home location.

Exemplary structure of the organisation of 1st semester of SURE study is presented below.

Model programme of SURE: Sustainable Urban Rehabilitation in two versions: “Model programme of SURE curriculum based on Modules” and “Model programme of SURE curriculum based on mixed courses” is available online http://sure.pollub.pl/outputs/

SURE curriculum is elaborated in accordance with the National Qualifications Framework.

Exemplary structure of the organisation of 1st semester of SURE study

October	November	December	January	February
Foreign language 30 Lab	General building engineering 10 L e-learning	General building engineering 20 L (4 weeks * 5 h)	General building engineering 30 D (3 weeks * 7 h + 1 week 9 h)	Post-course phase - individual students work
Urban renewal - sustainable architecture and urban planning study tour and design studio (1 week 15 E + 1 week 30 D	Sustainable revitalisation of degraded areas and buildings 15 L (3 weeks * 5 h)	Sustainable revitalisation of degraded areas and buildings 30 D (3 weeks * 5 h)	Sustainable revitalisation of degraded areas and buildings 30 D (3 weeks * 5 h)	
Inventory And Survey Of Historical Buildings (pre-design activities) 10 L e-learning; Inventory And Survey Of Historical Buildings (pre-design activities) 5 L + 20 D	Inventory And Survey Of Historical Buildings 5 D e-learning + 5 D; Post-course phase - individual students work	Modern Structures and Innovative Building Materials - Technical Appraisal 15 L (3 * 5 h)	Modern Structures and Innovative Building Materials - Technical Appraisal 30 D (6 * 5 h)	
	Propaedeutics of heritage protection 15 L (3 weeks * 5 h)	Propaedeutics of heritage protection 15 E (3 weeks * 5 h)		
		Protection of monuments and historical towns 15 L (3 * 5 h)	Protection of monuments and historical towns 30 D (6 weeks * 5 h)	
	Urban planning 15 L (5 weeks * 3 h)	Urban	planning 30 D (1 week * 3 h + 3 weeks * 4 h + 3 weeks * 5 h)	
	Architectural design 15 L + 60 D (1 week * 12 h L, 1 week * 3 h L + 9 h D, 1 week * 12 h D, 3 weeks * 2 h D)		Architectural design 15 L + 60 D (3 weeks* 5 h D, 3 weeks * 6 h D)	
	Theory and History of the city 30 L + 15 D (6 weeks * 3 h L)		Theory and History of the city 30 L + 15 D (3 weeks * 3 h L, 1 week * 3h L + 3 h D, 2 weeks * 6 h D)	

i) structure of 2nd cycle study in field of Architecture in Sustainable Urban Rehabilitation

Study Sustainable Urban Rehabilitation is conducted as specialty in field of Architecture.

j) the rules of conducting the diploma process

The student elaborates diploma thesis under supervision of professor, habilitated doctor or doctor. The student's academic interest, utility of work and research plan of the department, as well as the ability to perform it in time are taken into account in determining the topic of the diploma thesis. The topic of the thesis should be set not later than one year before the planned completion of studies. Diploma thesis may be of teamwork. Diploma thesis is evaluated by the promoter and reviewer. The student submits the diploma thesis in a printed compact form and on electronic media. A student who has not submitted a diploma thesis till the indicated deadline, shall be deleted from the list of students. Person removed from the list of students can resume study under the conditions set by the Dean.

The diploma exam is oral and written. During diploma exam, the student should demonstrate knowledge of the field of study, in particular knowledge of issues related to the topic of the thesis.

The rules of diploma issuing process are to be in line with Study Regulations and university's internal regulations of conducting the diploma thesis and issuing the diplomas.

The diploma thesis is elaborated by the student in English in accordance to the rules constituted at the University.

k) Description of the credits system

Credits system of the assessment of learning progress corresponding to the ECTS (European Credit Transfer System) standard is used in relation to the specialty Sustainable Urban Rehabilitation. The credit system conforms to the ECTS standard. It is a student-centered system and it is based on student workload, which is required for the

achievement of the objectives of the curriculum set out as learning outcomes and acquired competences. ECTS credits reflect the expected workload of average student needed to learn and pass particular course, in relation to the total quantity of work necessary to complete a full semester / year of study. The workload includes both the student's work during classes organised by the University, as well as his/her own work. Number of credits for particular courses is given in syllabi in Annex 3 and the study plan in Annex 5. Passing all kinds of classes in frames of the particular course and passing the examination, if it is mentioned in the curriculum, means obtaining credits assigned to the course. Number of ECTS credits outlined in curriculum for specialty Sustainable Urban Rehabilitation as 2nd level study in field of Architecture equals 30 per each semester.

Condition for crediting a semester/year is to obtain credits for all courses and apprenticeships provided in the plan of study. The limit of the credits deficit in each academic year is set by the Faculty Board, and this information is placed on the websites of the Faculty.

l) Summary indicators characterising the curriculum

Educational contents	Hours	ECTS
General courses	150	8
Major courses	380	24
Specialised courses	1110	64
Apprenticeship		4
Master thesis		20
Total	1640	120

Total number of ECTS credits, that student has to obtain at the classes requiring the direct participation of academic teachers	**96**
Total number of ECTS credits, that student has to obtain at the classes in fields of general and basic sciences	**8**
Total number of ECTS credits, that student has to obtain at the practical classes	**59**

Practical classes are **53,4 %** of classes specified in the curriculum (standard of education requires minimum **50 %)**

Classes like seminars, auditorial and laboratory exercises and design are **58,8 %** of classes specified in the curriculum (standard of education requires minimum **50 %)**

4. Conditions of SURE curriculum implementation

a) Academic teachers constituting the staffing minimum

2nd level study Sustainable Urban Rehabilitation is conducted as the speciality within the field of Architecture. Therefore the academic teachers constituting the minimum staffing for field of Architecture and the minimum staffing for the specialisation Sustainable Urban Rehabilitation are the same.

b) The relations between the number of academic teachers constituting the staffing minimum and the number of students

The number of students studying at the specialty Sustainable Urban Rehabilitation must be set individually by each university in order to meet the proportion of academics constituting a staffing minimum to the number of students required by the *Decree on conditions for conducting study in particular field and at particular level of education*.

5. Other documents

a) The method of using the international patterns

Curriculum of the 2nd cycle study in specialty Sustainable Urban Rehabilitation in field of architecture takes into account the requirements of Council Directive No. 85/384 / EEC of 10 June 1985 *„on the mutual recognition of diplomas, certificates and other evidence of formal qualifications in architecture, including measures to facilitate the effective exercise of the right of establishment and freedom to provide services".*

SURE Curriculum was developed based on international cooperation of four universities (Politechnika Lubelska – Poland, Universita degli Studi di Roma La Sapienza – Italy, Universidad Politecnica de Madrid – Spain, Vilniaus Gedimino Technikos Universitetas – Lithuania) and three non-governmental organisations (PKN ICOMOS - Polski Komitet Narodowy Miedzynarodowej Rady Ochrony Zabytkow – Poland, Fondazione Romualdo Del Bianco – Italy, Fondazione Flaminia – Italy).

b) Methods of taking into account the results of monitoring careers of alumni

Careers of SURE alumni are to be monitored based on the questionnaire system. Results of monitoring careers of SURE alumni are the tool used in assessment of the usefulness of learning outcomes assumed and achieved for the curriculum in relation to the entrance to the labour market, and the level of usefulness of the acquired knowledge, skills and competences in professional work.

c) methods of taking into account the results of compatibility analysis of the assumed learning outcomes and the labour market needs

The results of analysis and assessment of compatibility of the assumed learning outcomes and the labour market needs are aimed at improvement of the curriculum in the field of learning objectives and achieving the assumed learning outcomes by the students

c) evidence that at least half of the curriculum is implemented in the form of classes requiring direct participation of academic teachers

- Number of ECTS credits - **120**
- Number of hours per each ECTS credit - **25**
- Number of hours conducted during the study - **120x25=3000**
- Number of hours implemented as didactic classes requiring the direct participation of academic teachers - **1640 which equals 54,7 %**

d) Evidence that the curriculum enables students election of learning modules of not less than 30% of the ECTS credits

- Number of ECTS credits - **120**
- Number of ECTS credits for the modules to be chosen by student – **37 which equals 30,8 %**

e) method of interaction with external stakeholders

Cooperation with external stakeholders in the didactic process takes place through:

- participation of the representatives of external units in conducting classes, diploma thesis, guest lectures and meeting with students,
- participation of the representatives of enterprises and institutions in events important for the Faculty, e.g. inauguration of the academic year, jubilees, scientific conferences, contests, exhibitions,
- cooperation of external stakeholders with students research groups,
- cooperation with employers in organisation of students' apprenticeship,
- cooperation with chambers of professional engineers, architects and urban planners in the evaluation of education programs, the process of obtaining the diploma and professional licenses.

Annex 1 Learning outcomes

Table 1. Learning outcomes for second cycle study in field of Architecture, Specialty: „Sustainable Urban Rehabilitation”

Description of the learning outcomes for study in field of Architecture Specialty: " Sustainable Urban Rehabilitation "	
Education level:	**Second cycle study**
Education profile:	**General academic**
Knowledge	
Person having second level qualifications	
A2A_W01	has extended knowledge of the architectural, urban and conservation design and spatial planning
A2A_W02	has extended knowledge of the history and theory of architecture, theory of urban design, fine arts, engineering disciplines and humanities
A2A_W03	has extended knowledge in shaping the human environment taking into account the relations between humans and architectural objects and the surrounding space
A2A_W04	knows the procedures for developing architectural projects taking into account social factors
A2A_W05	knows the rules for resolving functional, utility and construction issues to the extent ensuring safety and comfort of objects use, including to disabled persons
A2A_W06	knows rules for resolving constructional, engineering and technological problems in various architectural objects
A2A_W07	knows the technical and construction regulations and procedures as well as the issues related to economics of designing
A2A_W08	knows the rules regarding the execution and use of the architectural object and the organization of the investment process
A2A_W09	knows the rules of integration of plans with the national planning projects
A2A_W10	knows the rules of green building design and urban design in the context of sustainable development

A2A_W11	knows and understands the interdisciplinary conditionings of urban design
A2A_W12	knows and understands the role of the architectural profession in the society and applies the principles of professional ethics
A2A_W13	knows and understands the rules of shaping space of cities and regions
A2A_W14	knows the rules and methods of conservation of historic buildings, historic urban complexes and cultural landscape
A2A_W15	knows and understands the basic problems of regional and spatial planning in the context of national spatial policy implementation
A2A_W16	has a basic knowledge of management, including quality management and business activity
A2A_W17	knows the materials and technologies used in modern construction
A2A_W18	knows and understands the basic concepts and rules of the protection of intellectual property and copyright
A2A_W19	has the knowledge necessary to understand the economic determinants of the architect's activity and is able to take them into account in engineering practice
Skills	
Person having second level qualifications	
A2A_U01	can obtain information from the literature, databases and other properly selected sources; also in a foreign language considered to be the language of international communication in the field of architecture and urban planning
A2A_U02	can integrate the information obtained, make their interpretation and critical evaluation, as well as draw conclusions, and formulate and justify opinions comprehensively for the purposes of complex architectural design
A2A_U03	is able to elaborate advanced architectural designs of buildings and their surroundings, in accordance with technical, utilitarian, aesthetic and cultural requirements
A2A_U04	has the skills to elaborate the planning project, including local plans

A2A_U05	is able to carry out the architectural and historical research and to formulate restoration conclusions
A2A_U06	is able to elaborate the design and adaptive study of architectural monuments and historical urban complexes
A2A_U07	is able to assess the usefulness and possibility of using modern materials, techniques and technologies
A2A_U08	is able to elaborate the spatial management plans
A2A_U09	has the language skills in fields of architecture and urban planning, in line with skills specified for B2 + level of the Common European Framework of Reference for Languages
A2A_U10	knows how to use information and communication technologies appropriate for the implementation of architectural, urban planning, restoration and spatial planning projects
A2A_U11	is able to integrate knowledge from different fields of science (theory of architecture and urban planning, fine arts, technical sciences and humanities) in solving project tasks
A2A_U12	is able to critically assess the architectural work or urban layout taking into account the relations among people and architectural objects and the surrounding space
A2A_U13	is able to shape the human environment taking into account the relations among humans and architectural objects and surrounding space in the context of sustainable development
A2A_U14	is able to elaborate spatial development project for areas of different sizes, taking into account the non-technical factors and predicting the consequences of planning decisions made
A2A_U15	has the skills in the use of various techniques in order to present the architectural and planning elaboration
A2A_U16	has the skills necessary to undertake research and creative activity in the field of architectural and urban design
A2A_U17	knows how to elaborate the urban program (e.g. the revitalization program)
A2A_U18	knows how to valorise the structured space and to design its restoration

A2A_U19	is able to elaborate the project of the adaptation of the historic architectural object / group of objects for the new function
A2A_U20	is able to design the land use of the surroundings of the historical building and the urban space in the historic city structures
A2A_U21	has the background necessary to take up a job and knows the safety rules associated with this work
A2A_U22	is able to shape the building structure and choose modern technological solutions for improving the internal environment of the building, to increase its energy efficiency and reduce the negative impact on the environment
Social competence	
Person having second level qualifications	
A2A_K01	- in performing specified tasks - is able to work independently, to work in a team and manage a team
A2A_K02	is responsible for the accuracy of the obtained results of his/her own work and the for the evaluation of the work of a subordinate unit
A2A_K03	independently complements and extends knowledge of modern trends in architectural and urban design
A2A_K04	is aware of the design in accordance with the rules of sustainable development in architecture and urban planning
A2A_K05	is responsible for the safety of the own work and the work of the team
A2A_K06	is aware of the necessity to raise professional and personal competences
A2A_K07	is able to formulate and present opinions on architecture, urban design, preservation of monuments, and spatial planning
A2A_K08	understands the need for providing the public with knowledge about architecture and urban planning
A2A_K09	communicates information in the field of architecture and urban planning to the public in a commonly understandable way
A2A_K10	respects the economic and financial rules of business activity of enterprises, follows the principles of ethics

A2A_K11	understands the role of the architect and urban planner; actively participates in the life of the city, region and country; takes care of the maintenance of the history and traditions of the local communities
A2A_K12	understands the need of the respect for cultural heritage
A2A_K13	understands the of energy-efficient design rules and understands the need for using the energy efficient solutions

Note:

A – education in field of Architecture
2 – second cycle study
A – general academic profile

W – category: knowledge
U – category: skills
K – category: social competence
01, 02, 03 and next – the learning outcome number

Annex 2 Coverage of the learning outcomes

Table 1a. Coverage of the learning outcomes pointed in the Article 46 (1) of Directive 2005/36/CE by the learning outcomes for second cycle study in field of Architecture, Specialty: „Sustainable Urban Rehabilitation"

Name of the field of study:	**Architecture** **Specialty: "Sustainable Urban Rehabilitation"**	
Education level:	**Second cycle study**	
Education profile:	**General academic**	
Knowledge and skills symbol	Knowledge and skills for the training of university level, of which architecture is the principal component	The reference to the learning outcomes for SURE curriculum
a)	ability to create architectural designs that satisfy both aesthetic and technical requirements	A2A_W01 A2A_W03 A2A_W04 A2A_W05 A2A_U03 A2A_U06 A2A_U09 A2A_U11 A2A_U16 A2A_U19 A2A_K01 A2A_K02 A2A_K04 A2A_K07
b)	adequate knowledge of the history and theories of architecture and the related arts, technologies and human sciences	A2A_W02 A2A_U11 A2A_K07
c)	knowledge of the fine arts as an influence on the quality of architectural design	A2A_U11 A2A_U18 A2A_U19 A2A_K07 A2A_K12

d)	adequate knowledge of urban design, planning and the skills involved in the planning process	A2A_W11 A2A_W13 A2A_W15 A2A_U04 A2A_U08 A2A_U09 A2A_U14 A2A_U16 A2A_U17 A2A_U20 A2A_K01 A2A_K02 A2A_K04 A2A_K07
e)	understanding of the relationship between people and buildings, and between buildings and their environment, and of the need to relate buildings and the spaces between them to human needs and scale	A2A_W03 A2A_W04 A2A_W05 A2A_U12 A2A_U13
f)	understanding of the profession of architecture and the role of the architect in society, in particular in preparing briefs that take account of social factors	A2A_W12 A2A_U09 A2A_K01 A2A_K02 A2A_K03 A2A_K05 A2A_K06 A2A_K08 A2A_K09 A2A_K11
g)	understanding of the methods of investigation and preparation of the brief for a design project	A2A_U01 A2A_U02 A2A_U05 A2A_U10 A2A_U11 A2A_U15
h)	understanding of the structural design, constructional and engineering problems associated with building design	A2A_W05 A2A_W06 A2A_W07 A2A_W10 A2A_W17

		A2A_U21 A2A_K13
i)	adequate knowledge of physical problems and technologies and of the function of buildings so as to provide them with internal conditions of comfort and protection against the climate	A2A_W05 A2A_W07 A2A_W14 A2A_U07 A2A_U13 A2A_U21 A2A_U22 A2A_K03 A2A_K13
j)	the necessary design skills to meet building users' requirements within the constraints imposed by cost factors and building regulations	A2A_W05 A2A_U13 A2A_U22 A2A_K10 A2A_K13
k)	adequate knowledge of the industries, organisations, regulations and procedures involved in translating design concepts into buildings and integrating plans into overall planning	A2A_W08 A2A_W09 A2A_W15 A2A_W16 A2A_W18 A2A_K04 A2A_K10

Table 2b. Coverage of the learning outcomes for the area of education by the learning outcomes for second cycle study in field of Architecture, Specialty: „Sustainable Urban Rehabilitation"

Name of the field of study:	**Architecture** **Specialty: "Sustainable Urban Rehabilitation"**	
Education level:	**Second cycle study**	
Education profile:	**General academic**	
Learning outcome symbol	Learning outcomes for the area of education in technical sciences	The reference to the learning outcomes for study in field of Architecture
Knowledge		
Person having second level qualifications		
T2A_W01	has expanded and thorough knowledge of mathematics, physics, chemistry and other areas relevant to the studied field of study, useful for formulating and solving complex tasks related to the studied field of study	A2A_W01 A2A_W06 A2A_L15
T2A_W02	has detailed knowledge within the fields of study related to the studied field of study	A2A_W01 A2A_W02 A2A_W03 A2A_W05 A2A_W06 A2A_L11 A2A_L13 A2A_L14 A2A_L17
T2A_W03	has got well-ordered, theoretically-based general knowledge covering key issues of the studied field of study	A2A_W03 A2A_W04 A2A_L10
T2A_W04	has got theoretically-based detailed knowledge related to the selected issues of the studied field of study	A2A_W01 A2A_W06 A2A_L10 A2A_L11 A2A_L17

T2A_W05	has knowledge about development trends and the most important new achievements in fields of science and scientific disciplines relevant to the studied field of study and related scientific disciplines	A2A_W02 A2A_W06 A2A_W07 A2A_W08 A2A_W09 A2A_L10 A2A_L11 A2A_L13 A2A_L14 A2A_L15 A2A_L17
T2A_W06	has a basic knowledge of the life cycle of the equipment, facilities, and technical systems	A2A_W05 A2A_W08 A2A_L14
T2A_W07	knows the basic methods, techniques, tools and materials used in solving simple engineering problems within the studied field of study	A2A_W01 A2A_W05 A2A_W06 A2A_L13 A2A_L15 A2A_L17
T2A_W08	has knowledge necessary to understand the social, economic, legal and other non-technical determinants of engineering activities	A2A_W02 A2A_W03 A2A_W04 A2A_W07 A2A_W09 A2A_L10 A2A_L11 A2A_L13 A2A_L14 A2A_L15 A2A_L16 A2A_L18 A2A_L19
T2A_W09	has a basic knowledge of management, including quality management, and business activity	A2A_W07 A2A_W08 A2A_W09 A2A_L16
T2A_L10	knows and understands the basic concepts and rules of the protection of industrial property and copyright as well as the need for of intellectual	A2A_W04 A2A_L12 A2A_L18

	property management; is able to use the resources of patent information	
T2A_L11	knows general rules of creation and development of forms of individual entrepreneurship, using knowledge of fields of science and scientific disciplines relevant to the studied field of study	A2A_W08 A2A_L16 A2A_L19
Skills		
1. General skills (not related to the area of engineering education)		
Person having second level qualifications		
T2A_U01	can obtain information from the literature, databases and other properly selected sources; also in a foreign language considered to be the language of international communication in field of studied field of study; can integrate the information obtained, make their interpretation and critical evaluation, as well as draw conclusions, and formulate and comprehensively justify opinions	A2A_U01 A2A_U02 A2A_U06 A2A_U10
T2A_U02	is able to communicate using a variety of techniques in a professional environment, and in other environments, also in English or other foreign language recognized as the language of international communication in the studied field of study	A2A_U03 A2A_U06 A2A_U10 A2A_U15
T2A_U03	is able to prepare a scientific elaboration and a brief research report presenting the results of own scientific research in English or a foreign language considered primal in the fields of science and scientific disciplines relevant to the studied field of study	A2A_U15 A2A_U16
T2A_U04	is able to prepare and present oral presentation concerning the specific issues of the studied field of study in a foreign language	A2A_U01 A2A_U17
T2A_U05	is able to determine the directions of further education and to carry out the process of self-education	A2A_U03 A2A_U04 A2A_U05 A2A_U06 A2A_U07 A2A_U10 A2A_U11

		A2A_U15 A2A_U16
T2A_U06	has the language skills in the fields of science and scientific disciplines relevant to the studied field of study, in line with skills specified for B2 + level of the Common European Framework of Reference for Languages	A2A_U09
2. Basic engineering skills		
Person having second level qualifications		
T2A_U07	knows how to use information and communication technologies appropriate for the implementation of the tasks typical for engineering activity	A2A_U01 A2A_U02 A2A_U03 A2A_U06 A2A_U10
T2A_U08	is able to plan and carry out experiments, including measurements and computer simulations, to interpret the obtained results and to draw conclusions	A2A_U04 A2A_U05 A2A_U08 A2A_U16
T2A_U09	can use the analytical, simulation and experimental methods to formulate and solve engineering tasks and simple research problems	A2A_U08
T2A_U10	can - in formulating and solving engineering tasks - integrate knowledge of the fields of science and scientific disciplines relevant to the studied field of study and apply system approach, taking into account the non-technical aspects as well	A2A_U03 A2A_U05 A2A_U11 A2A_U12 A2A_U13 A2A_U22
T2A_U11	can formulate and test hypotheses related to engineering problems and simple research problems	A2A_U04 A2A_U05 A2A_U08 A2A_U11 A2A_U13 A2A_U14 A2A_U15 A2A_U16
T2A_U12	is able to assess the usefulness and the possibility of using of new achievements (techniques and technologies) within the studied field of study	A2A_U03 A2A_U07 A2A_U08 A2A_U15

T2A_U13	has the background necessary to work in an industrial environment and knows the safety rules associated with this work	A2A_U21
T2A_U14	is able to make a preliminary economic analysis of undertaken engineering activities	A2A_U04 A2A_U08 A2A_U14
3. Skills directly related to solving engineering tasks		
Person having second level qualifications		
T2A_U15	is able to make a critical analysis of the way of functioning and to assess - especially in conjunction with the studied field of study - the existing technical solutions, in particular equipment, facilities, systems, processes, services	A2A_U03 A2A_U07 A2A_U12 A2A_U13 A2A_U18
T2A_U16	is able to suggest improvements (refinements) of existing technological solutions	A2A_U03 A2A_U13 A2A_U19 A2A_U20
T2A_U17	is able to identify and formulate a specification of complex engineering tasks of a practical nature, characteristic for studied field of study, including the untypical tasks, taking into account their non-technical aspects	A2A_U05 A2A_U12 A2A_U14 A2A_U17 A2A_U19 A2A_U20 A2A_U22
T2A_U18	is able to assess the usefulness of methods and tools to solve engineering tasks characteristic for the studied field of study, can notice the limitations of these methods and tools; using also new conceptual methods - is able to solve complex engineering tasks specific to the studied field of study, including unusual tasks and tasks with the research component	A2A_U07 A2A_U14 A2A_U17
T2A_U19	is able to - in accordance with the specification set taking into account the non-technical aspects - design complex device, object, system, or process related to the scope of the studied field of study, and to realize this project - at least partly - by using appropriate methods, techniques and tools, including adjustment of the existing or development of new tools for this purpose	A2A_U04 A2A_U06 A2A_U08 A2A_U17

Social competence		
Person having second level qualifications		
T2A_K01	understands the need for lifelong learning; is able to inspire and organize the learning process of other persons	A2A_K06 A2A_K08 A2A_K11
T2A_K02	is aware of the importance and understands the non-technical aspects and the results of engineering activities, including its impact on the environment, and responsibility for undertaken decisions associated with this	A2A_K02 A2A_K08 A2A_K10 A2A_K11 A2A_K12 A2A_K13
T2A_K03	is able to interact and work in a group, taking different roles within the group	A2A_K01 A2A_K03
T2A_K04	is able to properly define priorities for implementation of the tasks specified by him/her or by other persons	A2A_K01 A2A_K04
T2A_K05	correctly identifies and resolves dilemmas related to the pursuit of the profession	A2A_K05 A2A_K08
T2A_K06	is able to think and act in a creative and entrepreneurial way	A2A_K06 A2A_K10
T2A_K07	is aware of the social role of technical university graduate, particularly understands the need for the formulation and communication to the public the information and opinions on the achievements of technology and other aspects of engineering (in particular through the mass media); endeavours to give such information and opinions in a commonly understood way, reasoning the different points of view	A2A_K07 A2A_K08 A2A_K09 A2A_K11

Note:

T – technical sciences
2 – second cycle study
A – general academic profile

W – category: knowledge
U – category: skills
K – category: social competence
01, 02, 03 and next – the learning outcome number

Table 2c. Coverage of the learning outcomes for the area of education in field of technical sciences leading to acquiring engineering competences by the learning outcomes for second cycle study in field of Architecture, Specialty: „Sustainable Urban Rehabilitation"

Name of the field of study:	**Architecture** **Specialty: "Sustainable Urban Rehabilitation"**		
Education level:	**Second cycle study**		
Education profile:	**General academic**		
Symbol of the learning outcome leading to acquiring engineering competences	Description of the learning outcome leading to acquiring engineering competences	Symbol of the learning outcome for the field of study	Notes
KNOWLEDGE			
Person having second level qualifications			
InzA_W01	has a basic knowledge of the life cycle of the equipment, facilities, and technical systems	A2A_W05, A2A_W08, A2A_L14	InzA_W01 matches T2A_W06
InzA_W02	knows the basic methods, techniques, tools and materials used in solving simple engineering problems within the studied field of study	A2A_W01, A2A_W05, A2A_W06, A2A_L13, A2A_L15, A2A_L17	InzA_W02 matches T2A_W07
InzA_W03	has knowledge necessary to understand the social, economic, legal and other non-technical determinants of engineering activities	A2A_W02, A2A_W03, A2A_W04, A2A_W07, A2A_L9, A2A_L10, A2A_L11, A2A_L12, A2A_L13, A2A_L14, A2A_L15, A2A_L16, A2A_L18, A2A_L19	InzA_W03 matches T2A_W08
InzA_W04	has a basic knowledge of management, including quality management, and business activity	A2A_W07, A2A_W08, A2A_W09, A2A_L16	InzA_W04 matches T2A_W09

InzA_W05	Knows typical engineering technologies within the studied field of study	A2A_W01, A2A_W03, A2A_W04, A2A_W06, A2A_L10, A2A_L11, A2A_L17	InzA_W05 matches T2A_W03 i T2A_W04
SKILLS			
Person having second level qualifications			
InzA_U01	is able to plan and carry out experiments, including measurements and computer simulations, to interpret the obtained results and to draw conclusions	A2A_U04, A2A_U05, A2A_U08, A2A_U16	InzA_U01 matches T2A_U08
InzA_U02	can use the analytical, simulation and experimental methods to formulate and solve engineering tasks and simple research problems	A2A_U08	InzA_U02 matches T2A_U09
InzA_U03	in formulating and solving engineering tasks – can recognise their systemic and non-technical aspects	A2A_U03, A2A_U05, A2A_U11, A2A_U12, A2A_U13, A2A_U22	InzA_U03 matches T2A_U10
InzA_U04	is able to make a preliminary economic analysis of undertaken engineering activities	A2A_U04, A2A_U08, A2A_U14	InzA_U04 matches T2A_U14
InzA_U05	is able to make a critical analysis of the way of functioning and to assess - especially in conjunction with the studied field of study - the existing technical solutions, in particular equipment, facilities, systems, processes, services	A2A_U03, A2A_U07, A2A_U12, A2A_U13, A2A_U18	InzA_U05 matches T2A_U15
InzA_U06	is able to identify and formulate a specification of simple engineering tasks of a practical nature, characteristic for studied field of study	A2A_U05, A2A_U12, A2A_U14, A2A_U17, A2A_U19, A2A_U20, A2A_U22	InzA_U06 matches T2A_U17

InzA_U07	is able to assess the usefulness of the routine methods and tools to solve simple engineering task of a practical nature, characteristic for the studied field of study, can use and apply the proper method and tools	A2A_U07, A2A_U14, A2A_U17	InzA_U07 matches T2A_U18
InzA_U08	is able to - in accordance with the specification set - design and develop simple device, object, system, or process typical for the studied field of study, using appropriate methods, techniques and tools	A2A_U04, A2A_U06, A2A_U08, A2A_U17	InzA_U08 matches T2A_U19
SOCIAL COMPETENCES			
Person having second level qualifications			
InzA_K01	is aware of the importance and understands the non-technical aspects and the results of engineering activities, including its impact on the environment, and responsibility for undertaken decisions associated with this	A2A_K02, A2A_K08, A2A_K10, A2A_K11, A2A_K12, A2A_K13	InzA_K01 matches T2A_K02
InzA_K02	is able to think and act in an entrepreneurial way	A2A_K06, A2A_K10	InzA_K02 matches T2A_K06

Note:

T – technical sciences
2 – second cycle study
A – general academic profile

W – category: knowledge
U – category: skills
K – category: social competence
01, 02, 03 and next – the learning outcome number

Annex 3

Description of learning modules for second cycle study in field of Architecture, Specialty: „Sustainable Urban Rehabilitation”

Second cycle studies in field of Architecture

Specialty “Sustainable Urban Rehabilitation”

Syllabus

Polish language and culture

Code of the course:	IIAB1
Year:	1
Semester:	1
Form of study:	Full-time study
Form of classes and number of hours in semester:	30
Lecture	-
Exercises	-
Laboratory	30
Design	-
Number of ECTS credits:	1
Method of assessment:	Assessment – tests
Language of instruction:	English

The purpose and objective of the course	
C1	Acquisition and development of language skills within four abilities: listening, reading, speaking and writing
C2	Acquisition and development of ability of using Polish language in professional situations
C3	Acquisition and development of ability of using literature, databases and other sources in Polish in field of architecture and urban planning

Initial requirements in terms of knowledge, skills and other competences	
	None

Learning outcomes	
	Skills:
	Student:
EK1	Knows specialised vocabulary included in the material from the semester
EK2	Is able to use lexical-grammatical structures discussed in the semester.
EK3	Can talk on topics from the field of architecture and urbanism discussed in the semester.

EK4	Can make an oral presentation in Polish on the architecture of the city, region or country.
EK5	Can write an article in Polish about the architecture of the city, region or country based on his/her own presentation
	Social competences:
	Student:
EK6	understands the need for providing the society with knowledge about architecture and urban planning
EK7	understands the role of the architect and urban planner; actively participates in the life of the city, region and country; takes care of the maintenance of the history and traditions of the local communities
EK8	is able to formulate and present opinions on architecture and urban planning

Programme content	
Form of classes – laboratory	
	Curriculum contents
L1	Basic facts about Poland. Poland and its tourist attractions. Greetings and saying goodbye. Introducing oneself – formal/informal. Polish alphabet. Pronunciation and stress in Polish. Basic phonetic rules.
L2	Personal data. Making small talk. Names of countries and nationalities. Personal pronouns. Conjugation *–m, -sz*. Verb *być*. Numbers 0-100.
L3	Names of everyday objects. Nominative of singular nouns and adjectives. Masculine, feminine and neuter gender of nouns. Colours. Demonstrative pronouns. General questions/positive and negative answers to questions.
L4	Description of a person. Adjectives in masculine, feminine and neuter. Conjugations *–ę, -isz/-ysz* and *–ę, -esz.*
L5	Names of jobs, hobbies and sports. Instrumental case of singular nouns. Forms*: rok, lat,lata*. Posessive pronouns. Shopping: vocabulary and expressions.
L6	Accusative of singular nouns and adjectives. Forms: *złoty, złote, złotych/ grosz, grosze, groszy.* Shopping centre, names of shops and goods.
L7	Presentations in Polish about the architecture of the city, region or country .

