



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Methods and tools of enterprise management

Course

Field of study

Safety Engineering

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

1/2

Profile of study

general academic

Course offered in

Polish

Requirements

elective

Number of hours

Lecture

30

Laboratory classes

Other (e.g. online)

Tutorials

15

Projects/seminars

Number of credit points

5

Lecturers

Responsible for the course/lecturer:

Ph.D., Daria Motala

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Faculty of Engineering Management

ul. J. Rychlewskiego 2, 60-965 Poznań

Responsible for the course/lecturer:

Ph.D., D.Sc., Hanna Włodarkiewicz - Klimek,
University Professor

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Prerequisites

Lack of precursor in earliest semesters. Student owns abilities of detection, associating (joining) and in social rates interpreting of phenomenon.

Course objective

Familiarization of student with bases of problems of managements enterprises, in functions of managements it and manners of realization .

Course-related learning outcomes

Knowledge



- knows the issues of management and organisation as well as marketing and logistic in context of safety engineering area, [P6S_WG_08]

Skills

- is able to use various techniques in order to communicate in work environment and other, [P6S_UW_02]

- is able to use analytical methods, simulation and experimental methods in order to form solutions of engineering tasks, as well as using methods, information and communication tools, [P6S_UW_04]

Social competences

- is able to recognise cause-and-effect dependencies in realisation of goals and rank importance of alternative or competitive tasks, [P6S_KK_01]

- is able to plan and manage business projects, [P6S_KO_01]

- is aware of need of professional behaviour, obey work ethics rights and respect for variety of opinions and cultures, [P6S_KR_01]

- is aware of responsibility for its own work and readiness for compliance with the rules of team work as well as being responsible for achieved goals, [P6S_KR_02]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture - formative assessment: presentations prepared by all students on selected personalities from the field of management science (max 20 points), activity during classes (max 15 points per semester, added to the summative assessment)

Lecture - summary assessment: final exam (max 80 points) and possible points for activity

Exercises - formative assessment: systematic work in accordance with the instructor's instructions (points for performing individual tasks), activity during classes

Exercises - summative assessment: the sum of points from the completed tasks and the final presentation

Programme content

Lecture:

Introduction to the science of management, approach to the organization of the enterprise. Selected concepts and management methods in the context of maintaining safe working conditions: TQM, Lean, Benchmarking, Kaizen, Six Sigma, 5S, Poka Yoke, Zero defects, FMEA, Muda, Kanban, Reengineering, Concurrent engineering, Partnership in the supply chain, Just in Time , Team forms of work organization, Empowerment, Teal organization, Management by objectives, Time management, Knowledge management, Culture conducive to learning, Agile Enterprise, Sustainable development.



Exercises:

6 thinking hats, Benchmarking, Concurrent engineering, turbulence, Learning organization, presentation

Teaching methods

- lecture classes: conversational lectures
- exercise classes: expert tables method interchangeably with cases method

Bibliography

Basic

1. Brilman J., (2000), Nowoczesne koncepcje i metody zarządzania, Warszawa.
2. Michalski E., (2020), Zarządzanie przedsiębiorstwem. Podręcznik akademicki, PWN, Warszawa. Stadler Ch.: The Four Principles of Enduring Success. „Harvard Business Review” 2007, No. 7-8.
3. Sławińska M., (2012), Niezawodność człowieka w interakcji z procesem przemysłowym, Wyd. Politechniki Poznańskiej, Poznań 2012.
4. Sudoł S. (2012), Nauki o zarządzaniu. PWE, Warszawa.
5. Trzecieliński S., Włodarkiewicz-Klimek H., Pawłowski K., (2013), Współczesne koncepcje zarządzania, Poznań.

Additional

1. Butlewski M. Jasiulewicz-Kaczmarek M., Miształ A. & Sławińska M., (2014), Design methods of reducing human error in practice, p. 1101-1106, [in]: Safety and Reliability: Methodology and Applications, Edited by Nowakowski T. et al. (Eds), Taylor & Francis Group, London.
2. Mrugańska B., Sławińska M., (2014), Narzędzia makroergonomii w sterowaniu bezpieczeństwem procesów pracy, s. 131-139, Zeszyty Naukowe Politechniki Poznańskiej, Nr 63, Organizacja i Zarządzanie, Wydawnictwo Politechniki Poznańskiej, Poznań.
3. Sławińska M., (2011), Reengineering ergonomiczny procesów eksploatacji zautomatyzowanych urządzeń technologicznych (ZUT), Rozprawy Nr 462, Wyd. Politechniki Poznańskiej, Poznań.
4. Motąła D., Bystryakow A.Y., Pizengolts V.M., Level of specialization and management methods in small and medium enterprises of the gas industry, Management and Production Engineering Review - 2018, vol. 9, no. 2



Breakdown of average student's workload

	Hours	ECTS
Total workload	125	5,0
Classes requiring direct contact with the teacher	50	2,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests, project preparation) ¹	75	3,0

¹ delete or add other activities as appropriate