



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

B+R Project management [S2LiK2P>ZPBiR]

### Course

Field of study

Aerospace Engineering

Year/Semester

2/3

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

30

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

### Number of credit points

2,00

### Coordinators

Grzegorz Jankiewicz

grzegorz.jankiewicz@put.poznan.pl

### Lecturers

### 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:

1. 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. KIs able to prepare and present a short verbal and multimedia presentation devoted to the results of an engineering task
2. Is able to interact and work in a group, assuming various roles in it

Social competences:

1. Can think and act in an entrepreneurial manner
2. Has the competencies necessary to interact with other industry employees (including in English)
3. Is aware of the social role of a technical university graduate, and especially understands the need to formulate and convey to the society, in particular through the mass media, information and opinions on technological achievements and other aspects of engineering activities; makes efforts to provide such information and opinions in a generally comprehensible 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.

### Course topics

none

### 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	60	2,00
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)	15	0,00