

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	25.00

2. Data about the subject

2.1	Subject name				Presentation of Dissertation			
2.2	Course responsible/lecturer				-			
2.3	Teachers in charge				Prof.PhD.Eng. Dorin BEU			
2.4	Year of study	II	2.5	Semester	II	2.6	Assessment	Exam
2.7 Subject category		Formative category						DS
		Optional						DI

3. Estimated total time

3.1 Number of hours per week		of which	3.2 Course		3.3 Seminar		3.3 Laboratory		3.3 Project	
3.4 Total hours in the curriculum		of which	3.5 Course		3.6 Seminar		3.6 Laboratory		3.6 Project	
3.7 Individual study:										
(a) Manual, lecture material and notes, bibliography										-
(b) Supplementary study in the library, online and in the field										-
(c) Preparation for seminars/laboratory works, homework, reports, portfolios, essays										-
(d) Tutoring										-
(e) Exams and tests										-
(f) Other activities										-
3.8 Total hours of individual study (sum (3.7(a)...3.7(f)))										
3.9 Total hours per semester (3.4+3.8)										
3.10 Number of credit points					10					

4. Pre-requisites (where appropriate)

4.1	Curriculum	Knowledge gained in the subjects of the curriculum
4.2	Competence	Knowledge gained in the subjects of the curriculum

5. Requirements (where appropriate)

5.1	For the course	
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5.2	For the development of dissertation thesis presentation	Faculty of Building Services Engineering, 21 December 1989 no 128-130
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6. Specific competences

Professional competence	After defending the dissertation, the graduates acquire knowledge in design, execution and project management in the field of specialized disciplines, having the possibility to elaborate technical projects and execution details in the field approached in the dissertation.
Cross competences	Efficient use of information sources, communication resources and assisted professional training (Internet portals, specialized software applications, databases, online courses, etc.) both in an international circulation language.

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

7.1	General objective	✓ To design programs and perform practical activities to evaluate the functional energy performance of different categories of installations.
7.2	Specific objectives	<ul style="list-style-type: none"> • To know the recent technical and scientific achievements and the national and international trends for the development of the field; • To know in depth the role and behavior of equipment and installation systems corresponding to functional requirements; • To use specialized calculation methods and programs for modeling installation systems and simulating their behavior in different functional hypotheses; • To apply techniques for measuring functional parameters, to process and interpret the results of measurements for different categories of installations; • Prepare projects and reports for field-specific programs.

8. Contents

8.1. Theme area	Number of hours	Teaching methods	Notes
-			
8.2. Applications	Number of hours	Teaching methods	Notes
-			
Bibliography			
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9. Bridging course contents with the expectations of the representatives of the community, professional associations and employers in the field

The content of the discipline is correlated with the needs of the employers in the field of building services engineering, as well as adjacent fields, the graduate of this university module having employment possibilities, according to COR and ISCO08:
 214206 construction building services engineer; 214235 specialist in monitoring the behavior of constructions; 2142.1.7 07 pipeline engineer; 2142.1.11 water engineer; 2142.1.5 hydropower engineer; 2142.1.3 drainage engineer; 214234 facility manager; 214239 technically responsible with execution.

10. Evaluation

Activity type	10.1 Assessment criteria	10.2 Assessment methods	10.3 Weight in the final grade
10.4 Course	-		
10.5 Applications	Knowledge of the current stage of the topic Personal contributions to the dissertation Defence of the dissertation thesis	Defence of the dissertation thesis	50% dissertation thesis 50% presentation
10.6 Minimum standard of performance			
Final grade for the dissertation ≥ 6			

Date of filling in:		Title Surname Name	Signature
10.06.2025	Lecturer		
	Teachers in charge of application	Prof.PhD.Eng. Dorin BEU	

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