

Warsaw University of Technology | Doctoral School No. 1

Course offered in the Doctoral School No. 1
– Spring semester of the 2021/2022 academic year

TITLE
Research data evaluation, publishing policy and writing of scientific papers and grant proposals.
CONDUCTING UNIT
Doctoral School No. 1
SCIENTIFIC DISCIPLINE
Chemical sciences
IMPLEMENTING UNIT
102000 - Faculty of Chemistry
SUMMARY DESCRIPTION
The course will be taught in English. In its first part the lecturer will critically describe and evaluate principal international editing companies publishing papers on chemistry and materials science. In the second part of the course PhD students, working in groups of five, will be writing a scientific paper based on experimental data provided by the lecturer. In the third part of the course PhD students, working in the same groups, will write a proposal of an European grant.
FULL DESCRIPTION
In the first part of the course the lecturer will discuss in detail strong and weak points of the principal publishing companies (ACS, RSC, Wiley, Springer, MDPI). This will be followed by a presentation of scientific data which will then be used by PhD students for writing a scientific paper. In the second part of the course the students, working in groups of five, will write particular parts of this paper under the lecturer's supervision: Abstract, Introduction, Experimental, Results and Discussion and Conclusions. Then the lecturer will comparatively discuss the completed papers, indicating their strong and weak points. In the second part of the lecture, the lecturer will present a different set of experimental data which will be then used by the PhD, working in the same groups, for writing an European grant proposal.
LITERATURE
1. Barbara Gastel, Robert Day "How to write and publish a scientific paper" 2. Marek Kosmulski "Dobrze wypełnione sloty, czyli jak być naukowcem w Polsce w latach 20. XXI wieku." The second book is in Polish, therefore only the book of Barbara Gastel is recommended for international students who do not read in Polish.

LEARNING OUTCOMES

PhD students should get acquainted with the main principles of scientific papers and research proposals writing in the domains of chemistry, chemical engineering and materials science.

ASSESSMENT METHODS AND CITERIA; COURSE COMPLETION FORM

No examination. The grades will be attributed on the basis of the paper and the research proposal presented by each group.

LANGUAGE OF THE COURSE**ECTS CREDITS**

English

5

TYPE OF CLASSES**NUMBER OF HOURS****COURSE INSTRUCTOR**

Lecture

30

Adam Proń, prof. dr hab. inż.