



| Course Curriculum Model (Syllabus) | | |
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| Faculty: | FACULTY OF MECHANICAL AND COMPUTER ENGINEERING | |
| Department: | Mechanical Engineering | |
| Level: | Bachelor | |
| Code of the course: | 313 ME | |
| Course: | Engineering Project Management | |
| Course Status: | Elective | Mandatory/ Elective |
| Semester: | (VI) | Winter/ Summer |
| Number of hours per week: | 2+1 | |
| ECTS: | 3 | |
| Time / location: | Thursday, 9 ⁰⁰ -10 ³⁰ , S308 | |
| Year of studies: | 2024/2025 | |
| Lecturer: | Prof. Ass. Dr. Faruk Ahmeti | |
| Assistant: | | |
| Contact details: | Professor | Assistant |
| | Email: | |
| | Telephone: | |
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| C o u r s e d e s c r i p t i o n | <p>This course provides students with an introduction to the principles and practices of project management in engineering. Topics covered include project planning, scheduling, budgeting, risk management, communication, and leadership. Students will develop skills in project management software and techniques for managing engineering projects.</p> | |
| P u r p o s e (G o a l s) | <p>The purpose of the Engineering Project Management course is to introduce students to the principles and practices of project management in the engineering field. The course aims to equip students with the knowledge and skills necessary to plan, execute, and control engineering projects effectively. Overall, the purpose of the course is to prepare students for successful careers in engineering project management.</p> | |

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| L e a r n i n g o u t c o m e s | <p>Upon completion of course, students should be able to:</p> <ul style="list-style-type: none"> ● Understood and apply project management principles and techniques to engineering projects. ● Develop project plans, schedules, and budgets. ● Identify and manage project risks. ● Communicate effectively with project stakeholders. ● Lead project teams effectively. |
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| | Weeks | Lecture |
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| P r o g r a m | <i>First week:</i> | Introduction to Engineering Project Management <ul style="list-style-type: none"> ● Overview of project management in engineering ● Key concepts and principles of project management |
| | <i>Second week:</i> | Project Planning <ul style="list-style-type: none"> ● Project scope and requirements ● Work breakdown structure ● Project charters and statements of work |
| | <i>Third week:</i> | Scheduling and Resource Management <ul style="list-style-type: none"> ● Project scheduling techniques and tools ● Resource allocation and leveling |
| | <i>Fourth week;</i> | Budgeting and Cost Management <ul style="list-style-type: none"> ● Project budgeting and cost estimation ● Earned value management |
| | <i>Fifth week:</i> | Risk Management <ul style="list-style-type: none"> ● Identifying and assessing project risks ● Mitigating and managing project risks |
| | <i>Sixth week:</i> | Communication and Stakeholder Management <ul style="list-style-type: none"> ● Project communication plans ● Stakeholder identification and management |
| | <i>Seventh week:</i> | Leadership and Team Management <ul style="list-style-type: none"> ● Leadership styles and approaches ● Team development and management |
| | <i>Eighth week week:</i> | Project Management Software <ul style="list-style-type: none"> ● Overview of project management software tools ● Hands-on experience with project management software |
| | <i>Ninth week:</i> | Review Test I |
| | <i>Tenth week</i> | Project Execution and Control <ul style="list-style-type: none"> ● Project execution strategies ● Project monitoring and control |
| | <i>Eleventh week:</i> | Project Closeout <ul style="list-style-type: none"> ● Project closeout activities |

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| | | <ul style="list-style-type: none"> Lessons learned and post-project reviews |
| | <i>Twelfth week:</i> | Project Presentations <ul style="list-style-type: none"> In-class project presentations |
| | <i>Thirteenth week:</i> | Project Workshops <ul style="list-style-type: none"> In-class project workshops |
| | <i>Fourteenth week:</i> | Final Project Work <ul style="list-style-type: none"> In-class work on final project report |
| | <i>Fifteenth week:</i> | Test II |

| Literature | |
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| L i t e r a t u r e | <ul style="list-style-type: none"> Project Management: A Systems Approach to Planning, Scheduling, and Controlling by Harold Kerzner (2017) Construction Project Management: A Practical Guide to Field Construction Management by S. Keoki Sears, Glenn A. Sears, Richard H. Clough, and Jerald L. Rounds (2015) Project Management for Engineering and Construction by Garold D. Oberlender (2014) Effective Project Management: Traditional, Agile, Extreme by Robert K. Wysocki (2013) Engineering Project Management for the Global High-Technology Industry by Sammy Shina (2012) |

