# **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	50.

# 2. Data about the subject

2.1 Subject name			Project Management				
2.2 Course responsible/lecturer		Prof. dr. eng. Mihaela Dînşoreanu - mihaela.dinsoreanu@cs.utcluj.ro					
2.3 Teachers in charge of seminars/ laboratory/ project		ars/	-				
2.4 Year of study	IV	2.5 Sem	ester	ester 7 2.6 Type of assessment (E - exam, C - colloquium, V - verification)			
2.7 Cubicat actors	DF -	DF – fundamentală, DD – în domeniu, DS – de specialitate, DC – complementară D				DS	
2.7 Subject category  DI – Impusă, DOp – opțională, DFac			ală, DFac – facultativă	DI			

#### 3. Estimated total time

3.1 Number of hours per week	3	of which:	Course	3	Seminars	Laboratory	Project	
3.2 Number of hours per semester	42	of which:	Course	42	Seminars	Laboratory	Project	
3.3 Individual study:	•							
(a) Manual, lecture materia	al and n	otes, bibli	ography					10
(b) Supplementary study in the library, online and in the field							10	
(c) Preparation for seminars/laboratory works, homework, reports, portfolios, essays							10	
(d) Tutoring								
(e) Exams and tests						3		
(f) Other activities:								
3.4 Total hours of individual study	/ (suma	(3.3(a)3	.3(f)))		33			
					1			

3.4 Total hours of individual study (suma (3.3(a)3.3(f)))	33
3.5 Total hours per semester (3.2+3.4)	75
3.6 Number of credit points	3

## 4. Pre-requisites (where appropriate)

4.1 Curriculum	Software Design, Software Engineering
4.2 Competence	Software Development methodologies, Software Architectures

## 5. Requirements (where appropriate)

5.1. For the course	Video projector, internet connected computer, Moodle, Teams Attendance compulsory min 50%
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
	<b>C5.1</b> 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 specifc 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	Understand and apply appropriate project management techniques
7.2 Specific objectives	Acknowledge the interfaces and interdependencies between the disciplines in OOSE
	Present various project management techniques and their application in the two prominent methodologies
	Project Management Metrics and Indicators
	Understand the risks and the factors that lead to success or failure; Risk
	Management
	Reflections of Project Management on the Software Quality

#### 8. Contents

		1	1
8.1 Lectures	Hours	Teaching methods	Notes
Introduction	2		
PM overview	2		
Basics of Project Management for Agile Methodologies	2		
Basics of Project Management for Plan-driven Methodologies	2		
Planning and Tailoring the process	2	Face to face lectures,	
Planning the Disciplines	2	Powerpoint slides,	
WBS development	2	Quizes, homeworks	
Scheduling and Resource management	2	and discussions.	
Monitoring and Control	2	Course materials	
Risk management	2	Moodle	
People management	2		
Change management	2		
Project Closure	2		
Final review and concluding remarks	2		

#### Bibliography

- 1. Righting Software, Juval Lowy, O'Reilley, 2020
- 2. Project Management Institute, A Guide to the Project Management Body of Knowledge, 5th Edition, 2013.
- 3. Juana Clark Craig, Project Management Lite: Just Enough to Get the Job Done...Nothing More, 2012
- 4. The Unified Software Development Process, G. Booch, J. Rumbaugh, I. Jacobson, Addison Wesley, 1998.
- 5. Software Project Management: A Unified Framework, Walker Royce, Addison Wesley

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

<sup>.</sup> 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

The discipline is a domain discipline in Computers and Information Technology, its content being fundamental in the management of software projects. The content of the discipline contains the techniques and tools for managing various aspects of projects: scope of projects, activities, time, resources, risks, ending projects, etc. The content is compatible with similar subjects taught at prestigious universities in the country and abroad. In developing the content, important companies from Romania were consulted and it was evaluated by Romanian government agencies

(CNEAA and ARACIS).

#### 10. Evaluation

Activity type	Assessment criteria	Assessment methods	Weight in the final grade
Course	Ability to apply appropriate PM techniques for given project situations, attendance, class activity	Written exam, Quizzes during the semester, homework	100%
Seminar	-		
Laboratory	-		
Project	-		

Minimum standard of performance:

Grade calculus: 60% final exam, 40% class activity (Quizzes, homework) Conditions for participating in the final exam: Attendance of lectures >= 50%

Conditions for promotion: final exam ≥ 5, class activity >=5

Date of filling in: 29.05.2023	Teachers	Title First name Last name	Signature
	Course	Prof. dr. eng. Mihaela Dînșoreanu	
	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	