

Tárgytematika / Course Description Organic Chemistry

MENB_VKTA021**Tárgyfelelős neve /****Teacher's name:** dr. Szakál Pál**Félév / Semester:** 2024/25/2**Beszámolási forma /****Assesment:** Vizsga**Tárgy heti óraszám /****Teaching hours(week):** 2/2/0**Tárgy féléves óraszám /****Teaching hours(sem.):** 0/0/0

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.

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

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'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.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

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

AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL