

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 II
Name of the course in English	Doctoral seminar II
Number of the ECTS points	2
Language of instruction	Polish
Category of the course	Mandatory
Field of education	Engineering and Technology
Discipline of education	Chemical Engineering
Person responsible for the course Contact	Prof. Zbigniew Wzorek, <i>doctus hab.</i> , DSc zbigniew.wzorek@pk.edu.pl

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

Semester	Credit type (G / NG)*	Lecture	Practical class	Laboratory	Computer laboratory	Project class	Seminar
4	NG	0	0	0	0	0	15

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

Course objectives

Code	Objective description
Objective 1	To master the ability to compile research results.
Objective 2	To master the ability to collect and present literature data.

Learning outcomes

Code	Description of the learning outcome adjusted to the specific characteristics of the discipline	Learning outcome symbol in the CUT SD	Methods of verification
OUTCOMES RELATED TO KNOWLEDGE			
EUW1	The graduate knows and understands – to the extent that they are able to revise the existing paradigms – the world achievements, including theoretical foundations as well as general and selected specific issues appropriate for a given scientific discipline.	E_W01,	Involvement in class activities; delivering a presentation
EUW2	The graduate knows and understands the main development trends of the scientific disciplines concerned.	E_W02	Involvement in class activities; delivering a presentation

EUW3	The graduate knows and understands the principles of disseminating the results of scientific activity, including an open access mode.	E_W03	Involvement in class activities; delivering a presentation
EUW6	The graduate knows and understands the economic, legal, ethical and other crucial determinants of scientific activity.	E_W06	
OUTCOMES RELATED TO SKILLS			
EUU1	The graduate is able to make use of knowledge from different fields of science or arts to creatively identify and innovatively solve complex problems or perform research tasks, in particular: <ul style="list-style-type: none"> - to identify the aim and object of scientific research, - to formulate a research hypothesis, - to develop research methods, techniques and tools and use them creatively, - to draw conclusions on the basis of scientific research. 	E_U01	Giving a paper; a presentation
EUU2	The graduate is able to critically analyse and evaluate the results of scientific research, expert activity and other creative works as well as their contribution to knowledge development.	E_U02	Delivering a paper; a presentation
EUU7	The graduate is able to participate in a scientific discourse.	E_U07	Discussion
OUTCOMES RELATED TO SOCIAL COMPETENCES			
EUK1	The graduate is prepared to critically evaluate the achievements within a given scientific discipline.	E_K01	Delivering a presentation; discussion
EUK2	The graduate is prepared to critically evaluate their own contribution to the development of a given scientific discipline.	E_K02	Discussion
	The graduate is prepared to maintain and develop the ethos of scientific and creative communities, among others: <ul style="list-style-type: none"> - to conduct scientific activities in an independent manner, - to respect the principle of public ownership of the results of scientific activity, including the principles of intellectual property protection. 		

Course outline

No.	Contents	Learning outcomes for the course	No. of hours
Seminar			
S1	Presentation of the effect of the literature review on the conducted research work. Critical evaluation of own research plan in the context of scientific achievements	EUU1, EUU2, EUW3	10
S2	Discussion about the presented contents.	EUK1, EUK2	5

The ECTS points statement

WORKING HOURS SETTLEMENT	
Type of activity	Average number of hours (45 min.) dedicated to the completion of an activity type
SCHEDULED CONTACT HOURS WITH THE ACADEMIC TEACHER	
Hours allotted in the syllabus	15
Consultations	1
Examination / course credit assignment	
HOURS WITHOUT THE PARTICIPATION OF THE ACADEMIC TEACHER	
Independent study of the course contents	10
Preparation of a paper, report, project, presentation, discussion	4
ECTS POINTS STATEMENT	
Total number of hours	30
The ECTS points number	2

Preliminary requirements

No.	Requirements
1	...

Course credit assignment conditions / method of the final grade calculation

No.	Description
COURSE CREDIT ASSIGNMENT CONDITIONS	
1	80% attendance in class. Delivering at least two presentations.
METHOD OF THE FINAL GRADE CALCULATION	
Weighted average of the test and presentation grades.	

Additional information

None

The course reading list

1	...
2	...