



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Master's Thesis [S2ETI2>PrDM]

Course

Field of study

Education in Technology and Informatics

Year/Semester

2/3

Area of study (specialization)

–

Profile of study

general academic

Level of study

second-cycle

Course offered in

Polish

Form of study

full-time

Requirements

elective

Number of hours

Lecture

0

Laboratory classes

0

Other

0

Tutorials

0

Projects/seminars

75

Number of credit points

12,00

Coordinators

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Lecturers

Prerequisites

The student has knowledge and skills, necessary to prepare a diploma thesis, acquired during educational activities in semesters 1-7.

Course objective

To deepen knowledge and skills related to solving engineering problems in the field of material engineering and presentation skills of these works' outcomes.

Course-related learning outcomes

Knowledge:

Has knowledge related to selected topics from the field of high vacuum techniques and low temperatures used to analyze mechanisms of physical, chemical, and technological processes

Knows the current state of the art and is familiar with the latest development trends in nanotechnology, optoelectronics, bioelectronics, quantum engineering and computer simulation of physical processes

Skills:

is able to prepare and deliver an oral presentation and report in Polish and a foreign language, and participate in discussions and debates

is able to translate scientific achievements described in literature into technical language

Social competences:

Is ready to act according to professional ethics, including responsibility for the reliability of the obtained results of their work and its interpretation, as well as evaluating the work of others

Understands the need for and knows the possibilities of continuous training - improving professional, personal and social competence; is aware of the need to consult experts when solving engineering tasks beyond own competence

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The course credit is based on the assessment of:

- the progress in the master's thesis, including a literature review related to the scientific problem being addressed,
- the comparison of own results with the prepared literature review,
- consistency (timeliness) in completing the master's thesis work.

Programme content

In line with the topic of the diploma thesis.

Course topics

In line with the topic of the diploma thesis.

Teaching methods

Discussion with the graduate on current problems, clarifications on the spot or pointing to sources in the literature on the topic to solve tasks.

Bibliography

Basic:

Scientific and technical literature necessary for the preparation of the thesis.

Additional:

Scientific and technical literature necessary for the preparation of the thesis.

Breakdown of average student's workload

	Hours	ECTS
Total workload	300	12,00
Classes requiring direct contact with the teacher	75	3,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	225	9,00