# SURE

# Sustainable Urban Rehabilitation

# Modelprogramme

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

> Co-funded by the Erasmus+ Programme of the European Union



# **Model programme of SURE:**

## **Sustainable Urban Rehabilitation**

# 2<sup>nd</sup> cycle studies in field of Architecture

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**Key Action 2 : Strategic Partnership Projects** 

Agreement nº 2016-1-PL01-KA203-026232



**Model programme of SURE**: Sustainable Urban Rehabilitation is 2-years master studies divided into 4 semesters, 30 ECTS in each semester (total 120 ECTS).

Multidisciplinary 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.

#### Model programme of SURE 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

Four courses are planned as elective courses: the students can select one out of the two courses proposed.

Elective courses	10 ECTS
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After the detailed analysis, the Model programme of SURE curriculum is presented below in two versions:

- 1. Model programme of SURE curriculum based on Modules
- 2. Model programme of SURE curriculum based on mixed courses

The university interested in launching SURE studies has the possibility of choosing the version of the model programme of SURE curriculum best suited to the specificity of this university.

#### 1. Model programme of SURE curriculum based on Modules

Within model programme of SURE curriculum based on Modules, the courses are grouped into thematic blocks – modules – and each semester is focused on a different Module:

- 1st semester Module: Sustainable architecture and urban planning
- 2<sup>nd</sup> semester Module: Sustainable heritage
- 3<sup>rd</sup> semester Module: Heritage and Society

Learning based on thematic modules might be more efficient for students as the courses within each Module focus on the thematic issues related to only one field (Architecture & urban planning, Sustainable heritage or Heritage & society).

4<sup>th</sup> semester is diploma semester when students need more time for elaboration of Master thesis, therefore the number of courses, teaching hours and ECTS credits within this semester is lower.

### Model programme of SURE curriculum based on Modules

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

		Nu	umbe	r of	hours	S			1000000			CL	ASS	ES I	N SEI	MEST	ΓERS							
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COURSE	total	lecture	exercises	lab	design	seminar	L E	D	ECTS	L	Ε	Lab	D	ECTS	L	E	D	S	ECTS	L	Е	D	S	JLUL
GENERAL COURSES																								
IIAB1 Foreign language	30			30								30		1										
IIAB2 General building engineering	60	30			30		30	15	2				15	1										
IIAB3 Management of the investment process	30	15	15																	15	15			1
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	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	35	15			20										15		20		2					
SPECIALISED COURSES			,										•											
IIAS7a Architectural Design In Historical Context – Design studio																								Γ
IIAS7b Architectural Design In Environmental Context – Design studio	40	15			25		15	25	5 2															
IIAS8 Week summer design studio /real case studies – object and landscape scale - conceptual design/	40	15			25		15	25	5 2															
IIAS9 Freehand Architectural Drawing/Urban sketching	20	10	10				10 10		1															
IIAS13a Aesthetics of Architecture	40	2.5	4.5				25 45		_															
IIAS13b Philosophy of architecture	40	25	15				25   15		2															
IIAS17 Sustainable architecture and eco design	45	15			30		15	30	3															

IIAS1 Protection of monuments and historical towns	40	25	11/16/11/20	] ] :	15	2001000	**************************************	0.000	25		:	15	2	F-8-1/22	Storin	0.377.29	v calocore		3030-	60.30-6		SCIR	
IIAS2 Inventory and Survey of Historical Buildings (pre-design activities)	45	15		3	30				15		3	30	3										
IIAS3 Modern Structures and Innovative Building Materials - Technical Appraisal	30	15		1	L5				15		1	.5	2										
IIAS4 Sustainable revitalisation of degraded areas and buildings	45	15		3	30				15		(3)	80	3										
IIAS5 Theory and History of the city	45	30	15						30	15			3										
IIAS6 Propaedeutics of heritage protection	30	15	15						15	15			2										
IIAS10 Architectural conservation studio	90	20	30	4	10														20	30	40		L )
IIAS11 Introduction Course on Theory and History of Conservation	75	50	25						50	25			4										
IIAS15a Construction applied to Heritage	45	20	15						20	15		Î	2										
IIAS15b Heritage Problems. Causes. Solutions	45	30	15						30	12			3										
IIAS18 Methodological approach to conservation	45	30	15						30	15			2										
IIAS16a Historical Building Adaptation to Modern Function	45	15			10									٦٢		20		2					
IIAS16b Urban Design attracting Multicultural Travellers	45	15			30									15		30		3					
IIAS12 The Conservation Area and the Registered Landscape	30	15	15											15	15			2					
IIAS14 Museology and Museography	75	50	15	1	LO									50	15	10		4					
IIAS19 Sustainable Urban Design in World Heritage Sites	60	15		4	15									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												30	1				30	1
Total	1640	675	280	30 50	55 90	215	30 27	0 30	225	85	30 10	)5	26	185	105	150	60	30	50	60	40	30	10
Apprenticeship (4 weeks)													4										
Master thesis								·															20
	Total ECTS			30			,	30				:	30					30					

