

Title <b>Diploma project</b>	Code <b>1010701271010700435</b>
Field <b>Chemical Technology</b>	Year / Semester <b>4 / 7</b>
Specialty -	Course <b>core</b>
Hours Lectures: - Classes: - Laboratory: - Projects / seminars: <b>1</b>	Number of credits <b>15</b>
	Language <b>polish</b>

**Lecturer:**

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**Status of the course in the study program:**

prof. Voelkel: obligatory

prof. Broniarz-Press: fundamental

dr.hab. Maciej Wiśniewski, prof PP: obligatory

**Assumptions and objectives of the course:**

prof. Voelkel: The student should acquire basic knowledge of how to perform scientific experiments, the written and oral presentation of research results with special reference to diploma preparation. Appropriate skill in scientific discussion is also a goal of the seminar.

prof. Broniarz-Press: Interactive estimation of experimental results obtained in the course of diploma study in terms of program requirements and up-to-data literature data.

dr hab. Maciej Wiśniewski, prof.PUT: The student should acquire basic knowledge to perform scientific experiments, the written and oral presentation of research results with special reference to diploma preparation. Appropriate skill in scientific discussion is also a target of the seminar.

**Contents of the course (course description):**

prof. Voelkel: Structure of a research report: literature review, research target, experimental part, apparatus and reagents, materials and methods, results, discussion, conclusions. Literature search methods. Two methods of citation. Abstract writing. Acknowledgements.

Structure of oral presentation: the aim of research, results in brief form, conclusions.

Formulation of questions in scientific discussion.

Review of diploma work at different stages

prof. Broniarz-Press: Analysis of requirements concerning diploma thesis, discussion about current experimental measurements. Comparative analysis of the obtained experimental results with the literature reports related to the diploma goals, methodics and practical applications.

dr hab. Maciej Wiśniewski, prof. PUT: The determination of the aim, experimental methods and research domain of the diploma work. The oral presentation of the research studies related to the theme of the diploma work with its critical discussion. The oral presentation of the initial preparation as well of the conclusive version of the work. Furthermore, the following topics should be exposed and discussed: how to prepare the bibliographic list, the method of arrangement and drafted presentation of scientific works, statistical method in experiments, the way of oral presentation-by use of the audiovisual tools. Comparative analysis of the obtained experimental results with the literature reports related to the diploma goals, methodology and practical applications. Training of data presentation to edit diploma thesis and to enter the final Master Thesis examination.

### **Introductory courses and the required pre-knowledge:**

prof. Broniarz-Press: Chemical and process engineering, chemical technology

dr hab. Maciej Wiśniewski, prof. PUT: General knowledge about chemical technology.

### **Courses form and teaching methods:**

prof. Voelkel: Seminar

prof. Broniarz-Press: Projects

dr hab. Maciej Wiśniewski, prof. PUT: Seminar

### **Form and terms of complete the course - requirements and assessment methods:**

prof. Voelkel: Continuous supervision and assessment during the semester

prof. Broniarz-Press: Permanent discussion with diploma-student

dr hab. Maciej Wiśniewski, prof. PUT: Permanent supervision and evaluation.

### **Basic Bibliography:**

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### **Additional Bibliography:**

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