Didactic methods	
1	Working with textbook
2	Conversation on the given topics
3	Presentations
4	Using internet
5	Writing an article

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	30
Participation on laboratory classes	
Student's own work, including:	15

Preparation to laboratory classes	
Total time of student work	45
Summary number of ECTS credits for the course:	1
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1.	Stempek I., Stelmach A., Dawidem S., Szymkiewicz A., *Polski krok po kroku*, A1, Polish-courses.com, 2010.
Additional literature	
1.	Polish for Foreigners, Wydawnictwo Edgard, 2010 (audio course).
2.	Machowska J., *Gramatyka? Dlaczego nie?!*, Kraków 2010
3.	Szymkiewicz A., Małolepsza M., *Hurra!!! Po polsku 1* – podręcznik i płyta CD, Prolog
4.	Materiały autorskie – m.in. prezentacja "What do you know about Poland?"
5.	Poland and its tourist attractions – film promocyjny Krajowej Izby Gospodarczej

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
EK 1	A2A_U01 A2A_U09	C1, C2, C3	L2, L3, L4, L5, L6	1,2	O1
EK 2	A2A_U09	C1	L1, L2, L3, L4, L5	1	O1
EK 3	A2A_U09	C1, C2	L6, L2, L3, L4, L5	2	O2
EK4	A2A_U01 A2A_U09	C3	L7	3,4	O2
EK5	A2A_U01 A2A_U09	C3	L7	5	O2
EK6	A2A_K08	C2, C1, C3	L7	3,5	O2
EK7	A2A_K11	C2, C1, C3	L7	3,5	O2
EK8	A2A_K07	C2, C1	L6	2	O2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
O1	Tests checking knowledge of the chapters from the textbook	50%
O2	Presentation in accordance with the presentation	50%

	assessment sheet	

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Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

General building engineering

Code of the course:	IIAB2
Year:	1
Semester:	I
Form of study:	Full-time study
Form of classes and number of hours in semester:	60
Lecture	30
Exercises	
Laboratory	
Design	30
Number of ECTS credits:	3
Method of assessment:	Lecture – examination, design – approval
Language of instruction:	English

The purpose and objective of the course	
O1	Gaining the ability to apply selection criteria of structural elements, finishing and insulation in buildings constructed in traditional and industrialized technology
O2	Getting the skills of proper shaping elements and selected buildings, and developing appropriate architectural – construction projects using modern technologies in construction

Initial requirements in terms of knowledge, skills and other competences	
1	Knowledge of the basic properties of building materials and products used in construction
2	Knowledge of and ability to draw up technical drawings of buildings
3	Knowledge of computer programs for text editing, drawings and engineering calculations

Learning outcomes	
	Knowledge:
	Student:
LO 1	Knows materials and technologies used in modern construction
LO 2	Knows the rules for resolving construction, engineering and technology problems in a variety of architectural objects
	Skills:
	Student:
LO 3	can assess the usefulness and the possibility of using modern materials, techniques and technologies
LO 4	Can design complex structural components made of basic and advanced building

	materials using appropriate technical rules
	Social competences:
	Student:
LO 5	independently complements and extends knowledge of modern trends in architectural designing
LO 6	is responsible for the accuracy of the obtained results of his/her own work and the for the evaluation of the work of a subordinate unit

Programme content	
Form of classes – lecture	
	Curriculum contents
L1	Beam-and-block floors, general principles of their constructing and technical characteristics. Balconies and terraces.
L2	Balconies, types, general principles of constructing and technical characteristics. Elimination of thermal bridges by using, among others, insulation anchors with isothermal reinforcement.
L3	Glass in building engineering; types and use (facades, roofs, stairs), technology. Details of construction.
L4	Stone facades – the use of stone in the new buildings. Types and characteristics of the stone, fastening methods, corrosion protection of stone I.
L5	The technology of the insulation on the inside in existing buildings. Types of traditional and modern materials, installation of insulation panels, wall insulation problems on the inside.
L6	The walls – double-layer walls “heavy – dry” method, layered walls, diaphragm walls – support of curtain wall, construction of lintels.
L7	Flat roofs – general information. Roofs: full, vented, ventilated and in inverted system. Roofs with greenery.
L8	Steel constructions in architecture; types, applying, technologies
L9	Modern and traditional insulations against the water used in traditional and the historic building engineering.
L10	Modern Technologies in building engineering i.a. Cobiax cellings, Rectolight beam-and-block floors, balconies and terraces construction –Schlüter system, walls made of hemp, insulation laid over the rafters, chimneys system, carpet stairs – glass, wooden, raised flooring, industrial flooring, window blinds, façade cladding e.g. sandwich panels, trapezoidal sheets, fiber boards – cement, ceramic hobs, laminates, and others.

Form of classes – design	
	Curriculum contents
D1	Beam-and-block floors, ceiling tie beams. Rules for the performance of structural drawings. Separating ribs – construction, functions. Strengthening the ceilings under the partition walls. Ceilings reinforcement by the support bearings. Construction of the ceilings by the holes, monolithic refill and refill using hollow bricks
D2	Correction of view of beam-and-block floor with a set of construction details
D3	“Żerańska Brick “ – wall, ceiling and staircases elements. Rules of large-panel

	system elements placement on the floor section. Details of joining ceilings and walls
D4	Correction of section of ceiling in large-panel system building technology with the set of construction details
D5	Bipartite vented flat roof – rules of construction. Hollow core roof plates. Principles of elaborating flat roof section. Construction details of flat roof, cornice, attic.
D6	Correction of flat roof section with set of construction details.
D7	Drawings of flat roofs constructional details – green and reversed roof, drainage of roofs, expansion joints.
D8	Correction of drawings of flat roofs constructional details
D9	Elevation design for the building of complicated. Design of elevation for a building with a complex, developed shape, using modern building materials. Construction details, i.a. double-layer walls "heavy – dry" method, layered walls, diaphragm walls – support of curtain wall, isothermal carriers;, glass façades, stone façades, façades of architectural concrete, wooden façades, façades of fiber – cement panels, balconies, terraces, stairs on the basis and other.
D10	Correction of drawings mentioned in D9
D11	Defence of particular design tasks

Didactic methods	
1	Multimedia presentations, including theoretical content
2	Independent execution of the design by students
3	Project presentation and comments of the project

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	60
Participation in lectures	30
Participation in design classes	30
Student's own work, including:	30
Preparation to examination	10
execution of the design	20
Total time of student work	90
Summary number of ECTS credits for the course:	3
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	2

Basic literature	
1	A. Watts. Modern Construction Handbook, Springer, Wien, New York 2001
2	V. McLeod, Encyclopedia of Detail in Contemporary Residential Architecture, London 2010
3	Ch. Schnittich (Ed.), In Detail Work Environments. Spatial concepst, Usage strategies, Communications, Brickhauser, Munich, 2011
4	S. Murray, Contemporary Curtain Wall Achitecture, Princeton Architectural Press, New

	York, 2009
5	Architectural Standard - Ernst & Peter Neufert - Architects' Data,
6	Ch. Killar, R. Davis (ed.) *Details, Technology and Form*, AsBuilt, NY, 2012
7	Ch. Killar, R. Davis (ed.) *Details in Contemporary Architecture*, AsBuilt, NY, 2007

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W17	O1	L1 – L10	1, 2	A1, A2, A3
LO 2	A2A_W06	O1	L1 – L10	1, 2	A1, A2, A3
LO 3	A2A_W06	O1	L1 – L10	1, 2	A1, A2, A3
LO 4	A2A_W06 A2A_U07	O1, O2	D1, D3, D5, D7, D9	1, 2, 3	A2, A3
LO 5	A2A_K03	O1, O2	D5, D7, D9, D10	2, 3	A1, A2, A3
LO 6	A2A_K02	O1, O2	D2, D4, D6, D8, D10, D11	2, 3	A2, A3

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Examination	60%
A2	Design	100%
O3	Project defence	50%

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Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Management of the investment process

Code of the course:	IIAB3
Year:	1
Semester:	2
Form of study:	Full-time study
Form of classes and number of hours in semester:	30
Lecture	15
Exercises	15
Number of ECTS credits:	2
Method of assessment:	Lecture and exercises assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Acquainted with the decision-making problems in the management of investment project
O2	Gaining skills of analysis and assessment of risk occurring during project implementation

Initial requirements in terms of knowledge, skills and other competences	
1	Knowledge of general construction and economics of investment process

Learning outcomes	
	Knowledge:
	Student:
LO 1	Knows theoretical basics of solving the decision-making problems in the management of investment project
LO 2	Identifies the sources and know the methods of risk assessment occurring during project implementation
	Social competences:
	Student:
LO 3	follows the economic principles on the implementation of a construction project by a executive company

Programme content	
Form of classes – lecture	
	Curriculum contents
L1	Management – planning, organising, motivating, controlling and analysing of the results, keeping balance with environment
L2	PRINCE 2 – project in controlled environment
L3	Deciding - the essence of deciding, setting goals, planning, control

L4	Normalization and standardization in construction
L5	Risk analysis in construction enterprises
L6	Intelligent Building Management Systems
L7	Exemplary realizations of construction projects

Programme content	
Form of classes – exercises	
	Curriculum contents
E1	Management – planning, organising, motivating, controlling and analysing of the results, keeping balance with environment
E2	PRINCE 2 – project in controlled environment
E3	Deciding - the essence of deciding, setting goals, planning, control
E4	Normalization and standardization in construction
E5	Risk analysis in construction enterprises
E6	Intelligent Building Management Systems
E7	Exemplary realizations of construction projects
Didactic methods	
1	Multimedia presentations, including theoretical content

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	30
Participation in lectures	15
Participation in exercises	15
Student's own work, including:	
Preparation to examination	10
Preparation to exercises	10
Total time of student work	50
Summary number of ECTS credits for the course:	2
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, project classes)	1

Basic literature	
1	Value management guidelines. Department of Housing and Works. Government of Western Australia, 2005, http://www.treasury.wa.gov.au/cms/uploadedFiles/10_samf_vmg_082005.pdf
2	A guide to the Project Management Body of Knowledge PMBOK GUIDE, Project Management Institute, 2013
3	Managing Successful Projects with PRINCE2® 2017 Edition, AXELOS, 2017

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W08, A2A_W12, A2A_W16,	O1	L1 - L7, E1 – E7	1	A1
LO 2	A2A_W08, A2A_W12, A2A_W16	O2	L5, E5	1	A1
LO 3	A2A_K10	O1,O2	L1 - L7, E1 – E7	1	A1

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Ledtures assessment	60%
A2	Exercises assessment	60%

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Institution:	Lublin University of Technology

Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Introduction to the labour market

Code of the course:	IIAB4
Year:	2
Semester:	IV
Form of study:	Full-time study
Form of classes and number of hours in semester:	30
Lecture	15
Exercises	15
Laboratory	-
Design	-
Number of ECTS credits:	2
Method of assessment:	Lecture and exercises assessment
Language of instruction:	English

The purpose and objective of the course	
O1	To provide knowledge about the legal, economic and social aspects of the functioning of the labour market
O2	To provide basic information about taking up business and performing work on the basis of: contracts of employment and civil law contracts
O3	Presentation of rules enabling self-preparation for interviews and proper self-presentation
O4	To provide knowledge of key interpersonal skills and the ability to identify the areas which require further improvement

Initial requirements in terms of knowledge, skills and other competences	
1	basic knowledge of legal provisions concerning the profession of architect
2	the ability to present and perform graphical effects of their own work
3	basic economic and sociological knowledge in the profession of architect

Learning outcomes	
	Knowledge:
	Student:
LO 1	defines the basic concepts of the labour market and entrepreneurship.
LO 2	identifies legal norms and of economic and social principles effective on the labour market.
LO 3	identifies and characterizes principles of elaborating documentation regarding contracts using the relevant sources of law.
LO 4	indicates the source of his/her competitive advantage in the labour market.
LO 5	correctly describes the HR processes associated with the selection of employees
LO 6	lists and defines the formal and legal aspects of taking up business.

	Social competences:
	Student:
LO 7	has social skills, including interpersonal skills, that enable an effective presence at the labour market.
LO 8	has graphic workshop skills to prepare the portfolio
LO 9	has a pro-active approach to self acquisition and improvement of knowledge and skills.

Programme content	
Form of classes – lecture	
	Curriculum contents
L1	The notion of the labour market, its rules, labour market institutions, the notion of unemployment and its consequences
L2	Forms of employment. Basic issues of labour law: contract of employment. Contracts for the provision of services
L3	The process of acquiring employees for the organization Preparing the application documents: CV, portfolio, cover letters, reference letters.
L4	Preparing for an interview: self-presentation, interpersonal communication. Selective strategies and techniques. Savoir-vivre in the recruitment process.
L5	Basic knowledge in the field of taking up and pursuit of individual economic activity on the territory of Poland and Europe.

Programme content	
Form of classes – exercises	
	Curriculum contents
E1	Preparing the application documents: CV, portfolio, cover letters, reference letters.
E2	Preparing for an interview: self-presentation, interpersonal communication.
E3	Savoir-vivre in the recruitment process.
E4	Implementation of a shortened business plan of an architectural company.
E5	calculating the costs of running a sole proprietorship.

Didactic methods	
1	Conventional lecture with using multimedia presentations
2	Conversational lecture
3	Case study
4	Simulation of the recrystallization process in groups

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	**30**
Participation in lectures	15
Participation in exercises	15
Student's own work, including:	**20**

Individual preparation to examination	10
Individual preparation to exercises	10
Total time of student work	**50**
Summary number of ECTS credits for the course:	**2**
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	Corbanese V. & Rosas G. 2013. Surfing the labour market. Job search skills for young people. International Labour Office. PDF
2	Robertson A. 2015. Working out in Architecture. A student guide to getting a job and getting the best out of work experience. Architectural Association. PDF
3	CVs, COVER LETTERS, & TEACHING PORTFOLIOS. Career Development Center, Stanford University. PDF
4	Ward L. (ed.). 2004. LMI Matters! understanding labour market information. A toolkit for people who give advice and guidance on education and employment. LMI1 - Department for Education and Skills. PDF
Additional literature	
1	Current normative acts for the country.
2	Best architecture portfolio designs, https://www.archdaily.com/872418/the-best-architecture-portfolio-designs
3	Młodzikowska D., Lunden B. 2012. A one-man company. How to start and run a sole proprietorship / Jednoosobowa firma. Jak założyć i samodzielnie prowadzić jednoosobową działalność gospodarczą. BL INFO POLSKA. Gdansk.

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W16	O1, O2	L1, L2, L4, L5, E4	1-3	A2
LO 2	A2A_W16 A2A_W18 A2A_W19	O1, O2	L1, L2, L4, E2, E4, E5	1-3	A2
LO 3	A2A_W16	O1,O2	L1, L2, L5, E4, E5	1-3	A2
LO 4	A2A_W16 A2A_U21 A2A_K06	O3,O4	L3, L4, E2	1-4	A1
LO 5	A2A_W16	O3	L4, E1, E2	1-4	A1, A2

LO 6	A2A_W16	O2	L2, L4, L5, E4	1-2	A2
LO 7	A2A_K01 A2A_K10	O3, O4	L2, L3, L4, L5, E2, E3	1-4	A1, A2
LO 8	A2A_U07	O3	L3, L4, E1	1-3	A1
LO 9	A2A_K06	O4	L1, L2, L3, L4, L5, E2	1-3	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Elaboration of basic documents used in the recruitment process	50%
A2	Test of knowledge of labour market institutions, forms of employment and taking economic activity	50%

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Instutution:	ICOMOS Poland

Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Architectural Design

Code of the course:	IIAM1
Year:	1
Semester:	I
Form of study:	Full-time study
Form of classes and number of hours in semester:	75
Lecture	15
Exercises	-
Laboratory	-
Design	60
Number of ECTS credits:	5
Method of assessment:	Design assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Gaining knowledge on climate change and regeneration of the Cultural Heritage at building scale
O2	Gaining knowledge on solutions to overcome barriers for the regeneration and the retrofit of existing buildings
O3	Ability in the recognition of human factor impact in building retrofit and urban regeneration and in tackling it through the development of public private partnerships and other models and instruments
O4	Ability to solve design project issues related with adaptive reuse and temporary use of Cultural Heritage

Initial requirements in terms of knowledge, skills and other competences	
1	Basic knowledge on the impact of the built environment on climate change
2	Knowledge on building retrofit: main barriers and practices to overcome them
3	Abilities in identifying building architectural and construction characteristics, building identity and heritage value

Learning outcomes	
	Knowledge:
LO 1	on climate change related challenges affecting the building stock
LO 2	on solutions to overcome barriers for the regeneration and the retrofit of existing buildings
	Skills:
LO 3	in identifying strategies to upgrade the efficiency and the performances of buildings
LO 4	in defining solutions for adaptive reuse and temporary use of buildings with CH

	values
	Social competences:
LO 5	awareness of the impact of human behavior on renovation practices and solutions to tackle it

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	Introduction: definition of conceptual scope and terminology
L2	Climate change and regeneration of CH at building level: main challenges affecting the existing building stock and the urgency to regenerate it
L3	Regeneration and retrofitting processes and strategies for upgrading the efficiency and the performances of the existing building stock (densification, demolition and rebuilding, urban retrofitting, etc.). Main issues affecting existing buildings and main barriers for historical buildings retrofitting
L4	Social, environmental and economic dimensions of building retrofit and urban regeneration: the human factor and consumer behavior as a driver rather than a barrier for regenerating the existing buildings
L5	adaptive and temporary reuse of CH: practical strategies and skills for solving design project issues related to adaptive reuse, rehabilitation, reconstruction
Form of classes – design	
	Curriculum contents
D1	Identification of precondition for the renovation of the building asset through the valorization of Cultural Heritage
D2	Definition of strategies for adaptive reuse and temporary use of Cultural Heritage
D3	Design solutions for a given building/context

Didactic methods	
1	Theoretical concepts presentation, eventually supported by multimedia materials (videos, etc.)
2	Progressive presentation and evaluation of design work

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	**75**
Participation in lectures	15
Participation in design classes	60
Student's own work, including:	**60**
Individual elaboration of design	60
Total time of student work	**135**
Summary number of ECTS credits for the course:	5
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	4

Basic literature	
1	M. Eames, T. Dixon, M. Hunt, S. Lannon (Eds.), 2014, Urban Retrofitting for Sustainability. Mapping the Transition to 2050, Routledge, London
2	A. Troi, Z. Bastian (Eds.), 2015, Energy Efficiency Solutions for Historic Buildings: A Handbook, EURAC research/Passive House Institute. ISBN 978-3038216469
3	E.H.K. Yung, E.H.W. Chan, 2012, Implementation challenges to the adaptive reuse of heritage buildings: Towards the goals of sustainable, low carbon cities, Habitat International 36 (3) 352-361
Additional literature	
1	D. Barthel-Bouchier, 2016, Cultural Heritage and the Challenge of Sustainability, Routledge, London and New York
2	European Commission, 2015, Identifying macro-objectives for the life cycle environmental performance and resource efficiency of EU buildings, JRC Science and Policy Report
3	S. Syngellakis (Ed.), 2013, Retrofitting of Heritage Structures. Design and evaluation of strengthening techniques, Wessex Institute of Technology.

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W01, A2A_W03, A2A_W06, A2A_W07	O1, O2	L1, L2	1	A1
LO 2	A2A_W02, A2A_W03, A2A_W04, A2A_W05	O2	L2, L3, D1	1, 2	A1, A2
LO 3	A2A_U02, A2A_U03, A2A_U12, A2A_U15, A2A_U20	O2, O3	L3, L4, D2, D3	1, 2	A1, A2
LO 4	A2A_U05 A2A_U06, A2A_U11, A2A_U13, A2A_U15, A2A_U19	O4	L5, D2, D3	1, 2	A1, A2

LO 5	A2A_K01, A2A_K08, A2A_K09	O3	L3, L4, L5, D3	1, 2	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Attendance on lectures	80%
A2	Design elaboration	70%

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Institution:	Fondazione Flaminia

Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Urban planning

Code of the course:	IIAM2
Year:	I
Semester:	I
Form of study:	Full-time study
Form of classes and number of hours in semester:	45
Lecture	15
Exercises	
Laboratory	
Design	30
Number of ECTS credits:	3
Method of assessment:	lectures – colloquium, design - assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Gaining knowledge of main urban planning policies, mechanisms and practices boosting the revitalization of historical contexts
O2	Ability in the recognition of main stakeholders and good economic and social preconditions for establishing effective regenerative processes in specific urban and peri-urban contexts, based on cultural heritage exploitation
O3	Gaining knowledge on how to define the economic and asset values of CH and how to exploit CH
O4	Knowledge of exemplary design and planning solutions and projects at European level and worldwide in the field of heritage-sensitive urban and rural regeneration and revitalization

Initial requirements in terms of knowledge, skills and other competences	
1	Knowledge of recent history and basic norms of urban planning and urban regeneration
2	Knowledge of basic economic and social mechanisms of urban planning
3	Abilities in analyzing main urban features of specific urban and peri-urban contexts

Learning outcomes	
	Knowledge:
LO 1	on current urban and spatial policies and practices encouraging regeneration processes instead of new development and their effects for boosting CH valorization
LO 2	on urban and rural dynamics and involved stakeholders for the promotion of cultural heritage as a driver for sustainable growth

	Skills:
LO 3	in possible design solutions and planning practices for enhancing tangible and intangible cultural heritage in conjunction with urban and rural regeneration
LO 4	in defining business models based on CH valorization and urban/rural regeneration
	Social competences:
LO 5	awareness of positive (and negative) effects due to CH exploitation on social patterns and of local communities acceptance of heritage-sensitive interventions

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	Introduction: definition of conceptual scope and terminology
L2	Heritage sensitive urban planning policies and approaches: conceptual frameworks based on a drastic reduction of land take and consequently on urban and peri-urban regeneration as a prerequisite for enhancing the existing city and consequently for preserving and exploiting Cultural Heritage.
L3	The creative city paradigm to achieve urban regeneration through creativity and cultural heritage (stakeholders, techniques, processes, focus areas, etc.). The instrumental use of heritage in regeneration of the existing city through cultural industries and processes of 'place-making' for boosting innovation and smart growth and for creating new jobs.
L4	Emerging concepts and possible economic drivers based on CH in rural areas: how to preserve and exploit local knowledge and community practices and how to promote capacity-building for the development of a dynamic cultural and creative sector.
L5	Methods to define the economic and asset values of CH and to exploit CH (embedded economic, organizational and financial tools within urban strategies to support regeneration and revitalization processes and CH valorization).
L6	Example of heritage-sensitive urban and rural regeneration projects in Italy and worldwide
Form of classes – design	
	Curriculum contents
D1	Identification of preconditions for encouraging CH sensitive regeneration of specific urban and rural contexts
D2	Definition of possible CH-sensitive regeneration strategies and actions
D3	Master planning design solutions

Didactic methods	
1	Theoretical concepts presentation, eventually supported by multimedia materials (videos, etc.)
2	Progressive presentation and evaluation of design work

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	**45**

Participation in lectures	15
Participation in design classes	30
Student's own work, including:	**30**
Preparation for colloquium	5
Individual elaboration of design	25
Total time of student work	**75**
Summary number of ECTS credits for the course:	3
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	2

Basic literature	
1	Landry C. (2006). The art of city making. Earthscan, London
2	CoE (Council of Europe), 2005. Council of Europe Framework Convention on the Value of Cultural Heritage for Society, http://conventions.coe.int/Treaty/EN/Treaties/Html/199.htm
3	Fusco Girard L., Baycan T., Nijkamp P., eds. (2016). Sustainable City and Creativity: Promoting Creative Urban Initiatives, Routledge, New York-London
4	Getting cultural heritage to work for Europe, Report of the Horizon 2020 Expert Group on Cultural Heritage, 2015.
5	Rotondo, F., Selicato, F., Marin, V., Lopez Galdeano, J. (Eds.) 2016. Cultural Territorial Systems. Landscape and Cultural Heritage as a Key to Sustainable and Local Development in Eastern Europe, Springer Int. Pub., Switzerland
Additional literature	
1	McKercher B., Du Cros H. (2002). Cultural Tourism: The Partnership Between Tourism and Cultural Heritage management, Routledge, New York - London
2	Barile, S.; Saviano, M. (2015): From the management of cultural heritage to the governance of the cultural heritage system. Cultural heritage and value creation, 71-103 (Springer International Publishing).
3	Hans Mommaas (2004). Cultural Clusters and the Post-industrial City: Towards the Remapping of Urban Cultural Policy, Urban Studies, Vol 41, Issue 3, pp. 507 – 532, https://doi.org/10.1080/0042098042000178663
4	Tweed C., Sutherland M. (2007). Built cultural heritage and sustainable urban development, Landscape and Urban Planning 83, 62–69
5	Enrico Borghi, 2017. Piccole Italie. Le aree interne e la questione territoriale, Donzelli, Roma
6	L. Menatti, 2017, Landscape: from common good to human right. International Journal of the Commons. 11(2), pp.641–683. DOI: http://doi.org/10.18352/ijc.738

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W01, A2A_W02, A2A_W03, A2A_W05	O1, O2	L1, L2	1	A1

LO 2	A2A_W10, A2A_W11, A2A_W12, A2A_W13, A2A_W18	O1, O2	L2, L3, L4, D1	1	A1
LO 3	A2A_U04, A2A_U11, A2A_U12, A2A_U14, A2A_U15, A2A_U16, A2A_U17	O3, O4	L6, D1, D2, D3	1, 2	A1, A2
LO 4	A2A_U02, A2A_U03, A2A_U05, A2A_U10, A2A_U13, A2A_U18, A2A_U20	O3, O4	L5, L6, D2	1, 2	A1, A2
LO 5	A2A_K01, A2A_K02, A2A_K03, A2A_K04, A2A_K07, A2A_K08, A2A_K09, A2A_K11	O2, O4	L3, L4, L6, D1	1	A1

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Written colloquium of lecture contents	60%
A2	Design elaboration	70%

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Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Urban renewal – sustainable architecture and urban planning design studio

Code of the course:	IIAM3
Year:	1
Semester:	1
Form of study:	Full-time study
Form of classes and number of hours in a semester:	45
Lectures	15
Design	30
Number of ECTS credits:	3
Method of assessment:	Lectures - essay (paper submission), project - assessment
Language of instruction:	English

The purpose and objectives of the course	
O1	Gaining skills of analysis and assessment of local context and urban structure
O2	Acquaint students with contemporary trends in urban renewal

Initial requirements relating to knowledge, skills and other forms of competence	
1	Knowledge of methodology of an architectural design process
2	The ability to present communicatively the process of arriving at the final project , the ability to carry out in-depth analyses at the preliminary stages of a project
3	Competence in using design programmes enabling to create an architectural design. The ability to build a working model of a particular design object

Learning outcomes	
	Knowledge:
	Student:
LO1	Knows examples of urban conservation and the present trends
LO2	Knows the methodology for the investigation of urban structures and the meaning that supports an innovative approach to urban renewal
	Social competences:
LO3	Team work skills
	Skills:
	Student:
LO4	Can use of observation (Careful, detailed study of a given subject, the ability to do a comprehensive library research and the questionnaire technique in order to gather information (at different stages of the analysis)
LO5	Performs conceptual design of the revitalization of degraded area taking into account the analysis of the historical context and the needs of the local society
LO6	Can use the methodology for the investigation of urban structures

LO7	Is competent in presenting alternative or the most accurate design solutions for the process of urban renewal (revitalization) and is able to communicate their ideas choosing the most suitable visual aids

Programme content	
Form of classes – lecture	
	Curriculum contents
L1	Rebuilding war-destroyed cities - case studies from Poland
L2	Conditions of reconstruction
L3	Historic ruins versus contemporary ruins
L4	Revitalization of urban areas in Poland
L5	Factors conditioning the revitalization process of urban areas in Poland
L6	The urban areas in the process of development of tourism
L7	Value assessment of the historic city
L8	Heritage management plan (model structure for WH site)
L9	Heritage management strategy for the historic city
L10	Historic urban landscape recommendation
Form of classes – design studio	
Curriculum contents	
D1	The process of analysis of the project location site
D2	The architectural project which students present graphically and textually, in a free manner hand drawing at different stages of the analysis, investigation, and preliminary conceptual ideas; Group work of two, up to three students Preparing presentation panels

Didactic methods	
1	Guided tour and on-site lectures, including theoretical content
2	Case study analyses
3	Multimedia presentations, including theoretical content
4	Development of the project and its public presentation

Student Workload	
Form of activity	Average number of hours for the implementation of an activity
Contact hours with lectures, including:	50
Participation in lectures	20
Participation in design classes:	30
Student's own work, including:	25
Preparation of essay	5
Development of the project	20
Total time of student work	75
Total number of ECTS credits for the course:	3
Number of ECTS credits in frames of practical classes (practical classes, laboratory classes, project classes)	2

Basic literature	
1	L. Gelfand, C. Duncan, Sustainable Renovation. Strategies for Commercial Building Systems and Envelope, Wyd. John Wiley&Sons, 2012, New Jersey
2	Reconnecting the City. The Historic Urban Landscape Approach and the Future of Urban Heritage. Ed. Byy. F. Brandin, R. Van Oers, Wiley Blackwell 2015.
Additional literature	
1	Values and criteria in Heritage Conservation… https://www.getty.edu/conservation/publications_resources/pdf_publications/pdf/valuesrpt.pdf
2	P. Droege, The Renewable City. A Comprehensive Guide to an Urban Revolution, Wiley Academy, 2006

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W01, A2A_W03, A2A_W11, A2A_W13, A2A_W14	O1, O2	L1-L10	1, 2, 3	A1
LO 2	A2A_W03, A2A_W04, A2A_W11, A2A_W13, A2A_W14	O1, O2	L1-L10	1, 2, 3	A1
LO 3	A2A_K01	O1, O2	D1-D2	4	A2
LO 4	A2A_U01, A2A_U02, A2A_U05, A2A_U10	O1, O2	D1	4	A2
LO 5	A2A_U03, A2A_U06, A2A_U13, A2A_U17, A2A_U19	O1, O2	D2	4	A2
LO 6	A2A_U05, A2A_U07, A2A_U16,	O1, O2	D1	4	A2

	A2A_U18				
LO 7	A2A_U10	O1, O2	D2	4	A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Essay	60%
A2	Project elaboration	100%

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Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Landscape architecture

Code of the course:	**IIAM4**
Year:	I
Semester:	II
Form of study:	Full time study
Form of classes and number of hours in semester:	**35**
Lecture	25
Exercises	5
Design	5
Number of ECTS credits:	**2**
Method of assessment:	lectures – colloquium; design - assessment
Language of instruction:	English

The purpose and objective of the course	
A1	How to get knowledge for critical understanding of landscape
A2	Acquiring elements to understand the landscape design process at different scales
O3	Conservation and restoration of landscape

Initial requirements in terms of knowledge, skills and other competences	
R1	Analysis and synthesis skills
R2	Basic knowledge of landscape and environment

Learning outcomes	
	Knowledge:
LO 1	Learning methods and concepts about landscape and its comprehension
LO 2	Critical understanding of proposed design subjects at different scales: territory and landscape, relationship with historical context
	Skills:
LO 3	Capacity to choose different solutions related to facts and design subjects presented
LO 4	Capacity to understand and conserve the characters of landscape
	Social competences:
LO 5	Conservation of different values

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	General idea of landscape (Definition of landscape; Definition of environment.)
L2	Elements of landscape and relationship among them (Parks, Green areas,

	Elements of botany, Roads, Pedestrian areas, Pedestrian paths, Footbridges…)
L3	How to design landscape
Form of classes – exercise/design	
	Curriculum contents
D1	Analysis of landscape
D2	Training to control the phases of design process
D3	Formulation of intervention proposal

Didactic methods	
1	Theory lectures. Presentation
2	Individual exercises to develop in classroom

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	**35**
Participation in lectures	25
Participation in exercises	5
Participation in design classes	5
Student's own work, including:	**20**
Preparation for colloquium	5
Individual elaboration of design	15
Total time of student work	**55**
Summary number of ECTS credits for the course:	**2**
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	William A. Mann, *An illustrated History in Timeline*, 1993
2	Tom Turner, *Landscape design methods illustrated*, 2014
3	Simon Swaffield, *Theory in landscape architecture*, 2002
4	Ian Thompson, *Landscape Architecture: a very short introduction*, 2014
5	Adri van den Brink-D. Bruns-M. Tobi, *Research in landscape Architecture: Method and Methodology*, 2016

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W02, A2A_W03,	O1, O2, O3	L1, L2, L3, D1, D2, D3	1, 2	A1, A2

	A2A_W10				
LO 2	A2A_W13, A2A_W14	O1, O2, O3	L1, L2, L3, D1, D2, D3	1, 2	A1, A2
LO 3	A2A_U01, A2A_U02, A2A_U11	O1, O2, O3	L1, L2, L3, D1, D2, D3	1, 2	A1, A2
LO 4	A2A_U12, A2A_U13, A2A_U20	O1, O2, O3	L1, L2, L3, D1, D2, D3	1, 2	A1, A2
LO 5	A2A_K02, A2A_K04, A2A_K12	O1, O2, O3	L1, L2, L3, D1, D2, D3	1, 2	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Short written individual examination during the course	60%
A2	Design elaboration assessment	80%

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Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Nature And Regional Architecture In Design Process

Code of the course:	IIAM5
Year:	II
Semester:	1
Form of study:	Full-time study
Form of classes and number of hours in semester:	40
Lecture	20
Exercises	
Laboratory	
Design	20
Number of ECTS credits:	2
Method of assessment:	Lecture and design - assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Guiding the student in comprehension of design process
O2	Learning from the spirit of the place
O3	Relationship between vernacular architecture and its site
O4	Acquiring critical instruments to study traditional knowledges

Initial requirements in terms of knowledge, skills and other competences	
R1	Analysis and synthesis skills
R2	Basic knowledge of traditional architecture

Learning outcomes	
	Knowledge:
LO 1	Learning methods and connections between architecture and environment
LO 2	Learning about traditional, cultural and architectural features
	Skills:
LO 3	Capacity of developing integrated solutions in architecture and nature
LO 4	Capacity of conserving and restore the characters
	Social competences:
LO 5	Conservation of different values

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	General idea of environment (Location and situation; Climate and Winds; Water and Vegetation)
L2	General idea of history of town planning

L3	General knowledge of traditional, cultural and architectural features (Traditional construction; Synthesis of historic constructions)
Form of classes – design	
	Curriculum contents
D1	Learning of traditional architecture and its context
D2	Concept to conserve traditional architecture and its surrounding

Didactic methods	
1	Theory lectures. Presentation
2	Individual design to develop in classroom

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	**40**
Participation in lectures	20
Participation in design classes	20
Student's own work, including:	**10**
Individual elaboration of design	10
Total time of student work	**50**
Summary number of ECTS credits for the course:	**2**
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	VV.AA., *Regional Architecture in the Mediterranean Area*, 2010
2	Sim Van Der Ryn, Culture, *Architecture and Nature: An ecological design retrospective*, 2013
3	Geoffrey Broudbent- C.A. Brebbia, *Eco-architecture II: Harmonization between architecture and nature*, 2008
4	Liang Yong Wu, *Integrated architecture*, 2013

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W02, … A2A_W04, A2A_W11, … A2A_W14	O1, O2, O3, O4	L1, L2, L3, D1, D2	1, 2	A1, A2, A3
LO 2	A2A_W02, …	O1, O2, O3,	L1, L2, L3, D1, D2	1, 2	A1, A2, A3

	A2A_W04, A2A_W11, … A2A_W14	O4			
LO 3	A2A_U11, … A2A_U14	O1, O2, O3, O4	L1, L2, L3, D1, D2	1, 2	A1, A2, A3
LO 4	A2A_U11, … A2A_U14	O1, O2, O3, O4	L1, L2, L3, D1, D2	1, 2	A1, A2, A3
LO 5	A2A_K04, A2A_K06, … A2A_K08, A2A_K11, A2A_K12	O1, O2, O3, O4	L1, L2, L3, D1, D2	1, 2	A1, A2, A3

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Short written individual assessment during the course	50%
A2	Design elaboration assessment	80%
A3	Final assessment	70%

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Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Spatial and regional planning

Code of the course:	IIAM6
Year:	2
Semester:	III
Form of study:	Full-time study
Form of classes and number of hours in semester:	45
Lecture	15
Exercises	-
Laboratory	-
Design	30
Number of ECTS credits:	3
Method of assessment:	design assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Understanding the basic problems in the field of regional planning and spatial planning (large spatial).
O2	Understanding the basics of legislative technique in the development of the local legal act relating to spatial management.
O3	The ability to formulate the provisions of local law (local spatial development plan of the selected area) with regard to spatial policies stated in national and regional planning documents.

