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	52.

2. Data about the subject

2.1 Subject name				***Project Elaboration Methodology***	
2.2 Course responsible/lecturer				Assoc. prof. dr. eng. Tudor Muresan - Tudor.Muresan@cs.utcluj.ro	
2.3 Teachers in charge of seminars/ laboratory/ project				-	
2.4 Year of study	IV	2.5 Semester	8	2.6 Type of assessment (E - exam, C - colloquium, V - verification)	C
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	2	of which:	Course	2	Seminars		Laboratory		Project	
3.2 Number of hours per semester	28	of which:	Course	28	Seminars		Laboratory		Project	
3.3 Individual study:										
(a) Manual, lecture material and notes, bibliography										20
(b) Supplementary study in the library, online and in the field										28
(c) Preparation for seminars/laboratory works, homework, reports, portfolios, essays										20
(d) Tutoring										
(e) Exams and tests										4
(f) Other activities:										

3.4 Total hours of individual study (suma (3.3(a)…3.3(f)))	72
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	**C5 -** Designing, managing the lifetime cycle, integrating and ensuring the integrity of hardware, software and communication systems **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
6.2 Cross competences	N/A

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

7.1 General objective	1. Ability to write a project proposal 2. Ability to search literature and critical evaluation 3. Ability to use related work and technical reports 4. Ability to write literature reviews 4. Ability to write project documentation 5. Ability for oral presentation
7.2 Specific objectives	

8. Contents

8.1 Lectures	Hours	Teaching methods	Notes
Introduction - Computing project types	2	Using modern teaching methods and internet acces	
Choosing the project	2		
Preparing a project proposal	2		
Research and research process	2		
Research methods	2		
Literature search and review	2		
The report	2		
Structuring the report	2		
Writing the report	2		
Citing and reference management	2		
Reference styles	2		
Presenting and discussions on outstanding projects	2		
Oral presentation	2		
The talk and the defense	2		
Bibliography 1. Dawson, C.W. - Projects in Computing and Information Systems, Addison Wesley 2005 2. B. Olsson, M. Berndtsson, B. Lundell - Running Research-Oriented Final Year Projects for CS and IS Students, ACM SIGSE 2003 3. V. Bouki - Undergraduate Computer Science Projects in UK: What is the point?, Proc. of Informatics Education Europe II Conference, IEEII 2007			

8.2 Applications – Seminars/Laboratory/Project	Hours	Teaching methods	Notes
-			
Bibliography -			

[*] *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		Oral onsite/ on-line (ZOOM)	100%
Seminar			
Laboratory			

Project			

Minimum standard of performance:
Grade calculus: 100% final exam
Conditions for participating in the final exam: Attendance of lectures >= 50%
Conditions for promotion: final exam ≥ 5

	Titulari	**Titlu Prenume NUME**	**Semnătura**
Date of filling in: 30.05.2023	Course	Assoc. prof. dr. eng. Tudor Muresan	
	Applications	-	

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