

## Tárgytematika / Course Description

### Organic Chemistry

MENB\_VKTA021

Tárgyfelelős neve /

Teacher's name: dr. Szakál Pál

Félév / Semester: 2021/22/2

Beszámolási forma /

Assesment: Vizsga

Tárgy heti óraszám /

Teaching hours(week): 2/2/0

Tárgy féléves óraszám /

Teaching hours(sem.): 0/0/0

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### OKTATÁS CÉLJA / AIM OF THE COURSE

Organic chemistry is important because it is the study of life and all of the chemical reactions related to life. Organic chemistry is a subdiscipline of chemistry that studies the structure, properties and reactions of organic compounds, which contain carbon in covalent bonding. Study of structure determines their chemical composition and formula. Study of properties includes physical and chemical properties, and evaluation of chemical reactivity to understand their behavior.

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### TANTÁRGY TARTALMA / DESCRIPTION

1. The History of Organic Chemistry

*Classification of organic compounds*

2. *functional groups*

3. *Aliphatic compounds*

4. *Aromatic compounds*

5. *Heterocyclic compounds*

6. *Polymers*

7. *Biomolecules*

8. *Small molecules*

9. Fullerenes

10. Others

11. Acid Base Reactions

12. Organic reactions

13. Organic synthesis

14. Substitution Reactions, Elimination Reactions

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### **SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD**

Attendance and participation is required during all lectures and practical classes. A final exam will be given at the end of the course from the topics of the lectures.

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### **KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL**

**Required reading:**

- J. McMurry: Organic Chemistry, Books/Cole, Thomson Learning, Ninth Edition. 2000.