SYLLABUS

1. Data about the program of study

1.1	Institution	The Technical University of Cluj-Napoca
1.2	Faculty	Faculty of Building Services Engineering
1.3	Department	Building Services Engineering
1.4	Field of study	Civil Engineering and Building Services
1.5	Cycle of study	Master
1.6	Program of study/Qualification	Building Services for Regenerative Cities / MS Engineer
1.7	Form of education	Full time
1.8	Subject code	20.20

2. Data about the subject

2.1	Subject name				Local, National and European Policies		
2.2	Course responsible/lecturer				Lect.PhD.Eng. Cristina IACOB – cristina.iacob@insta.utcluj.ro		
2.3	Teachers in charge of seminars				Lect.PhD.Eng. Cristina IACOB – cristina.iacob@insta.utcluj.ro		
2.4	2.4 Year of study II 2.5 Semester 1			1	2.6 Assessment	Exam	
2.7 9	2.7 Subject Formative category			·		DS	
category Optional						DO	

3. Estimated total time

3.1 Number of hours per week	2	of which	3.2	1	3.3		3.3	1	3.3	
			Course		Seminar		Laboratory		Project	
3.4 Total hours in the curriculum	28	of which	3.5	14	3.6		3.6	14	3.6	
5.4 Total hours in the curriculum	20	or which	Course	ırse ¹⁴ Seminar Laboratory ¹⁴ Proje		Project				
3.7 Individual study:										
(a) Manual, lecture material and notes, bibliography							2	21		
(b) Supplementary study in the library, online and in the field								7		
(c) Preparation for seminars/laboratory works, homework, reports, portfolios, essays							1	LO		
(d) Tutoring								7		
(e) Exams and tests	(e) Exams and tests							2		
(f) Other activities										
3.8 Total hours of individual study (sum (3.7(a)3.7(f))) 47										
3.9 Total hours per semester (3.4+3.8) 75										
3.10 Number of credit points 3										

4. Pre-requisites (where appropriate)

	4.1	Curriculum	Bachelor's degree		
	4.2	Competence			
5	5 Requirements (where appropriate)				

5. Requirements (where appropriate)

5.1	For the course	Classroom equipped with Video Projector - 21 December 1989 Blvd., no. 128-130
	For the applications	Classroom equipped with Video Projector - 21 December 1989
5.2	Seminar / laboratory /	Blvd., no. 128-130
	project	

6. Specific competences

	Acquiring theoretical knowledge about:				
	 local, national and EU institutions and legislation 				
	- policymaking in the EU				
	- the EU budget, programmes and projects				
	- the EU cohesion policy and structural and investment funds				
	- national and EU regional and urban development strategies				
— S	- policy and management of water resources, wastewater and energy with respect to				
ona	sustainable development				
ssid ete	Acquired skills:				
Professional	- a solid understanding of current policies, strategies, institutions and regulations in the major				
P. P.	areas of building services				
	- the ability to monitor changes in rules, policies and legislation and to identify how they may				
	affect the organization, existing operations or, in some cases, a specific situation.				
	- the ability to promote the use of renewable sources, energy efficient and clean equipment and				
	technologies				
	- the ability to analyze and interpret data, to verify compliance with current regulations				
	- preparing the documentation for financing applications for development / investment projects				
	in different areas of building services				
6	- Adapting to new technologies, professional and personal development, using printed				
JCE	documentation sources, specialized software and electronic resources in an international				
eter	language.				
du	- Team development of a project - the ability to synthesize and clearly define the activities of				
Cross competences	each team member, ensuring the efficient exchange of information and knowledge and				
ros	interpersonal communication.				
0	- Use of ICT technologies				

7. Discipline objectives (as results from the key competences gained)

7.1	General objective	A comprehensive understanding of current policies, strategies, institutions and regulations in the major areas of building services
7.2 Specific objectives	To be acquainted with the technical framework and the legislation in the field of building services in correlation with the specific international regulations To analyze and synthesize existing information on installation earthquakes	
		To use methods and programs to transmit information To be familiar with the recent technical and scientific achievements and the national and international tendencies for the development of the field

8. Contents

8.1. Lecture (syllabus)	Number of hours	Teaching methods	Notes
1. Local, National and EU Institutions and Legislation	2	Presentation,	
2. Policymaking in the EU. Transposition and	2	discussions and	
Implementation		case studies	

3. The EU Budget, Programmes and Projects. EU Cohesion	2
Policy and Structural and Investment Funds	
4. National and EU Regional and Urban Development	2
Strategies.	
5. Water Resources Policy and Management	2
6. Wastewater Policy and Management.	2
7. Energy Strategies. Energy Efficiency – Targets, Directives	2
and Rules.	

