



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Internship mobility [S2TIIIZM1E>PRAK]

Course

Field of study

Information Technology for Smart and Sustainable Mobility

Year/Semester

2/3

Area of study (specialization)

–

Profile of study

general academic

Level of study

second-cycle

Course offered in

English

Form of study

full-time

Requirements

elective

Number of hours

Lecture

0

Laboratory classes

0

Other

160

Tutorials

0

Projects/seminars

0

Number of credit points

5,00

Coordinators

dr inż. Jędrzej Kasprzak

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Lecturers

Prerequisites

KNOWLEDGE: The student has knowledge of the applicable rules for completing internships. They are familiar with the internship regulations and the conditions for obtaining credit. The student has a basic understanding of the subjects covered by the study program. They possess knowledge related to the functioning of transport, particularly in the areas of information technologies and transport systems.

SKILLS: The student is capable of creatively applying the knowledge acquired during first-cycle (undergraduate) studies. **SOCIAL COMPETENCES:** The student is able to work in a team. They can plan their work, correctly interpret and carry out assigned tasks, and present the results of their work verbally.

Course objective

Verification of the student's theoretical knowledge against real-life conditions, and gaining new professional experience in an actual work environment. Practical application of the knowledge and skills acquired during the course of study. Familiarization with the realities of workplace functioning, including legal regulations, organizational hierarchy, confidentiality, interpersonal relations, and learning to analyze and adopt positive role models (especially responsibility, loyalty to the company, accountability, sense of identity, self-worth, etc.) useful in future life, particularly in the professional sphere. An attempt to assess the role and significance of a workplace in the economy and in the life of the local community, as well as gaining experience on the labor market.

Course-related learning outcomes

Knowledge:

The student has knowledge of ethical codes related to scientific research conducted in the field of transport systems

The student demonstrates knowledge of the economic, legal, and other conditions affecting the operations of companies in the transport sector

The student has basic knowledge of management, business operations, and individual entrepreneurship

The student has knowledge of the fundamental dilemmas of the industry in which they are undertaking their internship

Skills:

The student is able - when formulating and solving engineering tasks - to integrate knowledge from various areas of transport and computer science (and, if necessary, also from other scientific disciplines), and to apply a systems approach that also takes non-technical aspects into account

The student is able to collaborate within a team, taking on various roles

The student is able to identify directions for further learning and carry out the process of self-education, including supporting the learning of others

Social competences:

The student is prepared to think and act in an entrepreneurial manner

The student is aware of the need to develop their professional achievements, uphold the professional ethos, and adhere to the principles of professional ethics

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Final assessment:

After completing the internship, students are required to submit the required internship documentation to the academic internship supervisor, confirmed by the company internship supervisor. The verification of the intended learning outcomes is carried out by evaluating the submitted documentation, including the assessment provided by the company internship supervisor.

Possibility of recognizing professional employment as equivalent to the mandatory internship (subject to program compatibility).

Programme content

Familiarization with the functioning of production or service enterprises that carry out transport-related activities either for their own purposes (in-house or outsourced) or provide transport or IT services to third-party companies, as well as companies offering the opportunity to learn the basic concepts of applying information technologies in transport.

Course topics

Tasks of the student-intern:

1. Completion of occupational health and safety (OHS) training in accordance with the regulations in force at the company.

2. Execution of tasks included in the internship program within the following thematic areas:

- Understanding the principles of work organization: organizational structures, division of responsibilities, procedures, work planning, control, including familiarization with the company's

structure and the functions of individual departments;

- Familiarization with the ISO-900x certification, if applicable in the company;
- Completion of an individual engineering task in the field of transport engineering or information systems, appropriate to the intern's level of education, and reporting on the completion of this task;
- Participation in team-based design and implementation of tasks at the internship site;
- Familiarization with the construction, programming methods, assembly, commissioning, or testing of systems operated, designed, assembled, or commissioned in the company;
- Involvement in the process of creating, testing, documenting, and implementing software used in the company or in processes applied within the company.

Teaching methods

Presentation of the requirements for completing the pre-diploma internship during an organized meeting with students. Providing information via electronic communication. Verification of the completeness and correctness of the documentation related to the internship.

Bibliography

Basic:

Regulations for Student Professional Internships at Poznań University of Technology

Regulations for First- and Second-Cycle Studies adopted by the Academic Senate of Poznań University of Technology

Templates of documents required for the internship: agreement, report, detailed internship program

Additional:

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Breakdown of average student's workload

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