# SYLLABUS

## 1. Data about the program of study

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| 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

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| 2.1 Subject name | | ***Project Management*** | | | |
| 2.2 Course responsible/lecturer | | Prof. dr. eng. Mihaela Dinsoreanu, mihaela.dinsoreanu@cs.utcluj.ro | | | |
| 2.3 Teachers in charge of seminars/ laboratory/ project | | | | | |
| 2.4 Year of study | IV | 2.5 Semester | 1 | 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 | 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 | | | | | | | | | | 15 |
| (b) Supplementary study in the library, online and in the field | | | | | | | | | | 15 |
| (c) Preparation for seminars/laboratory works, homework, reports, portfolios, essays | | | | | | | | | | 0 |
| (d) Tutoring | | | | | | | | | | 0 |
| (e) Exams and tests | | | | | | | | | | 3 |
| (f) Other activities: | | | | | | | | | | |

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| 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)

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

## 5. Requirements (where appropriate)

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| 5.1. For the course | **Onsite** scenario: Video projector, internet connected computer. **Online** scenario: Moodle, Teams<br>Attendance compulsory min 50% |
| 5.2. For the applications | - |

## 6. Specific competence

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|---|---|
| 6.1 Professional competences | **C5** Designing, managing the lifetime cycle, integrating and ensuring the integrity of hardware, software and communication systems<br>**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<br>**C5.2** Using interdisciplinary knowledge for adapting the computing system to |

| | |
|---|---|
| | the specifc requirements of the application field<br>**C5.3** Using fundamental principles and methods for ensuring the security, the safety and ease of exploitation of the computing systems<br>**C5.4** Proper utilization of the quality, safety and security standards in the field of information processing<br>**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*)**

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|---|---|
| 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<br>• Present various project management techniques and their application in the two prominent methodologies<br>• Project Management Metrics and Indicators<br>• Understand the risks and the factors that lead to success or failure; Risk Management<br>• Reflections of Project Management on the Software Quality |

**8. Contents**

| 8.1 Lectures | Hours | Teaching methods | Notes |
|---|---|---|---|
| Introduction | 2 | **Onsite** scenario: Face to face lectures, Powerpoint slides, Quizes, homeworks and discussions. **Online** scenario: Sychronous communication Teams, Course materials Moodle, Quizes, homeworks and discussions Teams. | |
| 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 | | |
| Planning the Disciplines | 2 | | |
| WBS development | 2 | | |
| Scheduling and Resource management | 2 | | |
| Monitoring and Control | 2 | | |
| Risk management | 2 | | |
| 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 | Hours | Teaching methods | Notes |
|---|---|---|---|
| - | | | |

Bibliography

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*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**

ACM Curriculum compliant course.

**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 | **Onsite** scenario: Written exam, Quizes, homeworks<br>**Online** scenario: Online Exam, Quizes, homeworks | 100% |
| Seminar | | | |
| Laboratory | | | |
| Project | | | |
| Minimum standard of performance:<br>Grade calculus: 50% final exam, 50% class activity (Quizes, homeworks)<br>Conditions for participating in the final exam: Attendance of lectures >= 50%<br>Conditions for promotion: final exam ≥ 5, class activity >=5 | | | |

| **Date of filling in:** | **Titulari** | **Titlu Prenume NUME** | **Semnătura** |
|---|---|---|---|
| | Course | Prof.dr.eng. Mihaela Dinsoreanu | |
| | Applications | - | |

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| **Date of approval in the department** | Head of department<br>Prof.dr.ing. Rodica Potolea |
| **Date of approval in the Faculty Council** | Dean<br>Prof.dr.ing. Liviu Miclea |