

(faculty stamp)

Syllabus

1. Name of the subject: PROJECT MANAGMENT			2. Course code:	
3. Valid in academic year: 2016/2017				
4. Course: MSc (second degree programme)				
5. Type of studies: full time stationery course				
6. Field of study: POWER ENGINEERING				
7. Profile of studies: General academic				
8. Programme: CLEAN FOSSIL AND ALTERNATIVE FUELS ENERGY (KIC INNOENERGY)				
9. Semester: 1				
10. Responsible unit: RIE-3				
11. Lecturer: dr hab. inż. Krzysztof Pikoń				
12. Group of subjects: Specializations subject				
13. Status: Obligatory				
14. Language of instruction: English				
15. Prerequisites: None				
16. Course objectives: The aim of the course is to skills and competencies relevant to management in business sector shaping teamwork and leadership skills. Module provides knowledge and core methodologies in the field of project management and provides the real experience in leadership and teamwork. Course overarching objective is to provide basic project management skills with a strong emphasis on issues and problems associated with delivering successful projects mainly due to proper leadership, teamwork and human resources issues. The course is designed to provide an understanding of the particular issues encountered in planning projects and to offer students methods, techniques and 'hands-on' experience in dealing with them.Module make students to understand how leadership practice could be applied but also that it has depth and is grounded in higher education research, business and value creation.				
17. Learning outcomes:¹				
Nr	Description of learning outcome	Method of assessments	Type of classes	Reference to learning outcomes
1	Student is able to describe and explain the common issues that arise in projects management.	project assessment/test	Lecture, project	K2A_W04, K2A_U01
2	Student is able to describe and explain the role and impact of different stakeholders on project planning and execution..	project assessment/test	Lecture, project	K2A_K03, K2A_W03
3	Student is able to apply general project management tools and techniques (i.e. for scheduling, budgeting, Gantt chart). Student is able to prepare documents for a report which present results of his/her own analyses	project assessment/test	Lecture, project	K2A_U14

¹5-8 learning outcomes should be given

4	Student is able to perform risk analysis. Student is able to identify the major problems that could arise during project planning and execution. The student is able to take actions in order to avoid risks that could arise.	project assessment/test	Lecture, project	K2A_U05;K2A_W01
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18. Type of classes and their duration

Lecture: 15h Project: 30h

19. Content of the course:

Project Management introduces project management from the standpoint of a manager who must organize, plan, implement, and control tasks to achieve an organization's schedule, budget, and performance objectives.

Tools and concepts such as project charter, scope statement, work breakdown structure, project estimating, and scheduling methodologies are studied.

After completing this course, you should be able to:

- Define the role that projects and project management play in accomplishing the company's strategic objectives, taking into account the various types of organizations such as functional, matrix, and project structures.
- Define the importance of leadership.
- Assess major schedule, cost, and performance risk elements and understand the approach for managing risks using qualitative as well as quantitative techniques.
- Develop an approach for managing a high-performance project team.
- Establish ways of monitoring schedule and cost performance using earned value techniques, and
- Determine key elements of a communications plan to keep stakeholders abreast of progress, problems, and controls.
- Use project management software to plan, implement, control, and report on a project.
- Establish a closeout strategy that will maximize the value of the project experience to the organization by capturing best practices and lessons learned.

Competencies shaped:

- Entrepreneurship skills and competences.
- Leadership skills and competences.

Project is carried out in Project Based Learning manner. Students are divided in groups with elected leader – project manager. The whole project is organized in a way of a real enterprises with positions of CEO, manager etc. Students are recreating all necessary documentation and perform all activities on the basis of project management rules. The project is kept in learning by doing manner – students are performing real actions in real world. The main goal is to organize the scientific conference for young scientists from different locations all over Europe. Students should deliver the full report on the performance containing description of KPIs and its fulfilment, description of all activities, executive summary and conclusions.

20. Examination: no

21. Basic literature:

1. Jack Gido and James P. Clements, Successful Project Management, 5th edition (Mason, OH: Thomson/South-Western, 2012).
2. Harold Kerzner, Project Management Case Studies, 3d edition (Indianapolis: Wiley, 2009).

22. Other reading:

1. Scientific journals available in university network (Scopus, Science direct etc.)

23. Work load of the student necessary to achieve the learning outcomes

Lp.	Type of classes	Number of contact hours / student work
1	Lectures	15/15
2	Recitations	/
3	Lab	
4	Project	30/30
5	Seminar	
6	Other (participation in consultations associated with project execution)	
	number of hours (subtotal)	45/45

24. Total number of hours: 90**25. Number of ECTS credits:²3****26. Number of ECTS credit points gained during classes (contact hours): 1****27. Number of ECTS credits gained during practice oriented classes (labs, projects): 2****26. Remarks:**Teaching tools: **learning by doing, project based learning****The overall assessment consist of two steps:**

1. Check of fulfilling of module LO consequently OLOs criteria.
2. Assessment and grading of the quality of students work and reached LO.

EIT OLOs assessed in the subject :

- Value judgments and sustainability competencies (EIT OLO 1)
- Entrepreneurship skills and competencies (EIT OLO 2)
- Intellectual transforming skills and competencies (EIT OLO 6)
- Leadership skills and competencies (EIT OLO 7)

The Method of assessments indicated in point 17 includes assessment of learning outcomes and OLOs

Grading:Grading formula: $FG = PMWF_{lec} * PMG_{lec} + PMWF_{proj} * PMG_{proj}$

Where:

- FG-final grade
- $PMWF_{lec}$ – Lecture part weighting factor – 0,3
- PMG_{lec} – Grade of achieved LOsrelevant to lecture
- $PMWF_{proj}$ – Project part weighting factor – 0,7
- PMG_{proj} – Grade of achieved LOsrelevant to project

All LO weighting factors associated with part of the module (PM) equal 1.

Accepted:

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² 1 ECTS point – 30 hours workload

(Date and signature of the responsible instructor)

(date and signature of the director of the institute, chair, Director of Foreign Language College/head or director of inter-faculty unit)