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## SYLLABUS IN ORGANIC CHEMISTRY

S.Y. 2023-2024

**Course Title:** Introduction to Organic Chemistry

**Course Description:** This course provides a foundational understanding of organic chemistry, focusing on the structure, properties, and reactions of organic compounds. Topics covered include nomenclature, functional groups, isomerism, stereochemistry, and the fundamental principles of organic reactions.

**Week 1-2: Introduction to Organic Chemistry**

- Definition and importance of organic chemistry
- Atomic structure and bonding in organic compounds
- Molecular formula, structural formula, and condensed formula

**Week 3-4: Hydrocarbons**

- Alkanes: nomenclature, properties, and isomerism
- Alkenes and alkynes: structure, nomenclature, and reactions

**Week 5-6: Functional Groups**

- Introduction to functional groups
- Alcohols, ethers, and thiols: nomenclature and properties

**Week 7-8: Aromatic Compounds**

- Structure and properties of aromatic compounds
- Benzene and its derivatives

**Week 9-10: Stereochemistry**

- Chirality and stereoisomerism
- Enantiomers and diastereomers
- Fischer projections and Newman projections

**Week 11-12: Chemical Reactions of Organic Compounds**

- Reaction mechanisms
- Nucleophilic substitution reactions
- Elimination reactions

**Week 13-14: Aldehydes and Ketones**

# K U Organic Chemistry Syllabus

**Nihon Kagakkai**



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