



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Financial Management [N2MiBP1>ZF]

### Course

Field of study

Mechanical and Automotive Engineering

Year/Semester

2/3

Area of study (specialization)

Railway Vehicles

Profile of study

general academic

Level of study

second-cycle

Course offered in

English

Form of study

part-time

Requirements

elective

### Number of hours

Lecture

9

Laboratory classes

0

Other

0

Tutorials

0

Projects/seminars

0

### Number of credit points

1,00

### Coordinators

dr Karolina Tyc-Szmił

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### Lecturers

### 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 general knowledge of standardization, EU recommendations and directives, national, industry and international standards systems, and industrial standards.

Has extended knowledge of the standards for working machines in the field of methods of calculating and testing machines, safety, including road safety, environmental protection as well as mechanical and electrical interface.

Has in-depth knowledge of entrepreneurship and business economics.

#### Skills:

He can develop a technical description, offer and design documentation for a complex machine from a selected group of machines.

Can communicate on specialist topics with a diverse audience.

He is able to independently plan and implement his own learning throughout life and direct others in this regard.

#### Social competences:

Is ready to recognize the importance of knowledge in solving cognitive and practical problems and to consult experts in case of difficulties in solving the problem on its own.

Is willing to think and act in an entrepreneurial manner.

Is ready to fulfill professional roles responsibly, taking into account changing social needs, including:

- developing the professional achievements,
- maintaining the ethos of the profession,
- observing and developing the rules of professional ethics and acting towards the observance of these rules.

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

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 part 1. Internal and external sources of financing activity and development (equity, bank credit, bonds, retained profits). Characteristics, advantages and disadvantages of each type of financing.

3 Sources of financing activity part 2. Operating and finance lease.

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

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

6 Evaluation of company's financial condition. Financial statements ratios: assets structure ratios, profitability ratios, liquidity ratios, capital structure ratios, operating performance ratios.

### Course topics

none

### Teaching methods

Lecture with multimedia presentation

### Bibliography

#### Basic

1.L. Czerwonka, Zarządzanie finansami. Wprowadzenie, przykłady i zadania, C.H. Beck, Warszawa 2018

2. Dyduch A., Sierpińska M., Wilimowska Z., Finanse i rachunkowość , PWE 2. Warszawa 2013.

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

4. N. Grzenkowicz, J. Kowalczyk, A. Kusak, Z. Podgórski, Analiza finansowo–ekonomiczna jako narzędzie oceny kondycji przedsiębiorstwa, Wydawnictwo Naukowe Wydziału Zarządzania UW, Warszawa 2017

5. K. Tyc-Szmil, Financial Management. Lecture materials, Poznań University of Technology (in Polish)

#### Additional

1. B. Kotowska, O. Wyszowska-Kaniewska, A. Uziębło, Analiza finansowa w przedsiębiorstwie. Przykłady, zadania i rozwiązania, CeDeWu, Warszawa 2021

## Breakdown of average student's workload

	Hours	ECTS
Total workload	15	1,00
Classes requiring direct contact with the teacher	9	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	6	0,50