

Course title:	Technology of essential oils
Institute/Division:	FACULTY OF CHEMICAL ENGINEERING AND TECHNOLOGY
Number of contact hours:	45 hours (15 h lectures & 30 h laboratories)
Course duration:	1 semester (7 th semester of regular I cycle studies - fall)
ETCS credits:	3
Course description:	The aims of this course are a comprehensive understanding of the method and technology applied for extraction and characterization of essential oil.
Education effects :	
- <u>knowledge</u> :	student student has a knowledge about methods (laboratory and industrial) applied for essential oil extraction from natural sources, student knows various useful method of essential oil characterization
- <u>skills</u> :	student can propose adequate method applied for extraction of chosen essential oils, student can characterize some of essential oil
- <u>social</u> :	student is able to work independently and also in the group when solving the problems related to extraction method and characterization of chosen essential oil
Literature:	[1] K. Husnu Can Baser (Ed.), Gerhard Buchbauer (Ed.) — Handbook of Essential Oils: Science, Technology, and Applications, London, 2009, CRC Press [2] NIIR Board — Modern Technology Of Perfumes, Flavours And Essential Oils, 2004, National Institute of Industrial Research [3] S. Kohlmunzer — Farmakognozja, Warszawa, 2007, PZWL [4] K.V. Peter (Ed.) — Handbook of herbs and spices, Cambridge, 2001, CRC Press
Assessment method:	Final tests (average grade from three sub-sections presented at the lectures), presence on lectures.
Prerequisites:	Basic course on general, inorganic and organic chemistry.
Primary target group:	Students from all specialties
Lecturer:	dr inż. Rafał Rachwalik; dr inż. Grzegorz Kurowski, dr inż. Otmar Vogt
Contact person:	dr inż. R. Rachwalik e-mail: rachwalik@chemia.pk.edu.pl
Remarks:	The course is regular