

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	Structural Mechanics
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	24.0

2. Data about the subject

2.1	Subject name				Desen tehnic si infografica II						
2.2	Course responsible/lecturer										
2.3	Teachers in charge of seminars										
2.4	Year of study	2	2.5	Semester	1	2.6	Assessment	C	2.7	Subject category	DF/DI

3. Estimated total time

3.1	Number of hours per week	2	3.2 of which, course:	-	3.3 applications:	
3.4	Total hours in the curriculum	28	3.5 of which, course:	-	3.6 applications:	
Individual study						hours
Manual, lecture material and notes, bibliography						17
Supplementary study in the library, online and in the field						8
Preparation for seminars/laboratory works, homework, reports, portfolios, essays						17
Tutoring						2
Exams and tests						3
Other activities						0
3.7	Total hours of individual study		47			
3.8	Total hours per semester		75			
3.9	Number of credit points		3			

4. Pre-requisites (where appropriate)

4.1	Curriculum	“Descriptive Geometry” and “Technical drawing and Infographics I” classes passed; Computer programming classes passed.
4.2	Competence	N/A

5. Requirements (where appropriate)

5.1	For the course	N/A
5.2	For the applications	Cluj-Napoca, Observatorului Street No. 72-74 – Classrooms equipped with computers: O204, O209

8.2. Applications/Seminars	Teaching methods	Notes
Representation of steel elements and constructions. Presenting the main provisions of the standards relating to: lines used in industrial drawing, scales, the conventional representation of materials, dimensioning. Representation of rolled sections and types of joints.	"Graphical, interactive solution of applications, presentation of the theoretical basis	Videoprojector
Representation and dimensioning of steel constructions. Bolted joint. Base of a steel column. Sections.		
Representation and dimensioning of steel constructions. Welded joint. Joint detail metal girder. Sections.		
DESIGN DRAWING. The conventional representation of joinery (windows, doors); the representation and dimensioning of different openings; the representation of stairways.		
DESIGN DRAWING. Drawing of a residential building B+GF+1F. Building axes. Drawing the ground floor plan.		
DESIGN DRAWING. Building B+GF+1F. Ground Floor Plan.		
DESIGN DRAWING. Building B+GF+1F. Foundation Plan. Foundation Details.		
DESIGN DRAWING. Building B+GF+1F. Basement Plan.		
DESIGN DRAWING. Building B+GF+1F. 1st Floor Plan.		
DESIGN DRAWING. Building B+GF+1F. Terrace Plan. Parapet Wall Detail. Drainage Detail.		
DESIGN DRAWING. Building B+GF+1F. Longitudinal section – 1st floor, staircase, terrace.		
DESIGN DRAWING. Building B+GF+1F. Cross section– foundations, basement, ground floor, staircase.		
DESIGN DRAWING. Building B+GF+1F. Cross section – 1st floor, staircase, terrace.		
Bibliography "Bibliography In the TUC-N library: 1. Delia Drăgan, Raluca Nerișanu, Adrian Tudoreanu: Civil Engineering Graphics-Grafică inginerască pentru Construcții, 2nd Edition, bilingual edition, Publisher U.T.Press Cluj-Napoca, 2019. 2. Delia Drăgan, Raluca Nerișanu, Adrian Tudoreanu: Civil Engineering Graphics-Grafică inginerască pentru Construcții, 2nd Edition, bilingual edition, Publisher U.T.Press Cluj-Napoca, 2017. 3. Delia Drăgan, Raluca Nerișanu: Civil Engineering Graphics-Grafică inginerască pentru Construcții, bilingual edition, Publisher U.T.Press Cluj-Napoca, 2014. 4. Delia Drăgan, Radu Dardai, Dorin Bărbîntă, Claudia Alb, Raluca Nerișanu: Desen Tehnic și Infografică pentru Construcții, Civil Engineering Technical Drawing and Infographics, bilingual edition, Publisher U.T. Press Cluj-Napoca, 2011. 5. Vasile Iancău, Elena Zetea, ș.a. - Reprezentări geometrice și desen tehnic, București E.D.P., 1982. 6. *** Current Standards."		

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

Acquired skills will be required for employees who will work in design offices and for those who will work in execution.

10. Evaluation

Activity type	10.1 Assessment criteria	10.2 Assessment methods	10.3 Weight in the final grade
10.4 Course	The drawings made during the semester are corrected and scored (L).	Attendance and participation in the classes. Presentation of the album of drawings (portfolio of drawings).	50%
10.5 Applications	The final exam consists in solving some applications closely related with the topics tackled during the semester (C).	Final oral and written exam, with a duration of 2 hours (using AutoCad)	50%
10.6 Minimum standard of performance			
<p>"NOTES: 1. The evaluation will be done onsite; 2. The teacher who is in charge with the workshop may decide that the written examinations / exams be followed by an oral presentation. Those who do not participate at the oral presentations lose their right to appeal." "(a) The eligibility conditions for taking part to the exam: *The grade for the workshops (written in the electronic classbook): L: min. 5 (five) ** It is required to make a portfolio of drawings and a sketchbook. The grade for the exam: C: min. 5 (five)" "The formula for obtaining the grade (N)" $N=0,5L+0,5C$; Condition for obtaining the credits: $N \geq 5$, if $L \geq 5$ and $C \geq 5$."</p>			

Date of filling in:		Title Surname Name	Signature
	Lecturer		
	Teachers in charge of application		

Date of approval in the department	Head of department conf.dr.ing. Anca-Gabriela POPA
19/06/2025	
Date of approval in the faculty	Dean prof.dr.ing Daniela MANEA
25/06/2025	