Initial requirements in terms of knowledge, skills and other competences	
1	Knowledge and ability to read and understand basic legal documents
2	Knowledge of the impact of planning a gap at various scales on the sustainable development of the country and local spatial order.
3	The ability to analyze spatial, natural and cultural data and draw conclusions

Learning outcomes	
	Knowledge:
	Student:
LO 1	Has the necessary knowledge of systems of regional policy and spatial planning in Poland and the European Union, the basic procedures and planning documents in the field of regional planning.
	Skills:
	Student:
LO 2	Has the ability to model phenomena and processes in the field of space development in relation to spatial units of various sizes and levels of complexity - is able to formulate scenarios of spatial development of the selected area.

LO 3	Knows and is able apply the basic concepts of GIS (Geographical Information System), and LIS (Land Information System) in the spatial analysis and spatial management design in regional and local scale.
LO 4	Knows and understands the basis of the legislative technique in the development of act of local law relating to spatial management - drawing and arrangements of the local plan.
	Social competences:
	Student:
LO 5	Is prepared to work in the local and central government units and the European Union institutions competent the field of regional and local planning.

Programme content	
Form of classes – lecture	
	Curriculum contents
L1	Basic knowledge of spatial planning. Problems and issues of regionalization. Large-space planning. The genesis of spatial planning. Principles of spatial planning. Goals and challenges of spatial planning.
L2	Act on planning and spatial development. The concept of spatial development policy of the country. Shaping and implementation of the spatial policy of the state. Government tasks for implementation over local public goals. Examples of development and planning of cross-border areas. Euro-regions. Issues of environmental and cultural protection.
L3	Basic spatial planning documents at the voivodship level. Voivodship development strategy. Contents of the voivodship's strategy and spatial plan. Problems of the voivodeship spatial development plan. Planning of spatial development of metropolitan areas. Examples of regional development and spatial planning in selected European countries.
L4	Studies of conditions and directions of spatial development of the commune. Possibilities to protect cultural heritage in the records and drawing of planning documents.
L5	Local spatial development plans - procedure, conditions, text construction and maps, formulating general and specific arrangements.

Programme content	
Form of classes – design	
D1	Study of spatial problems included in the voivodeship spatial development plan for the selected commune / city. Conclusions - possibilities and limitations of spatial development of the commune, including problem areas and threats.
D2	Local spatial management plan of the selected area - area development project, with the introduction of supra-local tasks included in the spatial development plan of the province to the local plan.
D3	Individual execution of local spatial development plan drawing taking into account the supra-local public tasks.
D4	Individual development of the local plan text.

Didactic methods	
1	Multimedia presentation, including theoretical contents
2	Case study
3	Individual development of the projects by students
4	Project defense

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	**45**
Participation in lectures	15
Participation in design classes	30
Student's own work, including:	**30**
Preparation for classes	10
Individual elaboration of project	20
Total time of student work	**75**
Summary number of ECTS credits for the course:	**3**
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	2

Basic literature	
1	Anderson L. 2002. Planning the Built Environment. London & New York : Routledge.
2	Hall P. and Tewdwr-Jones M. 2011. Urban and regional planning. London & New York : Routledge.
3	John Lund Kriken with Philip Enquist and Richard Rapaport, 2010. City building : nine planning principles for the twenty-first century. New York, Princeton Architectural Press.
4	Place-keeping : open space management in practice / ed. by Nicola Dempsey, Harry Smith and Mel Burton, New York : Routledge, 2014.
5	Planing cultures in Europe. Decoding Cultural Phenomena in urban and Regional Planning / ed. Knieling J. and Othengrafen F., Ashgate, 2009.
Additional literature	
1	The EU compendium of spatial planning systems and policies , Regional development studies, Regional policy and cohesion, European Union, European Commission, 1997 (https://publications.europa.eu/en/home).
2	Jane Silberstein, Chris Maser, Boca Raton, 2000. Land-use planning for sustainable development. Lewis Publishers.
3	Spatial Planning - Key Instrument for Development and Effective Governance with Special Reference to Countries in Transition, ECONOMIC COMMISSION FOR EUROPE, UNITED NATIONS, New York and Geneva, 2008

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning	Course objectives	Curriculum contents	Didactic methods	Assessment methods

	outcomes defined for the entire curriculum				
LO 1	A2A_W09 A2A_W15 A2A_U04 A2A_U08	O1, O2	L1-5, D1-2	1, 4	O1, O2
LO 2	A2A_W09 A2A_W13 A2A_W15 A2A_U04 A2A_U08 A2A_U14 A2A_K07 A2A_K11	O3	L1, L5, D1-2	1, 2, 3	A1
LO 3	A2A_W01 A2A_W13 A2A_W15 A2A_U04 A2A_U10	O2, O3	L2, D2-3	3	A1
LO 4	A2A_W01 A2A_W15 A2A_U04 A2A_U08	O2, O3	L2, L5, D 2-4	3, 4	A1, A2
LO 5	A2A_K04 A2A_K07 A2A_K08 A2A_K11	O1, O2, O3	L3-5, D1-4	2, 3, 4	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Project	60%
A2	Project defence	40%

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Organisational unit:	ICOMOS Poland

Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Comprehensive Design Project (Integrating Aspects of Technology, Sustainability, Research and Cultural Awareness in the Design Process)

Code of the course:	IIAM7
Year:	2
Semester:	3
Form of study:	Full time study
Form of classes and number of hours in semester:	60
Lecture	15
Exercises	
Laboratory	
Design	45
Number of ECTS credit	4
Method of assessment	Lectures and design assessment
Language of instruction	English

The purpose and objective of the course	
O1	Provide the theoretical knowledge necessary for the intervention in historical building
O2	Know the methodology related to constructive intervention in historical building
O3	Determine the appropriate choice, design requirement and consequent use in works on historical building of constructive systems
O4	Understand the nature of heritage on which an intervention is to be produced, applying the appropriate intervention criteria

Initial requirements in terms of knowledge, skills and other competences	
R1	Knowledge of construction. Historic and traditional construction.
R2	Knowledge of construction materials
R3	Knowledge of historical architecture
R4	Knowledge of structures and installations
R5	Knowledge of sustainable architecture
R6	Knowledge of academic research

Learning outcomes	
	Knowledge
	Student is able to:
LO1	Identify values and necessities
LO2	Identify compatible interventions in historic buildings, surroundings and environment
LO3	Describe different intervention methodologies in heritage
	Skills
	Student is able to:
LO4	Conceive and integrate constructive and structural compatible interventions in

	historical buildings
LO5	Develop the necessary documentation to carry out a restoration project
	Social competences
	Student is able to:
LO6	Work within a interdisciplinary team

Programme content	
Form of classes - lecture	
	Curricular contents
L1	Research.
L2	Assessment of the architectural heritage.
L3	Values.
L4	Diagnosis.
L5	Premises.
L6	Criteria and intervention techniques.
L7	Rapport with the Environment.
L8	Restoration Project. General idea. Constructive systems. Details. Structures.
L9	Technology.

Form of classes - design	
	Curricular contents
D1	Diagnosis.
D2	Criteria and intervention techniques.
D3	Restoration Project.

Didactic methods	
1	Theoretical classes
2	Seminars
3	Individual activities
4	Group activities

Student workload	
Form of activity	Average number of hours for implementation of activities
Contact hours of lectures, including:	60
Participation in lectures	15
Participation in practical classes and seminars	45
Student's own work, including:	40
Preparation to examination	10
Preparation to classes	
Execution of the design, project study	30
Total time of student work	100
Summary number of ECTS credits for the course:	4
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	3

Basic literature	
1	Bellanca, Calogero. Methodical approach to the restoration of historic architecture. Alinea publishing. Perugia 2011
2	Feilden, B. Conservation of historic buildings. Butterworth. Oxford-Boston, 1994.
3	Carbonara, G. Trattato di restauro architettonico. Editore: UTET, Torino, 2007.
4	Torsello, B.P. Tecniche di restauro architettonico. Editore: UTET, Torino, 2003

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO1	A2A_W01, A2A_W02, A2A_W03, A2A_L10	O1, O3, O4	L1, L2, L3, L5	1, 2, 3, 4	A1, A2
LO2	A2A_W05, A2A_W06, A2A_L12, A2A_L14	O3	L2, L6, L7, L9, D3	1, 2, 3, 4	A1, A2
LO3	A2A_W04, A2A_L16, A2A_L17, A2A_L18	O2	L4, L5, L6, L8, D1, D2, D3	1, 2, 3, 4	A1, A2
LO4	A2A_U02, A2A_U03, A2A_U06	O1, O3	L4, L6, L8, L9, D2, D3	1, 2, 3, 4	A1, A2
LO5	A2A_U01, A2A_U05, A2A_U07	O1, O2	L8, D3	2, 3, 4	A1
LO6	A2A_K01, A2A_K02	O3	D1, D2, D3	4	A1, A2

Assessment method description		
Assessment method symbol	Assessment method description	Pass threshold
A1	Restoration Project	60%
A2	assessment	60%

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Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Traditional, vernacular and historic architecture

Code of the course:	IIAM8
Year:	2
Semester:	3
Form of study:	Full-time
Form of classes and number of hours in semester:	35
Lecture	15
Exercises	
Laboratory	
Design	20
Number of ECTS credit	2
Method of assessment	Lectures - examination, design-assessment
Language of instruction	English

The purpose and objective of the course	
O1	Promote the concern about popular built heritage
O2	Cover the evolution of constructive systems
O3	Respect for a patrimony that we lose gradually and quickly

Initial requirements in terms of knowledge, skills and other competences	
R1	Basic notions of construction
R2	Basic notions of construction materials

Learning outcomes	
	Knowledge
LO1	Knowledge of the historical evolution of construction techniques and elements and systems structural elements that have given rise to stylistic forms
	Skills
	Student is able to:
LO2	Elaborate the technical projects and perform the direction of building works in the field of their legal authorization.
LO3	Direct and manage the use, conservation and maintenance of buildings, writing documents necessary technicians.
LO4	Advise technically in the manufacturing processes of materials and elements used in the construction of buildings.
LO5	Search, analyze and select information
	Social competences
LO6	Environmental respect

Programme content	
Form of classes - lecture	
	Curricular contents
L1	Introduction to vernacular architecture
L2	Climatic zones and bioclimatic determinants of traditional architecture
L3	Vernacular architecture of the Mediterranean zones, Atlantic coasts and ultraperipheral regions
L4	Vernacular architecture of high mountain zones and Nordic countries
L5	Vernacular architecture of the plains
L6	Special types: caves, nomadic architecture, etc.

Form of classes - design	
	Curricular contents
D1	Development of guidelines for popular construction knowledge
D2	Evaluation of geographical areas

Didactic methods	
1	Presentations, including theoretical content, prepared by the teacher and the students
2	Presentations and evaluation of building characteristics, individual and group works

Student workload	
Form of activity	Average number of hours for implementation of activities
Contact hours of lectures, including:	35
Participation in lectures	15
Participation in design classes	20
Student's own work, including:	25
Preparation to examination	10
Execution of the design	15
Total time of student work	60
Summary number of ECTS credits for the course:	2
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	BELLINI, A. De la restauración a la conservación; de la estética a la ética. Bellini, 2000
2	CAAMAÑO, M. La casa popular. Fundación Caixa Galicia, 1999
3	FLORES, C. Arquitectura popular española, 5 tomos. Aguilar, 1973
4	GUIDONI, E. Arquitectura primitiva. Aguilar, 1980
5	GOLDFINGER, M. Villages in the sun. Mediterranean Community Architecture. 1993.
6	MAY, J. Handmade houses & other buildings : the world of vernacular architecture. 2010.
7	NOURISSIER, G. Arquitectura tradicional mediterránea. Comisión europea, 1984
8	QUINEY, A. The traditional buildings of England. Thames and Hudson, 1990

Additional literature	
1	ASQUITH, L.Vernacular architecture in the 21st century: theory, education and practice 2005.
2	GRASSI, G. La arquitectura como oficio y otros ensayos. Gustavo Gili, 1980
3	MILETO, C. Miniarchitectures: colllective imaginary through the miniatures of vernacular architecture. 2017
4	RUDOFSKY, B. Arquitectura sin arquitectos. Editorial universitaria. 1973

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO1	A2A_W02, A2A_W10, A2A_W14	O1, O2, 03	L1-L6	1, 2	A1, A2, A3
LO2	A2A_U04, A2A_U10, A2A_U13	O1, O2, O3	L1-L6, D1-D2	1,2	A1, A2, A3
LO3	A2A_U08, A2A_U11, A2A_U21	O1, O2, O3	L1-L6, D1-D2	1,2	A1, A2, A3
LO4	A2A_U15, A2A_U18	O1, O2, O3	L1-L6, D1-D2	1,2	A1, A2, A3
LO5	A2A_U01, A2A_U12, A2A_U16	O1, O2, O3	L1-L6, D1-D2	1,2	A1, A2, A3
LO6	A2A_K04, A2A_K11	O1, O2, O3	L1-L6	1,2	A1, A2, A3

Assessment method description		
Assessment method symbol	Assessment method description	Pass threshold
A1	Test	60%
A2	Written examination	60%
A3	Group and individual design elaboration	60%

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Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Protection of Monuments and Historic Towns

Code of the course:	IIAS1
Year:	I
Semester:	1
Form of study:	Full-time study
Form of classes and number of hours in semester:	40
Lecture	25
Exercises	
Laboratory	
Design	15
Number of ECTS credits:	2
Method of assessment:	lectures – examination, design - assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Acquiring basic knowledge about the principles of protection and revitalization of historical towns
O2	Acquiring the skills of a comprehensive analysis of the historical city, with particular emphasis on determining the conditions for protection of historic values and principles of conducting the process of revitalization

Initial requirements in terms of knowledge, skills and other competences	
1	Having knowledge about the history of urban planning, with particular emphasis on the ability to analyze the historical building and historical urban complexes
2	Having knowledge of the functioning and development of modern cities

Learning outcomes	
	Knowledge:
	Student:
LO 1	Defines and indicates the basic concept and principles relating to the protection and revitalization of historical towns
LO 2	Specifies and characterizes the principles of analysis of historic towns (from the historical and functional point of view)
	Skills:
	Student:
LO 3	Selects the scope of the preservation and revitalization works necessary for to maintenance of the historical complex and its development
LO 4	Performs a query of materials and analysis of the factors to acquire the information necessary for determining the value of the complex and for planning

	the revitalization program
	Social competences:
	Student:
LO 5	Is aware of the need of conservation and revitalization program as well as of purposefulness of implementation of the defined scope of work (resulting from the needs of conservation and revitalization)

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	Theoretical basis of the protection and regeneration of the city's historic (assumptions of contemporary doctrine of conservation and so-called HUL Recommendations)
L2	Principles of analysis of values and factors influencing the historical town
L3	Terms and conditions for the implementation of revitalization programs in historical towns
Form of classes – design	
	Curriculum contents
D1	Execution of analysis of the historical town- determining the value of historic buildings, the main threats (SWOT analysis)
D2	Revitalization works project - conservation, technical, functional, urban aspects

Didactic methods	
1	Lectures with wide use of multimedia presentations
2	Project elaborated for historical towns (selected individually by the students)
3	Examples of documentations (analysis of historical towns, revitalization programmes)

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	40
Participation in lectures	25
Participation in design classes	15
Student's own work, including:	20
Preparation to examination	10
Individual elaboration of project	10
Total time of student work	60
Summary number of ECTS credits for the course:	2
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	Tyler N., *Historic Preservation. An introduction to Its History, Principles, and Practice*, W.W. Norton&Company, New York, London, 2009
2	Korka E., The Protection of Archaeological Heritage in Times of Economic Crisis, Newcastle upon Tyne: Cambridge Scholars Publishing. 2014

3	Building conservation philosophy / John Earl. Earl, John (1928-).Shaftesbury: Donhead Publishing, 2010.
4	Conservation of ruins / ed. by John Ashurst, Amsterdam [etc.] : Elsevier, 2007.
5	Conservation of historic buildings / Bernard M. Feilden.Feilden, Bernard M. [Oxford] : Architectural Press ; Abingdon ; New York : Routledge , 2003.
Additional literature	
	Structural aspects of building conservation / Poul Beckmann and Robert Bowles. Beckmann, Poul, London ; New York : Taylor & Francis/Spon Press, 2004.
	Conservation and preservation : interactions between theory and practice : in memoriam Alois Riegl (1858-1905) : proceedings of the international conference of the ICOMOS International Scientific Committee for the Theory and the Philosophy of Conservation and Restoration, 23-27 april 2008 (Vienna, Austria) / ed. by Michael S. Falser, Wilfried Lipp, Andrzej Tomaszewski, Firenze : Polistampa, 2010.
	Values and criteria in heritage conservation : proceedings of the international conference of ICOMOS, ICCROM, Fondazione Romualdo Del Bianco, Florence, march 2nd-4th 2007 / ed. by Andrzej Tomaszewski, Firenze : Polistampa, 2008.

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W13, A2A_W14	O1	L1	1, 3	A1, A2
LO 2	A2A_W14, A2A_W15	O1	L2, L3	1, 3	A1, A2
LO 3	A2A_U06, A2A_U05 A2A_U17 A2A_U18 A2A_U21	O2	D1	2, 3	A1, A2
LO 4	A2A_U06, A2A_U01	O2	D2	2, 3	A1, A2
LO 5	A2A_K07, A2A_K11	O1,O2	L2, L3	1, 2	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Written examination of the lecture contents	50%

A2	Project elaboration	100%

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Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Inventory and Survey of Historical Buildings (pre design activities)

Code of the course:	IIAS2
Year:	I
Semester:	I
Form of study:	Full-time study
Form of classes and number of hours in semester:	45
Lecture	15
Exercises	-
Laboratory	-
Design	30
Number of ECTS credits:	3
Method of assessment:	Lectures – colloquium, design – assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Acquiring knowledge in the field of recognizing: structural elements of buildings, static schemes, applied technical solutions, building materials, technical equipment, the type of damage to the building, architectural and structural transformations of object
O2	Acquiring skills in the field of recognizing: structural elements of buildings, static schemes, applied technical solutions, building materials, technical equipment, the type of damage to the building, architectural and structural transformations of object

Initial requirements in terms of knowledge, skills and other competences	
1	Knowledge and skills in field of general construction,
2	Physics of construction, mycology, history of construction, structural mechanics, as well as reinforced concrete, steel, wooden constructions

Learning outcomes	
	Knowledge:
	Student:
LO 1	Knows and is able to define technical solutions, materials and static schemes in the analyzed objects
LO 2	Has knowledge on how to perform architectural and construction inventory, architectural survey in historic buildings
LO 3	Has knowledge about methods of implementation of outcrops, planning their number and layout, with special emphasis on architectural survey in historic buildings
	Skills:

	Student:
LO 4	Can perform architectural and construction inventory, and architectural survey of historic building
	Social competences:
	Student:
LO 5	Is able to work independently and cooperate with a team of sector specialists in the inventory of historic buildings

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	Modern and traditional technical solutions in construction, applied static schemes and design assumptions
L2	Analysis of technical solutions in buildings in terms of the reasons for their application. The impact of standards, regulations, location, neighborhood, execution time, design and executive errors on choice of solution
L3	Architectural and construction inventory, architectural studies. Methods of graphic presentation of the inventoried elements and of elaboration of drawings in technical projects relating to the transformation of existing facilities. Outcrops, planning their deployment and layout. Drawing conclusions from the outcrops
L4	Modern and traditional technical solutions in construction, applied static schemes and design assumptions
Form of classes – design	
	Curriculum contents
D1	Execution of the architectural inventory of the selected building object
D2	Execution of building inventory and architectural studies of the selected object in a limited extent

Didactic methods	
1	Lectures with multimedia presentations
2	Thematic excursions – guided tours
3	Topics of projects for individual elaboration
4	Set of exemplary architectural and construction inventories and architectural surveys.

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	45
Participation in lectures	15
Participation in design classes	30
Student's own work, including:	15
Preparation to colloquium	5
Individual elaboration of project	10
Total time of student work	60
Summary number of ECTS credits for the course:	3

Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	Brusaporci S., The representation of architectural heritage in the digital age, encyclopedia of information science and technology, Information Resources Management, USA, 2005.
2	Centofanti M., Brusaporci S. Interpretative 3D digital models in architectural surveying of historical buildings, Computational modelling of objects represented in images. CRC Press, London, 2012.
3	Uścinowicz J. Standards of conservation documentation of wooden architecture facilities as a basis for monitoring and management, Documentation and the monitoring in managing timber objects in Krzysztof Kluk Museum of Agriculture in Ciechanowiec and the Ryfylke Museum, Krzysztof Kluk Museum of Agriculture in Ciechanowiec, 2015, s. 43–67.

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W02 A2A_W17 A2A_U07	O1	L1, L2	1, 4	A1, A2
LO 2	A2A_W02	O1	L3	1, 2, 4	A1, A2
LO 3	A2A_W02	O1	L3	1, 2, 4	A1, A2
LO 4	A2A_U05 A2A_U21	O1	L4	1	A1, A2
LO 5	A2A_K01 A2A_K05 A2A_K07	O2	D1, D2	3	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Written colloquium of the lecture contents in the form of descriptive questions and problem tasks	66%
A2	Final assessment of the design based on the Weighted arithmetic grade of design, its presentation and defence (weight of design D1,	66%

	D2 – 0,33; weight of design D3, D4 – 0,33; weight of design presentation and defence – 0,34)	

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Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Modern Structures and Innovative Building Materials – Technical Approach

Code of the course:	IIAS3
Year:	1
Semester:	1
Form of study:	Full-time study
Form of classes and number of hours in a semester:	30
Lecture	15
Design	15
Number of ECTS credits:	2
Method of assessment:	Lectures - essay (paper submission), design – project assessment
Language of instruction:	English

The purpose and objectives of the course	
O1	Gaining skills of analysis and the assessment the possibilities of usage modern construction
O2	Acquaint students with modern structures and innovative building materials

Initial requirements relating to knowledge, skills and other forms of competence	
1	Knowledge and skills in field of the basic construction technologies
2	Basic knowledge of physics of construction, history of construction, structural mechanics, as well as reinforced concrete, steel, wooden constructions, etc.
3	Competence in using design programmes enabling to create an architectural design. The ability to build a working model of a particular design object

Learning outcomes	
	Knowledge:
	Student:
LO1	Knows typology and examples of modern structures and innovative building materials
LO2	Knows and is able to define technical solutions, materials and static schemes in the analyzed objects
	Social competences:
	Student:
LO3	Is able to cooperate with a team in the designing process
LO4	Understands the role of engineering and relations between architectural and structural design
	Skills:
	Student:
LO5	Can choose and apply adequate materials and technologies for different scale of

	designed objects and problems related to: repairing, renovation and restoration
LO6	Is competent in presenting alternative or the most accurate design solutions using modern structures and innovative building materials

Programme content	
Form of classes – lecture/study tours	
	Curriculum contents
L1	Exemplary realizations of modern structures and innovative building materials
L2	Material systems for different kinds of structures: braced frames, portal frames, loadbearing boxes (reinforced concrete, brick, glass), trusses, arches and shells, different floor structures.
L3	Materials and technologies applied in walls, trends in façade design, generic wall types, exemplified on architectural detail.
L4	Materials and technologies applied in glass systems, louvre and screens systems, boled fixed glazing, clamped glazing, glass blocks and channels.
L5	Modern doors and windows. Day lighting and solar shading
L6	Materials and technologies applied in in-situ cast and prefabrication. Small precast panels.
L7	Masonry cavity walls: stone and block, masonry cladding and rainscreens, plastic based cladding.
L8	Materials and technologies applied in modern wooden structures. Timber frames, cladding panels, advanced engineering timber constructions.
L9	Trends in roof design, materials and technologies: metal roofs, glass roofs, concrete roofs, fabric systems (membranes and cushions), concrete and timber roofs.
L10	Study tour. Low energy material systems ex. hempcrete, strawbale
Form of classes – design studio	
Curriculum contents	
D1	The architectural project which use modern structures and innovative building materials, which students present graphically and in a written way.
D2	Individual elaboration on the project by students

Didactic methods	
1	Case study analyses
2	Multimedia presentations, including theoretical content
3	Development of the project and its public presentation, preparing mock-up

Student Workload	
Form of activity	Average number of hours for the implementation of an activity
Contact hours with lectures, including:	30
Participation in lectures	15
Participation in design classes	15
Student's own work, including:	30
Preparation of essay	15
Development of the project	15

Total time of student work	60
Total number of ECTS credits for the course:	2
Number of ECTS credits in frames of practical classes (practical classes, laboratory classes, project classes)	1

Basic literature	
1	A. Watts, Modern Construction Handbook. Springer Wien New York 2010.
2	M. Keeler, P. Vaidya, Fundamentals of integrated design for sustainable building, Wiley&Sons. New Yersey, 2012.
3	A. Radford, S. Morokoc, A. Srivastava, The Elements of modern Architecture, Understanding Contemporary Buildings, Thames and Hudson, London 2014
Additional literature	
1	Kim S. Elliot, Precast Concrete Structures, CRC Press 2017
2	Solutions Sets for Net Zero Energy Buildings, Ernst&Sohn, 2015
3	B. Davidson, Grahen W. Owens (Ed.), Steel designer's Manual, Wiley Blackwell 2012

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W10 A2A_W17 A2A_W19	O1, O2	L1, L2, L3, L4, L5, L6, L7, L8, L9	1, 2	A1
LO 2	A2A_W17	O1, O2	L1, L2, L3, L4,L5, L6, L7, L8, L9	2	A1
LO 3	A2A_K01 A2A_K02 A2A_K06	O1, O2	L1, L2, L3, L4,L5, L6, L7, L8, L9, L10, D1, D2	3	A2
LO 4	A2A_K03 A2A_K11	O1, O2	L1, L2, L3, L4,L5, L6, L7, L8, L9, L10, D1, D2	2, 3	A2
LO 5	A2A_U22	O1, O2	L1, L2, L3, L4,L5, L6, L7, L8, L9, D1, D2	1, 2, 3	A2
LO 6	A2A_U22 A2A_U15	O1, O2	L1, L2, L3, L4,L5, L6, L7,	1, 3	A2

			L8, L9, D1, D2		

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Written essay	60%
A2	Project elaboration	100%

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Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Sustainable revitalization of degraded areas and buildings

Code of the course:	IIAS4
Year:	1
Semester:	1
Form of study:	Full-time study
Form of classes and number of hours in a semester:	45
Lectures	15
Design	30
Number of ECTS credits:	3
Method of assessment:	Lectures - essay (paper submission), design – project assesssment
Language of instruction:	English

The purpose and objectives of the course	
C1	Gaining knowledge on the potential value of the cultural environment (concepts, methods)
C2	Ability to analyze the cultural context in terms of tasks of revitalization of degraded areas and to undertake design activities
C3	Gaining knowledge of the form of legal protection of the cultural landscape in the process of sustainable development (revitalization)
C4	Knowledge of exemplary design solutions at European level in the field of urban revitalization of degraded areas

Initial requirements relating to the knowledge, skills and other forms of competence	
1	Knowledge of the history of architecture
2	Knowledge of terminology in the field of architectural forms and detail
3	Ability to analyze the architectonical objects and spatial assumptions

Learning outcomes	
	Knowledge:
	Student:
LO1	Has basic knowledge of urban design and revitalization activities in degraded areas, with particular reference to the protection of historical spatial systems
LO2	Defines and lists modern methods of conservation and urban revitalization of degraded areas
	Skills:
	Student:
LO3	Performs conceptual design of the revitalization of degraded area taking into account the analysis of the historical context and formulating conservation

	conclusions
LO4	Performs conceptual design of for the conservation studies for selected architectural object
	Social competence:
	Student:
LO5	Is aware of the need to respect the identity of the local cultural landscape and understands the role of the architect in its protection, as well as in transfer of information to the public about the necessity of its protection

Programme content	
Form of classes – lecture	
	Curriculum contents
L1	Introduction - definition of the conceptual scope and terminology
L2	Forms of cultural landscape protection
L3	Methodology of the cultural landscape study adjusted to the specific requirements of the architect and urban planner work
L4	Protection of the cultural landscape and preservation of identity considering the transformations in the process of natural development of towns and villages
L5	Examples of degraded areas revitalization in Poland and worldwide
Form of classes – design studio	
Curriculum contents	
D1	Development of guidelines for revitalization design
D2	Elaboration of the design of the revitalization of degraded area
D3	Development of conservation design of selected architectural object - concept

Didactic methods	
1	Lecture with multimedia presentation/ display
2	Individual development of the projects by students

Student Workload	
Form of activity	Average number of hours for the implementation of an activity
Contact hours with lectures, including:	45
Class attendance\ lectures:	15
Class attendance\ design classes:	30
Student's own work, including:	30
Development of the essay	5
Development of the project	25
Total time of student's work	75
Total number of ECTS credits for the course:	3
Number of ECTS credits in frames of practical classes (practical classes, laboratory classes, project classes)	2

Basic literature	
1	L. Gelfand, C. Duncan, Sustainable Renovation. Strategies for Commercial Building Systems and Envelope, Wyd. John Wiley&Sons, 2012, New Jersey
2	Reconnecting the City. The Historic Urban Landscape Approach and the Future of Urban Heritage. Ed. Byy. F. Brandin, R. Van Oers, Wiley Blackwell 2015.
3	B. M. Feilden,Conservations of Historic Buildings. Routledge, 2003
4	Transformer : reuse, renewal and renovation in contemporary architecture / [chief ed. Wang Shaoqianq], Berkeley : Gingko Press, 2010.
Additional literature	
1	Geotechnics and Heritage. Historic Towns. Ed. R. Lancellotta, A. Flora, C. Viggiani, CRC Press, London 2018

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W01 A2A_W02 A2A_W04	C1, C3	L1, L3, L4	1,	O1,
LO 2	A2A_W14	C1, C4	L1, L3, D1	1, 2	O1
LO 3	A2A_U06 A2A_U13 A2A_U14 A2A_U17 A2A_U20	C2, C3	D2	2	O1, O2
LO 4	A2A_U05 A2A_U06 A2A_U07	C2	L3, D3	2	O1, O2
LO 5	A2A_K07 A2A_K11 A2A_K09 A2A_K12	C3, C4	L5, L4, D2, D3	1, 2	O2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Written essay	60%
A2	Design elaboration and public presentation	100%

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Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Theory and history of the City

Code of the course:	IIAS5
Year:	1
Semester:	1
Form of study:	Full-time study
Form of classes and number of hours in semester:	45
Conversational lecture	30
Exercises	15
Number of ECTS credits:	3
Method of assessment:	Lectures – essay, exercises – assessment
Language of instruction:	English

The purpose and objectives of the course	
O1	Gaining ability to analyze urban structure and reveal principles of historical urban development
O2	Acquiring knowledge in historical and contemporary theories on urban development
O3	Deeper understanding of local traditions of urban development
O4	Application of quantitative and qualitative research skills to data-gathering and analysis of historical urban planning.

Initial requirements in terms of knowledge, skills and other forms of competence	
1	Basic knowledge of the history of architecture and urban planning.
2	Basic understanding of urban structure as multilayered result of historical development.

