SYLLABUS

1. Data about the program of study

1.1 Institution	The Technical University of Cluj-Napoca
1.2 Faculty	Faculty of Automation and Computer Science
1.3 Department	Computer Science
1.4 Field of study	Computer Science and Information Technology
1.5 Cycle of study	Bachelor of Science
1.6 Program of study / Qualification	Computer science / Engineer
1.7 Form of education	Full time
1.8 Subject code	59.00

2. Data about the subject

2.1 Subject name				***Graduation project defense***	
2.2 Course responsible / lecturer				Diploma project supervisor	
2.3 Teachers in charge of seminars / laboratory / project				As decided by the supervisor	
2.4 Year of study	IV	2.5 Semester	2	2.6 Type of assessment (E - exam, C - colloquium, V - verification)	E
2.7 Subject category	*DF – fundamentală, DD – în domeniu, DS – de specialitate, DC – complementară*				DS
	DI – Impusă, DOp – opțională, DFac – facultativă				DI

3. Estimated total time

3.1 Number of hours per week	-	of which:	Course		Seminars		Laboratory		Project	
3.2 Number of hours per semester	-	of which:	Course		Seminars		Laboratory		Project	
3.3 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:										

3.4 Total hours of individual study (suma (3.3(a)…3.3(f)))	
3.5 Total hours per semester (3.2+3.4)	
3.6 Number of credit points	10

4. Pre-requisites (where appropriate)

4.1 Curriculum	Graduating all previous disciplines from the curricula
4.2 Competence	

5. Requirements (where appropriate)

5.1. For the course	
5.2. For the applications	

6. Specific competence

6.1 Professional competences	Graduates will have the following specific skills: • modeling and designing software and hardware sub-systems, making the best decisions regarding the costs-results trade-off concerning the design decisions • implementing a hardware or software system • analyzing the way a computing system meets the criteria for which it was designed and proposing improvements and future developments demonstrating the knowledge and understanding of important concepts, principles and theories of computer science and engineering • identifying and analyzing specific problems and elaborating strategies for solving them • assuring the quality of products and services in the field of information technology using the information technology tools
6.2 Cross competences	N/A

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

7.1 General objective	Defense of Diploma Thesis
7.2 Specific objectives	

8. Contents

8.1 Lectures	Hours	Teaching methods	Notes
Bibliography			
8.2 Applications – Seminars/Laboratory/Project	Hours	Teaching methods	Notes
• study of the bibliography in order to see how actual and necessary the project is • comparative analysis of the existing products and systems • comparative analysis of the potential methodologies and/or technologies • preparation of the project specifications • implementation and deployment of the hardware or software system • product testing and validation • product documenting • assessment of results, possible further developments, original aspects, advantages and limits of solution			
Bibliography For the diploma thesis preparation, the references are those recommended by the supervisor, as well as those obtained by studying the bibliography. For fundamental and specific knowledge assessment, the bibliography is identical to the minimal bibliography for the each of the undergraduate courses			

**Se vor preciza, după caz: tematica seminariilor, lucrările de laborator, tematica și etapele proiectului.*

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

10. Evaluation

Activity type	Assessment criteria	Assessment methods	Weight in the final grade
Course	-	-	-
Seminar	-	-	-

Laboratory	-	-	-
Project		Separate marks - for the diploma presentation and defending (P) - for the assessment of fundamental and specific knowledge (K)	100%
Minimum standard of performance: Exam average mark: M = (P + K) / 2 Condition to get the credits: P ≥ 5,00 ; K ≥ 5,00; M ≥ 6,00			

Date of filling in:	**Teachers**	**Title First name Last name**	**Signature**
10.06.2024	Course	Diploma project supervisor	
	Applications		

Date of approval in the department 20.02.2024	Head of department, Prof.dr.eng. Rodica Potolea
Date of approval in the Faculty Council 22.02.2024	Dean, Prof.dr.eng. Mihaela Dînșoreanu