#### 2. Model programme of SURE curriculum based on mixed courses

1 <sup>ST</sup> SEMESTER – 30 ECTS	2 <sup>ND</sup> SEMESTER 30 ECTS	3 <sup>RD</sup> SEMESTER 30 ECTS	4 <sup>TH</sup> 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	Contemporary use of cultural heritage
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	

Other possibility of organising the courses within the semesters is presented above in Model programme of SURE curriculum based on mixed courses. Within this model, the courses assigned to particular modules (Sustainable architecture and urban planning, Sustainable heritage, Heritage and Society) are not aggregated in separate semesters, but mixed and

assigned to various semesters. Such variety of topics taught within each semester might be more interesting for students. IMPORTANT NOTE: Courses within SURE curriculum can be moved between the semesters depending on the needs of individual universities, which makes the model programme very flexible and easy to customise.

	ı	Numb	er o	f ho	urs								С	LASS	ES I	N SE	MES	TERS						
COLUDE		l e	es		_	æ.			I				II					III				ľ	٧	
COURSE	total	lecture	exercises	lab	design	seminar	L	E	Lab	D	ECTS	L	E	D	ECTS	L	Е	D	S	ECTS	L	E	S	
GENERAL COURSES				1		<u> </u>																		
IIAB1 Foreign language	30			30				3	30		1													
IIAB2 General building engineering	60	30			30		30			30	3													
IIAB3 Management of the investment process	30	15	15																		15	15		
IIAB4 Introduction to the labour market	30	15	15																		15	15		
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	35	25	5		5							25	5	5	2									Ī
IIAM5 Nature and Regional architecture in design process	40	20			20							20		20	2									Ī
IIAM6 Spatial and regional planning	45	15			30											15		30		3				Ī
IIAM7 Comprehensive Design Project (Integrating Aspects Of Technology, Sustainability, Research And Cultural Awareness In the Design Process)	60	15			45											15		45		4				Ī
IIAM8 Traditional, Vernacular and Historic Architecture	35	15			20											15		20		2				Ī
SPECIALISED COURSES																	<u>'</u>			,				
IIAS1 Protection of monuments and historical towns	40	25			15		25			15	2													I
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	30	15	15				15	15			2													
IIAS7a Architectural Design In Historical Context – Design studio																								Ī
IIAS7b Architectural Design In Environmental Context – Design studio	40	15			25							15		25	2									

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IIAS8 Week summer design studio /real case studies – object and landscape scale - conceptual design/	40	15		2	25						15		25	2									
IIAS9 Freehand Architectural Drawing/Urban sketching	20	10	10								10	10		1									
IIAS10 Architectural conservation studio	90	20	30	4	40						20	30	40	5									
IIAS11 Introduction Course on Theory and History of Conservation	75	50	25								50	25		4									
IIAS12 The Conservation Area and the Registered Landscape	30	15	15								15	15		2									
IIAS13a Aesthetics of Architecture	40	25	15								25	1 -		2									
IIAS13b Philosophy of architecture	40	25	15								25	15		2									
IIAS14 Museology and Museography	75	50	15		10						50	15	10	4									
IIAS15a Construction applied to Heritage	45	30	15												30	15			3				
IIAS15b Heritage Problems. Causes. Solutions	45	30	15												30	13			5				
IIAS16a Historical Building Adaptation to Modern Function	45	15		-	30										15		30		3				
IIAS16b Urban Design attracting Multicultural Travellers	45	15			50										13		30		3				
IIAS17 Sustainable Architecture and Eco-Design	45	15		3	30										15		30		3				
IIAS18 Methodological approach to conservation	45	30	15												30	15			2				
IIAS19 Sustainable Urban Design in World Heritage Sites	60	15		4	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		1
IIAS23 Sociology of the city	30	15	15																	15	15		2
IIAS24 Master Seminar - Research: Methods and Project	30				3	30												30	1				
IIAS25 Master diploma seminar	60				6	50																60	2
Total	1640	675	280	305	65 9	00	190 30	30	240	30	245	115	125	26	180	75	200	30	30	60	60	60	1
Apprenticeship (4 weeks)														4									2
Master thesis																							
	Total ECTS				<b>TS</b> 30 30								30	30									

# **Model programme of SURE:**

## Sustainable Urban Rehabilitation

# 2<sup>nd</sup> cycle studies 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

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