

SYLLABUS

1. Data about the program of study

1.1	Institution	The Technical University of Cluj-Napoca
1.2	Faculty	Faculty of Civil Engineering
1.3	Department	Constructii civile si management
1.4	Field of study	Civil Engineering
1.5	Cycle of study	Bachelor of Science
1.6	Program of study/Qualification	Civil, Industrial and Agricultural Buildings /Engineer (English language)
1.7	Form of education	Full time
1.8	Subject code	40.0

2. Data about the subject

2.1	Subject name				Management in constructii I						
2.2	Course responsible/lecturer				Sl.Dr.Ing. Roman-Pintican Maria-Nicoleta-Nicoleta.Roman@ccm.utcluj.ro						
2.3	Teachers in charge of seminars				Asist.Dr.Ing. Istoan Raluca-Raluca.ISTOAN@ccm.utcluj.ro						
2.4	Year of study	3	2.5	Semester	1	2.6	Assessment	C	2.7	Subject category	DID/DI

3. Estimated total time

3.1	Number of hours per week	3	3.2	of which, course:	2	3.3	applications:	
3.4	Total hours in the curriculum	42	3.5	of which, course:	28	3.6	applications:	
Individual study								hours
Manual, lecture material and notes, bibliography								11
Supplementary study in the library, online and in the field								10
Preparation for seminars/laboratory works, homework, reports, portfolios, essays								10
Tutoring								0
Exams and tests								2
Other activities								0
3.7	Total hours of individual study		33					
3.8	Total hours per semester		75					
3.9	Number of credit points		3					

4. Pre-requisites (where appropriate)

4.1	Curriculum	
4.2	Competence	

5. Requirements (where appropriate)

5.1	For the course	Passing the exam „Technology of constructions (I), Technology constructions (II)”
5.2	For the applications	Classroom with computers, software packages (for estimations and planning the construction works). The timeline for delivering the application project is mutually agreed with the students.

		Class attendance is mandatory.
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6. Specific competences

Professional competences	<ul style="list-style-type: none"> - to understand the importance of management in constructions - to understand the management's functions - to understand the importance of estimation in construction projects - to understand the importance of norms in constructions <p>After studying the discipline, the students will be able:</p> <ul style="list-style-type: none"> - to prepare a feasibility study - to use the norms for price estimation - to estimate the resources for a construction project <p>After studying the discipline, the students will be able:</p> <ul style="list-style-type: none"> - to make a project estimation using INTELSOFT - to make a price analyse - to optimize the costs of a construction project
Cross competences	<p>CT1 Applying responsibly the principles, norms and values of professional ethics in carrying out the professional tasks and identifying the objectives to be achieved and the stages of work.</p> <p>CT2 Identifying roles and responsibilities in a multidisciplinary team and applying effective relationship and work techniques within the team.</p>

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

7.1	General objective	Developing the competencies regarding the price estimation in constructions
7.2	Specific objectives	Accomplishing theoretical knowledges concerning price estimation in constructions.

8. Contents

8.1. Lecture (syllabus)	Teaching methods	Notes
1. Introduction to management in constructions	Presentation, discussions	-
2. The investment process: phases, parties, pre-feasibility study		
3. The feasibility study, approvals, agreements, planning certificate		
4. Technical project for the construction works. Building approval.		
5. Public works bidding.		
6. Economic documentation for construction works. Particularities of prices in constructions.		
7. Phases in forming the price for construction works. Estimate norms indicators. Corrected norms. Local norms.		
8. Pre-estimation. List of quantities. Resources lists.		
9. Unit prices for estimation articles: materials, workforce, equipment		

10. Evaluations for transport costs, manual or mechanized handling of materials. Alternative methods for estimation unit prices.		
11. Estimations in construction works. Estimations softs: INTELSTOFT.		
12. Workforce norms: definition, types, time and production norms.		
13. The structure of the norms. Governmental norms. Local norms.		
14. Combined norms		
Bibliography Bibliography Anastasiu, L., – Course notes Chioresan, T., – Prețul lucrărilor de construcții, UTPress 2004, Cluj-Napoca Hossu, T. și colectiv, – Managementul firmelor de construcții, UTPress 2002, Cluj-Napoca		
8.2. Applications/Seminars	Teaching methods	Notes
1. Subject presentation: economic documentation for a building	Presentation, discussions	-
2. List of activities. Technological report		
3. Framing the activities in the estimation indicators		
4. Developing the pre-estimation		
5. Developing the pre-estimation		
6. Developing the pre-estimation		
7. Presentation of the work		
11. Estimations in construction works. Estimations softs: INTELSTOFT.		
Bibliography Bibliography 1. Legislație în construcții, Normele de aplicare ale legii: Indicatoarele de norme de deviz pentru lucrări de construcții, I.N.D. 1981 și următoarele. 2. Mihaela Dumitran, Managementul construcțiilor I – Îndrumător de lucrări, UTPRESS 2014 3. Studiu pe internet a metodelor/tehnologiilor/echipamentelor din construcții specifice managementului în construcții, colectare de date privind costurile		

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

The acquired competences will help the employees who work in design or execution companies (site works or supplying).

10. Evaluation

Activity type	10.1 Assessment criteria	10.2 Assessment methods	10.3 Weight in the final grade
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10.4 Course	Grid test and quick answer questions	Written test (theory)	70%
10.5 Applications	Delivery of the project.	Project evaluation	30%
10.6 Minimum standard of performance			
-- Project evaluation: Minimum grade for project evaluation must be 5.			
-- Theory: Minimum grade for each of the two subjects must be 5.			

Date of filling in:		Title Surname Name	Signature
	Lecturer	Sl.Dr.Ing. Roman-Pintican Maria-Nicoleta	
	Teachers in charge of application	Asist.Dr.Ing. Istoan Raluca	

Date of approval in the department	Head of department conf.dr.ing. Caludiu ACIU
20/06/2025	
Date of approval in the faculty	Dean prof.dr.ing Daniela MANEA
25/06/2025	