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	57.

2. Data about the subject

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

3. Estimated total time

3.1 Number of hours per week	4	of which:	Course		Seminars	Laboratory		Project	4
3.2 Number of hours per	56	of which:	Course		Cominaro	Laboratory		Droinst	56
semester	30	or writeri.	Course		Seminars	Laboratory		Project	30
3.3 Individual study:									
(a) Manual, lecture material and notes, bibliography									
(b) Supplementary study in the library, online and in the field						54			
(c) Preparation for seminars/laboratory works, homework, reports, portfolios, essays									
(d) Tutoring									
(e) Exams and tests						2			
(f) Other activities:									
								•	

3.4 Total hours of individual study (suma (3.3(a)3.3(f)))	44
3.5 Total hours per semester (3.2+3.4)	100
3.6 Number of credit points	4

4. Pre-requisites (where appropriate)

4.1 Curriculum	
4.2 Competence	

5. Requirements (where appropriate)

5.1. For the course	
5.2. For the applications	

6. Specific competence

6.1 Professional competences	C4 - Improving the performances of the hardware, software and			
	communication systems (2 credits)			
	C4.1 - Identifying and describing the defining elements of the performances of			
	the hardware, software and communication systems			
	C4.2 - Explaining the interaction of the factors that determine the			
	performances of the hardware, software and communication systems			
	C4.3 - Applying the fundamental methods and principles for increasing the			
	performances of the hardware, software and communication systems			

	C4.4 - Choosing the criteria and evaluation methods of the performances of
	the hardware, software and communication systems
	C4.5 - Developing professional solutions for hardware, software and
	communication systems based on performance optimization
	C5 - Designing, managing the lifetime cycle, integrating and ensuring the
	integrity of hardware, software and communication systems (2 credits)
	C5.1 - Specifying the relevant criteria regarding the lifetime cycle, quality,
	security and the computing system's interaction with the environment and the
	human operator
	C5.2 - Using interdisciplinary knowledge for adapting the computing system to
	the specific requirements of the application field
	C5.3 - Using fundamental principles and methods for ensuring the security, the
	safety and ease of exploitation of the computing systems
	C5.4 - Proper utilization of the quality, safety and security standards in the field
	of information processing
	C5.5 - Creating a project including the problem's identification and analysis, its
	design and development, also proving an understanding of the basic quality
	requirements
	C6 - Designing intelligent systems (2 credit)
	C6.1 - Describing the components of intelligent systems
	C6.2 - Using domain-specific tools for explaining and understanding the
	functioning of intelligent systems
	C6.3 - Applying the fundamental methods and principles
	for specifying solutions for typical problems using intelligent systems
	C6.4 - Choosing the criteria and evaluation methods for the quality,
	performances and limitations of intelligent systems
	C6.5 - Developing and implementing professional projects for intelligent
6.2.6	systems
6.2 Cross competences	CT1 Honorable, responsible, ethical behavior, in the spirit of the law, in order
	to ensure the professional reputation (1 credit)
	CT2 Identifying, describing and conducting processes in the projects
	management field, assuming different roles inside the team and clearly and
	concisely describing, verbally or in writing, in Romanian and in an international
	language, the results from the activity field. (1 credit)
	CT3 Demonstrating the spirit of initiative and action for updating professional,
	economical and organizational culture knowledge (1 credit)

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

7.1 General objective	
7.2 Specific objectives	

8. Contents

8.1 Lectures	Hours	Teaching methods	Notes		
Bibliography					
-					
8.2 Applications – Seminars/Laboratory/Project	Hours	Teaching methods	Notes		
Establish the topic of the diploma project					
• Establish the main chapters of the diploma thesis					
Documentation on the topic of the diploma thesis					
Write a synthesis of the bibliographic study					
Bibliography					
To be established by the supervisor of the diploma thesis.					

^{*}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		The examination consists of the verification of the preliminary contents of the diploma work and the verification of the synthesis of the bibliographic study	100%
Minimum standard	d of performance: Note=5		

Date of filling in:	Teachers	Title First name Last name	Signature
28.06.2023	Course	Diploma project supervisor	
	Applications		

Date of approval in the department	Head of department, Prof. dr. ing. Rodica Potolea
Date of approval in the Faculty Council	Dean, Prof. dr. ing. Liviu Miclea