Learning outcomes	
	Knowledge:
LO1	Knowledge of theoretical evaluation of urban development theories, understanding of different approaches in valuation of urban historical environment.
	Social competence:
LO2	Critical understanding of role of different social groups in urban development processes, ability to reveal and present democratic viewpoint in valuation of urban processes.
	Skills:
LO3	Application of theoretical positions in the critical evaluation of urban sites.
	Ability to reveal and analyze historical urban heritage and particular cultural values.

Programme content	
Form of classes – lecture and exercises	
	Curriculum content
L1	City as integral result of internal and external factors of urban historical development.
L2	Basic theoretical principles of valuation of urban environment in the 20th – 21 centuries.
L3	Contemporary approach to urban architectural values.
L4	Role of local social groups and traditions in creation and use of urban architectural environment.
L5	Rehabilitation of historical urban areas as “green” environment: theory and practice
L6	Modern challenges for safeguarding of urban historical traditions and perspectives of their preservation.

Didactic methods	
1	Multimedia presentation, including theoretical content.
2	Discussion, oral presentation, essay.

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	45
Participation in lectures	30
Participation in exercises	15
Student’s own work, including:	30
Preparation of essay	15
Preparation to exercises	15
Total time of student work	75
Total number of ECTS credits for the course:	3
Number of ECTS credits in frames of practical classes (practical classes, laboratory classes, project classes)	1

Basic literature	
1	Ching, F.D.K., Jarzombek, M., Prakash, V. (2007). A Global History of Architecture, John Wiley&Sons, Inc.
2	Bandarin, F., van Oers, R. (2014). The Reconnecting the City: The Historic Urban Landscape Approach and the Future of Urban Heritage. Oxford, Wiley Blackwell.
3	Mumford, L. (1961). The city in history*:* its origins, its transformations, and its prospects. New York, Harcourt, Brace & World, Inc.
4	Jakobs, J. (1961). The Death and Life of Great American Cities. New York Random House, Inc.
Additional literature	
1	Hinse, T. (2014). The Morphology of the Times. European Cities and their Historical Growth. Berlin, DOM Publishers.

2	Bandarin, F., Van Oers, R. (2012). The Historic Urban Landscape. Managing Heritage in an Urban Century. Wiley&Sons, Inc.
3	Rodwell, D. (2007). Conservation and Sustainability in Historic Cities. Oxford, Blackwell Publishing, Ltd.
4	Taylor, N. (1998). Urban Planning Theory since 1945. London, Sage.

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W02 A2A_W13	O2, O3	L1, L2, L3, L4,	1	A1
LO 2	A2A_K07 A2A_K08 A2A_K09 A2A_K11 A2A_K12	O1	L3, L4, L5, L6	2	A2
LO 3	A2A_U01 A2A_U02 A2A_U05 A2A_U11 A2A_U012	O3, O4	L3, L4, L5, L6	1, 2	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Written essay	60%
A2	Written colloquium of exercises contents	70%

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Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Propaedeutics of Heritage Protection

Code of the course:	IIAS6
Year:	I
Semester:	1
Form of study:	Full-time study
Form of classes and number of hours in semester:	30
Lecture	15
Exercises	15
Laboratory	
Design	
Number of ECTS credits:	2
Method of assessment:	lectures – exam, exercises – assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Acquiring basic knowledge in field of protection and conservation of monuments
O2	Acquiring skills of historical object analysis, with particular emphasis on determining the value of the historic building and their attributes.

Initial requirements in terms of knowledge, skills and other competences	
1	Knowledge of history of architecture and urban planning, with particular emphasis on the skills of analysing the architectural object and urban complex
2	Basic knowledge of construction, building materials, design and equipment of buildings.

Learning outcomes	
	Knowledge:
	Student:
LO 1	Defines and lists the key concepts and principles for dealing with historic buildings (the base of the modern doctrine of conservation)
LO 2	Formulates rules for the analysis of the historical building
	Skills:
	Student:
LO 3	Selects the scope of renovation and conservation works necessary to preserve the value of the historical building (monument of architecture and construction)
LO 4	Carries out the queries in order to obtain information necessary to determine the value of the monument
	Social competences:
	Student:

LO 5	Understands the necessity to protect heritage site and the validity of carrying out the specified scope of restoration works (resulting from the conservation doctrine)

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	Theoretical basics of protection and conservation of monuments (assumptions of the modern conservation doctrine)
L2	Rules of analysis of the value of historical objects
L3	Rules of conservation action
Form of classes – exercises	
	Curriculum contents
E1	Analysis of the selected historical object - determining the value of historic buildings, the main threats
E2	Conservation and adaptation works project aimed at preservation of the value of historical architectural object

Didactic methods	
1	Lectures with multimedia presentations
2	Projects elaborated for historical buildings (individually chosen by the students)
3	Examples of documentation (object analysis, conservation and adaptation works)

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	30
Participation in lectures	15
Participation in exercises	15
Student's own work, including:	30
Preparation to exam	20
Preparation to exercises	10
Total time of student work	60
Summary number of ECTS credits for the course:	2
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	Jokilehto J., A history of architectural conservation, Butterworth-Heinemann, Oxford, 2002
2	Basic texts of the 1972 World Heritage Convention, UNESCO WHC, Paris, 2005
3	Many voices, one vision : the early years of the world heritage convention / Christina Cameron, Mechtild Rössler, Farnham ; Burlington : Ashgate, 2013.
4	Conservation Officer's Handbook. International Standards in Cultural Heritage Protection / 2015 edition /, Warsaw 2015, ICOMOS - Polish National Committee of the International Council on Monuments and Sites

Additional literature	
1	The historic urban landscape : managing heritage in an urban century / by Francesco Bandarin and Ron van Oers, Chichester : Wiley-Blackwell, 2012.
2	Design and landscape for people : new approaches to renewal / Clare Cumberlidge and Lucy Musgrave, Cumberlidge, Clare,London : Thames & Hudson ; 2007.
3	EwaGlos : European illustrated glossary of conservation terms for wall paintings and architectural surfaces : English definitions with translations into Bulgarian, Croatian, French, German, Hungarian, Italian, Polish, Romanian, Spanish and Turkish / edited by Angela Weyer, Pilar Roig Picazo, Daniel Pop, JoAnn Cassar, Aysun Özköse, Jean-Marc Vallet, Ivan Srša, Petersberg : Michael Imhof Verlag, 2015.
4	Reconnecting the city : the historic urban landscape approach and the future of urban heritage / editors Francesco Bandarin and Ron van Oers, Chichester : Wiley Blackwell, 2015.

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W14	O1	L1, L3	1, 3	A1
LO 2	A2A_W14	O1	L2	1, 3	A1
LO 3	A2A_U18, A2A_U19, A2A_U20	O2	E1	2, 3	A1,A2
LO 4	A2A_U18	O2	E2	2, 3	A1,A2
LO 5	A2A_K07, A2A_K11, A2A_K12	O1, O2	L1, D1	1, 2, 3	A1,A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Exam	60%
A2	Written colloquium of exercises contents	50%

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Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Architectural Design In Historical Context – Design studio

Code of the course:	IIAS7a
Year:	I
Semester:	II
Form of study:	Full-time study
Form of classes and number of hours in semester:	**40**
Lecture	15
Exercises	
Laboratory	
Design	25
Number of ECTS credit	**2**
Method of assessment	lectures – short written individual examination during the course; design - assessment
Language of instruction	English

The purpose and objective of the course	
O1	to gain understanding of the contextual approach while designing in historical environment
O2	to get the competence to interpret the data of historic research to highlight architectural value of the city
O3	to get competence to generate solutions that maintain and strengthen the identity of the place

Initial requirements in terms of knowledge, skills and other competences	
1	Basic knowledge of architectural history and urban development
2	Main skills to analise and synthetise
3	Basic skills to develop an architectural project

Learning outcomes	
	Knowledge:
LO 1	knowledge of architectural design in historic city
LO 2	knowledge of architectural styles and urban development
LO 3	knowledge of heritage preservation requirements in historic environment
	Skills:
	Student is able to:
LO 4	to collect and interpret historical data for the preparation of an architectural project
LO 5	to reconcile the requirements of heritage protection, to respect the provisions of authenticity, continuity, integrity and sustainability

LO 6	to prepare the architectural design in historic city
	Social competences:
LO 7	understands the need of the respect for cultural heritage
LO 8	is able to work independently and to work in a team

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	Theorethical background of architectural heritage preservation. Main provisions of International charters, guidelines, recomendations (part 1)
L2	Theorethical background of architectural heritage preservation. Main provisions of International charters, guidelines, recomendations. (part 2)
L3	Heritage value of the historic built environment. identification, elicitation/elaboration, statement of significance, integration of assessments
L4	Problem of authenticity
L5	Urban development, historic periods, urban structures, styles, values (case of Vilnius city).
L6	New architecture in historic city (Vilnius case) and reconstruction (recreation) phenomenon. problem of authenticity, continuity, integrity and sustainability
L7	Rehabilitation methodology of historic built environment
Form of classes – design studio	
	Curriculum contents
D1	Learning how to collect the historic data of the city (or area); looking for the different sources and for varied aspects to incorporate.
D2	Learning how to make research.
D3	to systemize the collected data, to select and group the data (bibliographic. cartographic, iconographic and other recorded sources);
D4	to synthetize the data and to highlight the essential historical periods.
D5	Visiting the objects, and making investigation in situ (observing, drawing, photo fixation, using other recording measures). Identifying the actual situation of the place.
D6	Learning how to interpret the historic context and to articulate values and definition of the significance. Draw the informed opinion about the building today.
D7	Drafting the argumentation for intervention. Study of analogous; creating the conception of design (possible options) that can strengthen the identity of place.

Didactic methods	
1	Theory lectures. Presentation
2	Guided tours and on-site lectures, observation and discussion
3	Creative independent student activity, discussions, interpretations
4	Design studio, experimental design, consultations

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	**40**
Participation in lectures	15

Design classes/Visit activity	25
Student's own work, including:	**10**
Individual elaboration of design	10
Total time of student work	**50**
Summary number of ECTS credits for the course:	**2**
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	**1**

Basic literature	
1	Assessing the Values of Cultural Heritage. 2002. The Getty Conservation Institute. https://www.getty.edu/conservation/publications_resources/pdf.../pdf/assessing.pdf
2	Authenticity in Architectural Heritage Conservation. Discourses, Opinions, Experiences in Europe, South and East Asia. Editors: Weiler, Katharina, Gutschow, Niels. 2017.
3	Heritage. Ed. Byy. F. Brandin, R. Van Oers, Wiley Blackwell 2015.
4	B.M.Feilden-J.Jokiletho, Management guidelines for world cultural heritage sites, Rome 1998
5	J. Jokiletho (ed.), What is OUV? Defining the outstanding universal value of cultural world heritage properties, Berlin 2008
6	D. Barthel-Bouchier, 2016, Cultural Heritage and the Challenge of Sustainability, Routledge, London and New York
7	B. Szmygin (ed.), How to assess built heritage ? Assumption, methodologies, examples of heritage assessment systems, Florence-Lublin 2015
Additional literature	
1	Gillian Rose. Visual methodologies : an introduction to the interpretation of visual materials. 2007, London: SAGE Publications
2	Guide to recording historic buildings. ICOMOS. 1990, London: Butterworth Architecture.
3	C. Bloszies, Old Buildings, New Designs. Architectural transformations, 2011
4	Historical and Philosophical Issues in the Conservation of Cultural Heritage Edited by: N. S. Price, M. K. Talley Jr., A. M. Vaccaro. 1996. Getty Conservation Institute.

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO1	A2A_W14	O1, O2, O3,	L1-L7, D1-D7	1, 2, 4	A1, A2, A3
LO2	A2A_W02	O1, O2, O3,	L1-L7, D1-D7	1, 2	A1, A2, A3
LO3	A2A_W01	O1, O2	L1-L7, D1-D7	1, 2, 3, 4	A1, A2, A3
LO4	A2A_U01	O1, O2, O3	L1-L7, D1-D7	1, 2, 3, 4	A1, A2, A3
LO5	A2A_U02	O1, O2	L1-L7, D1-D7	1, 2, 3, 4	A1, A2, A3
LO6	A2A_U18	O2, O3	L1-L7, D1-D7	1, 2, 3, 4	A1, A2, A3

LO7	A2A_U20	O3	L1-L7, D1-D7	1, 2, 3, 4	A1, A2, A3
LO8	A2A_U05,	O1	D1-D7	2, 3, 4	A2, A3

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Short written individual examination (colloquium) during the course; knowledge of architectural heritage preservation	60%
A2	Intermediate assessment of design elaborations; conversation	60%
A3	Final assessment; project presentation and comments of the project	80%

Author of the programme:	Edita Riaubiene, dr,
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Institution:	Vilnius Gediminas Technical University, Faculty of Architecture, Department of Fundamentals, Theory and Art

Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Architectural Design In Environmental Context – Design studio

Code of the course:	IIAS7b
Year:	I
Semester:	II
Form of study:	Full-time study
Form of classes and number of hours in semester:	**40**
Lecture	15
Exercises	
Laboratory	
Design	25
Number of ECTS credit	**2**
Method of assessment	lectures – colloquium; design - assessment
Language of instruction	English

The purpose and objective of the course	
O1	Critical understanding of doctrinal texts in heritage protection, related to historical centre
O2	Acquiring elements to understand doctrinal texts in protection of environment and design
O3	Relationship between historical centre and environment context
O4	Definition of outstanding universal value

Initial requirements in terms of knowledge, skills and other competences	
R1	Basic knowledge of historical context
R2	Basic knowledge of environment context
R3	Analysis and synthesis skills

Learning outcomes	
	Knowledge:
LO 1	Principal of restoration of monuments. Treatments and authenticity
LO 2	Learning methods of critical restoration design
LO 3	Urban planning and world heritage towns
LO 4	How to determinate outstanding universal value of heritage
LO 5	Critical analysis and methodological proposal
LO 6	Maintenance of heritage
	Skills:
LO 7	Capacity of searching integrated solutions between historical and environmental context
LO 8	Conserving and restoring architecture in a critical way

	Social competences:
LO 9	Conservation between historical and environmental context

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	Doctrinal texts (The Venice Charter 1964, Italian charter 1972, The declaration of Amsterdam 1975, Washington Charter 1987, Quebec Declaration 2008, Paris Recommendation 2011, Florence European Landscape Convention 2000)
L2	General idea of historical centre trough the age
L3	The idea of environment in the history
L4	The dialogue between historical centre and new insertions
Form of classes – design	
	Curriculum contents
D1	Learning of historical centre and environment and their history
D2	Learning design process

Didactic methods	
1	Theory lectures. Presentation
2	Individual exercise to develop in classroom
3	Design studio

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	**40**
Participation in lectures	15
Participation in design classes	25
Student's own work, including:	**10**
Execution of design	10
Total time of student work	**50**
Summary number of ECTS credits for the course:	**2**
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	B. Szmygin (ed.), Conservation officer's handbook, Lublin 2015
2	B.M.Feilden-J.Jokiletho, Management guidelines for world cultural heritage sites, Rome 1998
3	J. Jokiletho (ed.), What is OUV? Defining the outstanding universal value of cultural world heritage properties, Berlin 2008
4	B. Szmygin (ed.), Outstanding universal value and monitoring of world heritage properties, Warsaw 2011
5	B. Szmygin (ed.), How to assess built heritage ? Assumption, methodologies, examples of heritage assessment systems, Florence-Lublin 2015

Additional literature	
1	N. Stanley-Price-M. Kirby Talley jr.-A.M. Mellucco Vaccaro, Historical and Philosophical issues in the conservation of cultural heritage, USA 1996
2	C. Bellanca, Methodological approach to the restoration of historical architecture, Florence 2008
3	C. Bloszies, Old buildings, new building. Architectural transformation,

Learning outcomes matrix

Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W01, A2A_W02, A2A_W11, A2A_W12, A2A_W14	O1, O2, O3, O4	L1, L2, L3, L4, D1, D2	1, 2, 3	A1, A2, A3
LO 2	A2A_W01, … A2A_W04, A2A_W11, … A2A_W14	O1, O2, O3, O4	L1, L2, L3, L4, D1, D2	1, 2, 3	A1, A2, A3
LO 3	A2A_W01, … A2A_W04, A2A_W11, … A2A_W14	O1, O2, O3, O4	L1, L2, L3, L4, D1, D2	1, 2, 3	A1, A2, A3
LO 4	A2A_W01, … A2A_W04, A2A_W11, … A2A_W14	O1, O2, O3, O4	L1, L2, L3, L4, D1, D2	1, 2, 3	A1, A2, A3
LO 5	A2A_W01, … A2A_W04, A2A_W11, … A2A_W14	O1, O2, O3, O4	L1, L2, L3, L4, D1, D2	1, 2, 3	A1, A2, A3
LO 6	A2A_W03, A2A_W04, A2A_W11, … A2A_W14	O1, O2, O3, O4	L1, L2, L3, L4, D1, D2	1, 2, 3	A1, A2, A3
LO 7	A2A_U01, … A2A_U03, A2A_U05, A2A_U11, … A2A_U14	O1, O2, O3, O4	L1, L2, L3, L4, D1, D2	1, 2, 3	A1, A2, A3
LO 8	A2A_U01, …	O1, O2, O3,	L1, L2, L3, L4, D1,	1, 2, 3	A1, A2, A3

	A2A_U03, A2A_U05, A2A_U11, … A2A_U14	O4	D2		
LO 9	A2A_K06, … A2A_K08, A2A_K11, A2A_K12	O1, O2, O3, O4	L1, L2, L3, L4, D1, D2	1, 2, 3	A1, A2, A3

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Short written individual examination - colloquium during the course	50%
A2	Design elaboration assessment	80%
A3	Final oral and individual presentation of the design project	70%

Author of the programme:	**Prof. Calogero Bellanca**
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Institution:	**Sapienza, Università di Roma**

Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Week summer design studio /real case studies – object and landscape scale - conceptual design/ - Italian architecture and culture

Code of the course:	**IIAS8**
Year:	I
Semester:	II
Form of study:	Full-time study
Form of classes and number of hours in semester:	**40**
Lectures	15
Design	25
Number of ECTS credits:	**2**
Method of assessment:	participation in the field activity; presentation - assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Guiding the student in the comprehension of the design project, starting from the study and interpretation of the context, of the state of fact, to the definition of the design solutions, both formal and constructive, or the study of the presented solutions.
O2	Provide the ability to understand and investigate issues related to the different scales of the design project.
O3	Develop the student's critical skills in assessing the different facets of the presented design issue and the relationships between the various levels of the project, through the direct contact with a case study.

Initial requirements in terms of knowledge, skills and other competences	
R1	Basic notions of functional, morphological and typological design principles.
R2	Ability to draw up and organize a simple and integrated project in an urban context.
R3	Basic knowledge of history of architecture, materials, technology and construction techniques.

Learning outcomes	
	Knowledge:
LO 1	Expanding knowledge about architecture design projects and urban design projects in Europe, in order to enhance the cultural background of the student.
LO 2	In-depth and critical understanding of the proposed design theme at different scales of relationship: local, urban, territory and landscape; relationship with historic context.
	Skills:

LO 3	Ability to recognize or define and choose different interventions in relation to the problems and to the design themes presented.
LO 4	Develop a conceptual design or study a project realized in a historical context by formulating conclusions about the Adaptation and the Valorisation.
	Social competences:
LO 5	Developing awareness and respect for the value of architecture, of cultural and landscape heritage and understanding the identity of the European city.
LO 6	Ability to critically interpret the needs of society, avoiding formalistic suggestions.
LO 7	Acquire the ability to communicate space and design ideas.

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	The relationship between architectural organism and urban context and landscape.
L2	The relationship between monument and historical context.
L3	The relationship with history and technique.
L4	The typological and morphological articulation of buildings and urban settlements.

Form of classes – design	
	Curriculum contents
D1	Analysis of the factual state at urban and architectural scale.
D2	Training and organizing the skills related to how to control the different phases of the design process.
D3	Study and research or formulation and representation of the proposal for interventions.

Didactic methods	
1	Lectures and debates, *in situ*.
2	Field work with teacher, study, design and exercises *in situ*.

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours/field activity:	**40**
Participation in lectures	15
Participation in design classes	25
Student's own work, including:	**10**
Individual elaboration of design/presentation	10
Total time of student work	**50**
Summary number of ECTS credits for the course:	**2**
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	The bibliography changes according to the theme chosen as object of study

2	(Ed.) C. Bellanca, Methodical approach to the restoration historic architecture, Alinea, Firenze, 2011
3	G. Croci, Credibility and reliability in the safety evaluation of monuments : the Palazzo Senatorio in Campidoglio, Leuven University Press, Leuven, 1988
Additional literature	
1	(Ed.) M. Bertoletti, Maddalena Cima, Emilia Talamo, Centrale Montemartini, Roma, 2007
2	(Ed.) E. Pitzalis and G. Hanssen Il Campidoglio di Carlo Aymonino, Roma, 2000
3	(Ed.) G. Ciucci, F. Ghio, P. O. Rossi, Roma la nuova architettura, Milano 2006

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W01, … A2A_W05, A2A_W12, … A2A_W14, A2A_W17	O1, O2, O3	L1, L2, L3, L4	1	A1, A2
LO 2	A2A_W01, … A2A_W05, A2A_W12, … A2A_W14, A2A_W17	O1, O2, O3	L1, L2, L3, L4; D1, D2, D3	1, 2	A1, A2
LO 3	A2A_U06, A2A_U19, A2A_U20	O1, O2, O3	L1, L2, L3, L4; D1, D2, D3	1, 2	A1, A2
LO 4	A2A_U02, A2A_U03, A2A_U11	O1, O2, O3	L1, L2, L3, L4; D1, D2, D3	1, 2	A1, A2
LO 5	A2A_K06, A2A_K11, A2A_K12	O1, O2, O3	L1, L2, L3, L4; D1, D2, D3	1, 2	A1, A2
LO 6	A2A_K06, A2A_K11, A2A_K12	O1, O2, O3	L1, L2, L3, L4; D1, D2, D3	1, 2	A1, A2
LO 7	A2A_K01, A2A_K07	O1, O2, O3	L1, L2, L3, L4; D1, D2, D3	1, 2	A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Assessment of participation in the field activity	70%
A2	Final presentation assessment	80%

Author of the programme:	**Calogero Bellanca**
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Institution:	**Sapienza Università di Roma**

Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Freehand Architectural Drawing/Urban sketching

Code of the course:	**IIAS9**
Year:	I
Semester:	II
Form of study:	Full-time study
Form of classes and number of hours in semester:	**20**
Lecture	10
Exercises - drawing/sketching visits and tours	10
Number of ECTS credits:	**1**
Method of assessment:	lectures – assessment; portfolio – assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Deepen the basic knowledge of geometry and representation of space.
O2	Develop the ability to analyse the urban space and the architectural organism and recognize its main and characterizing elements.
O3	Provide the tools to properly address the various phases of knowledge both of urban space and architectural organism: the survey, the historical research, the drafting of *eidotipi* and the graphic refunds applied; Representation of plans, sections, elevations; The problem of scale reduction; The survey of colour and materiality.
O4	Guide the student in acquiring a graphic language with which to express a design idea or to represent the reality of things.

Initial requirements in terms of knowledge, skills and other competences	
R1	Basic math and geometry competences.
R2	Basic knowledge of history of architecture, materials, technology and construction techniques.

Learning outcomes	
	Knowledge:
LO 1	Use the drawing to deepen the knowledge of the urban space and architecture through their representation, which is fundamental cognitive tool.
LO 2	Acquire the knowledge of the geometry and the techniques necessary for the representation of space.
	Skills:
LO 3	Acquiring the capacity to read the space and the architecture.
LO 4	Development of a graphic language with which to express a design idea or to represent the reality of things.

	Social competences:
LO 5	Acquire the ability to communicate space and design ideas in a realistic or convincing way, depending on the function that the representation must have.

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	Architectural drawing and urban sketching. Presentation of some examples.
L2	Different techniques of drawing (pencil, water drawings…).
L3	Geometry concepts in architectural design.
L4	Study and representation of architectural heritage.
L5	Survey and representation of the existing and designed architecture.

Form of classes – exercises	
	Curriculum contents
	During the semester, the course shall be subject to drawing exercises on the topics covered both in classroom lectures and in lectures in site.
D1	Architectural drawing and urban sketching.
D2	Representation of the architectural heritage. Monuments, churches, palaces. Walls, towers, castles. Architectural classic orders.
D3	Representation of modern and contemporary architecture. Overall visions, elements and details, scales of representation.

Didactic methods	
1	Theory lectures and debates.
2	Visits and tour with teacher and drawing *in situ*.
3	Short individual exercises developed in class.

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours, including:	**20**
Participation in lectures	10
Participation in drawing/sketching visits and tours	10
Student's own work, including:	**20**
Preparation for lectures assessment	5
Preparation of drawings/sketches	15
Total time of student work	**40**
Summary number of ECTS credits for the course:	**1**
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	R. M. Patterson, Manual for the preparation of "as found" drawings, British Columbia,

	Canada: British Columbia Heritage Trust, Victoria, 1982
2	L. Farrelly, N. Crowson, Representational Techniques for Architecture, Bloomsbury Publishing, London, 2015
3	S. Unwin, Analysing architecture, Taylor & Francis, Routledge, London, 2014
Additional literature	
1	M. Docci, Teoria e pratica del Disegno, Edizioni Laterza, Bari-Roma, 2010
2	M. Docci e Franco MIRRI, La redazione grafica del progetto architettonico, NIS, Roma, 1989
3	M. Quoiani, La rappresentazione nell'ingegneria ambientale, CISU, Roma, 1996

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W01, A2A_W02, A2A_W03, A2A_W13	O1, O2, O3, O4	L1-L5; D1, D2, D3	1, 2, 3	A1, A2, A3
LO 2	A2A_W01, A2A_W02, A2A_W03, A2A_W13	O1, O2, O3, O4	L1- L5; D1, D2, D3	1, 2, 3	A1, A2, A3
LO 3	A2A_U12, A2A_U15, A2A_U16	O1, O2, O3, O4	L1- L5; D1, D2, D3	1, 2, 3	A1, A2, A3
LO 4	A2A_U12, A2A_U15, A2A_U16	O1, O2, O3, O4	L1- L5; D1, D2, D3	1, 2, 3	A1, A2, A3
LO 5	A2A_K09, A2A_K11, A2A_K12	O1, O2, O3, O4	L1- L5; D1, D2, D3	1, 2, 3	A1, A2, A3

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Short individual exercises during the course	60%
A2	Final portfolio assessment	60%
A3	Lectures assessment	60%

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Institution:	**Sapienza Università di Roma**

Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Architectural conservation studio

Code of the course:	IIAS10
Year:	I
Semester:	II
Form of study:	Full-time study
Form of classes and number of hours in semester:	**90**
Lecture	20
Exercises	30
Laboratory	
Design	40
Number of ECTS credit	**5**
Method of assessment	lectures – assessment; exercise – assessment; design - assessment
Language of instruction	English

The purpose and objective of the course	
O1	Methodological approach to the study and the restoration project.
O2	Knowledge of the architectonic and archaeologic pre-existence.
O3	Capacity for a correct research and study before the proposal for the intervention.

Initial requirements in terms of knowledge, skills and other competences	
R1	Knowledge of the history of architecture.
R2	Basic knowledge of survey techniques.
R3	Basic knowledge of materials, technology and ancient construction techniques.
R4	Analysis and synthesis skills.
R5	Basic knowledge for the archivistic and bibliographic research.

Learning outcomes	
	Knowledge
LO1	Ability to acquire the historical-critical knowledge of the monument.
LO2	Ability to identify the different phenomena of alteration in the preliminary phase of the project.
LO3	Ability to define and choose the different interventions in relation to diseases and to degrade.
	Skills
LO4	Ability to conduct the analysis of deterioration.
LO5	Ability to prepare a correct programme of interventions.
	Social competences
LO6	Capablility to organize the data gathering with a group.

LO7	Developing awareness and respect for the value of heritage e understands the role of the architect in its protection.

Programme content	
Form of classes - lecture	
	Curricular contents
L1	Introduction to the methodical study of monuments: the survey, the historical-critical analysis, and the restoration project.
L2	The survey: territorial placement, photographic identification, the geometric-dimensional and architectural survey.
L3	The historical- critical analysis: historic iconography, the analysis of constructive features, the logical-constructive model, the theme of volumetric layout, the metrological and proportional analysis, analysis of masonry, decoration, spolia and reemployed. Comparisons: analogies and differences. Reading of the architectural organism: synthesis of the monument in time.
L4	Methodical study of historic towns.
L5	Preventive protection of archaeological site.
L6	Basic analysis of the form of intervention.
L7	Intervention proposal and representation.
L8	Overview of cleaning, consolidation, protection, reintegration.
L9	Dampness, causes and solutions.
L10	Surface conservation and colour of the façade in single buildings and historic centers.

Form of classes - exercise	
	Curricular contents
E1	During the semester, the course shall be subject to regular written and individual exercises on the topics covered both in classroom lectures and in lectures in site.
E2	Review of the Conservation/Restoration Project.

Form of classes – design	
	Curricular contents
D1	The analysis of currents status e preliminary research for knowledge.
D2	The analysis of territorial placement.
D3	Historic iconography.
D4	Metrological and proportional analysis.
D5	Analogies and differences with other elements.
D6	Analysis of constructive features.
D7	Analysis of surfaces, materials, colors…
D8	Synthesis of the monument in time.
D9	Graphic comprehensibility and Normal terminology.

Didactic methods	
1	Theory lectures and debates.
2	Visit and tour with teacher.
3	Working groups for the completion of the Conservation/Restoration Project.

Student workload	
Form of activity	Average number of hours for implementation of activities
Contact hours of lectures, including:	**90**
Participation in lectures	20
Participation in exercises	30
Participation in design classes	40
Student's own work, including:	**35**
Preparation to lectures	10
Execution of the design	25
Total time of student work	**125**
Summary number of ECTS credits for the course:	**5**
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	3

Basic literature	
1	SURE MANUAL 3: Methodical Approach to Conservation
Additional literature	
1	G. DE ANGELIS D'OSSAT, *Guide to methodological study of monuments and causes of their deterioration*, ICCROM, Roma, 1977.
2	G. CARBONARA, *Trattato di Restauro architettonico*, Torino 1996 and new editions.
3	P. PHILIPPOT, P. MORA, *Conservation of wall paintings*, London; Boston: Butterworths, 1984.
4	VV. AA., Basilica di San Pietro Restauro e Conservazione, Roma 1999.

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO1	A2A_W01, A2A_W02, A2A_W12, A2A_W13, A2A_W14	O1, O2, O3	L1, L2, L3, L4, D1, … D9	1, 2, 3	A1, A2
LO2	A2A_W01, A2A_W02, A2A_W12, A2A_W13, A2A_W14	O1, O2, O3	L1, L2, L3, L4, L5, L6, L8, L9, D1, … D9	1, 2, 3	A1, A2
LO3	A2A_W01, A2A_W02, A2A_W12, A2A_W13,	O1, O2, O3	L1, ...L10, E1, E2, D1, … D9	1, 2, 3	A1, A2

	A2A_W14				
LO4	A2A_U01, A2A_U02, A2A_U03, A2A_U05, A2A_U11	O1, O2, O3	L1, … L10, D1, … D9	1, 2, 3	A1, A2
LO5	A2A_U01, A2A_U02, A2A_U03, A2A_U05, A2A_U11	O1, O2, O3	L1, … L10, D1, … D9	1, 2, 3	A1, A2
LO6	A2A_K01, A2A_K06, A2A_K07	O1, O2, O3	D1, … D9	1, 3	A2
LO7	A2A_K06, A2A_K11, A2A_K12	O1, O2, O3	L1, … L10, D1, … D9	1, 2, 3	A1, A2

Assessment method description		
Assessment method symbol	Assessment method description	Pass threshold
A1	Short written individual examination – colloquium during the course	70%
A2	Design elaboration assessment	80%

Author of the programme:	**Calogero Bellanca**
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Institution:	**Sapienza Università di Roma**

Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Introduction Course on Theory and History of Conservation: Terminology, Criteria

Code of the course:	IIAS11
Year:	I
Semester:	II
Form of study:	Full-time study
Form of classes and number of hours in semester:	**75**
Lecture	50
Exercises	25
Laboratory	
Design	-
Number of ECTS credit	**4**
Method of assessment	lectures – examination; exercise – assessment
Language of instruction	English

The purpose and objective of the course	
O1	Gaining knowledge about the basic steps and the main characters that have built the different theories and philosophies of conservation/restoration.
O2	Analyse the different periods of the history of restoration through the analysis of some significant episodes.
O3	Provide concepts regarding, terminology, criteria and charters regarding conservation and restoration.
O4	Provide the ability to approach restoration of the heritage (archaeological, architectural…) in a methodical way.

Initial requirements in terms of knowledge, skills and other competences	
R1	Knowledge of the history of architecture.
R2	Basic knowledge of survey techniques.
R3	Basic knowledge of materials, technology and ancient construction techniques.
R4	Ability to contextualize architectural objects and recognize their cultural value, and knowledge of the basics principles of design.

Learning outcomes	
	Knowledge
	Student:
LO1	Has basic knowledge of architectural design for restoration/conservation with particular reference to the protection and conservation of the heritage.
LO2	Defines criteria and lists methodical approach of conservation/restoration of architectural and archaeological heritage.
	Skills

LO3	Acquiring the knowledge of the monument in its historical phases.
LO4	Understanding the problems concerning the current state analysis.
	Social competences
LO5	Developing awareness and respect for the value of heritage e understands the role of the architect in its protection.
LO6	Capability to organize the data with a group.

