## 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

Pre-diploma Seminar

Course

Field of study Year/Semester

Education in Technology and Informatics 2/2

Area of study (specialization) Profile of study

general academic

Level of study Course offered in

Second-cycle studies Polish

Form of study Requirements full-time compulsory

**Number of hours** 

Lecture Laboratory classes Other (e.g. online)

Tutorials Projects/seminars

30

**Number of credit points** 

2

## **Lecturers**

Responsible for the course/lecturer:

Responsible for the course/lecturer:

prof. dr hab. Ryszard Czajka

e-mail:ryszard.czajka@put.poznan.pl

tel. 61-665-3234

Faculty of Materials Engineering and Technical

**Physics** 

Piotrowo street 3, 60-965 Poznań

## **Prerequisites**

Student:

- -knows and understands the mathematical apparatus necessary to describe the basic rights and solve tasks related to technical issues, including: the basis of the differential and integral calculus, statistics and numerical methods
- has basic knowledge of selected departments of physics, chemistry, necessary to understand the basic technological processes
- has an orderly and theoretically sub-structured basic knowledge in the field of materials science,

## POZNAN UNIVERSITY OF TECHNOLOGY



## EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

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

- knows the basic methods, techniques and tools used in solving complex engineering tasks from the selected field of computer science and technology.
- can use the acquired mathematical knowledge to describe processes, create models, write algorithms in the field of technology; knows how to use analytical methods to formulate and solve tasks in the field of physical quantities measurements
- he can obtain information from literature, databases and other sources, interpret them and draw conclusions, formulate and justify opinions
- he can prepare and present an oral presentation in Polish and foreign language
- he can work on the assigned task independently and cooperate in a team, taking on different roles in it; is responsible for this work
- it follows the principles of professional ethics; is responsible for the reliability of the results of its work and theirs interpretation.

## **Course objective**

preparing the student for the M.Sci thesis realization, referring the results obtained and drawing on them thesis and conclusions, as well as drawing a vision of the thesis carried out

## **Course-related learning outcomes**

Knowledge

## Student:

- 1. is familiar with the achievements, challenges and limitations of selected advanced issues applicable to modern technologies [K2W\_01], [K2W\_15].
- 2. has detailed knowledge of physics, materials engineering and computer science needed to formulate and solve specific tasks relating to the performance of thesis [K2W\_11], [K2W\_14].
- 3. has knowledge on preparation of the relevant technical documentation [K2W\_04].

## Skills

Student is able to obtain information on physical and technical issues from literature and databases, critically analyse them, integrate them and formulates opinions in physical, technical and economic aspects [K2U\_03], [K2U\_04].

## Social competences

#### Student:

- 1. can work on the designated multi-threaded task responsibly, independently and in a team [K2K\_03].
- 2. is able to adequately define priorities for the performance of a task which he/she or others have defined; is aware of the importance of behaving professionally [K2K 04]

## POZNAN UNIVERSITY OF TECHNOLOGY



### EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

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

## Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Effect	Form of assessment A	ssessment criteria
W01-W02	Evaluation of individual oral presentation	50.1%-70.0% (3)
	using a computer program	70.1%-90.0% (4)
	and evaluation of answers to questions about the presentat	tion. from 90.1% (5)
U01-U02	Evaluation of individual oral presentation	50.1%-70.0% (3)
	using a computer program	70.1%-90.0% (4)
	and evaluation of answers to questions about the presenta	tion. from 90.1% (5)
K01-K02	Evaluation of individual oral presentation	50.1%-70.0% (3)
	using a computer program	70.1%-90.0% (4)
	and evaluation of answers to questions about the presentat	tion. from 90.1% (5)

## **Programme content**

- 1. Rules for the preparation of the thesis.
- 2. Tips for preparing presentations in Power Point programs.
- 3. State of the art of technology in the world

## **Teaching methods**

seminar, consultation of ongoing projects, workshops – discussions on presented diploma projects

## **Bibliography**

## Basic

1. Selected individually by the student according to the subject matter of the work carried out

## Additional

1. Selected individually by the student according to the subject matter of the work carried out





## EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

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

# Breakdown of average student's workload

	Hours	ECTS
Total workload	49	2,0
Classes requiring direct contact with the teacher	34	1,0
Student's own work (literature studies, preparation for	30	1,0
laboratory classes/tutorials, preparation for tests/exam, project		
preparation) <sup>1</sup>		

 $<sup>^{\</sup>mbox{\scriptsize 1}}$  delete or add other activities as appropriate