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	20.10

2. Data about the subject

2.1	Subject name				Project Manageme	nt	
2.2	Course responsible/lecturer				Eng. Geapana Izabella		
2.3	Teachers in charge of seminars				Eng. Geapana Izabella		
2.4 Year of study 2 2.5 Semester 1		2.6 Assessment	Exam				
2.7 Subject Formative category				·	·	DS	
category Optional						DO	

3. Estimated total time

3 1 Number of hours per week	2	2 of which	3.2	1	3.3		3.3	1	3.3	3	
S.1 Number of hours per week	Z		Course	Ţ	Seminar		Laboratory	L.	Proj	ect	
2.4 Total bours in the surriculum	20	ofwhich	3.5	11	3.6		3.6	11	3.	ô	
5.4 Total hours in the curriculum	20	or which	Course	14	Seminar		Laboratory	14	Proj	ect	
3.7 Individual study:											
(a) Manual, lecture material and notes, bibliography							1	4			
(b) Supplementary study in the library, online and in the field							1	4			
(c) Preparation for seminars/laboratory works, homework, reports, portfolios, essays								1	4		
(d) Tutoring							(1)	3			
(e) Exams and tests										2	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
1.2 Compose	Compotonco	Project development principles; Risk assessment principles;
4.Z		Communication principles;

5. Requirements (where appropriate)

		Classroom equipped with Video Projector - 21 December 1989
5.1	For the course	Blvd., no. 128-130
		Alternatively, ONLINE on UTCN's TEAMS platform.

	For the applications	Room equipped with Video Projector and whiteboard/blackboard-
5.2	Seminar / laboratory /	21 December 1989 Blvd., no. 128-130
	project	Alternatively, ONLINE on UTCN's TEAMS platform.

6. Specific competences

		Theore	etical knowledge:
		-	Specific notions of project lifecycle;
		-	Specific notions of management;
		-	Specific notions of cost analysis.
_	S	Acquir	ed skills:
ona	nce	-	To score the projects based on the regenerative urban development framework criteria;
essic	oete	-	To evaluate the project quality;
rofe	dmc	-	To evaluate the project feasibility;
_ ₽	č	-	To evaluate the project cost efficiency;
		-	To evaluate the project impact.
		Skills a	icquired:
		-	To propose projects in line with circular economy and regenerative urban development
			framework.
	es	To der	nonstrate the capacity for analysis and synthesis in a multi-stakeholder project context.
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7. Discipline objectives (as results from the key competences gained)

		Development of skills in the field of project evaluation
7.1	General objective	understand the impact of their specialty on complex
		interdisciplinary projects at every stage of the project lifecycle.
		To Establish the criteria and assumptions of regenerative project
		requirements;
	Specific objectives	To identify the phases of the project management life cycle and
		the necessary steps, resources and documentations for
7 2		supporting the project;
1.2		To use the basic concepts to evaluate interdisciplinary projects
		based on regenerative principles;
		To use project management tools and methods to communicate
		relevant information during all phases of a project with various
		stakeholders.

8. Contents

8.1. Lecture (syllabus)	Number of hours	Teaching methods	Notes
1. Introduction in Project Lifecycle processes and how they apply to regenerative design	2	Video-Projector	

		-	
2. Feasibility and Pre-FEED analysis based on regenerative	2	Teaching style	
principles		based on the	
3. FEED phase of complex projects and mapping out all	2	interactive	
stakeholders		teacher-	
4. Design phase in a closed loop approach and quality	2	student	
management plan		partnership;	
5. Execute phase and prerequisites for implementation in	2	Alternatively	
the regenerative urban development framework		ONLINE on	
6. Operating complex projects and change management	2	UTCN's TEAMS	
7. Decommission and maximize reuse at end of life of the	2	platform	
projects			
Bibliography:			
1.A guide to the project management body of knowledge, E	d. Newton S	quare: Project Ma	nagement
Institute, 2013;			
2. Project management: a systems approach to planning, sch	neduling, an	d controlling; Harc	old Kerzner,
Ed. John Wiley and Sons, 2013;			
3. <u>https://www.worldfuturecouncil.org/wp-</u>			
content/uploads/2016/01/WFC_2010_Regenerative_Citie	es.pdf		
https://www.worldfuturecouncil.org/wp-			
content/uploads/2016/01/WFC_2014_Regenerative_Urba	an_Develop	ment_A_Roadmap	to_the_City
_We_Need.pdf			
4. https://issuu.com/world.bank.publications/docs/9781464	180473 <u>1</u>		
https://issuu.com/msc.exhibition2019/docs/190902_thes	sis_final_sing	<u>gle_pages</u>	
https://www.projectsmart.co.uk/white-papers.php			
5. <u>https://www.pmi.org/business-solutions/white-papers</u>			
0.2. Cominen /Leberstern /Dreiset	Number	Teaching	Notos
8.2. Seminar / Laboratory/Project	of hours	methods	Notes
1. Project ideas and working groups designation, cost	2	Teaching style	
efficiency principles		based on the	
2. Project economic feasibility evaluation results and	2	interactive	
impact criteria selection		teacher-	
3. Project stakeholder mapping and FEED evaluation	2	student	
4. Project quality plan and correspondence with design	2	partnership;	
documents		Student	
5. Project management tools and their application to a	2	presentation of	
change management scenario		evaluations on	
6. Project end of life scenarios and reuse option for the	2	the selected	
involved materials		projects.	
7 Project conclusion presentations	2	_	
Ribliography			
1 https://ec.europa.eu/environment/gan/lec.htm			
2 https://ec.europa.eu/environment/gpp//cc.num	n-Handbook	-3rd-Edition adf	
3 https://sppregions.eu/fileadmin/usor_upload/Life_Cuclo	Costing So	N Report pdf	
JIIIID JIII JULIA CONTRACTION STATES AND A CONTRACT	CUSLINE 30/		

4.<u>https://ec.europa.eu/regional_policy/sources/docgener/studies/pdf/cba_guide.pdf</u>

5.<u>https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:52020DC0098&from=EN</u> 6.<u>https://www.pmi.org/learning/library/practical-quality-management-project-managers-16</u>

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 complex interdisciplinary context for understanding the impact of their own specialty on the project at every phase of the project management life cycle.

10. Evaluation

	10.1 Accossment criteria	10.2 Assessment methods	10.3 Weight in the			
Activity type	10.1 Assessment criteria	10.2 Assessment methods	final grade			
	The exam consists in					
10.4 Course	verifying the theoretical	Oral ovam	20%			
10.4 Course	and practical knowledge		20%			
	acquired					
	Completion and					
10.5 Seminars	submission of project	Submission of project	800/			
/Laboratory/Project	evaluation - conditions	evaluation	80%			
	the entrance to the exam.					
10.6 Minimum standard of performance						
Participation in the laboratory conditions the entrance to the exam.						
Exam grade components (E); Laboratory (L); Calculation formula of the grade G = $0.2 \times E + 0.8 \times L$						
Condition for obtainin	g credits: G> 5.0; where E> 5.	0, L> 5.0				

Date of filling in:		Title Surname Name	Signature
11.06.2025	Lecturer	Eng. Izabella GEAPANA	
	Teachers in charge of application	Eng. Izabella GEAPANA	

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 Services	Dean
Engineering	Assoc.prof.phd.eng. Florin DOMNIŢA
19.06.2025	