

**Course title:** Technology of monoterpenoid fragrances - selectable / ~~regular course~~

**Number of contact hours:** 15 hours (15h lectures)

**ETCS credits:** 1

**Course description:** The aims of this course is a comprehensive understanding of the industrial processes applied for monoterpenoid fragrances synthesis. At the beginning, will be explained differences between various monoterpenoids compounds, the reason of their production and significance of these compounds in flavours and fragrances worldwide industry. 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 monoterpenoid fragrances.

**Education effects (P7S\_UW, P7S\_WG):**

- **knowledge:** student have a knowledge about industrial methods for synthesis of monoterpenoid fragrances, should be able to describe and explain the differences between various terpenoid compounds and basic problems in their industrial production.
- **skills:** student can propose industrial methods for synthesis the most valuable monoterpenoid fragrances, can propose the alternative industrial methods for preparation the same terpenoid compound.
- **social:** student understands the reason of different industrial processes leading to the same monoterpenoid 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, Cambridge, 2006, RSC

**Assessment method:** final test

**Prerequisites:** Basic knowledge in organic chemistry and technology

**Primary target group:** All specialties students

**Lecturer:** PhD Eng. R. Rachwalik, Contact person: PhD Eng. R. Rachwalik e-mail: rachwalik@chemia.pk.edu.pl