



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Project Management

Course

Field of study

Aviation and cosmonautics

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

Other (e.g. online)

Tutorials

30

Projects/seminars

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

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Faculty of Engineering Management

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60-965 Poznań

Responsible for the course/lecturer:

Prerequisites

Student knows as issues in the field of engineering and its connections with the field. Student should collect on the basis of the literature of the subject and other sources (in Polish and English) and in an orderly manner, provide information on the problem within the framework of aviation and cosmonautics and its specific issues.

Course objective

Understanding of project management. Ability to organise project team. Solving problems with project management methodology. Preparation to the project-leader role.



Course-related learning outcomes

Knowledge

K2A_W01 The student 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 for selected specialties: Civil Aviation, UAV

K2A_W18 The student has basic knowledge of law, copyright and industrial property law and its influence on the development of technology, can use patent information resources

K2A_W24 The student 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

K2A_U03 The student has the ability to self-educate with the use of modern teaching tools, such as remote lectures, websites and databases, teaching programs, e-books

K2A_U04 The student 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

K2A_U07 The student is able to prepare and present a short verbal and multimedia presentation devoted to the results of an engineering task

Social competences

K2A_K01 The student understands the need for lifelong learning; can inspire and organize the learning process of other people

K2A_K02 The student 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

K2A_K04 The student is able to interact and work in a group, assuming various roles in it

K2A_K05 The student is able to properly define priorities for the implementation of a task set by himself or others

K2A_K07 The student can think and act in an entrepreneurial manner

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

- Result of teamwork presentations
- Test, problem tasks



Programme content

Project's place and role in management. Substance and kinds of projects. Project's maturity. Project's life cycle. Initiation and definition of projects. Performance assessment and risk analysis. Work breakdown structure (WBS). Planning of projects duration and resources. Budgeting. Controlling. Organization of project team. Institutional forms of project management. Computer software to aid project management. Presentation some praxis examples of projects.

Teaching methods

lecture, presentations, discussion, case study, team work, exercises

Bibliography

Basic

1. Prussak W. Wyrwicka M., Zarządzanie projektami, Zachodnie Centrum Organizacji, Poznań 1997
2. Wyrwicka M., Zarządzanie projektami, Wyd. Politechniki Poznańskiej, Poznań 2011.
3. Wyrwicka M., Zarządzanie projektowe [w:] Elementy inżynierii logistycznej (red.) M. Fertsch, Biblioteka Logistyka Wyd. ILiM Poznań 2017, s.53-74
4. Wysocki R., Efektywne zarządzanie projektami. Tradycyjne, zwinne, ekstremalne, Wyd. Helion, Gliwice 2013

Additional

1. Głodzieński E., Efektywność w zarządzaniu projektami. Wymiary, koncepcje, zależności, PWE Warszawa 2017
2. Koszłajda A., Zarządzanie projektami IT. Przewodnik po metodykach, Wyd. Helion 2010
3. Kozarkiewicz A., Zarządzanie portfelami projektów, PWN, Warszawa 2012
4. Shenhar A.J., Dvir D., Nowe spojrzenie na zarządzanie projektami. Sukces wzrostu i innowacji dzięki podejściu romboidalnemu, Wyd. APN Promise, Warszawa 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 laboratory classes/tutorials, preparation for tests) ¹	5	0,0

¹ delete or add other activities as appropriate