



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Integrated the OHS management

Course

Field of study

Safety Engineering

Area of study (specialization)

Integrated Management of Safety in Organization

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

compulsory

Number of hours

Lecture

10

Laboratory classes

0

Other (e.g. online)

0

Tutorials

10

Projects/seminars

10

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

Małgorzata Sławińska, Ph.D, D.Sc, Eng.

Professor at Poznan University of Technology

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Responsible for the course/lecturer:

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Prerequisites

The student has a basic knowledge of organisation functioning management. The student has a knowledge of safety and hygiene of work. The student knows how to indicate incompatibilities with safety requirements and suggest solutions to remove it.



Course objective

Understanding the theoretical issues of the safety of work level and student introduction with basic matters of safety and work hygiene management process. Learn the issues concerning integration possibility implemented in management system organisation.

Course-related learning outcomes

Knowledge

- knows to issues related with ergonomics and safety of work,
- knows the issues concerning risk analysis, dangers and its effects in work environment in particular connected with ergonomic criteria of forming work environment,
- knows the issues concerning leadership and management, particularly concerning areas with system requirements (e.g. quality),
- knows trends in the development and best practises concerning safety ingeneering,
- knows basic methods, techniques, devices and materials used to solve simple ingeneering tasks in ergonomics and safety of work field,
- knows term human and the world of values, basic ethics values, role of a man in systems raliability human - technical object,

Skills

- is able to recognize and form in engineering tasks system aspects and non-technical skills, as well as social and technical, organizational, and economic,
- is able to analyse manner of a company functioning and measure technical solutions, in particular machines, technical devices, objects, systems, implemented processes and provided services,
- is able to identify changes of requirements, standards, regulations and norms and their impact on technological change and work environment, therefore need for constant knowledge supplementing,

Social competences

- is aware of correlations and cause-and-effect dependencies during realization of implementation the objective and rank significance alternative or competitive tasks,
- is aware of non-technical aspects and results of ingeneering activities including environmental impact and associated with it decisions-making,
- is able to plan and manage business project,
- is aware of need of professional behaviour, observe work ethics rights and respect for variety of opinions and cultures,
- is aware of necessity to act professional, obey ethics work rules and respect variety of opinion and cultures.



Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The lecture is conducted in a form of traditional informational lecture.

Purpose of exercises is solving cognitive task, implementing in practice the knowledge accumulated through the lecture.

During discussions is being use case study and situation method. Preparation do classes require independent student work, including work with normative documents.

Project sessions requires solving the problem on Student's own after consult with the teacher.

Programme content

Essence of safety and hygiene of work management process. Success factor in organisation in relation to safety and hygiene of work management. Safety of work forming based on PDCA. Methodology of systemic safety and hygiene of work management: organization context, leadership, participation, responsibility, health and safety policy, planning operation. Integration methods: process health and safety management, Resilience engineering. Work-related risk in health and safety management. System documentation and document activities in systemic form of health and safety. Audit and result of improvement actions. Level of perfection in organisation regarding to systemic safety and hygiene of work management

Teaching methods

- tutorials: conversational lecture,
- exercise classes: expert tables method interchangeably with cases method,
- project: multileg cognitive task.

Bibliography

Basic

1. Dahlke G., Górny A., Horst W. (2013), Zarządzanie uciążliwością i bezpieczeństwem pracy, Wydawnictwo Politechniki Poznańskiej, Poznań.
2. Dahlke G. (2013), Zarządzanie bezpieczeństwem pracy i higieną pracy, Wydawnictwo Politechniki Poznańskiej, Poznań.
3. Zymonik Z., Hamrol A., Grudowski P. (2013), Zarządzanie jakością i bezpieczeństwem, Polskie Wydawnictwo Ekonomiczne, Warszawa.
4. Ejdyś J., i inni, (2012), Zintegrowane systemy zarządzania jakością, środowiskiem i bezpieczeństwem pracy, Oficyna Wydawnicza Politechniki Białostockiej, Białystok.
5. PN-ISO 45001:2018-06, Systemy zarządzania bezpieczeństwem i higieną pracy. Wymagania i wytyczne stosowania, PKN, Warszawa.
6. PN-EN ISO 19011:2018-08, Wytyczne dotyczące auditowania systemów zarządzania, PKN, Warszawa.



Additional

1. Sławińska M., (2012), Niezawodność człowieka w interakcji z procesem przemysłowym, Wydawnictwo Politechniki Poznańskiej, Poznań.
2. Hamrol A. (2017), Zarządzanie i inżynieria jakości, Wydawnictwo Naukowe PWN SA, Warszawa.
3. PKN-ISO Guide 73:2012, Zarządzanie ryzykiem. Terminologia, PKN, Warszawa.
4. Górny A. (2009), Zarządzanie bezpieczeństwem pracy w budowaniu przewagi konkurencyjnej przedsiębiorstwa, Zeszyty Naukowe Uniwersytetu Szczecińskiego, Seria: Ekonomiczne Problemy Usług, Nr 34, nr 540, ss. 295-302.
5. Sławińska M. i inni (2019), Skuteczność zarządzania operacyjnego na podstawie bazy informacji eksploatacyjnej, Zeszyty Naukowe Politechniki Poznańskiej, Seria: Organizacja i Zarządzanie, Nr 80, ss. 235-250.
6. Pęciłło M. (2015), Wdrażanie koncepcji resilience engineering w ramach zarządzania bezpieczeństwem i higieną pracy w przedsiębiorstwie, CIOP - Państwowy Instytut Badawczy, Warszawa.

Breakdown of average student's workload

	Hours	ECTS
Total workload	75	3,0
Classes requiring direct contact with the teacher	30	1,5
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	45	1,5

¹ delete or add other activities as appropriate