POZNAN UNIVERSITY OF TECHNOLOGY

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name
Internship

Course

Field of study	Year/Semester
Electronics and Telecommunications	III/VI
Area of study (specialization)	Profile of study
	general academic
Level of study	Course offered in
First-cycle studies	English
Form of study	Requirements
full-time	elective

Number of hours

Lecture	Laboratory classes	Other (e.g. online)
Tutorials	Projects/seminars	

Number of credit points
3

Lecturers

Responsible for the course/lecturer:

dr inż. Janusz Kleban

janusz.kleban@put.poznan.pl

Responsible for the course/lecturer:

Prerequisites
The student has knowledge of basic and major courses (modules) included in the programme for the Electronics and Telecommunications study field. Knows occupational health and safety principles.

The student is able to perform tasks suited to the level of skills expected from the student of Electronics and Telecommunications, according to the teaching of basic and major courses.

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Demonstrates responsibility for designed electronic and telecommunication systems. Is aware of the limitations of his/her current knowledge and skills; is committed to lifelong learning.

Course objective

To gain practical skills and practical knowledge related to the field of study, in particular to the field of electives. Expanding the knowledge acquired on obligatory and elective courses and developing the skills of using it in professional work. To acquaint students with practical aspects of the profession of telecommunications engineer, in particular improving the skills of organizing his/her own and team work, as well as responsibility for the work performed and decisions made.

Course-related learning outcomes

Knowledge

1. The student has knowledge, together with a necessary practical background, of basic and major courses taught in the Electronics and Telecommunications study field..

2. Knows the basic techniques, methods and tools that are used in the process of solving problems regarding the construction and operation of network applications, devices and systems.

3. Has a basic knowledge of running a business.

Skills

1. Has basic skills in the field of analysis, design, configuration and assessment of critical parameters related to: systems, networks and electronic devices, network equipment, and IT applications - depending on the place of internship and tasks carried out.

  2. The student is able to practically apply the knowledge gained during the academic curriculum.

3. Is able to put into practice the principles of health and safety at work related to the profession of telecommunications engineer and has the necessary preparation to work in business organizations.

Social competences

1. Demonstrates responsibility and professionalism in solving technical problems. Is able to participate in collaborative projects.

2. Demonstrates responsibility for designed electronic and telecommunication systems. Is aware of the hazards they pose for individuals and communities if they are improperly designed or produced.

3. Correctly interprets and resolves dilemmas related to working in the field of electronics and telecommunications. Is able to think and act in a businesslike way.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Achievement of learning outcomes is verified by the Internship Coordinator on the basis of the following documents: (1) Internship Certificate issued by the institution accepting the student for the internship, (2) Internship Diary confirmed by the internship supervisor from the company, with particular emphasis

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on the internship supervisor opinion's, (3) Internship Self-Evaluation – survey form of usefulness and satisfaction with the completed internship.

If the student apply for obtaining credit for internship on the basis of work performed as part of employment the documents submitted by the student, e.g. copy of an employment contract or certificate of employment at a given post or relevant documents confirming the compliance of their business activities with the internship programme, are subject to analysis. Professional work carried out in these modes must guarantee the achievement of the learning outcomes assumed for student internships.

Programme content

The basic tasks of the trainee should include:

1. Completing health and safety training according to the regulations applicable to the employees of the department in which the student is taking up the internship.

2. Acquaintance with the profile of activities and principles of work organization in the enterprise, organizational structures, division of competences, work planning and control procedures as well as document circulation and information flow.

3. Getting to know the company's IT infrastructure, how is used the Internet techniques in the company's operations, and technical data protection problems.

4. Active participation in solving practical tasks consisted (depending on the specificity of the workplace), among others of:

• performing an independent engineering task relevant to the trainee's level of knowledge in the field of designing, building or repairing electronic, optical or optoelectronic systems and devices, and set account for this task;

• performing an independent task in the area of writing or modifying computer programs, or to join a team working on design and implementation of IT systems;

• participation in the management of a telecommunication or computer network, which is the subject of activities at the place of internship; in particular in provisioning, configuring and testing data transmission devices and network nodes as well as measuring network parameters;

• participation in the implementation, configuration and supervision of data security procedures and secure the network against external attacks.

5. Preparation of the Internship Diary.

Teaching methods

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Depending on the location of the internship and the tasks carried out, the following teaching methods can be used: (1) problem or conversation lecture; (2) exchange of ideas (brainstorming); (3) project method or expert tables; (4) observation, measurement in the field.

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. Organisational Regulations of Student Internship for students of Electronics and Telecommunications, and Teleinformatics at the Faculty of Computing and Telecommunications of the Poznan University of Technology

Additional

1. B. Rączkowski, BHP w praktyce. Gdańsk: ODDK, 2014

Breakdown of average student's workload

	Hours	ECTS
Total workload	160	4,0
Classes requiring direct contact with the teacher		
Student's own work (carrying tasks under the supervision of the internship supervisor at the company, preparation of the internship diary and survey) [1]	160	4

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[1] delete or add other activities as appropriate