



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Designing and evaluating investment projects

### Course

Field of study

Engineering Management

Area of study (specialization)

Enterprise Resource and Process Management

Level of study

Second-cycle studies

Form of study

part-time

Year/Semester

1/1

Profile of study

general academic

Course offered in

Polish

Requirements

elective

### Number of hours

Lecture

10

Laboratory classes

Tutorials

10

Projects/seminars

Other (e.g. online)

### Number of credit points

2

### Lecturers

Responsible for the course/lecturer:

Ph.D., Eng., Edmund Pawłowski

Responsible for the course/lecturer:

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Faculty of Engineering Management

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### Prerequisites

Management Basics, Financial Accounting



## Course objective

teaching methodology and developing skills for designing and evaluating investment projects

## Course-related learning outcomes

### Knowledge

The student defines and explains the methodologies and tools of financial planning of investment projects, including the application of the concepts of time value of money and discounting [P7S\_WG\_02].

The student defines and evaluates discount and ratio methods of evaluating investment ventures and analyzes the economic and financial situation of an enterprise in the context of capital structure rationalization [P7S\_WG\_05].

The student explains the peculiarities and dynamics of financial and organizational relationships in network enterprises and analyzes how these relationships affect the evaluation and implementation of investment projects [P7S\_WG\_06].

### Skills

The student applies advanced financial modeling techniques to forecast performance and evaluate the profitability of investment projects [P7S\_UW\_02].

The student independently conducts financial analysis and strategic investment planning, making investment decisions based on the results [P7S\_UW\_04].

The student conducts independent evaluations of investment projects and develops strategic action plans, taking into account the long-term goals of the enterprise [P7S\_UO\_01].

The student interprets the causes and effects of investment processes, formulates opinions and hypotheses about them and carries out their verification by means of research methods [P7S\_UW\_07].

### Social competences

The student integrates knowledge from various fields (management, finance, economics) in working in project teams in the implementation of investment projects [P7S\_KK\_01].

The student analyzes and evaluates cause-and-effect relationships in the implementation of investment projects, considering their impact on the long-term business objectives of the company [P7S\_KK\_02].

## Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The knowledge of the lectures is verified during the written test. Written test in two versions: 1/ 5 open questions, 2/ 10 multiple-choice test questions. Maximum number of points = 100. Positive score from 65 points.

Knowledge from the exercises is verified by defending the project

## Programme content



Network of investment project activities. Financial planning of investment projects. Value of money in time. Simple methods of evaluating investment projects. Discounting. Discount rate. Discounted methods of evaluating investment projects. Indicative assessment of the economic and financial situation of an enterprise. Rationalization of capital structure

### Teaching methods

1. lecture: Monographic lecture, case studies
- 2 Exercises: multimedia presentation illustrated with examples given on the board and project execution

### Bibliography

#### Basic

1. Pawłowski E., Pawłowski K., Trzcilińska J., Trzciliński S. Projektowanie biznesu i ocena przedsięwzięć inwestycyjnych. Wyd. Politechniki Poznańskiej, Poznań, 2010.
2. Gawel A. Proces przedsiębiorczy. Tworzenie nowych przedsiębiorstw. Difin. Warszawa, 2013
3. Skrzypek J.T.: Biznesplan. Model najlepszych praktyk, Poltext, Warszawa 2009
4. Bućko J. Planowanie biznesowe i zarządzanie ryzykiem projektów. Politechnika Świętokrzyska, 2021
5. Rogowski W. Rachunek efektywności przedsięwzięć inwestycyjnych. Wyd. Oficyna Ekonomiczna, Warszawa, 2004.
6. Bednarski L, Analiza finansowa w przedsiębiorstwie, PWE, Warszawa, 2006.
7. Sierpińska M., Jachna T. Ocena przedsiębiorstwa według standardów światowych. PWN, Warszawa, 2007

#### Additional

1. Hurdle. The Book on Business Planning, Berry Tim, PaloAlto Software, Inc , USA, 2006.
2. Filar E., Skrzypek J., Biznesplan , Wydawnictwo poltex, W-wa 2005
3. Glinka B., Gudkova S. Przedsiębiorczość. Oficyna, Wolter Kluwer business. Warszawa, 2011
4. Targalski J. , Francik A. Przedsiębiorczość i zarządzanie firmą. Teoria i praktyka. Wydawnictwo C.H. Beck, Warszawa, 2009



### Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	20	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests, project preparation) <sup>1</sup>	30	1,0

<sup>1</sup> delete or add other activities as appropriate