



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Project management [S2LiK2P>ZP]

Course

Field of study

Aerospace Engineering

Year/Semester

1/1

Area of study (specialization)

–

Profile of study

practical

Level of study

second-cycle

Course offered in

Polish

Form of study

full-time

Requirements

compulsory

Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

30

Number of credit points

3,00

Coordinators

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Lecturers

Prerequisites

Basic of management, microeconomics and mathematics.

Course objective

Preparation for the role of project manager

Course-related learning outcomes

Knowledge:

1. Knows the basic concepts of economics, relating in particular to air transport, has basic knowledge of management and running a business, and knows the general principles of creating and developing forms of individual entrepreneurship, especially in the aspect of airline companies
2. Knows the general principles of creating and developing forms of individual entrepreneurship, also taking into account time management, as well as the skills of proper self-presentation, using knowledge in the field of science and scientific disciplines relevant to aviation

Skills:

1. Has the ability to self-educate with the use of modern teaching tools, such as remote lectures,

websites and databases, teaching programs, e-books

2. Is able to identify the sources of threats in various areas of aircraft operation, formulate the related threats, assess the risk of threats using appropriate methods and propose ways to ensure safety

Social competences:

1. Is ready to critically evaluate the knowledge and content received, recognize the importance of knowledge in solving cognitive and practical problems, and consult experts in case of difficulties in solving the problem on its own
2. Is aware of the importance and understands the non-technical aspects and effects of engineering activities, including its impact on the environment, and the related responsibility for decisions made
3. Can think and act in an entrepreneurial manner

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

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Formative assessment:

based on attendance and activity during classes, results of cognitive tasks solved, and participation in discussions

Summative rating:

- result of written test (lecture)
- independent performance of the indicated cognitive task (project), its presentation in the group forum
- summary of partial results from exercises.

Programme content

1. Determining the specific features of projects, their place in strategic management or improvement of the organization's activities and their role in creating market position. Discussion of the premises of project management.
2. Types of projects (by size, complexity, area and from the manager's point of view)
3. Typical project flow. Phase system (initiating, establishing requirements, defining goals and identifying conditions, feasibility analysis, risk analysis, task structuring (WBS), resource and work flow planning, budgeting, supervision, course management, project closure). Actual project progress. Emphasizing the need for preparation and the key function of structuring.
4. Project organization (appointment of a manager and contractors, selection of a team structure appropriate to the type of project, situational placement of the team in the enterprise structure, development of a communication system, identification of weak points, support for the project)
5. IT support - familiarization with MSProject or PERT best software
6. Practical problems of the project manager - presentation of examples of situations that threaten the success of the project.

Course topics

1. The place and role of projects in management,
2. Types of projects,
3. A typical project run (initiating, setting requirements, defining goals and identifying conditions, feasibility analysis, risk analysis, task structuring, resource planning and workflow planning, budgeting, process control, project closure).
4. Organization of project team
5. IT support
6. Practical problems of the project manager

Teaching methods

Problem-based lecture, study of literature, project - solving cognitive tasks with IT support.

Bibliography

Basic:

1. A guide to the Project Management Body of Knowledge (PMBOK guide) Project Management Institute 2018

2. Meredith Jack R. , Mantel Samuel J. Jr. , Shafer Scott M., Project Management, 10th Edition, Wiley December 2017

Additional:

1. Hobbs B., Besner C., Projects with internal vs. external customers: An empirical investigation of variation in practice, in: International Journal of Project Management, Volume 34, Issue 4, May 2016, Pages 675-687

2. Laursen M., Svejvig P., Taking stock of project value creation: A structured literature review with future directions for research and practice, in: International Journal of Project Management, Volume 34, Issue 4, May 2016, Pages 736-747

3. Svejvig P. Andersen P., Rethinking project management: A structured literature review with a critical look at the brave new world, in: International Journal of Project Management, Volume 33, Issue 2, February 2015, Pages 278-290

Breakdown of average student's workload

	Hours	ECTS
Total workload	75	3,00
Classes requiring direct contact with the teacher	45	2,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	30	1,00