Programme content	
Form of classes - lecture	
	Curricular contents
L1	Introduction and recall to basic concepts, linking the definition of Conservation/Restoration.
L2	The History of Conservation, Stylistic-Restoration, Conservation vs. Restoration, Scientific and Philological Restoration, Critical Restoration and Pure Conservative, Critic-Conservative.
L3	The Charters of Restoration, from Camillo Boito 1883, to Athens Charter for the Restoration of Historic Monuments 1931 and International Charter for the Conservation and Restoration of Monuments and Sites, the Venice Charter 1964, to Declaration of Amsterdam 1975, and recent elaborations, Charter for the Conservation of Historic Towns and Urban Areas, Washington 1987, Quebec Declaration on the Preservation of the Spirit of the Place, 2008, Recommendation on the Historic Urban Landscape, Paris 2011.
L4	Reading of the architectural organism: synthesis of the monument in time.
L5	Current trends in Conservation/Restoration, misunderstanding in terminology: reuse, rehabilitation, renovation, recovery, reanimation, recycling…

Form of classes - exercise	
	Curricular contents
E1	During the semester, the course shall be subject to regular written and individual exercises on the topics covered both in classroom lectures and in lectures in site.

Didactic methods	
1	Theory lectures and debates.
2	Short individual exercises developed in class.
3	Visit and tour with teacher.
4	Group research and presentation in class about a case of study.

Student workload	
Form of activity	Average number of hours for implementation of activities
Contact hours of lectures, including:	**75**
Participation in lectures	50
Participation in exercises	25
Student's own work, including:	**25**
Preparation to examination	10
Preparation to exercises	10

Total time of student work	**100**
Summary number of ECTS credits for the course:	**4**
Number of ECTS credits in frames of practical classes (exercises, labo ratory classes, design classes)	1

Basic literature	
1	SURE MANUAL 1: Theory and History of Conservation.
2	C.BRANDI, *Theory of Restoration*, Nardini editore, Firenze 2005.
Additional literature	
1	N. STANLEY-PRICE, M. KIRBY TALLEY, A. MELUCCO VACCARO, *Historical and Philosophical Issues in Conservation of Cultural Heritage*, The Getty Institute, Los Angeles 1996.
2	J. JOKILEHTO, *A History of Architectural Conservation,* Oxford 1999.
3	*Conservation Officer's Handbook, International Standards in Cultural Heritage Protection,* 2015 edition, edited by Boguslaw Szmygin, Warsaw 2015.
4	C. BELLANCA, *Conservation, restauration; short gleaning on architectural terminology*, in *Conserving the authentic*, *Essay in Honor of Jukka Jokilehto*, edited by Nicholas Stanley-Price and Joseph King, ICCROM 10, Roma 2009, 47-54, english edition.
5	C. BELLANCA, *The values of Cultural Heritage in the Terminology of Restoration*, in *Values and Criteria in Heritage Conservation*, *Proceedings of the International Conference of ICOMOS, ICCROM*, Fondazione del Bianco, Florence 2-4 March 2007, Firenze 2008, pp. 249-258.

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO1	A2A_W01, A2A_W02, A2A_W14	O1, O2, O3, O4	L1, L2, L3, E1	1, 3	A1, A2, A3
LO2	A2A_W01, A2A_W02, A2A_W12, A2A_W14	O3, O4	L1, L2, L3, L4, L5, E1	1, 3	A1, A2, A3
LO3	A2A_U01, A2A_U02, A2A_U05, A2A_U12	O3, O4	L1, L4, E1	1, 2, 3, 4	A1, A2, A3
LO4	A2A_U01, A2A_U02, A2A_U05, A2A_U12	O1, O2, O3, O4	L1, L4, E1	1, 2, 3, 4,	A1, A2, A3
LO5	A2A_K06, A2A_K11,	O1, O2, O3,	L1, L2, L3	1, 3, 4	A1, A2, A3

	A2A_K12	O4			
LO6	A2A_K01, A2A_K06, A2A_K07	O4	L1, L2, L3, L4, L5, E1	1, 4	A2

Assessment method description		
Assessment method symbol	Assessment method description	Pass threshold
A1	Short written individual examination during the course	50%
A2	Search for a single or a small group of students on a subject agreed with the teacher and assessment	60%
A3	Final exam	70%

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Institution:	**Sapienza Università di Roma**

Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

The Conservation Area and the Registered Landscape

Code of the course:	IIAS12
Year:	1
Semester:	II
Form of study:	Full-time study
Form of classes and number of hours in semester:	**30**
Lecture	15
Exercises	15
Laboratory	-
Design	-
Number of ECTS credit	**2**
Method of assessment	Lecture and exercises assessment
Language of instruction	English

The purpose and objective of the course	
O1	Understanding the basic principles and objectives of registered landscape areas.
O2	Knowing with forms of cultural landscape legal protection.
O3	Knowing the level of development of conservation thought in the area of landscape protection at an extended level understands their conditions.
O4	Understanding the concept of local and international protection (ICOMOS / UNESCO) of areas and landscapes, divided into types and categories.
O5	Learning how to assess areas and registered landscapes and how to develop viable models for protection.
O6	Introduce the key concepts regarding the management of cultural landscapes and will enable students to design strategies for their sustainable development.

Initial requirements in terms of knowledge, skills and other competences	
1	Knowledge of the basics of shaping landscapes, reading skills and valuing the landscape.
2	Ability to formulate postulates for local protection or developing programs and local planning documentations.

Learning outcomes	
	Knowledge:
	Student:
LO 1	Distinguishes between different types and categories of cultural landscapes, understands the need to protect the landscape and distinguishes between the forms of area protection.
LO 2	Has basic knowledge about the development of international conservation

	doctrine in area protection, gardens and cultural landscape.
	Skills:
	Student:
LO 3	Has the skills to perform basic studies and landscape analyzes for planning documents
LO 4	Student can make a preliminary valuation of the landscape resource of the area and propose the right protection model
	Social competences:
	Student:
LO 5	Is aware of the importance of landscape studies and the need to protect the landscape in development projects, in management and spatial development plans, and the participation of the local community in the undertaken activities

Programme content	
Form of classes – lectures	
L1	From the garden to the cultural landscape ideas - the genesis, evolution and history of the cultural landscape. The theory of development of conservational thought of protection.
L2	Registered landscape and areas - typology and the importance of the resource. Diversity of cultural landscapes, regionalism and difficulties in identifying the resource.
L3	The role of international laws, doctrines, charters, conventions, international organizations dealing with the conservation areas and cultural landscapes. Forms of cultural landscape, conservation zones and areas protection in Poland and Europe.
L4	Tools supporting the protection and management of the conservation areas and cultural landscape (from general to specific), methodology for performing studies of the historic landscape (inventory, analysis, evaluation, guidelines)
L5	Problems and threats to the protection and management of the cultural landscape
L6	Restoration of historical gardens, neglected and degraded historic landscapes.
L7	Forming social sensitivity, a model of participation in the aspect of co-responsibility for the cultural landscape.

Programme content	
Form of classes – exercises	
	Curriculum contents
E1	Collection of information about the area and identification of landscape elements.
E2	Selected landscape analysis of the protected area.
E3	Validation of landscape characteristics based on the selected landscape method.
E4	Development of a protection model with an indication for resource management.

Didactic methods	
1	Multimedia presentation, including theoretical contents
2	Conversational lecture
3	Case studies
4	Analytical studies in groups of students

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	**30**
Participation in lectures	15
Participation in exercises classes	15
Student's own work, including:	**20**
Preparation for classes	10
Individual elaboration of exercises	10
Total time of student work	**50**
Summary number of ECTS credits for the course:	**2**
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	CECCARELLI, Paolo, ROSSLER, Mechtild (eds), *Cultural Landscapes: The Challenges of Conservation,* World Heritage Papers 7 (2003): UNESCO World Heritage Center, Paris.
2	Council of Europe. 2000. *European Landscape Convention*.
3	Galla, A., ed. 2012. *World Heritage: Benefits Beyond Border*. Cambridge: Cambridge University Press and Paris: UNESCO.
4	ICOMOS. 1982. *Florence Charter: Historic Gardens*.
5	Meining, D.W., ed. 1979. *The Interpretation of Ordinary Landscapes*. New York and Oxford: Oxford University Press.
6	MITCHELL, Nora, ROSSLER, Mechtild, TRICAUD, Pierre-Marie (ed.), *World Heritage Cultural Landscapes. A Handbook for Conservation and Management,* World Heritage Papers 26 (2009): UNESCO World Heritage Center, Paris.
7	Taylor, K., and J. Lennon. 2012. *Managing Cultural Landscapes*. London and New York: Routledge.
8	UNESCO World Heritage Centre, *Report of the Regional Thematic Expert Meeting on Cultural Landscapes in Eastern Europe* (1999), Bialystok, Poland, 29 September-3 October 1999) WHC-99/CONF.204/INF.14
Additional literature	
1	Hobhouse, P. 2002. *The Story of Gardening*. London: Dorling Kindersley Limited.
2	ICOMOS. 2011. *Guidance on Heritage Impact Assessments for Cultural World Heritage Properties*. Paris: ICOMOS.
3	ICOMOS Recommendations and principles about landscape and parks, 2011-2017
4	Palubska K., 2017, Formulating a contemporary definition of resources and specifying the tools for supporting cultural landscape protection in Poland, *Paveldo brydès,* Wyd. Ministry of Culture of the Republic of Lithuania, Vilnius, pp. 67-95
5	Palubska, K., 2016, Possibilities of value assessment and identification of cultural landscape in Poland', *Heritage value assessment systems – the problems and the current state of research*, Politechnika Lubelska, ICOMOS-Poland, Lublin-Warsaw, pp. 183-204.
6	Palubska K., 2015, Hidden value of small towns in Eastern Poland - building identity through open public spaces, Space and Form nr 23/2-2015, PAN O/Gdańsk.

7	Taylor, K., and J. Lennon. 2012. *Managing Cultural Landscapes*. London and New York: Routledge.
8	UNESCO World Heritage Centre, *Report of the Regional Thematic Expert Meeting on Cultural Landscapes in Eastern Europe* (1999), Bialystok, Poland, 29 September-3 October 1999) WHC-99/CONF.204/INF.14, PDF online.

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W03	O1, O2, O4	L1-3, E1	1-4	A1-A3
LO 2	A2A_W14 A2A_U20	O3	L1, L3, L6, E1, E3	1, 2	A1-A3
LO 3	A2A_W14 A2A_U13 A2A_U17 A2A_K01 A2A_K07	O5	L4, E2	1-4	A1-A3
LO 4	A2A_W14 A2A_U17 A2A_U20 A2A_K12	O5, O6	L4-6, E3-4	1-4	A1-A3
LO 5	A2A_W04 A2A_U13 A2A_K11 A2A_K12	O6	L5, L7, E4	1-3	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Test of knowledge of lectures	60%
A2	Participation in exercises	60%
A3	Rendering a landscape study to the cultural landscape protection model	70%

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Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Aesthetics of Architecture

Code of the course:	IIAS13a
Year:	I
Semester:	II
Form of study:	Full-time study
Form of classes and number of hours in semester:	**40**
Lecture	25
Exercises	15
Laboratory	
Design	
Number of ECTS credit	**2**
Method of assessment	Lecture – short written exam during classes, exercises - assessment
Language of instruction	English

The purpose and objectives of the course	
C1	To get basic knowledge about contemporary aesthetics theories relevant for shaping the urban environment
C2	Understanding of aesthetic background of architectural activity both in the field of heritage protection and in processes creation of innovative modern architecture

Initial requirements in terms of knowledge, skills and other forms of competence	
1	Knowledge related with architectural design, urban planning, protection of monuments and historic towns, theory an history of the city

Learning outcomes	
	Knowledge:
LO1	Understanding of key concepts and principles of contemporary aesthetics theories those could be helpful for revealing the positive and negative features of contemporary architectural activity outcomes
LO2	Understanding of aesthetic background of architectural activity both in the field of heritage protection and in processes creation of innovative modern architecture
	Skills:
LO3	Ability to carry out critical metaanalysis of aesthetical qualities of architectural and urban designs
	Social competences:
LO4	Understands the necessity to evaluate aesthetical qualities of architectural and urban designs in various range of relevant contexts

Programme content	
Form of classes - lectures	
	Curricular contents
L1	Info about course. Cosmological, ritual, ecological roots of aesthetics (Images of cosmos and dwelling in theories and thinking of architecture. Sacral and profane models. Symbol as basis of cultural and natural motivations of architectural creation. Ecological conditions as aesthetical criterions)
L3	Aesthetics of architecture on the way into complex of interdisciplinary fields (Issues of sustainability, culture and ecology that have been lost in the era off international modernism. Shifting of architecture aesthetics into complex interdisciplinary fields developing new ideas enriching processes of creative practice)
L3	Globalization and regionalization as processes influencing development of new aesthetic visions, values, and experiences
L4	Nature of architectural expression. Sense and meaning in language of architecture. Problem of mass produced kitsch. Essential role of ethics in the development of aesthetic ideas
L5	Architecture and the social: How in architecture we can distinguish the manifestation of social aspect from manifestation of individual, personal moment (Collective and/or individual values. Regarding public participation. Problems related with relic of classical rationalism - spatiality principle. Cultural identity of locus as non-private issue)
L6	Aesthetics of architecture and challenges regarding the culture and society (Ignoring cultural connotations in presentation of architectural objects peculiarities. Problems related with giving too much importance to inner aspects of architecture - form, function, spectacularity. Exaggeration of the role of experts)
L7	Modern abstraction aesthetics, post-modern critical aesthetics. Phenomenological aesthetics. Intentions and intentionality in architecture
Form of classes – exercise	
	Curriculum contents
E1	Reading of the reference bibliography for the analysis
E2	Critical analysis of the selected case study
E3	Elaboration of an essay

Didactic methods	
1	Theoretical classes
2	Practical classes. Exercises
3	Individual activities
4	Group activities

Student workload	
Form of activity	Average number of hours for implementation of activities
Contact hours of lectures, including:	30
Participation in lectures	15
Participation in practical exercises	15

Student's own work, including:	30
Preparation to examination	15
Preparation to classes	15
Total time of student work	60
Summary number of ECTS credits for the course:	2
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	Berleant, A.; Carlson, A. (2007). *The Aesthetics of Human Environments*. Broadview Press.
2	Frampton, K. (2001). *Studies in Tectonic Culture: The Poetics of Construction in Nineteenth and Twentieth Century Architecture*. Cambridge, MA: The MIT Press.
3	Scruton, R. (1979/2013). *The Aesthetics of Architecture*. Princeton: Princeton University Press. 2nd edition.
4	Vesely, D. (2004). *Architecture in the Age of Divided Representation: The Question of Creativity in the Shadow of Production*. Cambridge, MA: The MIT Press.
5	Zangwill, N. (2001). *The Metaphysics of Beauty*. Ithaca: Cornell University Press.
Additional literature	
1	Currie, G. (1989). *An Ontology of Art*. London: Palgrave Macmillan.
2	Heidegger, M. (1975). Building, dwelling, thinking, in: *Poetry, Language, Thought*. Albert Hofstadter (trans.), New York: Harper and Row, pp. 145–161.
3	Pallasmaa, J. (2005). *The Eyes of the Skin: Architecture and the Senses*. Chichester: Wiley-Academy.
4	Stecker, R. (2010). *Aesthetics and the Philosophy of Art*. Lanham, MD: Rowman & Littlefield.
5	Venturi, R.; Denise Scott Brown, D.; Steven Izenour, S. (1972/1977). *Learning from Las Vegas: The Forgotten Symbolism of Architectural Form*. Cambridge, MA: The MIT Press, revised edition.
6	Winters, E. (2007). *Aesthetics and Architecture*. London and New York: Continuum.

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO1	A2A_W03, A2A_W04	O1	L1, L2, L3, P3	1, 2, 3	A1, A2
LO2	A2A_W03, A2A_W04	O1, O2	L4, L5, L6, P3	1, 2, 3	A1, A2
LO3	A2A_U05,	O1	L3, L4, L7, P1,	1, 2, 3, 4	A1, A2

	A2A_U06, A2A_U11, A2A_U12, A2A_U13, A2A_U16		P2, P3		
LO4	A2A_K01, A2A_K04, A2A_K07, A2A_K08, A2A_K09, A2A_K11, A2A_K12	O1, O2	L7, P1, P2, P3	1, 2, 3, 4	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
O1	Written short examination of lecture contents during classes	50%
O2	Exercise elaboration	50%

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Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Philosophy of architecture

Code of the course:	IIAS13b
Year:	II
Semester:	III
Form of study:	Full-time study
Form of classes and number of hours in semester:	40
Conversational lecture	25
Exercises	15
Number of ECTS credits:	2
Method of assessment:	Lecture – short written exam during classes, exercises - assessment
Language of instruction:	English

The purpose and objectives of the course	
O1	Gaining knowledge on philosophical aspects important for a fostering cultural heritage understanding in the context of contemporary challenges built environment modernization
O2	Raising ability of reflective critical thinking and cultural-ecological competency
O3	Develop ability to understand the role of cultural archetypes, patterns in representing knowledge socially important for heritage preservation and renovation on the base of categories of collective psychology
O4	To reveal the role of empathy for the creation of ecologically reasonable environment, for deeper understanding of participation nature – including subjectivity of place (*genius loci*) that was implemented in living environment by previous generations

Initial requirements in terms of knowledge, skills and other forms of competence	
1	Knowledge related with architectural design, urban planning, protection of monuments and historic towns, theory an history of the city

Learning outcomes	
	Knowledge
LO1	To know philosophical background of architectural, urban planning theories and practical activities inspired by them
LO2	To be informed regarding the nature and conditions of creative innovative process
	Skills
LO3	To be able generalize and interpret contexts of the different architectural-cultural phenomena, their causalities and later apply this knowledge in an original way while analysing and evaluating architectural processes
LO4	To analyse the available information about conflicts of interests of different actors that are planning or managing changes of environment and make argued decisions,

	based on it.
LO5	To be able to argue, justify his (her) creative ideas on the base of profound study of contextual information
	Social competences
LO6	To get abilities to feel empathy for the subjectivity implemented in living environment by previous generations (genius loci) to understand its interests and be able to communicate those to other actors of planning changes of the environment (community, local administration)

Programme content	
Form of classes - lectures	
	Curricular contents
L1	Introduction to philosophical aspects of architecture and philosophical analysis of architectural theories (Info about course. Wrong way of heritage objects evaluation and interpretation. Principle of hypersemantization)
L2	Means of restructuring of thinking (perception) in process of understanding of architectural problems
L3	Ritual subtext of architecture. Myth and other esoteric issues of architecture. Reception of cultural archetypes in the field of architectural activity (Relationship between ritual and architecture. City main square as constant ritual situation presented using symbolic potential model. Mythological narratives of architectural features)
L4	Meaning and other language-like phenomena in architecture (The architecture-language analogy. The role of semantics in creation of architecture)
L5	Social, political and moral features of architecture (How creations of art are forming attitudes of their observers: theoretical preconditions. Relations between the means of artistic expression and ethical content. Role of architecture in upbringing of perceiver‘s mind)
L6	Relationship between architecture and consumerism and commercialism
Form of classes – exercise	
	Curriculum contents
E1	Reading of the reference bibliography for the analysis
E2	Critical analysis of the selected case study
E3	Elaboration of an essay

Didactic methods	
1	Theoretical classes
2	Practical classes. Exercises
3	Individual activities
4	Group activities

Student workload	
Form of activity	Average number of hours for implementation of activities
Contact hours of lectures, including:	30
Participation in lectures	15
Participation in practical exercises	15

Student's own work, including:	30
Preparation to examination	15
Preparation to classes	15
Total time of student work	60
Summary number of ECTS credits for the course:	2
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	Leach, N. (2006). *Rethinking Architecture. A Reader in Cultural Theory*. London UK: Routledge Taylor a and Francis Group
2	Mitrovic, B. (2013). *Visuality for Architects: Architectural Creativity and Modern Theories of Perception and Imagination*. Charlottesville, VA: University of Virginia Press.
3	Norberg-Schulz, Ch. (1980). *Genius Loci: Towards a Phenomenology of Architecture*. London: Academy Editions; New York: Rizzoli.
4	Palasmaa, J. (2009). *The Thinking Hand*. Chichester: Academy.
5	Pérez-Gómez, A. (1983). *Architecture and the Crisis of Modern Science*. Cambridge, MA: The MIT Press.
6	Robinson, J. (2001). The Form and Structure of Architectural Knowledge: From Practice to Discipline. In: Andrzej Piotrowski and Julia Williams Robinson (eds.), *The Discipline of Architecture*. Minneapolis, MN: University of Minnesota Press, pp. 61–82.
Additional literature	
1	Alexander, Ch.; Ishikawa, S.; Silverstein, M. (1977). *A Pattern Language: Towns, Buildings, Construction*. Oxford: Oxford University Press.
2	Ballantyne, A. (2007). *Deleuze & Guattari for Architects*. London: Routledge
3	Benjamin, A. (2000). *Architectural Philosophy*. London: The Athlone Press.
4	Fisher, S. 2015. *Philosophy of Architecture* (http://plato.stanford.edu/entries/architecture/), Stanford Encyclopedia of Philosophy.
5	Norberg-Schulz, Ch. (1965). *Intentions in Architecture*. Cambridge, MA, MIT Press.
6	Petrušonis, V. New technologies and specificities of synthesis of art and science modes of cognition. In: *Architectural Inquiries: theories, methods and strategies in contemporary Nordic architectural research*. Chalmers Göteborg, 2008. ISSN 1650-6340. 2008.

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO1	A2A_W03, A2A_W04,	O1, O2, O3	L1, E1, E2, E3	1, 2, 3	A1, A2

	A2A_W10, A2A_W11, A2A_W12				
LO2	A2A_W03, A2A_W04, A2A_W10, A2A_W11, A2A_W12	O1, O2, O3	L1, L2, L3, L4, E1, E2, E3	1, 2, 3	A1, A2
LO3	A2A_U05, A2A_U06, A2A_U11, A2A_U12, A2A_U13	O1, O2, O3, O4	L1, L2, L3, L4, L5, L6, E1, E2, E3	1, 2, 3	A1, A2
LO4	A2A_U05, A2A_U06, A2A_U11, A2A_U12, A2A_U13	O1, O2, O3, O4	L1, L2, L3, L4, L5, L6, E1, E2, E3	1, 2, 3, 4	A1, A2
LO5	A2A_U05, A2A_U06, A2A_U11, A2A_U12, A2A_U13	O1, O2, O3, O4	L1, L2, L4, L5, L6, E1, E2, E3	1, 2, 3, 4	A1, A2
LO6	A2A_K01, A2A_K03, A2A_K04, A2A_K07, A2A_K08, A2A_K09, A2A_K11, A2A_K12	O4	L2, L3, L5, L6, E1, E2, E3	1, 2, 3, 4	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Written examination of lecture contents during classes	50%
A2	Exercise elaboration	50%

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Institution:	Vilnius Gediminas Technical University

Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Museology and Museography

Code of the course:	IIAS14
Year:	I
Semester:	II
Form of study:	Full-time study
Form of classes and number of hours in semester:	**75**
Lecture	50
Exercises	15
Laboratory	
Design	10
Number of ECTS credit	**4**
Method of assessment	lectures – examination; exercise – assessment; design - assessment
Language of instruction	English

The purpose and objective of the course	
O1	Methodical approach to the correct use of pre-existence.
O2	Knowledge of limits of new insertions in pre-existence.

Initial requirements in terms of knowledge, skills and other competences	
R1	Theory and history of Conservation: Terminology, Criteria.
R2	Architectural Conservation studio.
R3	Methodical approach to Conservation: physical approach.
R4	Heritage problems, causes and solutions.
R5	Constructions applied to heritage new compatible solutions.

Learning outcomes	
	Knowledge
LO1	Ability to acquire the comprehensions of pre-existence.
LO2	To be able to balance between new and ancient.
	Skills
LO3	Ability to conduct a project on the pre-existence
LO4	Compatibility, reversibility, distingubility, minimum interventions.
	Social competences
LO5	Developing awareness and respect for the value of heritage e understands the role of the architect in its protection.
LO6	Interdisciplinarity with other subjects: archaeology, history of arts, chemistry,

	physics…
LO7	Capable to organize the data with a group.

Programme content	
Form of classes - lecture	
	Curricular contents
L1	History of art collecting and birth of museums.
L2	Museography in the postwar period in Italy and Europe, the main characters: C. Scarpa, F. Minissi, F. Albini.
L3	New use for pre-existence and ancient buildings.
L4	Conservation, Restoration and Museography, the protection of the sites, the Museography in situ, the archaeological parks. The protection and moderated insertion of the new with respect for the ancient.
L5	Permanent exhibitions and temporary exhibitions.
L6	Different types of museum: archaeological, fine arts, historical and artistic heritage…
L7	The museum as didactics and the mission of the dissemination of the culture.
L8	The museum outside the museum, historical city and musealization.
L9	The great historical museums.
L10	Industrial Archaeology and New Museography.
L11	Liturgical adaptation in church restoration.

Form of classes - exercise	
	Curricular contents
E1	During the semester, the course shall be subject to regular written and individual exercises on the topics covered both in classroom lectures and in lectures in site.
E2	Review of the Adaptation/Valorisation Project.

Form of classes - design	
	Curricular contents
D1	Acquisition of all preliminary research concerning the historical building examined for the definition of a correct project for the Adaptation and Valorisation: the survey, the historical-critical analysis, the analysis of the deterioration and the programme of intervention. The fundamental moments for the preliminary reflection of the project.
D2	Conservation/Restoration and New Use: the reflection for a compatible use and a current function for the historical building.
D3	Study of the proposal on the pre-existence: existing historical structures and new technological systems.
D4	Study of the proposal on the pre-existence: adequate balance between the essence of the historical building, expressive potential and new intervention for the Valorisation; musealization, exhibition design, lightening project.
D5	Study of the proposal on the pre-existence: remodelling the external space, urban design.

Didactic methods	
1	Theory lectures and debates.

2	Short individual exercises developed in class.
3	Visits and tours with teacher in different museums: palace, villas, archaeological sites, churches…
4	Working groups for the completion of the Adaptation/Valorisation Project.

Student workload	
Form of activity	Average number of hours for implementation of activities
Contact hours of lectures, including:	**75**
Participation in lectures	50
Participation in exercises	15
Participation in laboratory	
Participation in design classes	10
Student's own work, including:	**25**
Preparation to examination	10
Preparation to classes	
Execution of the design	15
Total time of student work	**100**
Summary number of ECTS credits for the course:	**4**
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	**SURE MANUAL 3: New Use for Ancient Buildings.**
Additional literature	
1	F. MINISSI, *Conservazione, vitalizzazione, musealizzazione*, Roma 1988.
2	C. BELLANCA, *La progettazione sulle preesistenze architettoniche ad ambientali*, in *Progettare*, 2001-2002, pp. 48-53.
3	N. STANLEY-PRICE, J. JOKKILHETO*, The decision to shelter archaeological sites, Three case-studies from Sicily* in *"Conservation and management in archaeological sites"*, 2001, pp. 19-34.
4	N. STANLEY-PRICE, *The roman villa at Piazza Armerina, Sicily*, in *De la Torre Marta* edited by The conservation of Archaelogical sites in the Mediterean Region: An International Conference Organized by the Getty Conservation Institute and the Paul Getty Museum, 6-12 May 1995, Los Angeles 1997, pp. 65-87.

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum*	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO1	A2A_W01, 2A_W02, A2A_W04, 2A_W12, A2A_W14	O1	L1, … L11, E1, E2, D1, … D5	1, 2, 3, 4	A1, A2, A3
LO2	A2A_W01, 2A_W02,	O1, O2	L1, … L11,	1, 2, 3, 4	A1, A2, A3

	A2A_W03, 2A_W05, A2A_W12, 2A_W13, A2A_W17		E1, E2, D1, … D5		
LO3	A2A_U06, A2A_U07, A2A_U11, A2A_U18, A2A_U19, A2A_U20	O1, O2	L1, … L11, E1, E2, D1, … D5	1, 2, 3, 4	A1, A2, A3
LO4	A2A_U06, A2A_U07, A2A_U11, A2A_U18, A2A_U19, A2A_U20	O1, O2	L1, … L11, E1, E2, D1, … D5	1, 2, 3, 4	A1, A2, A3
LO5	A2A_K06, A2A_K11, A2A_K12	O1, O2	L1, … L11, E1, E2, D1, … D5	1, 2, 3, 4	A1, A2, A3
LO6	A2A_K01, A2A_K06, A2A_K07, A2A_K11, A2A_K12	O1, O2	L1, … L11, E1, E2, D1, … D5	1, 2, 3, 4	A1, A2, A3
LO7	A2A_K01, A2A_K06, A2A_K07	O1, O2	L1, … L11, E1, E2, D1, … D5	1, 4	A2

Assessment method description		
Assessment method symbol	Assessment method description	Pass threshold
A1	Short written individual examination during the course	50%
A2	Design elaboration assessment	80%
A3	Final exam	70%

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Institution:	**Sapienza Università di Roma**

Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Construction applied to Heritage. New compatible solutions.

