



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Project management

Course

Field of study

Aerospace Engineering

Area of study (specialization)

-

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

1/2

Profile of study

practical

Course offered in

polish

Requirements

compulsory

Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

30

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

mgr inż. Joanna Ziomek

Responsible for the course/lecturer:

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Instytut Inżynierii Bezpieczeństwa i Jakości

Wydział Inżynierii Zarządzania

Prerequisites

Knowledge: Has knowledge of preparing reports Skills: Can obtain information from literature, the Internet, databases and other sources. Is able to integrate the obtained information, interpret and draw conclusions from it, and create and justify opinions - Is able to use the following languages: native and international to a degree enabling the understanding of technical texts and writing technical descriptions of machines in the field of aviation and aerospace using dictionaries (knowledge of technical terminology) Social competences: Can interact and work in a group, assuming different roles in it

Course objective

Getting to know the basics of management, planning and implementation of projects as well as the



possibilities and ways of reacting to crisis situations in projects. Getting to know individual design roles. Good practice transfer.

Course-related learning outcomes

Knowledge

has extended knowledge necessary to understand the profile subjects and specialist knowledge about the construction, methods of construction, production, operation, air traffic management, safety systems, impact on the economy, society and the environment in the field of aviation and cosmonautics
has basic knowledge of law, in particular civil aviation law, copyright and industrial property law and its influence on the development of technology, can use patent information resources

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 and cosmonautics

Skills

has the ability to self-educate with the use of modern teaching tools, such as remote lectures, websites and databases, teaching programs, e-books

can obtain information from literature, the Internet, databases and other sources. Can integrate the obtained information, interpret and draw conclusions from it, and create and justify opinions

is able to prepare and present a short verbal and multimedia presentation devoted to the results of an engineering task

Social competences

understands the need for lifelong learning; can inspire and organize the learning process of other people

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

is able to interact and work in a group, assuming various roles in it

is able to properly define priorities for the implementation of a task set by himself or others

can think and act in an entrepreneurial manner

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: assessment of knowledge and skills shown on the written test.

Project: preparation and completion of the project Obtaining additional points for activity during classes, especially for:

- proposing to discuss additional aspects of the issue,



- the effectiveness of applying the acquired knowledge while solving a given problem

Programme content

1. About projects and their management
2. The role of the project manager
3. Defining the project
4. Team building and maintenance
5. Planning and estimating
6. Project plan
7. Dealing with risk and uncertainty
8. Controlling in time
9. Management of points of contact with the environment
10. Communication and documentation
11. Completing the project

Teaching methods

Informative (conventional) lecture (providing information in a structured way) - may be of a course (introductory) or monographic (specialist) character

Project method (individual or team implementation of a large, multi-stage cognitive or practical task, the effect of which is the creation of a work)

Bibliography

Basic

Additional

1. Gary R. Heerkens, „Jak zarządzać projektami”, Wyd. RM, Warszawa, 2003
2. P. Wyrozębki, „Zarządzanie projektami”
3. M. Trocki, B. Grucza, K. Ogonek, Zarządzanie projektami, PWE, Warszawa 2003
4. J.M. Nickolas, H. Steyn, Project Management for Business, Engineering and Technology, Butterworth-Heinemann 2008



Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	45	2,0
Student's own work (literature studies, preparation for test, project preparation) ¹	5	0,0

¹ delete or add other activities as appropriate