Course title: Innovation in drug discovery technology

Institute/Division: **FACULTY OF CHEMICAL ENGINEERING AND TECHNOLOGY**

Number of contact hours: **15 hours** (15 h seminar)
Course duration: 1 semester (6th semester of regular I cycle studies - spring)
ETCS credits: **1**

Course description: The lecture concerns mainly the topics related to current development directions in drug discovery technology. Other issues discussed during the course also lead to subjects related to topics such as generic drugs and new drug delivery system. Another subject discussed innovative synthesis of active substances. The course also concerns on new methods of drug design.

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Education effects :

- **knowledge**: student has a knowledge in basic concepts of innovation in drug discovery technology

- **skills:** the student can present several modern methods of drug design and innovative methods of drug synthesis

- **social:** the student can search for topic-related, specialised literature independently and in a group; students can also prepare and present developed topics

Literature:

[1] J. J. Li, D. S. Johnson, *Modern Drug Synthesis,* John Wiley & Sons, Hoboken 2010.
[2] B. Patwardhan, R. Chaguturu, *Innovative Approaches in Drug Discovery*, Elsevier Inc. 2017.
[3] J. C. Menendez, M. T. Ramos, M. Villacampa, P. L. Pez-Alvarado, *Drug Synthesis: Strategies, Methods, and the Role of Catalysis,* Wiley, 2017.

Assessment method: Final test
Prerequisites: Basic knowledge in organic chemistry and technology.
Primary target group: Students from all specialties

Lecturer: **dr inż. J. Jaśkowska**
Contact person: **dr inż. J. Jaśkowska, jolanta.jaskowska@pk.edu.pl**

Deadline for application: 15th of January
Remarks: The course is selectable