Code of the course:	IIAS15a
Year:	2
Semester:	3
Form of study:	Full-time study
Form of classes and number of hours in semester:	45
Lecture	30
Exercises	15
Laboratory	
Design	
Number of ECTS credit	3
Method of assessment	Lectures - examination, design - assessment
Language of instruction	English

The purpose and objective of the course	
O1	Acquiring knowledge on construction (all types of construction) which can be applied to architectural heritage. In order to build new elements necessaries for the conservation of building, element, sites.
O2	Capability to built new elements necessary for the conservation, comprehension or use of architectural heritage in a compatible way.
O3	Comprehending compatibility, reversibility and distinguishability.
O4	Knowing representative examples at European level of new solutions applied to heritage

Initial requirements in terms of knowledge, skills and other competences	
IR1	Drafting abilities: sketching and drawing
IR2	Knowledge of the architecture history
IR3	Basic knowledge of historical construction

Learning outcomes	
	Knowledge
	Student:
LO1	Has learnt the methods and concepts of architectural construction. Compatibility between new and traditional architecture
	Skills
	Student is:
LO2	Capable of developing an integrated analysis of a historical building and its necessities and how to give solutions to them, in an appropriate way
LO3	Capable to proposes guidelines that are appropriate for the building, centre or

	landscape and dignifies
	Social competences
	Student is:
LO4	Capable of working within a group
LO5	Capable of communicating with other professionals, groups, enterprises and administration

Programme content	
Form of classes – lecture	
	Curricular contents
L1	Introduction - necessity of studying the building
L2	Foundations. Walls. Water.
L3	Structures. Steel. Metals. Concrete. Floors.
L4	Enclosures. Compartment
L5	Finishing. Textile structures.
L6	Roofs structures. Covers

Form of classes - exercises	
	Curricular contents
E1	Development of the architectural drafting of an historical building or centre or landscape.
E2	Study of the building. Premises of it needs
E3	Practical Solutions to the premises
E4	Development of the solutions. Integration of physical, economic and sustainable aspects

Didactic methods	
1	Theoretical lessons.
2	Short and quick exercises in relation with lessons.
3	Exercises. In group and individual work. Working in one building or centre or element or landscape. Public Presentation.
4	Visits to interesting examples

Assessment method description		
Assessment method symbol	Assessment method description	Pass threshold
A1	Examination of the lecture contents	60%
A2	Class exercises assessment	60%

Student workload	
Form of activity	Average number of hours for implementation of activities
Contact hours of lectures, including:	45
Participation in lectures	30

Participation in exercises	15
Student's own work, including:	30
Preparation to examination	10
Preparation to classes	20
Total time of student work	75
Summary number of ECTS credits for the course:	3
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	Araujo Armero.Ramon. La Arquitectura como técnica. Adrid, ATC edic. 2007
2	Araujo Armero, Ramón y Seco, Enrique. Construir con acero. Pamplona Ensidesa 1994
3	Torroja.Eduardo. Razón y ser de los tipos estructurales. Madrid, Inst. Torroja 4ºed
4	Ching Francis y Adams, Casandra. Guia de construcción ilustrada. Limusa Wiley, Mexico, 2004
Additional literature	
1	Dernie.David. Arquitectura en piedra. Blume, Barcelona, 2003
2	Aitin. Francisco Arriaga. La Madera.
3	ASEFAVE. Fachadas ligeras Euronit. Fachadas y cubiertas.. Manual Tecnico. Madrid 2006
4	Johnson, H. La Madera. Edit. Blume ,Barcelona 1980
5	Paricio. Ignacio. La construccion de la arquitectura. Elementos. Edit Bisagra Barcelona, 2000

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO1	A2A_W06, A2A_W07, A2A_W08, A2A_W09	A1	L1-L5, E1-E4	1, 2	A1,A2
LO2	A2A_U03, A2A_U07, A2A_U19	A1, A2, O3, O4	L1,L2, L3, E1-E4	2, 3, 4	A1,A2
LO3	A2A_U06, A2A_U14, A2A_U20	A2, O3	L1,L2,L3,L4, E1-E4	1, 3	A2
LO4	A2A_K01, A2A_K07	A1, A2, O4	L1,L2,L3,L4, E1-E4	3, 4	A2
LO5	A2A_K06, A2A_K10	A2, O3	L1,L4,L5, E1-E4	3	A2

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Institution:	Universidad Politécnica de Madrid

Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Heritage Problems. Causes. Solutions

Code of the course:	AS15b
Year:	2
Semester:	3
Form of study:	Full time study
Form of classes and number of hours in semester:	45
Lecture	30
Exercises	15
Laboratory	
Design	
Number of ECTS credit	3
Method of assessment	Lectures exam. Exercises assessment.
Language of instruction	English

The purpose and objective of the course	
O1	Acquisition of theoretical and practical knowledge that allows the analysis and execution of interventions in architecture
O2	Ability to graphically represent consolidation and restoration techniques.
O3	Ability to build interventions in architectural heritage using consolidation and restoration techniques. To choose the best in order of those possible
O4	Ability to expose and defend arguments of the culture of conservation and architectural restoration, in an ethical, honest and coherent way, with intellectual independence, scientific rigor and critical commitment to reality

Initial requirements in terms of knowledge, skills and other competences	
R1	Knowledge of construction. Historic and traditional construction.
R2	Knowledge of construction materials
R3	Knowledge of historical architecture

Learning outcomes	
	Knowledge
	Student is able to:
LO1	Manage a set of criteria and architectural intervention techniques
	Skills
	Student is able to:
LO2	Describe and represent the knowledge about buildings, elements and historic centres and the state of their physical consistency
LO3	Select the most appropriate construction system for each intervention in order of its values

LO4	Represent graphically the proposed construction systems and their details so that they meet the requirements set
LO5	Elaborate proper criteria, that allow to act from the analytical and critical point of view on the object and the constructive process
	Social competences
	Student is able to:
LO6	Work within a interdisciplinary team

Programme content	
Form of classes - lecture	
	Curricular contents
L1	Introduction to heritage problems. Causes. Solutions
L2	General causes: ground
L3	General causes: water
L4	Foundations
L5	Walls: Masonry
L6	Arches, Vaults, Domes
L7	Structures. Floors
L8	Roofs
L9	Interiors
L10	Surface finishes
L11	Intervention examples

Form of classes - exercises	
	Curricular contents
D1	Intervention techniques in Foundations
D2	Intervention techniques in Walls
D3	Intervention techniques in Arches, Vaults, Domes
D4	Intervention techniques in Structures. In floors
D5	Intervention techniques in Roofs
D6	Intervention techniques in Interiors
D7	Intervention techniques in Surface finishes
D8	Intervention examples

Didactic methods	
1	Theoretical classes
2	Practical classes. Exercises
3	Seminars
4	Individual activities
5	Group activities

Student workload	
Form of activity	Average number of hours for implementation of activities
Contact hours of lectures, including:	45

Participation in lectures	30
Participation in practical classes and seminars	15
Student's own work, including:	30
Preparation to examination	10
Preparation to classes	20
Total time of student work	75
Summary number of ECTS credits for the course:	3
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	Carbonara, G. Trattato di restauro architettonico. Editore: UTET, Torino, 2007
2	Croci, G. Conservazione e restauro strutturale dei beni architettonici. UTET, Torino, 2001
3	Torsello, B.P. Tecniche di restauro architettonico. Editore: UTET, Torino, 2003
4	Manual B Sure
Additional literature	
1	Parenti R, Francovich. Archeologia e restauro dei monumenti. Firenze edifir 1988
2	Cigni, G. Il consolidamento murario. Edic Kappa, Roma 1979
3	Rocchi,P. Manuale del consolidamento. Roma, Dei ediz. 1991
4	Mastrodicasa R. Disesti statici delle strutture edilizie. Ediz Hoepli , Milano 1980
5	Heyman, J. El esqueleto de piedra, mecánica de la arquitectura de piedra. Madrid, Inst. Juan de Herrera, 1999

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO1	A2A_W01, A2A_W02, A2A_W05, A2A_W06	O1 O3	L1, L2, L3	1, 3	A1, A2, A3,
LO2	A2A_U06, A2A_U07, A2A_U10	O2 O4	L1, L2, L3	2, 4, 5	A1
LO3	A2A_U03, A2A_U05, A2A_U11	O3 O4	L4, L5, L6, L7, L8,L9, L10, L11	2, 5	A1, A2
LO4	A2A_U02, A2A_U10, A2A_U15	O2	D1, D2, D3, D4, D5, D6, D7	1, 2, 4, 5	A1, A2, A3
LO5	A2A_U01, A2A_U15, A2A_U16	O4	D1, D2, D3, D4, D5, D6, D7, D8, D9	2, 3, 5	A1, A2, A3
LO6	A2A_K01, A2A_K02	O4	D8, D9	3, 5	A3

Assessment method description		
Assessment method symbol	Assessment method description	Pass threshold
A1	Continuous assessment	60%
A2	Global knowledge exam	60%
A3	Participation in the classroom, use of the virtual classroom, consultations, seminars, etc.	75%

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Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Historical Building Adaptation to Modern Function

Code of the course:	IIAS16a
Year:	2
Semester:	3
Form of study:	Full time study
Form of classes and number of hours in semester:	45
Lecture	15
Exercises	
Laboratory	
Design	30
Number of ECTS credit	3
Method of assessment	Lectures – colloquium. Design - assessment.
Language of instruction	English

The purpose and objective of the course	
O1	Provide the theoretical knowledge necessary for the intervention in historical building
O2	Know the methodology related to constructive intervention in historical building
O3	Determine the appropriate choice, design requirement and consequent use in works on historical building of constructive systems
O4	Understand the nature of heritage on which an intervention is to be produced, applying the appropriate intervention criteria

Initial requirements in terms of knowledge, skills and other competences	
R1	Knowledge of construction. Historic and traditional construction.
R2	Knowledge of construction materials
R3	Knowledge of historical architecture
R4	Knowledge of structures and installations

Learning outcomes	
	Knowledge
	Student is able to:
LO1	Identify the most appropriate uses to apply in historic buildings
LO2	Describe different intervention methodologies in heritage
	Skills
	Student is able to:
LO3	Conceive and integrate constructive and structural compatible interventions in historical buildings
LO4	Develop the necessary documentation to carry out a restoration project
	Social competences

	Student is able to:
LO5	Work within a interdisciplinary team

Programme content	
Form of classes - lecture	
	Curricular contents
L1	Form/construction relationship.
L2	Constructive systems (conservation and alteration).
L3	Usefulness of traditional construction processes in contemporary uses.
L4	Compatible uses.
L5	New Construction modules: Reversible modules which can be changed in order of necessities. Prefabricated.
L6	Comfortable Solutions in interior. Insulation.
L7	External Installations, Technological Systems. Safety in case of fire; Hydrosanitary installations; Ventilation and air conditioning installations; Electrical, telecommunications and transport installations.
L8	Historic Examples

Form of classes - design	
	Curricular contents
D1	New Construction modules. Prefabricated.
D2	External Installations
D3	Intervention examples
D4	Intervention project

Didactic methods	
1	Theoretical classes
2	Practical classes. Exercises
3	Seminars
4	Individual activities
5	Group activities

Student workload	
Form of activity	Average number of hours for implementation of activities
Contact hours of lectures, including:	45
Participation in lectures	15
Participation in practical classes and seminars	30
Student's own work, including:	30
Preparation to colloquium	10
Execution of the design, project study	20
Total time of student work	75
Summary number of ECTS credits for the course:	3
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	2

Basic literature	
1	Feilden, B. Conservation of historic buildings. Butterworth. Oxford-Boston, 1994.
2	Carbonara, G. Trattato di restauro architettonico. Editore: UTET, Torino, 2007.
3	Torsello, B.P. Tecniche di restauro architettonico. Editore: UTET, Torino, 2003
4	Davidson C. How to read buildings: a crash course in architecture. London: Bloomsbury, 2014.
5	Eichler F. Patología de la construcción. Ed. Blume. Madrid, 1985.
Additional literature	
1	Johnson S.M. Deterioration, maintenance, and repair of structures. Malabar, Fla.: Krieger, 1981.
2	Curso de Mecánica y Tecnología de los Edificios Antiguos. COAM. Madrid, 1987.
3	Monjo, J. Tratado de rehabilitación. Departamento de Construcción y Tecnología Arquitectónicas. UPM. Madrid, 1999.

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO1	A2A_W01, A2A_W05, A2A_W06, A2A_W07	O3	L3, L4, L8	1, 2, 3, 4, 5	A2, A3, A4
LO2	A2A_W10, A2A_W12, A2A_W14, A2A_W18	O1, O2	L1, L2, L8, D3	1, 2, 3	A2, A3
LO3	A2A_U02, A2A_U03, A2A_U05	O3, O4	L1, L2, L4, O5, O6, O7	1, 2, 3, 4, 5	A1, A2
LO4	A2A_U01, A2A_U06, A2A_U07	O3, O4	D4	4, 5	A1
LO5	A2A_K01, A2A_K08	O3	D1, D2, D3, D4	2, 5	A1, A2, A4

Assessment method description		
Assessment method symbol	Assessment method description	Pass threshold
A1	Intervention project	50%
A2	Continuous assessment	60%
A3	Colloquium	60%
A4	Participation in the classroom, use of the virtual classroom, consultations, seminars, etc.	60%

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Second cycle studies in field of Architecture
Specialty " Sustainable Urban Rehabilitation"

Syllabus
Urban Design attracting Multicultural Travellers

Code of the course:	IIAS16b
Year:	II
Semester:	3rd
Form of study:	Full-time study
Form of classes and number of hours in semester:	45
Lecture	15
Exercises	
Laboratory	
Design	30
Number of ECTS credits:	3
Method of assessment:	Lectures - colloquium, design - assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Ability to analyze the urban form in cities that attract travellers from different cultures.
O2	Gaining knowledge on the possible threats, risks and opportunities of encounter and connection among cultures, to be taken into consideration for the urban design, deriving from the tourism industry.
O3	Ability to design the urban environment taking advantage of the opportunities of intercultural dialogue in tourist destinations.

Initial requirements in terms of knowledge, skills and other competences	
1	Knowledge of the of urban design terminology
2	Ability to analyze the urban context

Learning outcomes	
	Knowledge:
	Student:
LO 1	Has basic knowledge of urban design in the city attracting multicultural travellers.
LO 2	Has basic knowledge of the opportunities and threats given from the travel industry to be used for innovative and conscious projects.
LO 3	Has basic knowledge of the dynamics and actors involved in the chain of travel to design a culturally interactive city.
	Skills:
	Student:
LO 4	Is able to imagine and elaborate a concept at the urban design scale for the integration of different cultures present on the site as temporary residents, in a sustainable way.

LO 5	Is able to design taking into account the social, environmental and cultural dimension, with the creation of spaces where to perform encounters and intercultural dialogue.
	Social competences:
	Student:
LO 6	Is aware of the social risks deriving from the bad or absent management of the foreigners' fluxes and feels the responsibility of designing spaces for creating opportunities of encounters among cultures.

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	Introduction: definition of conceptual scope and terminology.
L2	Sustainable urban design: the sustainability concept applied to urban design. Cultural mapping as methodological case study for the analysis of a site for a more integrated designing approach.
L3	The urban multiculturalism deriving from tourism, the risks and opportunities related to this economy. Selection of case studies approaching the topic of architectural and urban design for tourism as an opportunity of cultural encounters.
L4	Urban design for the creation of encounters and of opportunities of intercultural dialogue through travel. Intercultural dialogue definition by UNESCO and its approach to the management of tourism for creating opportunities of encounters. Presentation of a selection of case studies.
L5	Tourism and its ever-growing impact on pollution, both for the emissions and for the waste production. A focus on the potentialities of evolution of the tourism industry in respect of the environment. Understanding of the spatial and architectural relationships between heritage, travel and dialogue among different actors and users of a Site. Selection of urban design and planning case studies.
Form of classes – design	
	Curriculum contents
D1	Analysis of the selected case study.
D2	Determination of the project focus according to the analysis.
D3	Elaboration and representation of the urban design project.

Didactic methods	
1	Multimedia presentations (ppt/pdf, videos).
2	Presentation and evaluation of the projects in reviews.
3	Final questionnaire.

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	45
Participation in lectures	15
Participation in design classes	30
Student's own work, including:	30

Preparation for colloquium	10
Individual elaboration of design	20
Total time of student work	75
Summary number of ECTS credits for the course:	3
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	2

Basic literature	
1	ICOMOS, International Cultural Tourism Charter - Managing Tourism at Places of Heritage Significance, ICOMOS, Paris, 1999
2	UNWTO, Global Code of Ethics for Tourism, 2001
3	UNESCO, Convention on Intangible Heritage, 2003
4	UNESCO, Declaration on Cultural Diversity, 2005
5	UNESCO, New life for historic cities, the historic urban landscape approach explained, UNESCO, Paris, 2013
6	Pillai Janet, Cultural Mapping, SIRD, Selangor, 2013
7	Fondazione Romualdo Del Bianco, World Heritage Sites for Dialogue, Masso delle Fate Edizioni, Firenze, 2016
8	UNESCO, Tourism Management at UNESCO World Heritage Sites, UNESCO, Paris, 2018
9	SURE Manual, Sustainable Urban Design in World Heritage Sites, 2019
Additional literature	
1	Lefebvre Henri, The right to the City, Verso Books, 1968
2	Aldo Rossi, The Architecture of the City, The MIT Press, Cambridge, 1984
3	Rem Koolhaas/ Harvard Project on the City, Stefano Boeri/ Multiplicity, Sanford Kwinter, Nadia Tazi, Hans Ulrich Obrist, Mutations, Actar, Barcelona, 2001
4	Bauman Zygmunt, Voglia di comunità, Editori Laterza, Bari, 2001
5	Augé Marc, Colleyn, Jean-Paul, L'Antropologia del mondo contemporaneo, Elèuthera, Milano, 2006
6	Crawhall Nigel, The role of participatory cultural mapping in promoting intercultural dialogue - 'We are not hyenas', UNESCO, Paris, 2008
7	UNESCO, Building Critical Awareness of Cultural Mapping – a workshop facilitation guide, UNESCO, Paris, 2009
8	Fondazione Romualdo Del Bianco, Heritage for Planet Earth, Masso delle Fate, Firenze, 2017
9	Lévì-Strauss Claude, L'Antropologia di fronte ai problemi del mondo moderno, Bompiani, Firenze, 2017
10	UNESCO, Survey on Intercultural Dialogue, UNESCO, Paris, 2017
	Web Sites
1	UNESCO https://en.unesco.org/themes/intercultural-dialogue
2	Council of Europe https://www.coe.int/t/dg4/intercultural/concept_EN.asp

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_L12 A2A_W04	O1	L1, L2, L3, L4	1, 3	A1
LO 2	A2A_L11	O2	L3, L5	1, 3	A1
LO 3	A2A_L13 A2A_W04	O2, O3	L2, L4, L5	1, 3	A1
LO 4	A2A_U03 A2A_U16	O1, O3	D1, D2, D3	2	A2
LO 5	A2A_U11 A2A_U13	O3	L4, D2, D3	1, 2, 3	A1, A2
LO 6	A2A_K04 A2A_K08 A2A_K11	O2, O1	L4, D3	1, 2, 3	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Written assessment of the lectures content	60%
A2	Design elaboration	60%

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Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus
Sustainable architecture and eco design

Code of the course:	IIAS17
Year:	2
Semester:	3
Form of study:	Full-time study
Form of classes and number of hours in semester:	45
Lecture	15
Exercises	
Laboratory	
Design	30
Number of ECTS credits:	3
Method of assessment:	Lectures-assessment, design - assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Acquiring knowledge on traditional constructive systems.
O2	Learning from architecture with spirit of place.
O3	Relationship with location, situation, geographic conditiona, winds,….sun
O4	Acquiring critical knowledge of employing technologies

Initial requirements in terms of knowledge, skills and other competences	
1	Analysis and synthesis skills
2	Basic knowledge of traditional construction
3	Basic knowledge of ecology

Learning outcomes	
	Knowledge:
LO 1	Learning methods and concepts involved in relationship between architectural design and surroundings and environment
LO 2	Learning about traditional materials and constructive systems
	Skills:
	Student is:
LO 3	Capable of developing integrated solutions in architecture, climatitation, and nature
LO 4	Capable of developing compatible solutions on consolidation
	Social competences:
	Student is:
LO 5	Capable to communicate and convince with proposals

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	General idea of geographics
L2	General idea of history of small towns
L3	Basic knowledge of traditional construction materials
L4	Basic idea of history of climatitation. Water, fire…
L5	Basic idea of botanics
Form of classes – design	
	Curriculum contents
D1	Development of the architectural drafting of a traditional building, complex, and town
D2	Development of the confort and climatitation conditions of buildings in a compatible way
D3	Guideleness for the planification of conservation and or construction of buildings in compatible way with surroundings.

Didactic methods	
1	Theory lectures. Presentations.
2	Individual exercises to develop in class.
3	Group exercise and public
4	Presentation of one theme.

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	45
Participation in lectures	15
Participation in design classes	30
Student's own work, including:	30
Preparation for examination	10
Individual elaboration of design	20
Total time of student work	75
Summary number of ECTS credits for the course:	3
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	2

Basic literature	
1	Allen, Edward.How buildings work. The natural order of Architecture.Oxford University Press 1982
2	Olgyay,Victor. Design with climate. Princeton University Press. Princeton 1973
3	Serra, Rafael y Coch, Helena. Arquitectura y Energía Natural. Editions UPC, Barcelona 1995
4	Allen, Edward. Fundamentals of building construction:materials and methods. John Wiley and sons, Nueva York 1990

5	Garrido, Luis de. Manual de arquitectura ecológica avanzada. Diseño Editorial, 2017.
6	Edwards, Brian. Rough guide to sustainability : a design primer. London: RIBA Publishing, 2014.
Additional literature	
1	Reid, E. Understanding Buildings: a multidisciplinary approach. Longman S.and T. Londres 1988

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W05, A2A_W09, A2A_W10, A2A_W15	O2, O3	L1, L2, L3, D1, D3	1, 2, 3	A1,A2,O3
LO 2	A2A_W04, A2A_W11, A2A_W17, A2A_W18	O1, O3, O4	L3, L4, D2	1, 2, 3	A1,A2,O3,
LO 3	A2A_U12, A2A_U13, A2A_U19	O2, O3, O4	L3, L4, L5, D3	1, 2, 3	A1,A2,O3
LO 4	A2A_U05, A2A_U06, A2A_U13	O1, O3, O4	L2, L3, L4, D3	1, 2, 3	A1,A2,O3
LO 5	A2A_K04, A2A_K13	O4	D1, D2, D3	4	A2,O3

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Lectures assessment	50%
A2	Design assessment	50%
A3	Participation in classroom, exercises…	50%

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Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Methodological approach to conservation: Physical approach

Code of the course:	IIAS18
Year:	2
Semester:	3
Form of study:	Full-time study
Form of classes and number of hours in semester:	45
Lecture	30
Exercises	15
Laboratory	
Design	
Number of ECTS credit	2
Method of assessment	Lectures - examination, exercises continuous assessment
Language of instruction	English

The purpose and objective of the course	
O1	Acquiring knowledge on methodology of preliminary studies applied to historical buildings, elements or sites, continuing the first documental studies.
O2	Capability to obtain a diagnosis from the preliminary studies and to develop guidelines for the restoration design.
O3	Comprehending the necessary connection between preliminary studies and the restoration project.
O4	Comprehension of the composition and architectural issues the building presents in addition to the physical issues.

Initial requirements in terms of knowledge, skills and other competences	
IR1	Drafting abilities: sketching and CAD drawing
IR2	Analysis and synthesis skills
IR3	Basic knowledge of traditional construction
IR4	Knowledge of the architecture history
IR5	Knowledge of the documentary studies
IR6	Basic knowledge of mechanics.
IR7	Course METHODICAL APPROACH 1

Learning outcomes	
	Knowledge
	Student:
LO1	Has learnt the methods and concepts involved in the preliminary studies: drafting, construction, material and archaeology, damages and composition aspects.

	Skills
	Student is:
LO2	Capable of developing an integrated analysis of a historical building, element, or sites, including drafting, material and archaeology, constructive and composition aspects. And damages and causes
LO3	Capable of giving an architectural diagnosis based on the conclusions from the preliminary studies. Proposes guidelines that are appropriate for the building, element or site, and its values.
	Social competences
	Student is:
LO4	Capable to organize the data gathering within a group.
LO5	Capable to communicate and convince of their proposals.

Programme content	
Form of classes - lecture	
	Curricular contents
L1	Introduction - necessity of studying the building before intervention design.
L2	Architectural drafting: *geometrico, materico, mecanico.*
L3	Architectural archaeology: Stratigraphical analysis.
L4	Maps of damage. Instruments, essays and tests. Monitoring of damages.
L5	Architectural diagnosis. Problems and integration of technical solutions.
L6	Problems and integration of technical solutions.

Form of classes – design	
	Curricular contents
D1	Development of the architectural drafting of an historical building. .
D2	Study of the building. Geometric, constructive, mechanic and stratigraphic analysis.
D3	Study of the building: map of damages.
D4	Development of the guidelines for the restoration of the building. Integration of physical, historical and composition aspects. (In continuation with Sapienza Methodical Approach 1 course)

Didactic methods	
1	Theory lectures. Presentations.
2	Short individual exercises developed in class
3	Design project study divided in a group part and in an individual part
4	Field work. Data gathering

Assessment method description		
Assessment method symbol	Assessment method description	Pass threshold
A1	Written examination of the lecture contents.	60%
A2	Exercises assessment	60%

Student workload	
Form of activity	Average number of hours for implementation of activities
Contact hours of lectures, including:	45
Participation in lectures	30
Participation in exercises	15
Student's own work, including:	20
Preparation to examination	10
Preparation to classes	10
Total time of student work	65
Summary number of ECTS credits for the course:	2
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	Bellanca, Calogero. Methodical approach to the restoration of historic architecture. Alinea publishing. Perugia 2011
2	Bellini, Amedeo. Tecniche delle Conservazione. Edit Angeli Milan 1991
3	Carbonara, Giovanni. La reintegrazione dellímagine. Bulzoni edit Rome 1976
4	De Angelis Dóssat, Guglielmo. Guide to the methodological study of monuments and causes of their deterioration. ICCROM, Rome 1977
5	Feilden, Bernard. Conservation of historic buildings. Butterworth, Oxford-Boston 1994
6	Sanpaolesi, Paolo. Discorso sulla metodologia generale del discorso dei monumenti.Edam publishing, Florence 1980
Additional literature	
1	Doglioni, Francesco. Stratigrafia e restauro. Trieste 1997
2	Giuffré, Antonino. La meccanica nell´architettura. La statica. Roma 1986
3	Rocchi,Paolo; Piccirilli, Carmen. Manuale della Diagnostica.Kappa Publishing, Rome 1999

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO1	A2A_W01, A2A_W02, A2A_W11, A2A_W14	O1, O4	L1,L5	1, 2	A1, A2, A3
LO2	A2A_U01, A2A_U02, A2A_U10	O1, O3, O4	L1,L2,L3	1, 2, 3, 4	A2, A3
LO3	A2A_U03, A2A_U05, A2A_U06	O2, O3	L1,L3,L5,	1, 3	A2, A3

LO4	A2A_K01, A2A_K02	O1, O3, O4	L2	3, 4	A2, A3
LO5	A2A_K07, A2A_K12	O1, O2, O3,O4	L1	3, 4	A2 ,A3

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Second cycle studies in field of Architecture
Specialty " Sustainable Urban Rehabilitation"

Syllabus
Sustainable urban design in World Heritage Sites

Code of the course:	IIAS19
Year:	II
Semester:	3rd
Form of study:	Full-time study
Form of classes and number of hours in semester:	60
Lecture	15
Exercises	
Laboratory	
Design	45
Number of ECTS credits:	4
Method of assessment:	Lectures - assessment, design - assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Gaining knowledge on World Heritage Sites (types, criteria, tools for the management and case studies).
O2	Gaining knowledge on the possible threats, risks and opportunities that impact a World Heritage Site , in particular those related to tourism.
O3	Ability to analyze a Site and design for creating opportunities of dialogue among cultures.
O4	Knowledge of exemplary design solutions and urban planning strategies among World Heritage Sites

Initial requirements in terms of knowledge, skills and other competences	
1	Knowledge of the urban design terminology
2	Comprehension and understanding of World Heritage Sites and their potentialities.
3	Ability to analyze the urban context

Learning outcomes	
	Knowledge:
	Student:
LO 1	Has basic knowledge of urban design in cultural and natural World Heritage sites.
LO 2	Has learned how to design at the urban scale connecting touristic flows and the World Heritage Site for its sustainable development.
	Skills:
	Student:
LO 3	Is able to analyze the urban context of World Heritage Sites, taking into account its tangible and intangible complexity and making connections between people, places, nature and built fabric.

LO 4	Is able to create a vision taking into account the complexity of the urban environment and to deploy the resources and skills to bring the vision to life for an integrated design of the Site.
	Social competences:
	Student:
LO 5	Is aware of the risks of the bad or absent management of the cultural and natural resource on the urban environment.
LO 6	Understands the role and responsibility of the architect, conservator and urban planner in relation to the social, cultural and environmental sustainable development of the World Heritage Site.
LO 7	Is able to detect the inter-scalar design solutions in the Sites for the opportunities of development derived by multiculturalism induced by the travel industry.

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	Introduction: definition of conceptual scope and terminology.
L2	The World Heritage Convention 1972, its aims and the World Heritage Lists. The Outstanding Universal Values, the criteria for the selection, the World Heritage Committee, the World Heritage Funds, the list of World Heritage in Danger, types of Sites, tools for the preservation and management of Sites, the UNESCO operational guidelines and the UNESCO advisory bodies.
L3	Selection of World Heritage Sites case studies and project interventions.
L4	Sustainable urban design, sustainability concept, the urban design approach, the concept of cultural mapping as methodological case study for the analysis of a site for a more integrated designing approach.
L5	The influence of tourism on a World Heritage Site, the risks and opportunities related to this economy. Selection of case studies approaching the topic of tourism as an opportunity and as a threat. The UNESCO approach to the management of tourism in World Heritage Sites.
L6	Design for the creation of connections and of opportunities of intercultural dialogue through heritage in World Heritage Sites. Presentation of a selection of case studies.
Form of classes – design	
	Curriculum contents
D1	Analysis of the World Heritage Site selected as case study.
D2	Determination of the project focus according to the analysis.
D3	Elaboration and representation of the urban design project.

Didactic methods	
1	Multimedia presentations (ppt/pdf, videos).
2	Presentation and evaluation of the projects in reviews.
3	Final questionnaire.

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	60
Participation in lectures	15
Participation in design classes	45
Student's own work, including:	40
Preparation for examination	15
Individual elaboration of design	25
Total time of student work	100
Summary number of ECTS credits for the course:	4
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	3

Basic literature	
1	UNESCO Convention, UNESCO, Paris, 1972
2	ICOMOS, Nara Declaration on Authenticity, ICOMOS, Paris, 1994
3	ICOMOS, International Cultural Tourism Charter - Managing Tourism at Places of Heritage Significance, ICOMOS, Paris, 1999
4	UNWTO, Global Code of Ethics for Tourism, UNWTO, Madrid, 2001
5	UNESCO, Convention on Intangible Heritage, UNESCO, Paris, 2003
6	Council of Europe, Faro Convention, UNESCO, Paris, 2005
7	UNESCO, New life for historic cities, the historic urban landscape approach explained, UNESCO, Paris, 2013
8	Pillai Janet, Cultural Mapping, SIRD, Selangor, 2013
9	Fondazione Romualdo Del Bianco, World Heritage Sites for Dialogue, Masso delle Fate Edizioni, Firenze, 2016
10	UNESCO, World Heritage in Europe Today, Paris, 2016
11	UNESCO, Operational Guidelines for the implementation of the World Heritage Convention, UNESCO, Paris, 2017
12	UNESCO, Tourism Management at UNESCO World Heritage Sites, UNESCO, Paris, 2018
13	SURE Manual, Sustainable Urban Design in World Heritage Sites, 2019
Additional literature	
1	Ludwig Hilbersheimer, New Regional Pattern, Paul Theobald, Chicago, 1949
2	Aldo Rossi, The Architecture of the City, The MIT Press, Cambridge, 1984
3	Rem Koolhaas/ Harvard Project on the City, Stefano Boeri/ Multiplicity, Sanford Kwinter, Nadia Tazi, Hans Ulrich Obrist, Mutations, Actar, Barcelona, 2001
4	UNESCO, Partnerships for World Heritage Cities – Culture as a Vector for Sustainable Urban Development. Proceedings from the Urbino workshop, November 2002", World Heritage Papers No.9, UNESCO, Paris, 2004 → http://whc.unesco.org/en/series/9/
5	Augé, Marc, Colleyn, Jean-Paul, L'Antropologia del mondo contemporaneo, Elèuthera, Milano, 2006
6	UN-HABITAT and UNESCO, Guide for city professionals "Historic Districts for all; a social and human approach for sustainable revitalisation", UN-HABITAT and UNESCO, 2008 → http://www.unhabitat.org/downloads/docs/10362_1_594123.pdf

7	UNESCO, Building Critical Awareness of Cultural Mapping – a workshop facilitation guide, UNESCO, Paris, 2009
8	UNESCO, Managing Historic Cities, World Heritage Papers No.27, UNESCO, Paris, 2010 → http://whc.unesco.org/en/series/27/
9	UNESCO, Recommendation on the Historic Urban Landscape, UNESCO, Paris, 2011 → http://portal.unesco.org/en/ev.phpURL_ID=48857&URL_DO=DO_TOPIC&URL_SECTION=201.html
10	Paolo Del Bianco, Heritage for Intercultural Dialogue, a New Commercial Offer for the Tourism Market with Life Beyond Tourism, in "Technical Transactions. Architecture", Vol. 7/A, pp. 7-13, 2015
11	Lévì-Strauss, Claude, L'Antropologia di fronte ai problemi del mondo modern, Bompiani, Firenze, 2017
12	Fondazione Romualdo Del Bianco, Heritage for Planet Earth, Masso delle Fate, Florence, 2017

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W10	O1, O2	L1, L2, L3	1, 3	A1
LO 2	A2A_W03 A2A_W04	O4	L4, L5	1, 2, 3	A1, A2
LO 3	A2A_U11 A2A_U12 A2A_U16	O3	L4, L6, D1, D2, D3	1, 2, 3	A1, A2
LO 4	A2A_U03 A2A_U14	O4	L4, D1, D2, D3	1, 2, 3	A2
LO 5	A2A_K04 A2A_K07	O2, O4	L2, L3	1, 2, 3	A1
LO 6	A2A_K06 A2A_K08 A2A_K11	O2, O3	L2, L3	1, 2, 3	A1, A2
LO 7	A2A_K04 A2A_K07	O3, O4	L6, D1, D2	1, 2, 3	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Written assessment of the lectures content	60%
A2	Design elaboration	60%

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Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Heritage and Society for Development

Code of the course:	IIAS20
Year:	2
Semester:	3
Form of study:	Full time study
Form of classes and number of hours in semester:	30
Lecture	15
Exercises	15
Laboratory	
Design	
Number of ECTS credit	2
Method of assessment	Lectures – assessment. Exercises – assessment
Language of instruction	English

The purpose and objective of the course	
O1	Know the basic elements of urban sociology
A2	Know basic ideas about heritage conservation and compatibility
O3	Know basic ideas in economics
O4	How to unite heritage and life

Initial requirements in terms of knowledge, skills and other competences	
R1	Knowledge of sociology.
R2	Knowledge of economics
R3	Knowledge of heritage values and conservation
Learning outcomes	
	Knowledge
	Student is able to:
LO1	Identify different urbanistic requirements compatible with heritage values
	Skills
	Student is able to:
LO2	Use different sources of information
LO3	Analyse new ways for development
LO4	Analyse the technical improvement of common elements in the city.
	Social competences
	Student is able to:
LO5	Work within a interdisciplinary team

Programme content	
Form of classes – lecture	
	Curricular contents
L1	The basic elements of urban conservation
L2	Transport. Roads. Pedestrian paths. Others
L3	Register elements. Pipes. Light. Electricity….
L4	Production. Manufacture. Commerce.
L5	Signs, signals.
L6	Gardens. Green….
L7	Maintenance
L8	Social activities

Form of classes – design	
	Curricular contents
D1	Exercises
D2	Project

Didactic methods	
1	Theoretical classes
2	Practical classes. Exercises
3	Seminars
4	Individual activities
5	Group activities

Student workload	
Form of activity	Average number of hours for implementation of activities
Contact hours of lectures, including:	30
Participation in lectures	15
Participation in practical exercises	15
Student's own work, including:	20
Preparation to lectures assessment	10
Preparation to classes	10
Total time of student work	50
Summary number of ECTS credits for the course:	2
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	Levy J.P. Centre villes en Mutation. Edit CNRS. Paris 1987
2	Derry T.K. Historia de la Tecnología. Edit Siglo XXI. Madrid 1977
3	Cairncross, Frances. Las cuentas de la tierra.Economía verde y rentabilidad medioambiental. Edit. Acento Madrid 1993
Additional literature	
1	Culot,M. La vuelta al pasado:una aventura de creación. Edit. MOPU, Madrid 1988

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO1	A2A_W04, A2A_W09, A2A_W10, A2A_W13	O1, O2	L1, L7, L8, D2	1, 2, 3, 4, 5	A1, A2, A3
LO2	A2A_U09, A2A_U10, A2A_U17	O3, O4	L2, L3, L4, L7, L8	3, 5	A2, A3
LO3	A2A_U08, A2A_U15, A2A_U17	O2, O3, O4	L4, L8	1, 3, 5	A2, A3
LO4	A2A_U08, A2A_U11, A2A_U18	O2	L2, L3, L5, L6, L7, D1, D2	1, 2, 3, 4, 5	A1, A2, A3
LO5	A2A_K01, A2A_K02	O4	L1, L8, D2	2, 3, 5	A1, A3

Assessment method description		
Assessment method symbol	Assessment method description	Pass threshold
A1	Project	50%
A2	Continuous assessment	60%
A3	Exercises	60%

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Second cycle studies in field of Architecture
Specialty " Sustainable Urban Rehabilitation"

Syllabus

Heritage Sites and Environmental Protection

Code of the course:	IIAS21
Year:	II
Semester:	3rd
Form of study:	Full-time study
Form of classes and number of hours in semester:	45
Lecture	15
Exercises	30
Laboratory	
Design	
Number of ECTS credits:	3
Method of assessment:	Lectures - colloquium, exercises - assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Gaining knowledge on the responsibilities and potentialities of heritage for the sustainable development of territories.
O2	Acquire awareness on the responsibilities of designers and on the environmental impacts of the urban and architectural design.
O3	Acquire awareness on the environmental threats related to heritage.
O4	Focusing on the environmental impacts of tourism, to gain knowledge on the design strategies for sustainable projects.

