



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Vocational internship

Course

Field of study

Artificial intelligence

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

3/6

Profile of study

general academic

Course offered in

English/Polish

Requirements

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

160

Number of credit points

4

Lecturers

Responsible for the course/lecturer:

dr inż. Izabela Janicka-Lipska

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tel: 61 6653992

Wydział Informatyki i Telekomunikacji

Instytut Informatyki

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Responsible for the course/lecturer:

dr Maciej Machowiak

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Prerequisites

Students starting this course should have essential competencies acquired during the earlier years of studies, which allow them to do the internship. The students should also understand the necessity to expand their competences / be ready to cooperate within the team. When it comes to social competencies, the students must present honesty, responsibility, perseverance, cognitive curiosity, creativity, personal culture, and respect for other people.



Course objective

The purpose of the student internship is to familiarize students with the practical aspects of the IT/AI profession and to get to know a potential future employer.

Course-related learning outcomes

Knowledge

The student knows and understands the basic techniques, methods, algorithms and tools used in the process of solving IT tasks with particular emphasis on artificial intelligence, including but not limited to discovering patterns from various types of data and their synthesis into knowledge and inferences.

The student has a basic knowledge of the life cycle and processes of software and hardware information systems with particular emphasis on artificial intelligence systems.

Skills

The student has the necessary preparation to work in a business environment, including an industrial environment, and knows the safety rules related to the profession of information technology - artificial intelligence specialist.

The student is able to critically analyze and evaluate how information systems function and how artificial intelligence methods work.

The student has the ability to simply adapt existing and formulate and implement new algorithms, including algorithms typical of different strands of artificial intelligence, using at least one of the popular tools.

The student is able to acquire, analyze and process data of various types, protect it from unauthorized access, and synthesize it into knowledge and conclusions useful for solving a wide range of problems arising in the work of a computer scientist, a specialist in artificial intelligence, including problems of industrial, business and administrative specificity.

The student is able to plan and organize work in the implementation of engineering tasks - individually and in a team.

Social competences

The student is able to function and cooperate in a group, assuming various roles in it, and is able to appropriately determine priorities for the implementation of a task defined by himself or others.

The student is able to think and act in an entrepreneurial manner, including finding commercial applications for the created artificial intelligence systems, bearing in mind not only economic benefits, but also legal and social aspects.

The student is ready to responsibly perform professional functions, cultivate and disseminate patterns of proper conduct in the conducted activity, as well as correctly identify and resolve dilemmas related to the performance of the profession of a computer scientist - a specialist in artificial intelligence.



Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Summative assessment:

After completing the internship, students are required to provide the internship supervisor with required internship documentation approved by the company supervisor.

Checking the assumed learning outcomes is realized by the assessment of the aforementioned documentation submitted by the student to the internship supervisor, including the opinion issued by the company internship supervisor.

Programme content

Tasks of the student:

1. to receive OHS training according to the company regulations.
2. perform tasks from the internship program in the following thematic scope:
 - learning the principles of work organization: organizational structures, division of competences, procedures, work planning, control, including: getting acquainted with the structure of the company and functions of individual departments;
 - acquaintance with the ISO-900x certificate, if the company has it;
 - completing an independent engineering task appropriate to the apprentice's level of training and accounting for completion of this task;
 - joining in the collaborative design and implementation of systems being addressed at the internship site;
 - becoming familiar with the construction, programming methods, assembly, commissioning, or testing of systems operated, designed, assembled, or commissioned at the site;
 - involvement in the development, testing, documentation, and implementation of software used in the company.

Teaching methods

Depending on the place of internship and the tasks carried out, the following teaching methods may be used: (1) problem or conversation lecture; (2) brainstorming; (3) project.

Bibliography

Basic

1. Study regulations of full-time and part-time first and second cycle and long-cycle studies adopted by the Academic Senate of Poznań University of Technology.
2. Regulations of student internships at Poznan University of Technology.



Additional

1. R. Belbin, Twoja rola w zespole. Gdańsk: GWP, 2008.
2. B. Rączkowski, BHP w praktyce. Gdańsk: ODDK, 2014

Breakdown of average student's workload

	Hours	ECTS
Total workload	160	4
Classes requiring direct contact with the teacher	0	0
Work ordered to be carried out by the student's supervisor in the company / institution where the practice is carried out, preparation of documentation ¹	160	4

¹ delete or add other activities as appropriate