Bibliography

Policies and Policy Processes of the European Union - Laurie Buonanno, Neill Nugent, Macmillan International Higher Education, 2013

Environmental Policy in the EU: Actors, Institutions and Processes- Andrew Jordan, Taylor & Francis 2nd Edition, 2012

https://europa.eu/european-union/law_en

https://www.europarl.europa.eu/factsheets/en/home

https://www.europarl.europa.eu/factsheets/en/section/193/environment-policy

https://ec.europa.eu/regional_policy/en/funding/

Strategia Națională pentru Dezvoltare Durabilă a României Orizonturi 2013-2020-2030, Guvernul României, Ministerul Mediului și Dezvoltării Durabile - București 2008

Strategia energetică a României 2020-2030, cu perspectiva anului 2050 - Ministerul Economiei Energiei Și Mediului de Afaceri

The Transposition of EC Directives: A Comparative Study of Instruments, Techniques and Processes in Six EU Member States - Steunenberg, B., Voermans, W. J., 2006.

Carta de la Lisabona. Ghid privind reglementări și politici publice în domeniul serviciilor de alimentare cu apă potabilă, canalizare și managementul apelor uzate -International Water Association, 2015

8.2. Seminar /Laboratory/Project	Number	Teaching	Notes
	of hours	methods	
1. The main European and national regulations in the field	2		
of water and energy - applications and case studies.			
2. Preparing the documentation for financing applications	2		
for development projects in the sectors of drinking water			
supply systems and collection and treatment of urban			
wastewater.			
3. Preparing the documentation for financing applications	2		
for development / investment projects in the electricity		Presentation,	
and gas transmission systems sector.		discussions and	
4. Preparing the documentation for financing applications	2	case studies	
for development / investment projects in the renewable			
energy sector and increasing energy efficiency.	2	-	
5. Preparing the documentation for financing applications for development / investment projects in the sector of	2		
central heating systems.			
6. Presentation of an IT system for electronic data	2	4	
exchange between beneficiaries and authorities for			
coordination, management and control of the Structural			
and Investigation Funds (MySims)			
7. Evaluation of practical work.	2		

Bibliography

https://europa.eu/european-union/law_en https://www.europarl.europa.eu/factsheets/en/home https://www.europarl.europa.eu/factsheets/en/section/193/environment-policy https://ec.europa.eu/regional_policy/en/funding/ Strategia Naţională pentru Dezvoltare Durabilă a României Orizonturi 2013-2020-2030, Guvernul României, Ministerul Mediului și Dezvoltării Durabile - București 2008 Strategia energetică a României 2020-2030, cu perspectiva anului 2050 - Ministerul Economiei Energiei Și Mediului de Afaceri Carta de la Lisabona. Ghid privind reglementări și politici publice în domeniul serviciilor de alimentare cu apă potabilă, canalizare și managementul apelor uzate -International Water Association, 2015 https://www.anre.ro/ro/energie-termica/legislatie1580310091 https://www.anre.ro/ro/energie-electrica/legislatie https://www.anre.ro/ro/gaze-naturale/legislatie https://www.anre.ro/ro/eficienta-energetica/legislatie

9. Bridging course contents with the expectations of the representatives of the community, professional associations and employers in the field

The acquired competencies will be necessary for the employees who carry out their activity in design, execution and maintenance.

10. Evaluation

Activity type	10.1 Assessment criteria	10.2 Assessment methods	10.3 Weight in the final grade			
10.4 Course	Evaluating the theoretical and practical knowledge acquired	Written test	80%			
10.5 Seminars /Laboratory/Project	Evaluation of knowledge and abilities acquired during class practical activities.	Oral examination	20%			
10.6 Minimum standa	rd of performance					
Students must pass the laboratory test for the final exam. The components of the final grade are Exam (E) and Laboratory (L). Thus, the formula for the final grade of this subject is $N = 0.8xE + 0.2xL$. The 3 credits are obtained only if N≥5, where both E≥5 and L≥5.						

Date of filling in:		Title Surname Name	Signature
11.06.2025	Lecturer	Lect.PhD.Eng. Cristina IACOB	
	Teachers in charge of application	Lect.PhD.Eng. Cristina IACOB	

Date of approval in the Department of Building Services	Head of department
Engineering	Assoc.Prof.PhD.Eng. Ciprian BACOŢIU
19.06.2025	
Date of approval in the Council of the Faculty of Building	Dean
Services Engineering	Assoc.Prof.PhD.Eng. Florin DOMNIŢA
19.06.2025	