



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Student Internship [N1|Bez2>PRAK]

Course

Field of study

Safety Engineering

Year/Semester

3/6

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

polish

Form of study

part-time

Requirements

compulsory

Number of hours

Lecture

0

Laboratory classes

0

Other (e.g. online)

160

Tutorials

0

Projects/seminars

0

Number of credit points

5,00

Coordinators

dr inż. Anna Mazur prof. PP
anna.mazur@put.poznan.pl

Lecturers

Prerequisites

The student has a knowledge about the complexity and multiple aspects of OHS management systems in an organization, and engineering knowledge in relation to broadly understood issues of safety engineering. The student has skills to perceive, associate and interpret phenomena occurring in organizations and use them in the area of OHS management in the organization, with particular emphasis on the engineering area. The student has ability to work in a team and solve problems together in a team. The student has awareness of the importance and necessity of raising one's competences and awareness of taking social responsibility for decisions made in relation to safety management in the organization

Course objective

The aim of the course is the observation, analysis and evaluation of processes related to safety engineering in an organization and the acquisition of practical skills to evaluate the organization and ergonomics of workplaces and to identify management and engineering processes implemented in the enterprise.

Course-related learning outcomes

Knowledge:

The student knows at an advanced level the issues of technical safety, the ways of functioning of security systems in organizations, as well as the rules of organization of security services in enterprises [K1_W02].

The student knows at an advanced level the sources of threats and their effects in enterprises of various industries, knows what are the methods of risk assessment in the work environment and what are the practical aspects of work accidents and occupational diseases in enterprises [K1_W03].

The student knows how the issues of ergonomics, human ecology and environmental protection are taken up in enterprises [K1_W05].

The student knows the fundamental dilemmas of security engineering as well as development trends and good practices in the field of security engineering [K1_W10].

The student knows the methods, techniques and tools at an advanced level, including computer-aided tools, which are used in enterprises in the area of solving problems related to security engineering [K1_W11].

The student knows the principles of copyright protection, information security and intellectual property protection that are used in enterprises of various industries [K1_W12].

Skills:

By implementing the internship program, the student is able to properly select the sources and information derived from them and to make a critical assessment of this information [K1_U01].

The student is able to use various techniques to communicate with the tutor and other co-workers during the implementation of the internship [K1_U02].

During the internship, the student is able to use analytical, simulation and experimental methods to formulate and solve the tasks specified in the internship program [K1_U04].

The student is able to circle, prepare and use personal protective equipment required for a specific workplace [K1_U05].

During the internship, the student will be able to evaluate the machines, devices, facilities, systems, processes and services used in terms of the requirements of safety engineering [K1_U06].

The student is able to design a selected process, system or object taking into account the requirements of safety engineering and make its initial economic assessment [K1_U07].

The student is able to find, select and apply selected standards to solve various problems in the area of safety engineering [K1_U08].

The student is able to prepare, participate and take part in the debate on security engineering problems occurring in the enterprise [K1_U09].

Student is able to prepare in Polish and English studies in the field of safety engineering needed in a selected enterprise [K1_U10].

Can identify requirements describing various areas of safety engineering, can define the scope of changes and the need to supplement knowledge in the field of standards and regulations [K1_U12].

Social competences:

Student potrafi dostrzegać zależności przyczynowo- skutkowe podczas realizacji programu praktyk, potrafi określać istotność poszczególnych zadań wynikających z programu praktyk [K1_K01].

Student jest świadomy roli ciągłego doskonalenia swoich kompetencji w obszarze inżynierii bezpieczeństwa [K1_K02].

Student ma świadomość jaka jest odpowiedzialność za podejmowane decyzje w obszarze inżynierii bezpieczeństwa [K1_K03].

Potrafi planować i zarządzać realizacją programu praktyk [K1_K04].

Potrafi przekazywać informacje oraz współpracować z innymi pracownikami i/lub praktykantami podczas realizacji programu praktyk [K1_K05].

Student szanuje poglądy innych pracowników i/lub praktykantów [K1_K06].

Student jest odpowiedzialny za pracę własną oraz dobrze współpracuje w zespole mając na uwadze dobro ogółu [K1_K07].

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formative assessment:

It consists of answers to the following questions: Has the Student been properly prepared for the internships (has correctly completed the required documents and provided them to the Supervisor in accordance with the deadlines)? Has the Student consulted any changes regarding the organization of internships? Has the Student prepared the internships report in accordance with the guidelines? Did the

Student refer the Supervisor the course of the internship, particularly emphasizing his own ideas proposed in the company.

Grade of assessment: definitely yes, on average, definitely not.

Summative assessment:

Appraisal of the Supervisor based on the prepared report. The report is prepared in accordance with the internship program.

Programme content

1. Presentation of the business entity: legal form, industry / services rendered / range offered), technologies used, forms of production .
2. Company organizational structure.
3. Analysis of OHS management processes: management and administration in the area of company safety, training processes for management and other employees, planned OHS reviews and operation of equipment, compliance with occupational health and safety rules, analysis of critical tasks and work procedures, accident investigation, preparing the company for emergency situations, incident analysis, processes for selecting, applying and using personal protective equipment, health protection and occupational hygiene in the company, internal audits of the safety management system, interpersonal and group communication in the field of health and safety, promotion of occupational safety issues in the company.
4. Organization of work at the workplace: tasks carried out at the selected workplace, labor standard (quantitative or qualitative), how it is set and updated, workplace organization.
5. Ergonomics of the workplace: development of the work place, analysis of ergonomic risk factors, breaks at work and the opportunity to rest, material parameters of the working environment, non-material parameters of the working environment.
6. Suggestions for improvement in the workplace.

Teaching methods

Classical problem method, situational method, exchange of ideas, SWOT, demonstration method, method of production exercises, method of experiments, workshop method.

Bibliography

Basic:

1. Regulations of internships for students implemented at Faculty of Engineering Management.
2. Procedures, instructions and descriptions of company processes.
3. Regulations and other company standards.

Additional:

Enterprise documentation available during internships.

Breakdown of average student's workload

	Hours	ECTS
Total workload	160	5,00
Classes requiring direct contact with the teacher	5	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	155	4,50