



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Financial management

### Course

Field of study

Mechanical and Automotive Engineering

Area of study (specialization)

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Level of study

First-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

18

Laboratory classes

Tutorials

Projects/seminars

Other (e.g. online)

### Number of credit points

2

### Lecturers

Responsible for the course/lecturer:

prof. dr hab. Agnieszka Merkisz-Guranowska

email: agnieszka.merkisz-

guranowska@put.poznan.pl

tel. 61-6652260

Faculty of Civil and Transport Engineering

ul. Piotrowo 3, 60-965 Poznań

Responsible for the course/lecturer:

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### Prerequisites

The student has a basic knowledge of economic relations and the basics of entrepreneurship

Student is able to associate and integrate the information, analyze the phenomena occurring in the environment, draw conclusions, formulate and justify opinions

Student is aware of the social and economic importance of financial management and raising funds for various types of projects



### Course objective

Understanding the basics of financial management in companies, with particular emphasis on sources of financing.

### Course-related learning outcomes

#### Knowledge

Has knowledge in the field of mathematics, including algebra, analysis, theory of differential equations, probability, analytical geometry necessary to: describe the operation of discrete mechanical systems, understand computer graphics methods, describe the operation of electrical and mechatronic systems.

Has elementary knowledge of the life cycle of machinery, recycling of machine elements and construction and consumables.

Has elementary knowledge of the economics and economics of industrial enterprises, banking system, commercial law, and entrepreneurial accounting.

#### Skills

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.

Can use computer office packages for editing technical texts, including formulas and tables, technical and economic calculations using a spreadsheet and running a simple relational database.

Can interact with other people as part of teamwork (also of an interdisciplinary nature).

#### Social competences

Is ready to fulfill social obligations and co-organize activities for the benefit of the social environment.

Is willing to think and act in an entrepreneurial manner.

Is ready to fulfill professional roles responsibly, including:

- observing the rules of professional ethics and requiring this from others,
- caring for the achievements and traditions of the profession.

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Discussion and active participations in lectures.

Written test in the form of a multiple-choice test with possible additional open questions.

### Programme content

1 Basics of financial management. The importance of the financial policy of the company and the scope of financial policy.



2 Sources of financing activity. Internal and external sources of financing activity: equity (shares, retained benefit), bank credit, loan, bonds. Characteristics, advantages and disadvantages of each type of financing.

3 Sources of financing activity. Operating and finance lease.

4 Criteria for selecting sources of financing. Principles of financing structure set up.

5 Financial statements. Balance sheet: features, layout and components, current and fixed assets, equity and liabilities.

6 Balance sheet analysis: analysis of the assets and equity/liability structure. Assets structure and capital structure ratios.

7 Financial statements. Profit and loss account: layout and elements.

8 Financial statements. Cash flow: features, layout and elements.

9 Profitability analysis: profitability ratios.

10 Liquidity analysis: liquidity ratios and net working capital.

11 Turnover analysis: current assets management and operating performance ratios.

12 Assessment of the company's financial condition.

### Teaching methods

Lecture with multimedia presentation

### Bibliography

#### Basic

Dyduch A., Sierpińska M., Wilimowska Z., *Finanse i rachunkowość*, PWE Warszawa 2013.

Nowak E., *Analiza sprawozdań finansowych*, PWE, Warszawa 2016.

Kończak Z., *Rachunkowość przedsiębiorstw część 1 i 2*, Wydawnictwo eMPi2, Warszawa 2007.

#### Additional

Zaleska M., *Ocena ekonomiczno-finansowa przedsiębiorstwa przez analityka bankowego*, Wydawnictwo SGH, Warszawa 2005.



### Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	18	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	32	1,0

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