

Course description

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| Course abbreviation: | KPV/IE | Page: | 1 / 3 |
| Course name: | Economics for Engineers | | |
| Academic Year: | 2023/2024 | Printed: | 13.07.2025 08:50 |

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| Department/Unit / | KPV / IE | | | Academic Year | 2023/2024 |
| Title | Economics for Engineers | | | Type of completion | Exam |
| Accredited/Credits | Yes, 4 Cred. | | | Type of completion | Combined |
| Number of hours | Lecture 2 [Hours/Week] Tutorial 2 [Hours/Week] | | | Course credit prior to | Yes |
| Occ/max | Status A | Status B | Status C | Counted into average | YES |
| Summer semester | 0 / - | 0 / - | 0 / - | Min. (B+C) students | 10 |
| Winter semester | 0 / - | 0 / - | 0 / - | Repeated registration | NO |
| Timetable | Yes | | | Semester taught | Winter semester |
| Language of instruction | Czech | | | Internship duration | 0 |
| Optional course | Yes | | | Ev. sc. – cred. | S N |
| Evaluation scale | 1 2 3 4 | | | | |
| No. of hours of on-premise | | | | | |
| Auto acc. of credit | Yes in the case of a previous evaluation 4 nebo nic. | | | | |
| Periodicity | every year | | | | |
| Specification periodicity | | | | | |
| Substituted course | KPV/PE | | | | |
| Preclusive courses | N/A | | | | |
| Prerequisite courses | N/A | | | | |
| Informally recommended courses | N/A | | | | |
| Courses depending on this Course | N/A | | | | |

Course objectives:

The course focuses on the following areas:
 company in a market economy; mission and objectives; capital structure of a company; assets, liabilities and stockholders' equity;
 classification of costs; process costing; current assets, fixed assets and labour; production process; planning and budgeting process.

Requirements on student

Conditions of examination and requirements for credit:
 examination - combined examination (written and oral)
 credit - solution in written way of examples assigned on seminars

Content

Application of basic knowledge of company economics with a focus on production of mechanical engineering companies.
 Practical calculations in relation to individual lectures are performed in the seminars.

1. Asset and capital structure of a company
2. Objectives of the company
3. Company financing, financial statements
4. Revenues, costs and profit
5. Managerial accounting, profitable break-even point
6. Production, production factors
7. Production stocks
8. Production capacity
9. Wages
10. Calculation

- 11. Break-even cost points
- 12. Product
- 13. Summary of lectures, consultations

Fields of study

Guarantors and lecturers

- **Guarantors:** doc. Ing. Jana Kleinová, CSc. (100%)
- **Lecturer:** Ing. Tomáš Broum, Ph.D. (100%), doc. Ing. Jana Kleinová, CSc. (100%)
- **Tutorial lecturer:** doc. Ing. Jana Kleinová, CSc. (100%)

Literature

- **Basic:** Duchoň, Bedřich. *Inženýrská ekonomika*. Vyd. 1. Praha : C.H. Beck, 2007. ISBN 978-80-7179-763-0.
- **Basic:** SYNEK, M. *Manažerská ekonomika*, 5. vydání. Praha: Grada, 2011. ISBN 978-80-247-3494-1.
- **Extending:** Tomek, Gustav; Vávrová, Věra. *Integrované řízení výroby : od operativního řízení výroby k dodavatelskému řetězci*. 1. vyd. Praha : Grada, 2014. ISBN 978-80-247-4486-5.
- **Recommended:** Scholleová, Hana. *Ekonomické a finanční řízení pro neekonomy*. 3., aktualizované vydání. 2017. ISBN 978-80-271-0413-0.

Time requirements

All forms of study

| Activities | Time requirements for activity [h] |
|--|------------------------------------|
| Contact hours | 52 |
| Undergraduate study programme term essay (20-40) | 20 |
| Preparation for an examination (30-60) | 40 |
| Total: | 112 |

assessment methods

Knowledge - knowledge achieved by taking this course are verified by the following means:

- Combined exam
- Seminar work

Skills - skills achieved by taking this course are verified by the following means:

- Skills demonstration during practicum
- Seminar work

prerequisite

Knowledge - students are expected to possess the following knowledge before the course commences to finish it successfully:

- no special knowledge is expected
- characterize an industrial company
- describe and explain basic technologies used in mechanical engineering companies

Skills - students are expected to possess the following skills before the course commences to finish it successfully:

- apply theoretical knowledge in solving practical problems in the field of business economics

Competences - students are expected to possess the following competences before the course commences to finish it successfully:

N/A

N/A

teaching methods**Knowledge - the following training methods are used to achieve the required knowledge:**

Lecture

Self-study of literature

Skills - the following training methods are used to achieve the required skills:

Practicum

Individual study

Multimedia supported teaching

learning outcomes**Knowledge - knowledge resulting from the course:**

describe the basic economic indicators and relations among them (revenues, costs, profit)

characterize asset and capital structure of the company

describe production in mechanical engineering companies and its forms and types

Skills - skills resulting from the course:

calculate the costs of a specific product

determine the utilization of production capacity

determine the necessary production stocks

Course is included in study programmes: