**Course title:** **Technology of fragrances**

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

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

**Course description:** The aims of this course are a comprehensive understanding of the industrial processes applied for synthesis of chosen fragrances. Examples of industrial processes will be given for the most important compounds. Additionally, the alternative methods for industrial synthesis will be showed for the same fragrances.

**Education effects :**
- knowledge: student has a knowledge about industrial methods for fragrances synthesis;
- skills: student can propose industrial methods for synthesis the most valuable fragrances, can propose the alternative industrial methods for preparation the same chemical compound, should be able to describe and explain the differences between various fragrance compounds and basic problems in their industrial production
- social: student understands the reason of different industrial processes leading to the same chemical compounds

**Literature:**
[1] David J. Rowe - Chemistry and Technology of Flavors and Fragrances, Oxford, 2005, Blackwell Publishing
[2] Horst Surburg, Johannes Panten - Common Fragrances and Flavor Materials, Weinheim, 2001, Wiley
[3] David H. Pybus, Charles S. Sell - The Chemistry of Fragrances, Cambrigde, 2006, RSC

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

**Lecturer:** **dr inż. Rafał Rachwalik**
**Contact person:** dr inż. R. Rachwalik e-mail: rachwalik@chemia.pk.edu.pl

**Remarks:** The course is selectable