

**EXPERIMENTAL ORGANIC CHEMISTRY
2016-2017**

Bachelor Degree:	CHEMISTRY	702G
Course title:	EXPERIMENTAL ORGANIC CHEMISTRY	525
Year/Semester:	3/1S	ECTS Credits: 6

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CONTENTS

- UNIT1. Introductory organic chemistry laboratory courses: a) Safety in an organic chemistry laboratory. b) Characterization of organic compounds. c) List of organic chemistry laboratory experiments. d) Software to use in the lab. e) Bibliographic search.
- UNIT2. Experiment 1: Nucleophilic substitution reactions: S_N1 vs S_N2
- UNIT3. Experiment 2: Aromatic electrophilic substitution reactions
- UNIT4. Experiment 3: Elimination reactions
- UNIT5. Experiment 4: Aldolic and Knoevenagel substitutions
- UNIT6. Experiment 5: Wittig reaction
- UNIT7. Experiment 6: Diels-Alder reaction
- UNIT8. Experiment 7: Preparation and reactivity of organometallic compounds
- UNIT9. Experiment 8: Alkylation reactions
- UNIT10. Experiment 9: Multistep organic synthesis

REFERENCES

Title
Experimental organic chemistry, standard and microescale
Reactions and synthesis in the organic chemistry laboratory
Vogel's textbook of practical organic chemistry

EVALUATION SYSTEM

Tasks before final exam referred to the individual lab notebook, answers to questions before each experiment and report for a simulated experiment (30%, unrecoverable)
Final exam (50%, recoverable)
Observation techniques (20%, unrecoverable)