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| T e a c h i n g m e t h o d o l o g y | Lectures | | | | |
| | Case Studies | | | | |
| | Group Projects | | | | |
| | Guest Speakers | | | | |
| | Simulation Exercises | | | | |
| | Class Discussions | | | | |
| | Assignments and Assessments | | | | |
| | Contribution to student workload (which should correspond to student learning outcomes - 1 ECTS credit = 25 hours) | | | | |
| | | Activity | Hours | Days/weeks | Total |
| | | Lectures | 2 | 15 | 30 |
| | | Exercise sessions (with TA) | 1 | 15 | 15 |
| | | Practical work | - | - | - |
| | | Office hours | 1 | 6 | 1 |
| | | Fieldwork | - | - | - |
| | Midterms, seminars | 1 | 1 | 1 | |
| | Homework | 1 | 5 | 5 | |
| | Self-study | 1 | 10 | 10 | |
| | Final exam preparation | 1 | 2 | 2 | |
| | Time spent in exams | 1 | 2 | 2 | |
| | Projects, presentations, etc. | 1 | 4 | 4 | |
| Total | | | | 75 | |

| Assessment methodology: | | |
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| Projects Oral Presentations (Seminars) Quizzes and Tests Participation Final Exam (according to the Statute and Regulation for studies of UMIB) | | |
| E v a l u a t i o n | Tests / Colloquia | 2x15 = 30 points |
| | Practical test during exercises | 2 = 10 points |
| | Seminary work | 1 = 15 points |
| | Assignments and courses during the semester | 1 = 15 points |
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| | Final Exam | 30 points |
| | Total | 100% |
| | Final grade | Points (%) Mark |
| | 91 – 100 10 | |
| | 81 - 90 9 | |
| | 71 - 80 8 | |
| | 61 - 70 7 | |
| | 51 - 60 6 | |

Criteria for regular attendance and rules of etiquette during the organization of the lesson are set.

Computer work:

Graphic works, I have to draw and write with a computer. In the works it is obligatory to respect the criteria for both the visual and the content aspect of the required works.

Ethics in teaching:

Graphic works should be personal works of each student. There will be no tolerance for copying, "borrowing" from the Internet or any other material. The same or similar works will have negative evaluations in the final evaluation of the student.

Time:

In agreement with the students, the deadlines for submitting works will be determined. There will be no tolerance for delays in the submission of works. Failure to arrive at the time when the assignment is explained does not justify the student for not submitting the paper. The deadline will be given earlier. If you are going to travel abroad, then you need to submit the paperwork in advance. The student has the right to request a consultation with the professor whenever he / she deems it reasonable and necessary for the performance of his / her work.

Rules of conduct and academic policies:

- active participation of students in lectures o participation in discussion, comments and free expression of opinion, opinion and academic position (with arguments)
- Mandatory independent work and use of additional sources of information (various scientific websites, scientific journals, conference proceedings, etc.)
- Respecting lecture schedules without compromising academic freedom (silent cell phones) of respecting the word, thoughts and ideas of colleagues,
- It is not allowed to arrive late and leave without a valid reason from the lecture, test or exam o preparation and holding of relevant lectures, (obligation of the teacher).
- if the student is absent more than four times without reason in lectures and exercises, does not receive the signature for attendance. o the student cannot take the exam without an official document,
- if the student is dissatisfied with the grade obtained, has the right to complain in writing to the dean, within two working days after the announcement of the results, UMIB Statute o if the student does not follow the rules, in the exam uses tools that are not allowed, it is evaluated with a negative grade.

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Mitrovicë; 29/04/2023

Prof. Ass. Dr. Faruk Ahmeti