

Cracow University of Technology

## Course syllabus

binding for the doctoral students of the CUT Doctoral School commencing their studies  
in the academic year 2022/2023

### Information on the course

Name of the course in Polish	Seminarium doktoranckie w dyscyplinie
Name of the course in English	Doctoral seminar in discipline
Number of the ECTS points	10
Language of instruction	Polish
Category of the course	Mandatory
Field of education	Engineering and technology
Discipline of education	Materials engineering
Person responsible for the course Contact	Stanisław Kuciel, <i>doctor habilitatus</i> , prof. of CUT stanislaw.kuciel@pk.edu.pl

### Type of course, number of hours in the study programme curriculum

Semester	Credit type (G / NG)*	Lecture	Practical classes	Laboratory	Computer Lab	Project Class	Seminar
2	NG	0	0	0	0	0	15
3	NG	0	0	0	0	0	15
4	NG	0	0	0	0	0	15
5	NG	0	0	0	0	0	15
6	NG	0	0	0	0	0	15

\*G – graded credit, NG – non-graded credit

### Course objectives

Code	Objective description
Objective 1	Introduction to the formal requirements for the implementation of a doctoral dissertation.
Objective 2	Principles of mid-term evaluation and ways to prepare for it.
Objective 3	Independent assessment of the implementation of work with the prepared Individual Research Plan.

### Learning outcomes

Code	Description of the learning outcome adjusted to the specific characteristics of the discipline	Learning outcome symbol in the CUD DS	Methods of verification
<b>OUTCOMES RELATED TO KNOWLEDGE</b>			

EUW1	The doctoral student knows the current state of knowledge and development trends in the area of discipline and the subject of the doctoral dissertation.	E_W01, E_W02	A presentation, discussion.
<b>OUTCOMES RELATED TO SKILLS</b>			
EUU1	The doctoral student is able to justify the formulated goal and scope of the doctoral dissertation, including the research hypothesis / hypotheses.	E_U01, E_U02,	A presentation, discussion.
EUU2	The doctoral student is able to select the research methodology used and justify the selection.	E_U01	A presentation, discussion.
EUU3	The doctoral student is able to use research methods, techniques and tools and to draw correct conclusions based on conducted scientific research and obtained results	E_U01	A presentation.
EUU4	The doctoral student is able to actively participate in a scientific discussion, in particular, to formulate critical remarks and provide answers.	E_U06, E_U07	Discussion.
EUU5	The doctoral student is able to carry out scientific research that requires the cooperation of other people from research teams at the Cracow University of Technology or with the participation of the Industry.	E_U09, E_U10	A presentation
<b>OUTCOMES RELATED TO SOCIAL COMPETENCES</b>			
EUK1	The doctoral student is able to critically approach their scientific activity, the organization of scientific work, and take into account the ethical aspects of scientific activities and the principles of intellectual property protection.	E_K01, E_K02, E_K03, E_K07	A presentation, discussion.

### Course outline

No.	Contents	Learning outcomes for the course	No. of hours
<b>SEMINAR</b>			
S1	Semester 2. Formal conditions for the implementation of a doctoral dissertation at the CUT DS. Rules for writing a doctoral dissertation. Presentation of the doctoral students' individual research plans. Discussing the area and subject of doctoral dissertations. Presentation and indicating the possibility of publishing the results of scientific research. Overview of the rules for increasing the doctoral scholarship.	EUW1, EUU1, EUU4, EUK1	15
S2	Semester 3. Formal and content-related conditions of the mid-term evaluation. Verification of individual research plans implementation.	EUU2, EUU3, EUU4, EUU5, EUK1	15
S3	Semester 4. Presentation of the progress in the implementation of the doctoral dissertation in relation to individual research plans and in the context of the mid-term evaluation.	EUW1, EUU1, EUU2, EUU3, EUU4, EUU5, EUK1	15

S4	Semester 5. Presentation of further progress in the implementation of the doctoral dissertation in the context of comments and recommendations of the mid-term evaluation committee.	EUU2, EEU3, EEU4, EEU5, EUK1	15
S5	Semester 6. Individual analysis of the progress in the implementation of doctoral dissertations with respective supervisors.	EUW1, EEU1, EEU2, EEU3, EEU4, EEU5, EUK1	15

### The ECTS points statement

WORKING HOURS SETTLEMENT	
Type of activity	Average number of hours (45 min.) dedicated to the completion of an activity type
<b>SCHEDULED CONTACT HOURS WITH AN ACADEMIC TEACHER</b>	
Hours allotted in the syllabus	75
<b>HOURS WITHOUT THE PARTICIPATION OF AN ACADEMIC TEACHER</b>	
Independent study of the course contents	125
Preparation of a presentation, a discussion.	100
<b>ECTS POINTS STATEMENT</b>	
Total number of hours	300
The ECTS points number	10

### Preliminary requirements

No.	Requirements
1	Not specified

### Course credit assignment conditions / method of the final grade calculation

No.	Description
<b>COURSE CREDIT ASSIGNMENT CONDITIONS</b>	
1	75% attendance in class.
2	Presentation of a paper. Involvement in discussion.
<b>METHOD OF THE FINAL GRADE CALCULATION</b>	
Course credit granted after meeting the credit assignment conditions.	

### Additional information

Not specified
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### The course reading list

1	Kuciński K.: Elementy metodyki rozprawy doktorskiej, Difin 2015
2	Gambarelli G., Łucki Z., <i>Praca dyplomowa i doktorska</i> , Warszawa, 2017, CeDeWu.