Organic Chemistry

The major aim of this course is to introduce students to the foundations of organic chemistry by focusing on the structures, properties and chemical reactivity of the various hybridization states carbon atoms can adopt in alkanes (including cycloalkanes), alkenes and alkynes. This course will also cover different aspects of isomerism observed in organic compounds as well as the reactions' mechanisms (substitution, elimination, and addition) in terms of the electrons flow. This course will also introduce various analytical techniques (MS, NMR and IR) used to determine organic structures.

Upon Completion of this Course, students will be able to:

- understand bonding and structures of alkanes, alkenes and alkynes;
- understand and recognize various types of isomerism present in the main three groups of hydrocarbon;
- recognize different organic reactions (substitution, elimination, and addition) and to show abond breaking/forming using curly arrows representation of the electrons flow;
- investigate simple spectroscopic data to identify structures of organic molecules.

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D Keegan

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