Initial requirements in terms of knowledge, skills and other competences	
1	Knowledge of the of urban design terminology
2	Knowledge of the general issues related to environmental protection
3	Sensibility for the topics of environment, heritage, cultural diversity and intercultural dialogue.

Learning outcomes	
	Knowledge:
	Student:
LO 1	Has learned the opportunities of sustainable management of sites in order to act in respect of the environment in particular focusing on tourism.
LO 2	Has basic knowledge of the environmental threats related to tourism industry.
	Skills:
	Student:
LO 3	Is able to make a preliminary analysis of the environmental opportunities and

	threats of a Heritage Site.
LO 4	Is able to articulate the analysis in a possible proposal and writing an essay on it.
	Social competences:
	Student:
LO 5	Is aware of the environmental risks of the bad or absent management of heritage, especially for what concerns the tourism industry, and understands the role of the architect/conservator/urban planner in relation to his/her social, cultural and environmental sustainable development.

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	Introduction: definition of conceptual scope and terminology.
L2	The history of the environmental issues treated by the United Nations Organization, from the Stockholm Conference in 1972, to the Rio De Janeiro Conference in 1992, to the Sustainable Development Goals 2030. The main organizations involved on the topic at international and European level (the United Nations Environment Program, the International Union for Conservation of Nature, the Food and Agriculture Organization, the World Wildlife Fund, International Federation of Landscape Architects etc.).
L3	Heritage and its role in the environmental process: presentation of the main causes of environmental degradation and of the potentialities related to heritage. Selection of case studies of sustainable planning of World Heritage Sites.
L4	Heritage Sites' tourists-attractiveness; the ever-growing impact of tourism in Heritage Sites in terms of pollution, both for the emissions and for the waste production. A focus on the potentialities of evolution of the tourism industry in respect of the environment. Understanding of the spatial and architectural relationships between heritage, travel and dialogue among different actors and users of a Site. Selection of architectural, urban design and planning case studies.
Form of classes – exercise	
	Curriculum contents
D1	Creating a short basic bibliography on the selected topic and reading of the reference bibliography for the analysis.
D2	Selection and critical analysis of the topic of the essay, looking at synergies between heritage and environment with a special focus on tourism.
D3	Elaboration of the essay.

Didactic methods	
1	Multimedia presentations (ppt/pdf, videos)
2	Readings

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	45
Participation in lectures	15

Participation in exercise classes	30
Student's own work, including:	30
Preparation for examination	15
Individual elaboration of essay	15
Total time of student work	75
Summary number of ECTS credits for the course:	3
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	2

Basic literature	
1	UN, Report of the United Nation Conference on the Human Environment, 1972
2	UN, Rio Declaration on Environment and Development, 1992
3	ICOMOS, International Cultural Tourism Charter - Managing Tourism at Places of Heritage Significance, ICOMOS, Paris, 1999
4	UNWTO, Global Code of Ethics for Tourism, UNWTO, Madrid, 2001
5	Ritchie A., Sustainable Urban Design, Taylor & Francis, Abingdon, 2008
6	UNESCO, New life for historic cities, the historic urban landscape approach explained, UNESCO, Paris, 2013
7	UNESCO, Policy Document for the Integration of a Sustainable Development Perspective into the Processes of the World Heritage Convention, UNESCO, Paris, 2015
8	Fondazione Romualdo Del Bianco, World Heritage Sites for Dialogue, Masso delle Fate Edizioni, Firenze, 2016
9	Mostafavi M., Doherty G., Ecological Urbanism, Lars Muller Publishers, Baden, 2016
10	Fondazione Romualdo Del Bianco, Heritage for Planet Earth, Masso delle Fate, Florence, 2017
11	UNEP, Towards a Pollution-Free Planet, UNEP, Nairobi, 2017
12	IUCN, Global reintroduction perspectives: 2018, IUCN, Gland, 2018
13	IUCN, Biodiversity guidelines for forest landscape restoration opportunities assessments, IUCN, Gland, 2018
14	SURE Manual, Sustainable Urban Design in World Heritage Sites, 2019
Additional literature	
1	Partnerships for World Heritage Cities – Culture as a Vector for Sustainable Urban Development. Proceedings from the Urbino workshop, November 2002", World Heritage Papers No.9, UNESCO, Paris, 2004 → http://whc.unesco.org/en/series/9/
2	Koolhaas, R., Junkspace, Quodlibet, Macerata, 2006
3	Guide for city professionals "Historic Districts for all; a social and human approach for sustainable revitalisation", UN-HABITAT and UNESCO, 2008 → http://www.unhabitat.org/downloads/docs/10362_1_594123.pdf
4	Managing Historic Cities, World Heritage Papers No.27, UNESCO, Paris, 2010 → http://whc.unesco.org/en/series/27/
5	Recommendation on the Historic Urban Landscape, UNESCO, Paris, 2011 → http://portal.unesco.org/en/ev.phpURL_ID=48857&URL_DO=DO_TOPIC&URL_SECTION=201.html
6	Paolo Del Bianco, Heritage for Intercultural Dialogue, a New Commercial Offer for the

	Tourism Market with Life Beyond Tourism, in “Technical Transactions. Architecture”, Vol. 7/A, pp. 7-13, 2015
7	UNESCO, The Future of the World Heritage Convention for Marine Conservation, UNECO, Paris, 2016
8	UNESCO, World Heritage in Europe Today, Paris, 2016
	Web sites
1	United Nations Environment Programme https://www.unenvironment.org
2	Food and Agriculture Organization http://www.fao.org/home/en/
3	International Union for Conservation of Nature https://www.iucn.org
4	United Nations Sustainable Development https://sustainabledevelopment.un.org/sdgs
5	World Wildlife Fund https://www.worldwildlife.org
6	International Federation of Landscape Architects http://iflaonline.org

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W03 A2A_W11	O1, O3	L1, L2, L3, L4	1, 2	A1
LO 2	A2A_W12 A2A_W04	O3, O4	L4	1, 2	A1
LO 3	A2A_U11 A2A_U12	O2	D1, D2, D3	2	A2
LO 4	A2A_U16 A2A_U01 A2A_U02	O2, O3	D2, D3	2	A2
LO 5	A2A_K04 A2A_K07	O2	L2, L3, L4	1, 2	A1

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Colloquium of the lectures content	50%
A2	Exercise elaboration	50%

Author of the programme:	Corinna Del Bianco
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Institution:	Fondazione Romualdo Del Bianco – Life Beyond Tourism

Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Contemporary use of cultural heritage

Code of the course:	IIAS22
Year:	II
Semester:	4
Form of study:	Full-time study
Form of classes and number of hours in semester:	30
Lecture	15
Exercises	15
Laboratory	
Design	
Number of ECTS credits:	2
Method of assessment:	Lectures – essay, exercises – assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Gaining skills of analysis and assessment of possible ways of using cultural heritage
O2	Acquaint students with contemporary trends in use of cultural heritage

Initial requirements in terms of knowledge, skills and other competences	
1	Knowledge of history of architecture
2	Knowledge of rules of protecting heritage

Learning outcomes	
	Knowledge:
LO 1	relationships between conservation and sustainable development
LO 2	contribution of conservation of cultural heritage to social cohesion, job creation and regional development
	Skills:
LO 3	in identifying best practices of contemporary use of cultural heritage
LO 4	in identifying opportunities and obstacles to use of cultural heritage
	Social competences:
LO 5	in defining possible pathways for cultural heritage re-discovery and enhancement

Programme content	
Form of classes – lectures/case studies and exercises/study tours	
Curriculum contents	
L1	Examples of best practices in contemporary use of cultural heritage
L2	Study tour 1: contemporary use of post-industrial site
L3	Study tour 2: contemporary use of inner city historical district

Didactic methods	
1	Guided tours and on-site lectures, including theoretical content
2	Case study analyses
3	Multimedia presentations, including theoretical content

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	**30**
Participation in lectures	15
Participation in exercises classes	15
Student's own work, including:	**20**
Preparation of essay	10
Preparation for sase studly analysis for exercises	10
Total time of student work	**50**
Summary number of ECTS credits for the course:	2
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	Sanetra-Szeliga, J. (Ed.) (2015), Cultural Heritage Counts for Europe, final report. CHCfE Consortium - International Cultural Centre, Krakow
2	Council of Europe, 2005. Framework Convention on the Value of Cultural Heritage for Society. Faro, 27.X.2005 (Faro Convention). Council of Europe Treaty Series - No. 199
3	K.J. Borowiecki, N. Forbes, A. Fresa (Eds.), 2016, Cultural Heritage in a Changing World, Springer International Publishing
4	Council of Europe, 2009, Heritage and beyond, ISBN 978-92-871-6636-4PDF
Additional literature	
1	G. Chitty, 2017. Heritage, Conservation and Communities, Engagement, participation and capacity building, Routledge
2	J. Kaminski, A. M. Benson, D. J. Arnold (editors), Contemporary Issues in Cultural Heritage Tourism, 2013, ISBN13 9780415817721
3	UNESCO PAPER n°13 - November 2004, Linking Universal and Local Values: Managing a Sustainable Future for World Heritage. http://whc.unesco.org/en/series/13/
4	UNESCO PAPER n°31 - May 2012, Community development through World Heritage. http://whc.unesco.org/en/series/31/
5	Sanchis R. A. (ed) 2012. Culture as a factor for economic and social innovation. Sostenuto. Tome 1.
6	URBACT (2015), Social innovation in cities, URBACT II capitalisation, Sant Denis, France

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W03, A2A_W12, A2A_W14,	O1, O2	L1, L2, L3	1, 2, 3	A1, A2
LO 2	A2A_W03, A2A_W12, A2A_W14	O1, O2	L1, L2, L3	1, 2, 3	A1, A2
LO 3	A2A_U02, A2A_U12, A2A_U15	O1, O2	L1, L2, L3	1, 2, 3	A1, A2
LO 4	A2A_U02, A2A_U12, A2A_U15	O1, O2	L1, L2, L3	1, 2, 3	A1, A2
LO 5	A2A_K07, A2A_K11, A2A_K12	O1, O2	L1, L2, L3	1, 2, 3	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Short written essay	70%
A2	Presentation of case study/critical analysis	70%

Author of the programme:	Prof. dr hab. inż. Bogusław Szmygin
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Institution:	Lublin University of Technology

Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Sociology of the city

Code of the course:	IIAS23
Year:	II
Semester:	4
Form of study:	Full-time study
Form of classes and number of hours in semester:	30
Lecture	15
Exercises	15
Laboratory	
Design	
Number of ECTS credits:	2
Method of assessment:	Lecture – colloquium, design - assessment
Language of instruction:	English

The purpose and objective of the course	
O1	Gaining basic knowledge on the role of cultural heritage and regeneration policies for positive influencing current spatial dynamics (urban/rural), economic development and social inclusion and possible counter effects
O2	Ability to recognize possible drivers and new regeneration pathways for the revitalization of historical centres and landscapes in rural areas
O3	Gaining knowledge on public participation in regeneration processes
O4	Gaining knowledge on the role of social innovation for the regeneration of urban and rural contexts

Initial requirements in terms of knowledge, skills and other competences	
1	Basic knowledge on urban sociology and city dynamics
2	Knowledge on the role of public participation in spatial planning
3	Abilities in analyzing main features of specific urban and peri-urban contexts

Learning outcomes	
	Knowledge:
LO 1	on opportunities and counter effects of regeneration processes of urban and rural areas on local communities
LO 2	on social innovation practices involving cultural heritage for regenerating cities and territories
	Skills:
LO 3	in identifying main social needs in specific contexts
LO 4	in establishing participatory processes for co-creating shared solutions for regenerate specific urban/rural contexts

	Social competences:
LO 5	in defining possible pathways for cultural values re-discovery and enhancement

Programme content	
Form of classes – lectures	
Curriculum contents	
L1	Communities' heritage values: general framework describing cultural, social, political, and economic impacts of heritage on contemporary society.
L2	The influence of urban transformations (involving tangible and intangible cultural heritage) on social patterns. Gentrification processes involving vulnerable groups (elderly, children, disabled, immigrants, etc.) due to rehabilitation of city centers and urban peripheries and to their promotion for tourism and tertiary uses.
L3	Social innovation and CH promotion and protection: recognition and re-appropriation of cultural heritage in urban and in rural areas through citizens' engagement, co-design and co-creation of heritage-led activities as a way for strengthening both local identity and economic development.
L4	The role of CH for creating and enhancing social capital through its capacity to inspire and foster citizens' public participation, to create a sense of belonging towards the city, to enhance quality of life and well-being, and thereby to redress social disparities and facilitating inclusion
L5	Sound example of social innovation processes and practices involving CH valorisation
Form of classes – exercises	
	Curriculum contents
E1	Identification of specific needs and related social groups in a given context, suffering urban/rural degradation
E2	Definition of a participatory process (define actors, fix targets, define process) for co-creating shared solutions

Didactic methods	
1	Theoretical concepts presentation, eventually supported by multimedia materials (videos, etc.)
2	Progressive presentation and evaluation of design work

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	**30**
Participation in lectures	15
Participation in exercises classes	15
Student's own work, including:	**45**
Preparation for colloquium	30
Preparation for exercises	15
Total time of student work	**75**
Summary number of ECTS credits for the course:	2
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	Labadi S., Logan W., eds., 2016. *Urban Heritage*, *Development and Sustainability. International Frameworks, National and Local Governance,* Routledge
2	Sanetra-Szeliga, J. (Ed.) (2015), Cultural Heritage Counts for Europe, final report. CHCfE Consortium - International Cultural Centre, Krakow
3	Council of Europe, 2005. Framework Convention on the Value of Cultural Heritage for Society. Faro, 27.X.2005 (Faro Convention). Council of Europe Treaty Series - No. 199
4	K.J. Borowiecki, N. Forbes, A. Fresa (Eds.), 2016, Cultural Heritage in a Changing World, Springer International Publishing
5	Council of Europe, 2009, Heritage and beyond, ISBN 978-92-871-6636-4PDF
Additional literature	
1	G. Chitty, 2017. Heritage, Conservation and Communities, Engagement, participation and capacity building, Routledge
2	R. Harrison, 2013. Heritage, Critical Approaches, Routledge
3	UNESCO PAPER n°13 - November 2004, Linking Universal and Local Values: Managing a Sustainable Future for World Heritage. http://whc.unesco.org/en/series/13/
4	UNESCO PAPER n°31 - May 2012, Community development through World Heritage. http://whc.unesco.org/en/series/31/
5	Sanchis R. A. (ed) 2012. Culture as a factor for economic and social innovation. Sostenuto. Tome 1.
6	URBACT (2015), Social innovation in cities, URBACT II capitalisation, Sant Denis, France
7	Murray, R., Caulier-Grice, J. and Mulgan, G. (2010), The white book of social innovation, The Young Foundation
8	Settis S., 2013. Il paesaggio come bene comune, La Scuola di Pitagora, Napoli
9	P. L. Sacco, G. Ferilli, G. Tavano Blessi, 2015. Cultura e sviluppo locale. Verso il distretto culturale evoluto, Il Mulino, Bologna

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W03, A2A_W04, A2A_W13, A2A_W15	O1, O2	L1, L2, L4	1	A1
LO 2	A2A_W03, A2A_W04, A2A_W13, A2A_W15	O2, O3, O4	L1, L3, L5	1	A1
LO 3	A2A_U13, A2A_U14	O2, O3	L2, L3, E1	1, 2	A1, A2
LO 4	A2A_U13,	O3, O4	L3, L4, E2	1, 2	A1, A2

	A2A_U14				
LO 5	A2A_K07, A2A_K08, A2A_K09, A2A_K11	O1, O2, O4	L1, L3, L4, L5, E2	1, 2	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Short written examination of lecture contents during the classes	70%
A2	Design elaboration	60%

Author of the programme:	Elisa Conticelli and Angela Santangelo
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Institution:	Fondazione Flaminia

Second cycle studies in field of Architecture

Specialty "Sustainable Urban Rehabilitation"

Syllabus

Master Seminar - Research: Methods and Project

Code of the course:	IIAS24
Year:	2
Semester:	3
Form of study:	Full time study
Form of classes and number of hours in semester:	30
Lecture	
Exercises	
Laboratory	
Design	
Seminar	30
Number of ECTS credit	1
Method of assessment	Continuous assessment
Language of instruction	English

The purpose and objective of the course	
O1	Know the basic elements of a research proposal
O2	How to conduct interdisciplinary research
O3	How to guarantee scientific integrity
O4	How to write an academic research paper

Initial requirements in terms of knowledge, skills and other competences	
R1	Knowledge of construction. Historic and traditional construction.
R2	Knowledge of construction materials
R3	Knowledge of historical architecture

Learning outcomes	
	Knowledge
	Student is able to:
LO1	Identify different methods of research and construction project preparation
	Skills
	Student is able to:
LO2	Use different sources of information
LO3	Gather relevant information for research
LO4	Analyse the available information and make pertinent decisions, based on it.
LO5	Write and present academic texts
	Social competences
	Student is able to:
LO6	Work within a interdisciplinary team

Programme content	
Form of classes - seminar	
	Curricular contents
L1	The basic elements of a research project
L2	Methodology: Hypothesize. General and particular objectives. Timetable.
L3	Documentary Research, Archives, Libraries.
L4	Direct Research: Geometric, Constructive and Mechanical.
L5	Damages, Map of damages. Possible causes.
L6	Solutions. How to choose the best ones.
L7	Presenting your research project in class
L8	Academic Writing
L9	Peer review assignment
L10	Research project

Didactic methods	
1	Theoretical classes
2	Practical classes. Exercises
3	Seminars
4	Individual activities
5	Group activities

Student workload	
Form of activity	Average number of hours for implementation of activities
Contact hours of lectures, including:	30
Participation in lectures	
Participation in seminars	30
Student's own work, including:	20
Preparation to classes	5
Execution of the design, project study	15
Total time of student work	50
Summary number of ECTS credits for the course:	1
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	1

Basic literature	
1	Berry, R. The Research Project: How to Write It. London and New York: Routledge, 2004
2	Gash, S. Effective Literature Searching for Students. Aldershot: Gower, 1999
3	Gibaldi, J. MLA Handbook for Writers of Research Papers (sixth edition). New York: The Modern Language Association of America, 2004
Additional literature	
1	Eco, U. How to Write a Thesis. Cambridge, MA, USA : MIT Press, 2015

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO1	A2A_W11, A2A_W12, A2A_W13, A2A_W14	O1	L1, L2	1, 2, 3, 4	A2
LO2	A2A_U01, A2A_U08, A2A_U11	O1	L3	1, 2, 4, 5	A1, A2
LO3	A2A_U12, A2A_U13, A2A_U14	O1	L3, L4, L5	1, 2, 3, 4, 5	A1, A2
LO4	A2A_U05, A2A_U06, A2A_U10	O1, O2, O3	L5, L6, L9, L10	2, 3, 4, 5	A1, A2, A3
LO5	A2A_U11, A2A_U12, A2A_U13	O4	L7, L8, L10	1, 4, 5	A1
LO6	A2A_K01, A2A_K02	O2	L2, L3, L4, L5, L6, L7, L8, L10	2, 5	A1, A2

Assessment method description		
Assessment method symbol	Assessment method description	Pass threshold
A1	Research project	60%
A2	Continuous assessment	60%
A3	Peer review assignment	60%

Author of the programme:	Susana Mora Alonso-Muñoyerro
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Institution:	Universidad Politécnica de Madrid

Second cycle studies in field of Architecture
Specialty "Sustainable Urban Rehabilitation"

Syllabus

Master diploma seminar

Code of the course:	IIAS25
Year:	II
Semester:	4
Form of study:	Full-time study
Form of classes and number of hours in semester:	60
Lecture	
Exercises	
Laboratory	
Design	
Seminar	60
Number of ECTS credits:	2
Method of assessment:	Assessment of presentations and partial works
Language of instruction:	English

The purpose and objective of the course	
O1	To acquire the ability to conduct research
O2	the ability to base project proposals on scientific arguments
O3	to learn how to write an academic research paper

Initial requirements in terms of knowledge, skills and other competences	
1	Understanding the architecture as complex, multifaceted, causal and evolving phenomenon
2	Knowledge of architectural history, typology, constuction
3	Understanding that heritage preservation is based on the correlation of different values

Learning outcomes	
	Knowledge:
LO 1	How to identify different methods of research and to prepare the urban rehabilitation project
	Skills:
LO 2	to use different sources of information and to choose reliable data
LO 3	competence to use the results of research for the conception of urban rehabilitation project
	Social competences:
	Student:
LO 4	is able to formulate and present opinions on architecture, urban design,

	preservation of monuments, and spatial planning
LO 5	is aware of the design in accordance with the rules of sustainable development in architecture and urban planning

Programme content	
Form of classes – seminar	
Curriculum contents	
S1	The research methodology: Hypothesize. General and particular objectives, limits and direction of the study, analysis structure and timetable.
S2	Documentary Research, collecting the data from archives, libraries.
S3	Direct Research: architectural, constructive, social and etc
S4	Variants of possible solutions; how to choose the best one
S5	Presenting the research project in class

Didactic methods	
1	Theoretical classes
2	Seminars
3	Individual activities

Student Workload	
Form of activity	Average number of hours for implementation of activity
Contact hours with lectures, including:	60
Participation in seminars	60
Student's own work, including:	10
Elaboration of the concept of design	10
Total time of student work	70
Summary number of ECTS credits for the course:	2
Number of ECTS credits in frames of practical classes (exercises, laboratory classes, design classes)	2

Basic literature	
1	Groat, Linda N. Architectural research methods. 2013
2	Berry, R. The Research Project: How to Write It. London and New York: Routledge, 2004
3	Gash, S. Effective Literature Searching for Students. Aldershot: Gower, 1999
4	Gibaldi, J. MLA Handbook for Writers of Research Papers (sixth edition). New York: The Modern Language Association of America, 2004
Additional literature	
1	Eco, U. How to Write a Thesis. Cambridge, MA, USA : MIT Press, 2015
2	Experimental design research : approaches, perspectives, applications. 2016
3	Lucas, Ray. Research methods for architecture . 2016
4	Sullivan, Brian, The design studio method : creative problem solving with UX sketching. 2016

Learning outcomes matrix					
Learning outcome	The reference of the given outcome to learning outcomes defined for the entire curriculum	Course objectives	Curriculum contents	Didactic methods	Assessment methods
LO 1	A2A_W01, A2A_U01, A2A_U07, A2A_U10, A2A_U11	O1, O2	S1, S2, S3	2, 3	A1, A2
LO 2	A2A_U01, A2A_U02,	O1, O2	S2, S3, S4, S5	1, 2, 3	A1, A2
LO 2	A2A_U11, A2A_U15	O1, O2	S2, S3, S4, S5	1, 2, 3	A1, A2
LO 4	A2A_K04, A2A_K06, A2A_L12, A2A_K03	O1	S1, S2, S3	1, 2	A1, A2
LO 5	A2A_K07, A2A_K11 A2A_K12	O1, O2	S1, S3	1	A1, A2

Assessment methods and criteria		
Assessment method symbol	Assessment method description	Pass threshold
A1	Research project	80%
A2	Continuous assessment	60%

Author of the programme:	Edita Riaubiene
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Institution:	Vilnius Gediminas Technical University

Annex 4 Learning outcomes matrix

A2A_W19	A2A_W18	A2A_W17	A2A_W16	A2A_W15	A2A_W14	A2A_W13	A2A_W12	A2A_W11	A2A_W10	A2A_W09	A2A_W08	A2A_W07	A2A_W06	A2A_W05	A2A_W04	A2A_W03	A2A_W02	A2A_W01			
																				Basic courses	
																				Polish language and culture	IIAB1
		+++											+++							General building engineering	IIAB2
			+++				++				+++									Management of the investment process	IIAB3
+++	+++		+++																	Introduction to the labor market	IIAB4
																				Major courses	
												+	+++	+++	+++	+++	+++	+++		Advanced architectural design	IIAM1
	++					+++	+	+++	++					++		+++	+++	+++		Urban planning	IIAM2
					+++	+++		+++							+++	+++		+++		Urban renewal – sustainable architecture and urban planning study tour and design studio	IIAM3
					+++	+++			+++							+++	++			Landscape architecture	IIAM4
					+++	+++	+++	+++							++	+++	++			Nature And Regional Architecture In Design Process	IIAM5
				+++		+++				+++									+++	Spatial and regional planning	IIAM6
	+++	+++	+		+++		+++		+++				+++	+++	+++	+++	+++	+++		Comprehensive Design Project (Integrating Aspects of Technology, Sustainability, Research and Cultural Awareness in the Design Process)	IIAM7
					+++				++								+++			Traditional, vernacular and historic architecture	IIAM8
																				Specialised courses	
				+	+++	++														Protection of Monuments and Historic Cities	IIAS1
		+++															++			Inventory and Survey of Historical Buildings (pre design activities)	IIAS2
++		+++							+++											Modern Structures and Innovative Building Materials – Technical Appraisal	IIAS3
					+++										+++		++	+++		Sustainable revitalisation of dedgaded areas and buildings	IIAS4
						+++											+++			Theory and history of the City	IIAS5
					+++															Propaedeutics of heritage protection	IIAS6
					+++												+++	+++		Architectural Design In Historical Context – Design studio	IIAS7a
					+++	+++	+++	+++							+++	+++	+++	+++		Architectural Design In Environmental Context – Design studio	IIAS7b
		++			+++	+++	+++							+++	+++	+++	+++	+++		Week summer design studio /real case studies – object and landscape scale - conceptual design/ - Italian architecture and culture	IIAS8
						+++										+++	+++	+++		Freehand Architectural Drawing/Urban sketching	IIAS9
					+++	+++	+++										+++	+++		Architectural conservation studio	IIAS10
					+++		+++										+++	+++		Introduction Course on Theory and History of Conservation: Terminology, Criteria	IIAS11
					+++											+++				The Conservation Area and the Registered Landscape	IIAS12
															+++	+++				Aesthetics of Architecture	IIAS13a
							+++	+++	+++						+++	+++				Philosophy of architecture	IIAS13b
		+			+++	++	++							++	+	++	+++	+		Museology and Museography	IIAS14
										+++	++	+++	+++							Construction applied to Heritage. New compatible solutions.	IIAS15a
													+++	+++			++	++		Heritage Problems. Causes, Solutions	IIAS15b
	+				+++		+++		++			+++	+++	+++				+++		Historical Building Adaptation to Modern Function	IIAS16a
						+++	+++	+++							+++					Urban Design attracting Multicultural Travellers	IIAS16b
	+++	+++		++				+++	+++	+++				+++	+++					Sustainable architecture and eco design	IIAS17
					+++			+++									+++	+++		Methodological approach to conservation: Physical approach	IIAS18
									+++						+++	+++				Sustainable urban design in World Heritage Sites	IIAS19
						++		++	++						+++					Heritage and Society for Development	IIAS20
							+++	+++							+++	+++				Heritage Sites and Environmental Protection	IIAS21
					+++		+++									+++				Urban and Environmental Economy	IIAS22
								+++							+++	+++		+++		Sociology of the city	IIAS23
					+++	+++	+++	+++												Master Seminar - Research: Methods and Project	IIAS24
																		+++		Master diploma seminar	IIAS25

Knowledge:

A2A_U22	A2A_U21	A2A_U20	A2A_U19	A2A_U18	A2A_U17	A2A_U16	A2A_U15	A2A_U14	A2A_U13	A2A_U12	A2A_U11	A2A_U10	A2A_U09	A2A_U08	A2A_U07	A2A_U06	A2A_U05	A2A_U04	A2A_U03	A2A_U02	A2A_U01		
																						Basic courses	
													+++								+++	Polish language and culture	IIAB1
															+++							General building engineering	IIAB2
																						Management of the investment process	IIAB3
	+++														++							Introduction to the labor market	IIAB4
																						Major courses	
		+++	+++				+++		++	+++	+++					+++	++		+++	++		Advanced architectural design	IIAM1
		+++		++	+++	++	+++	+++	++	++	++	+					++	+++	++	++		Urban planning	IIAM2
			+++	+++	+++	+++			+++			+++			+++	+++	++		+++	+++	+++	Urban renewal – sustainable architecture and urban planning study tour and design studio	IIAM3
		+++							++	+++	++									++	++	Landscape architecture	IIAM4
								+++	+++	+++	+++											Nature And Regional Architecture In Design Process	IIAM5
								+++				+++		+++				+++				Spatial and regional planning	IIAM6
															+++	+++	+++		+++	+++	+++	Comprehensive Design Project (Integrating Aspects of Technology, Sustainability, Research and Cultural Awareness in the Design Process)	IIAM7
	++			+++		++	+++		+++	+++	++	+++		+				+			+++	Traditional, vernacular and historic architecture	IIAM8
																						Specialised courses	
	++			++	+											+++	+				++	Protection of Monuments and Historic Cities	IIAS1
	+++														+++		++					Inventory and Survey of Historical Buildings (pre design activities)	IIAS2
+++							+++															Modern Structures and Innovative Building Materials – Technical Appraisal	IIAS3
		+++			+++			+++	+++						++	+++	++					Sustainable revitalisation of dedgaded areas and buildings	IIAS4
							++								++		++			++		Theory and history of the City	IIAS5
		+++	+++	+++						+++	+++						+++			++	+++	Propaedeutics of heritage protection	IIAS6
		+++		+++													++			++	+++	Architectural Design In Historical Context – Design studio	IIAS7a
								+++	+++	+++	+++						+++		+++	+++	+++	Architectural Design In Environmental Context – Design studio	IIAS7b
		+++	+++								+++					+++			+++	+++		Week summer design studio /real case studies – object and landscape scale - conceptual design/ - Italian architecture and culture	IIAS8
						++	+++			++												Freehand Architectural Drawing/Urban sketching	IIAS9
											+++					+++		+++	+++	+++	++	Architectural conservation studio	IIAS10
										+++						+++				+++	+++	Introduction Course on Theory and History of Conservation: Terminology, Criteria	IIAS11
		+++			+++				+++													The Conservation Area and the Registered Landscape	IIAS12
						+++			+++	+++	+++					+++	+++					Aesthetics of Architecture	IIAS13a
									+++	+++	+++					+++	+++					Philosophy of architecture	IIAS13b
		++	++	++							+++				++	++						Museology and Museography	IIAS14
		++	+++					++							+++	++			+++			Construction applied to Heritage. New compatible solutions.	IIAS15a
						++	+++				+++	+++			+++	+++	+++		+++	+++	++	Heritage Problems. Causes. Solutions	IIAS15b
															+++	+++	+++		+++	+++	++	Historical Building Adaptation to Modern Function	IIAS16a
						++			+++		+++								+++			Urban Design attracting Multicultural Travellers	IIAS16b
			+++						++							++	+++					Sustainable architecture and eco design	IIAS17
												+++			+++	+++		++	+++	+++		Methodological approach to conservation: Physical approach	IIAS18
						++		++		++	+++								+++			Sustainable urban design in World Heritage Sites	IIAS19
				+++	++		+++				+++	+++	++	++								Heritage and Society for Development	IIAS20
						+++				++	+++									+++	++	Heritage Sites and Environmental Protection	IIAS21
							+++			+++										+++		Urban and Environmental Economy	IIAS22
									+++										+++			Sociology of the city	IIAS23
								+++	+++	+++	+++	+++		++		+++	+++				+++	Master Seminar - Research: Methods and Project	IIAS24
												+++			++						+++	Master diploma seminar	IIAS25

Skills:

A2A_K13	A2A_K12	A2A_K11	A2A_K10	A2A_K09	A2A_K08	A2A_K07	A2A_K06	A2A_K05	A2A_K04	A2A_K03	A2A_K02	A2A_K01			
														Basic courses	
		++			++	++							Social competence:	Polish language and culture	IIAB1
										+++	+++			General building engineering	IIAB2
			+++											Management of the investment process	IIAB3
			+++				+++							Introduction to the labor market	IIAB4
														Major courses	
				++	++							++		Advanced architectural design	IIAM1
		++		+	+	++			+++	+	+	+++		Urban planning	IIAM2
												+++		Urban renewal – sustainable architecture and urban planning study tour and design studio	IIAM3
	++								++		+			Landscape architecture	IIAM4
	+++	+++			+++	+++	+++		+++					Nature And Regional Architecture In Design Process	IIAM5
		++			++	+++								Spatial and regional planning	IIAM6
											+++	+++		Comprehensive Design Project (Integrating Aspects of Technology, Sustainability, Research and Cultural Awareness in the Design Process)	IIAM7
		++							+++					Traditional, vernacular and historic architecture	IIAM8
														Specialised courses	
		+++				++								Protection of Monuments and Historic Cities	IIAS1
						++		+++				+++		Inventory and Survey of Historical Buildings (pre design activities)	IIAS2
		++					+++			+++	+++	+++		Modern Structures and Innovative Building Materials – Technical Appraisal	IIAS3
	+++	++		+++		+++								Sustainable revitalisation of dedgaded areas and buildings	IIAS4
	+++	++		+++	+++	+++								Theory and history of the City	IIAS5
	+++	+++				++								Propaedeutics of heritage protection	IIAS6
	+++											++		Architectural Design In Historical Context – Design studio	IIAS7a
	+++	+++			+++	+++	+++							Architectural Design In Environmental Context – Design studio	IIAS7b
	+++	+++				+++	+++					+++		Week summer design studio /real case studies – object and landscape scale - conceptual design/ - Italian architecture and culture	IIAS8
	+++	+++		++										Freehand Architectural Drawing/Urban sketching	IIAS9
	+++	+++				+++	+++					+++		Architectural conservation studio	IIAS10
	+++	+++				+++	++					+++		Introduction Course on Theory and History of Conservation: Terminology, Criteria	IIAS11
	+++	+++				+++						+++		The Conservation Area and the Registered Landscape	IIAS12
	+++	+++		+++	+++	+++			+++			+++		Aesthetics of Architecture	IIAS13a
	+++	+++		+++	+++	+++			+++	+++		+++		Philosophy of architecture	IIAS13b
	+++	+++				+++	+++					+++		Museology and Museography	IIAS14
			++			+++	+++					+++		Construction applied to Heritage. New compatible solutions.	IIAS15a
											+++	+++		Heritage Problems. Causes. Solutions	IIAS15b
					+++							+++		Historical Building Adaptation to Modern Function	IIAS16a
		++			+++				+++					Urban Design attracting Multicultural Travellers	IIAS16b
+++									+++					Sustainable architecture and eco design	IIAS17
	+++					+++					+++	+++		Methodological approach to conservation: Physical approach	IIAS18
		+++			+++	+++	++		+++					Sustainable urban design in World Heritage Sites	IIAS19
											+++	+++		Heritage and Society for Development	IIAS20
						+++			+++					Heritage Sites and Environmental Protection	IIAS21
	+++	+++				+++								Urban and Environmental Economy	IIAS22
	+++								+++					Sociology of the city	IIAS23
											+++	+++		Master Seminar - Research: Methods and Project	IIAS24
	++	++				++	+++		+++	+++				Master diploma seminar	IIAS25

Annex 5 Plan of studies for second cycle studies in field of Architecture, Specialty: „Sustainable Urban Rehabilitation”

COURSE	Number of hours						CLASSES IN SEMESTERS																			
							I					II				III						IV				
	total	lecture	exercises	lab	design	seminar	L	E	Lab	D	ECTS	L	E	D	ECTS	L	E	D	S	ECTS	L	E	S	ECTS
GENERAL COURSES																										
IIAB1 Foreign language	30			30					30		1															
IIAB2 General building engineering E	60	30			30		30			30	3															
IIAB3 Management of the investment process	30	15	15																		15	15		2		
IIAB4 Introduction to the labour market	30	15	15																		15	15		2		
MAJOR COURSES																										
IIAM1 Architectural design	75	15			60		15			60	5															
IIAM2 Urban planning	45	15			30		15			30	3															
IIAM3 Urban renewal - sustainable architecture and urban planning design studio	45	15			30		15			30	3															
IIAM4 Landscape architecture E	35	25	5		5							25	5	5	2											
IIAM5 Nature and Regional architecture in design process	40	20			20							20		20	2											
IIAM6 Spatial and regional planning	45	15			30											15		30		3						
IIAM7 Comprehensive Design Project (Integrating Aspects Of Technology, Sustainability, Research And Cultural Awareness In the Design Process)	60	15			45											15		45		4						
IIAM8 Traditional, Vernacular and Historic Architecture E	35	15			20											15		20		2						
SPECIALISED COURSES																										
IIAS1 Protection of monuments and historic towns E	40	25			15		25			15	2															
IIAS2 Inventory and Survey of Historical Buildings (pre-design activities)	45	15			30		15			30	3															
IIAS3 Modern Structures and Innovative Building Materials - Technical Appraisal	30	15			15		15			15	2															
IIAS4 Sustainable revitalisation of degraded areas and buildings	45	15			30		15			30	3															
IIAS5 Theory and History of the city	45	30	15				30	15			3															
IIAS6 Propaedeutics of heritage protection E	30	15	15				15	15			2															

IIAS7a Architectural Design In Historical Context – Design studio **IIAS7b Architectural Design In Environmental Context – Design studio**	40	15			25							15		25	2										
IIAS8 Week summer design studio /real case studies – object and landscape scale - conceptual design/	40	15			25							15		25	2										
IIAS9 Freehand Architectural Drawing/Urban sketching	20	10	10									10	10		1										
IIAS10 Architectural conservation studio	90	20	30		40							20	30	40	5										
IIAS11 Introduction Course on Theory and History of Conservation E	75	50	25									50	25		4										
IIAS12 The Conservation Area and the Registered Landscape	30	15	15									15	15		2										
IIAS13a Aesthetics of Architecture **IIAS13b Philosophy of architecture**	40	25	15									25	15		2										
IIAS14 Museology and Museography E	75	50	15		10							50	15	10	4										
IIAS15a Construction applied to Heritage E **IIAS15b Heritage Problems. Causes. Solutions E**	45	30	15													30	15			3					
IIAS16a Historical Building Adaptation to Modern Function **IIAS16b Urban Design attracting Multicultural Travellers**	45	15			30											15		30		3					
IIAS17 Sustainable Architecture and Eco-Design	45	15			30											15		30		3					
IIAS18 Methodological approach to conservation E	45	30	15													30	15			2					
IIAS19 Sustainable Urban Design in World Heritage Sites	60	15			45											15		45		4					
IIAS20 Heritage And Society for Development	30	15	15													15	15			2					
IIAS21 Heritage Sites and Environmental Protection	45	15	30													15	30			3					
IIAS22 Contemporary use of cultural heritage	30	15	15																		15	15		2	
IIAS23 Sociology of the city	30	15	15																		15	15		2	
IIAS24 Master Seminar - Research: Methods and Project	30					30													30	1					
IIAS25 Master diploma seminar	60					60																	60	2	
Total	1640	675	280	30	565	90	190	30	30	240	30	245	115	125	26	180	75	200	30	30	60	60	60	10	
Apprenticeship (4 weeks)															4										
Master thesis																								20	
					Total ECTS		30					30				30					30					
					192																				

The courses marked with “E” are the courses ending with an exam:

- 1 general course
- 2 major courses
- 6 specialised courses.

Three exams are planned in each of the first three semesters.

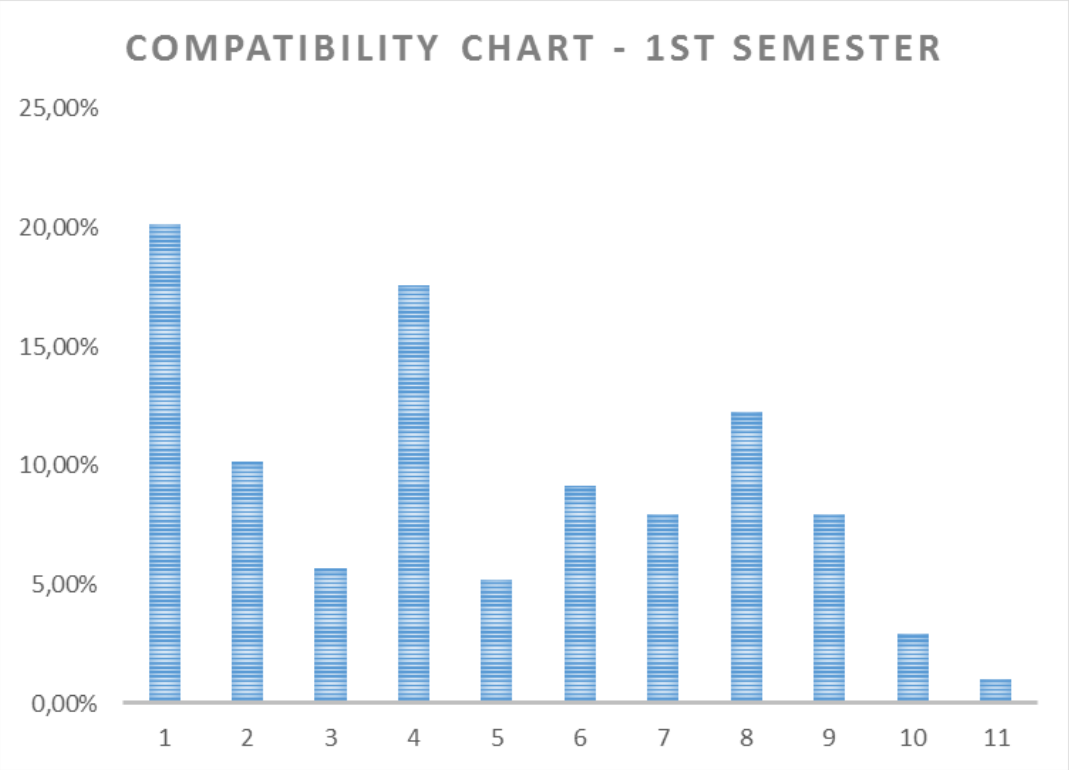
Annex 6

Confirmation of curriculum compliance with the requirements of the DIRECTIVE 2013/55/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 November 2013 amending Directive 2005/36/EC on the recognition of professional qualifications and Regulation (EU) No 1024/2012 on administrative cooperation through the Internal Market Information System

MSc STUDIES IN ARCHITECTURE - SUSTAINABLE URBAN REHABILITATION																
1st SEMESTR	Contract hours	Individual hours	**Total**		1. Architectural design	2. Knowledge of history and theories of architecture and related arts	3. Knowledge of fine arts as an influence	4. Knowledge of Urban Design and Planning	5. The relationship between people, buildings and environment	6. The profession and Role of Architect in Society	7. Investigation and Preparation Methods	8. Structural Design, Constructional and Engineering problems	9. Physical problems & comfortable conditions	10. Cost factors & building regulations	11. Building procedures & overall planning	**TOTAL**
	HOURS	HOURS	HOURS	ECTS	**(a)**	**(b)**	**(c)**	**(d)**	**(e)**	**(f)**	**(g)**	**(h)**	**(i)**	**(j)**	**(k)**	
BASIC COURSES																
Polish language and culture	30	15	45	1												
General building engineering	60	30	90	3								90%	10%			100%
MAJOR COURSES																
Architectural design	75	60	135	5	60%	10%				10%	10%			10%		100%
Urban planning	45	30	75	3				90%	10%							100%
Urban renewal - sustainable architecture and urban planning design studio	50	25	75	3	30%	10%		20%	10%		20%		10%			100%
SPECIALISED COURSES																
Protection of monuments and historical towns	40	20	60	2	20%	5%	10%	25%			15%		20%		5%	100%
Inventory and survey of historical buildings (pre-design activities)	45	15	60	3	15%	25%	5%	5%		15%	5%	15%	15%			100%
Modern Structures and Innovative Building Materials - Technical Appraisal	30	30	60	2	10%			10%		30%		20%	20%	10%		100%
Sustainable revitalization of degraded areas and buildings	45	30	75	3	20%	10%	10%	15%	10%	10%	5%		15%	5%		100%
Theory and History of the city	45	30	75	3	10%	20%	20%	10%		20%	20%					100%
Propaedeutics of heritage protection	30	30	60	2		20%	20%	10%	30%	10%					10%	100%
TOTAL	495	315	810	30												
SHARE					20,17%	10,17%	5,69%	17,59%	5,17%	9,14%	7,93%	12,24%	7,93%	2,93%	1,03%	100,00%

1st SEMESTER

According to **Article 46 DIRECTIVE 2013/55/EU** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 November 2013 amending Directive 2005/36/EC on the recognition of professional qualifications and Regulation (EU) No 1024/2012 on administrative cooperation through the Internal Market Information System



Balance between theoretical and practical aspects of architectural training and guarantee the acquisition of the following knowledge and skills:

1 -(a) ability to create architectural designs that satisfy both aesthetic and technical requirements;

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3 -(c) knowledge of the fine arts as an influence on the quality of architectural design;

4 -(d) adequate knowledge of urban design, planning and the skills involved in the planning process;

5 -(e) understanding of the relationship between people and buildings, and between buildings and their environment, and of the need to relate buildings and the spaces between them to human needs and scale;

6 -(f) understanding of the profession of architecture and the role of the architect in society, in particular in preparing briefs that take account of social factors;

7 -(g) understanding of the methods of investigation and preparation of the brief for a design project;

8 -(h) understanding of the structural design, constructional and engineering problems associated with building design;

9 -(i) adequate knowledge of physical problems and technologies and of the function of buildings so as to provide them with internal conditions of comfort and protection against the climate, in the framework of sustainable development;

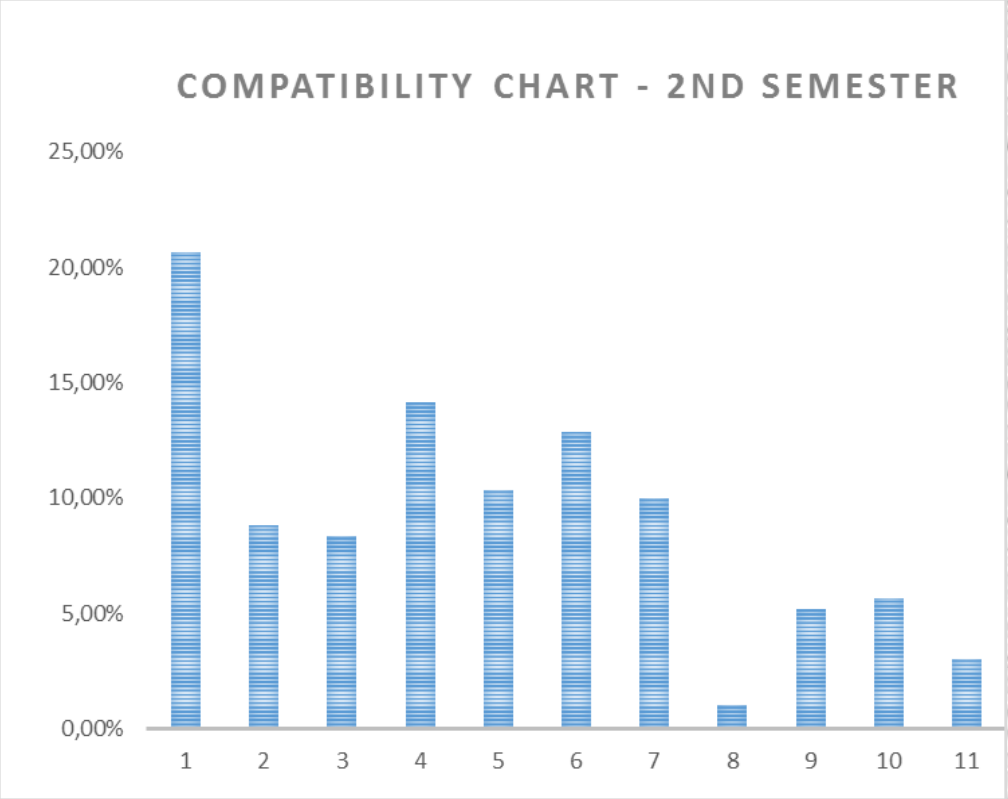
10 -(j) the necessary design skills to meet building users' requirements within the constraints imposed by cost factors and building regulations;

11 -(k) adequate knowledge of the industries, organizations, regulations and procedures involved in translating design concepts into buildings and integrating plans into overall planning.

MSc STUDIES IN ARCHITECTURE - SUSTAINABLE URBAN REHABILITATION																
2nd SEMESTR	Contract hours	Individual hours	**Total**		1. Architectural design	2. Knowledge of history and theories of architecture and related arts	3. Knowledge of fine arts as an influence	4. Knowledge of Urban Design and Planning	5. The relationship between people, buildings and environment	6. The profession and Role of Architect in Society	7. Investigation and Preparation Methods	8. Structural Design, Constructional and Engineering problems	9. Physical problems & comfortable conditions	10. Cost factors & building regulations	11. Building procedures & overall planning	**TOTAL**
	HOURS	HOURS	HOURS	ECTS	**(a)**	**(b)**	**(c)**	**(d)**	**(e)**	**(f)**	**(g)**	**(h)**	**(i)**	**(j)**	**(k)**	
MAJOR COURSES																
Landscape architecture	35	20	55	2	15%	10%	10%	15%	10%	5%	10%	5%	10%	5%	5%	100%
Nature and Regional architecture in design process	40	10	50	2	20%	10%	5%	30%	20%	10%			5%			100%
SPECIALISED COURSES																
Architectural Design In Historical Context – Design studio / Architectural Design In Environmental Context – Design studio	40	10	50	2	30%	10%	5%	20%	20%	10%	5%					100%
Week summer design studio /real case studies – object and landscape scale - conceptual design/	40	10	50	2	25%	10%	10%	10%	10%	15%		10%	10%			100%
Freehand Architectural Drawing/Urban sketching	20	20	40	1	30%	10%		20%	20%	10%	10%					100%
Architectural conservation studio	90	35	125	5	20%	15%	10%	15%		15%	20%		5%			100%
Introduction Course on Theory and History of Conservation	75	25	100	4	15%	10%	10%	10%	10%	15%	20%			10%		100%
The Conservation Area and the Registered Landscape	30	20	50	2	15%		10%	20%	15%	10%			20%	10%		100%
Aesthetics of Architecture / Philosophy of architecture	30	30	60	2	30%	10%	10%	10%	20%	10%			10%			100%
Museology and Museography	75	25	100	4	20%	10%	15%	10%	15%	10%	10%		5%	5%		100%
Apprenticeship (4 weeks)																
Pre-diploma apprenticeship					20%			10%		20%	10%			20%	20%	100%
TOTAL	475	205	680	26												
SHARE					20,74%	9,81%	9,26%	14,63%	11,48%	12,04%	10,00%	1,11%	5,74%	4,07%	1,11%	100%

2nd SEMESTER

According to **Article 46 DIRECTIVE 2013/55/EU** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 November 2013 amending Directive 2005/36/EC on the recognition of professional qualifications and Regulation (EU) No 1024/2012 on administrative cooperation through the Internal Market Information System



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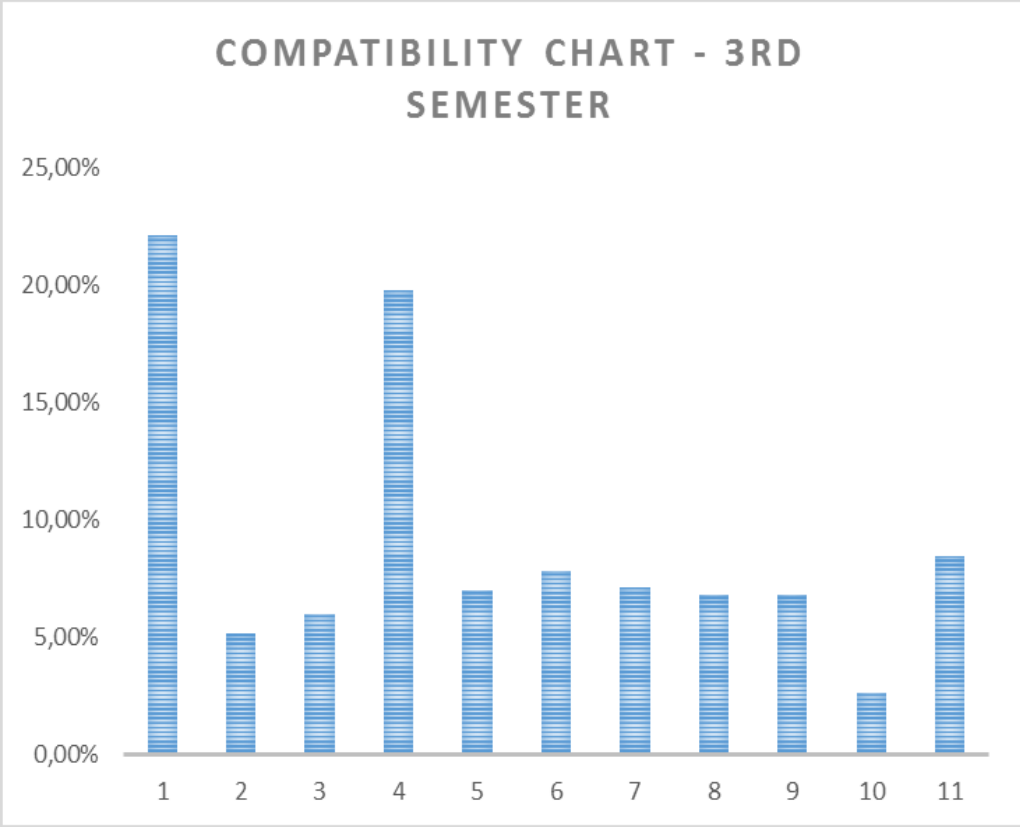
11 -(k) adequate knowledge of the industries, organizations, regulations and procedures involved in translating design concepts into buildings and integrating plans into overall planning.

MSc STUDIES IN ARCHITECTURE - SUSTAINABLE URBAN REHABILITATION																
3rd SEMESTER																
3rd SEMESTER	Contract hours	Individual hours	**Total**		1. Architectural design	2. Knowledge of history and theories of architecture and related arts	3. Knowledge of fine arts as an influence	4. Knowledge of Urban Design and Planning	5. The relationship between people, buildings and environment	6. The profession and Role of Architect in Society	7. Investigation and Preparation Methods	8. Structural Design, Constructional and Engineering problems	9. Physical problems & comfortable conditions	10. Cost factors & building regulations	11. Building procedures & overall planning	**TOTAL**
	HOURS	HOURS	HOURS	ECTS	**(a)**	**(b)**	**(c)**	**(d)**	**(e)**	**(f)**	**(g)**	**(h)**	**(i)**	**(j)**	**(k)**	
MAJOR COURSES																
Spatial and regional planning	45	30	75	3	10%	5%	5%	50%		10%					20%	100%
Comprehensive Design Project (Integrating Aspects Of Technology, Sustainability, Research And Cultural Awareness In The Design Process)	60	40	100	4	30%			10%	10%	10%	10%	10%	10%		10%	100%
Traditional, Vernacular And Historic Architecture	35	25	60	2	10%	10%	10%	20%	10%		20%	10%	10%			100%
SPECIALISED COURSES																
Construction applied to Heritage / Heritage Problems. Causes. Solutions	45	30	75	3	20%	5%	10%	20%		10%		10%	10%	5%	10%	100%
Historical Building Adaptation To Modern Function / Urban Design attracting Multicultural Travellers	45	30	75	3	20%			5%	5%	10%	10%	20%	20%	5%	5%	100%
Sustainable Architecture And Eco-Design	45	30	75	3	15%			10%	15%			15%	15%	15%	15%	100%
Methodological approach to conservation	45	20	65	2	30%	10%	10%	20%		10%	20%					100%
Sustainable Urban Design in World Heritage Sites	60	40	100	4	30%	10%	10%	20%	10%	10%					10%	100%
Heritage And Society for Development	30	20	50	2	20%	5%	10%	30%	5%	10%	10%	5%			5%	100%
Heritage Sites and Environmental Protection	45	30	75	3	30%	10%	10%	20%	10%	5%	10%				5%	100%
Master Seminar - Research: Methods and Project	30	20	50	1	20%	5%	5%	20%	10%	10%	15%		10%	5%		100%
TOTAL	485	315	800	30												
SHARE					22,17%	5,17%	6,00%	19,83%	7,00%	7,83%	7,17%	6,83%	6,83%	2,67%	8,50%	100,00%

3rd SEMESTER

According to **Article 46 DIRECTIVE 2013/55/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 November 2013 amending Directive 2005/36/EC on the recognition of professional qualifications and Regulation (EU) No 1024/2012 on administrative cooperation through the Internal Market Information System**



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8 -(h) understanding of the structural design, constructional and engineering problems associated with building design;

9 -(i) adequate knowledge of physical problems and technologies and of the function of buildings so as to provide them with internal conditions of comfort and protection against the climate, in the framework of sustainable development;

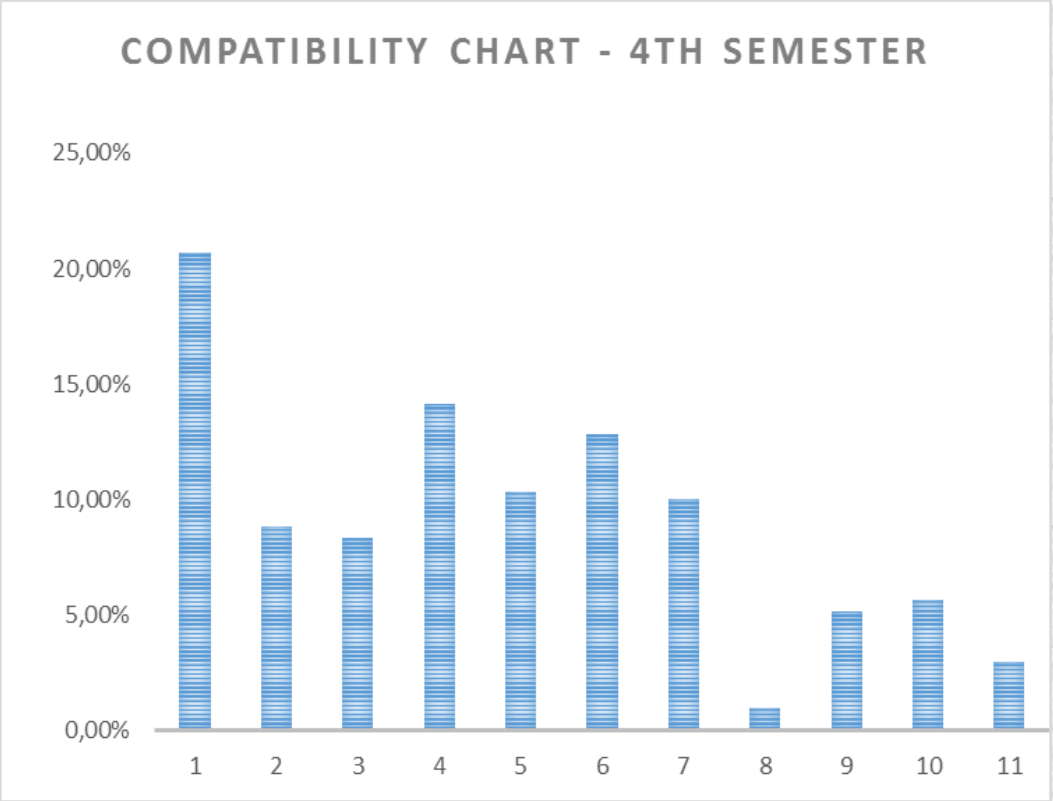
10 -(j) the necessary design skills to meet building users' requirements within the constraints imposed by cost factors and building regulations;

11 -(k) adequate knowledge of the industries, organizations, regulations and procedures involved in translating design concepts into buildings and integrating plans into overall planning.

MSc STUDIES IN ARCHITECTURE - SUSTAINABLE URBAN REHABILITATION																
4th SEMESTR	Contract hours	Individual hours	**Total**		1. Architectural design	2. Knowledge of history and theories of architecture and related arts	3. Knowledge of fine arts as an influence	4. Knowledge of Urban Design and Planning	5. The relationship between people, buildings and environment	6. The profession and Role of Architect in Society	7. Investigation and Preparation Methods	8. Structural Design, Constructional and Engineering problems	9. Physical problems & comfortable conditions	10. Cost factors & building regulations	11. Building procedures & overall planning	**TOTAL**
	HOURS	HOURS	HOURS	ECTS	**(a)**	**(b)**	**(c)**	**(d)**	**(e)**	**(f)**	**(g)**	**(h)**	**(i)**	**(j)**	**(k)**	
BASIC COURSES																
Management of the investment process	30	20	50	2						25%				10%	65%	100%
Introduction to the labour market	30	20	50	2	5%			5%		20%		5%	10%	5%	50%	100%
SPECIALISED COURSES																
Contemporary use of cultural heritage	30	20	50	2	15%	5%	10%	5%	20%	15%	20%		10%			100%
Sociology of the city	30	45	75	2	20%			20%	20%	10%			10%	10%	10%	100%
Master diploma seminar	60	10	70	2	20%	10%	15%	10%		20%	15%		10%			100%
TOTAL	180	115	295	10												
SHARE					12,00%	3,00%	5,00%	8,00%	8,00%	18,00%	7,00%	1,00%	8,00%	5,00%	25,00%	100%

4th SEMESTER

According to **Article 46 DIRECTIVE 2013/55/EU** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 November 2013 amending Directive 2005/36/EC on the recognition of professional qualifications and Regulation (EU) No 1024/2012 on administrative cooperation through the Internal Market Information System



Balance between theoretical and practical aspects of architectural training and guarantee the acquisition of the following knowledge and skills:

1 -(a) ability to create architectural designs that satisfy both aesthetic and technical requirements;

2 -(b) adequate knowledge of the history and theories of architecture and the related arts, technologies and human sciences;

3 -(c) knowledge of the fine arts as an influence on the quality of architectural design;

4 -(d) adequate knowledge of urban design, planning and the skills involved in the planning process;

5 -(e) understanding of the relationship between people and buildings, and between buildings and their environment, and of the need to relate buildings and the spaces between them to human needs and scale;

6 -(f) understanding of the profession of architecture and the role of the architect in society, in particular in preparing briefs that take account of social factors;

7 -(g) understanding of the methods of investigation and preparation of the brief for a design project;

8 -(h) understanding of the structural design, constructional and engineering problems associated with building design;

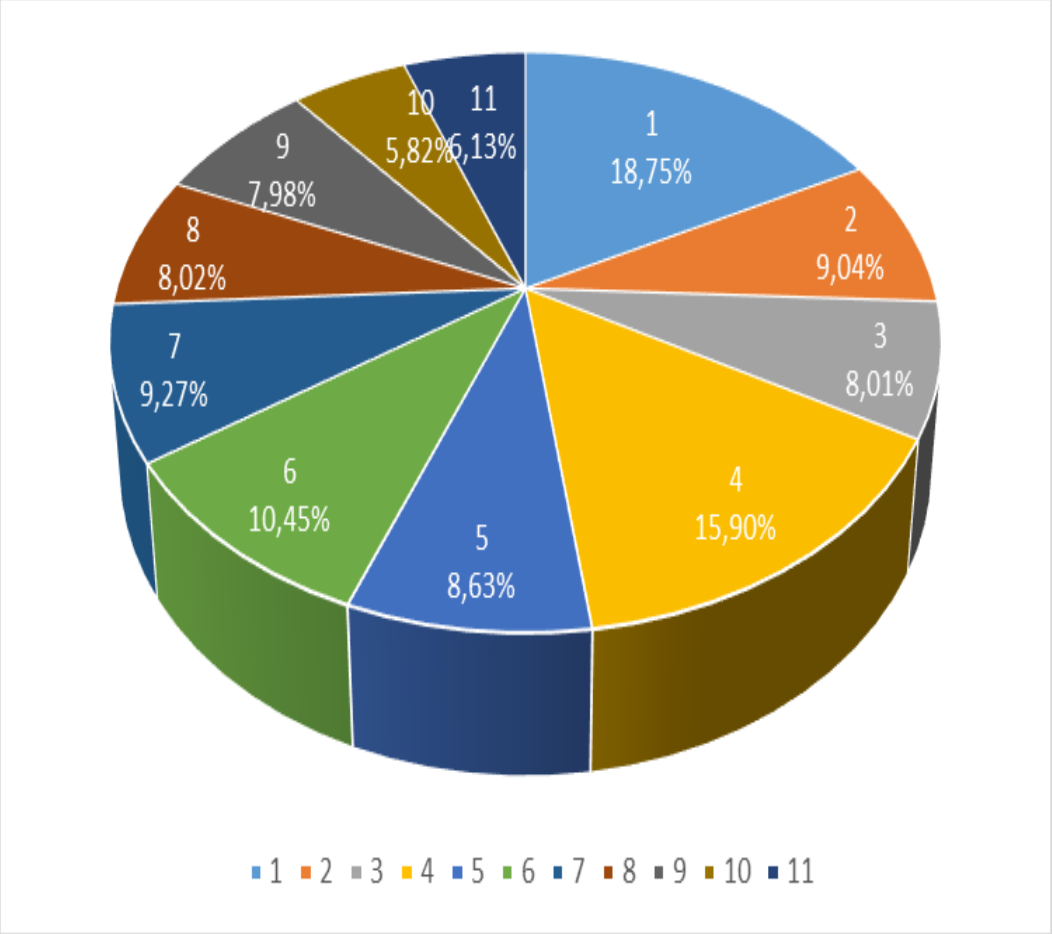
9 -(i) adequate knowledge of physical problems and technologies and of the function of buildings so as to provide them with internal conditions of comfort and protection against the climate, in the framework of sustainable development;

10 -(j) the necessary design skills to meet building users' requirements within the constraints imposed by cost factors and building regulations;

11 -(k) adequate knowledge of the industries, organizations, regulations and procedures involved in translating design concepts into buildings and integrating plans into overall planning.

SUMMARY - MSc STUDIES IN ARCHITECTURE - SUSTAINABLE URBAN REHABILITATION

COMPATIBILITY CHART



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Documentation of study plan

and curriculum

Specialty „Sustainable Urban Rehabilitation”

in field of Architecture
second cycle full-time studies
general academic profile

Erasmus+

Project "SURE - Sustainable Urban Rehabilitation in Europe"
implemented in frames of Erasmus+ Programme
Key Action 2: Strategic Partnership Projects
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