

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

2. Data about the subject

2.1 Subject name	Project Management				Subject code	50
2.2 Course responsible / lecturer	Prof. dr. eng. Dînsoreanu Mihaela - mihaela.dinsoreanu@cs.utcluj.ro					
2.3 Teachers in charge of seminars / Laboratory / project						
2.4 Year of study	IV	2.5 Semester	7	2.6 Type of assessment (E - exam, C - colloquium, V – verification)	E	
2.7 Subject category	Formative category: DF – fundamental, DS – speciality, DC – complementary					DS
	Optionality: DOB – mandatory, DOP – optional (alternative), DFA – optional (free choice)					DOB

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 material and notes, bibliography										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					
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 • 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. Expected Learning Outcomes

Knowledge	Describes, identifies and summarizes basic concepts and methods regarding the planning, monitoring and control and closing of projects, namely: • Software development methodologies: agile and plan-based • Planning techniques: for the development process, activities, time, resources and risks. • Monitoring and control techniques: Earned Value Analysis, leadership and people management.
Skills	• Adapt the development process for the specific project • Identify and plan the activities of a project over time, allocate resources, • Analyze the costs, risks and progress of a project
Responsibilities and autonomy	Has an honorable, responsible and ethical behavior, in the spirit of the law to ensure the reputation of the profession.

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

8.1 General objective	Understand and apply appropriate project management techniques
8.2 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

9. Contents

9.1 Lectures	Hours	Teaching methods	Notes
Introduction and PM overview	2	Lectures, Powerpoint slides, Quizes, homeworks and discussions. Course materials Moodle.	
Basics of Project Management for Agile Methodologies	2		
Basics of Project Management for Plan-driven Methodologies	2		
Planning and Tailoring the process	2		
Planning the disciplines	2		
WBS development	2		
Scheduling	2		

Resource management	2		
Risk management	2		
Monitoring and Control	2		
People management	2		
Change management	2		
Project Closure	2		
Final review and concluding remarks	2		
Bibliography:			
1. Righting Software, Juval Lowy, O'Reilly, 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			
9.2 Applications - Seminars / Laboratory / Project	Hours	Teaching methods	Notes
-			
Bibliography			
-			

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

10. 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).

11. 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 $\geq 50\%$ Conditions for promotion: final exam ≥ 5 , class activity ≥ 5			

Date of filling in:	Responsible	Title First name Last name	Signature
15.04.2026	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. Vlad Mureșan