科目ナンバリング U-LAS13 10009 LE60													
授業科目名 Basic Organic Chemistry II-E2 <英訳> Basic Organic Chemistry II-E2						当者所属 名・氏名	暑 化	化学研究所 助教 SINGH, Vaibl			H, Vaibhav Pal		
群	自然科学科目群 分野(分			分野(分類)	化学(基礎)				使用言語英語				
旧群	B群	単位数	2単位	週コマ数	コマ		授業	業形態 講義(対面授業科目)			目)		
開講年度・ 開講期	2025 ·	後期	曜時限	火4		配当	学年	主として	1・2回生	対象学	生	理系向	
[授業の概要・目的]													
This course is intended for Japanese and international students registered in natural science majors who are interested in learning chemistry in English.													
Basic Organic Chemistry II explains the fundamental concepts behind the reactivity of organic compounds. This course can be taken alone or in combination with Basic Organic Chemistry I.													
[到達目標]													
Students will be able to describe basic organic reaction mechanisms (nucleophilic substitutions, eliminations and electrophilic additions) and apply this knowledge to predict the major product in organic reactions, such as those involving hydrocarbons, alcohols, alkyl halides and alkenes.													
[授業計画と内容]													
The semester will be divided as follows:													
Week 1: General Concepts and Stereoisomerism Week 2: Enantiomers and Optical Activity Week 3: Resonance (Review) Week 4: Chemical Reactivity Week 5: Substitution Reactions (Part 1) Week 6: Substitution Reactions (Part 2) Week 7: Mid-term Exam Week 8: Alkene and Elimination Reactions (Part 1) Week 9: Alkene and Elimination Reactions (Part 2) Week 10: Substitution vs. Elimination Week 11: Addition Reactions (Part 1) Week 12: Addition Reactions (Part 2) Week 13: Synthesis Week 14: Review of the Main Concepts Week 15: Final Exam Week 16: Feedback Tage/Bept/													
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Basic Organic Chemistry II-E2(2)

[成績評価の方法・観点]

Evaluation will be based on class attendance and active participation (30%), mid-term exam (30%) and final examination (40%).

[教科書]

David Klein ^POrganic Chemistry (Wiley) ISBN:1118452283 (not mandatory)

[参考書等]

(参考書)

Handouts will be provided at the beginning of each lecture.

[授業外学修(予習・復習)等]

Students should review the course materials after each class.

[その他(オフィスアワー等)]

Teaching Approach:

The new concepts are introduced in a skill-building format with practice problems (in class) and exercises (in class) to help students master the course material (no homework).

[主要授業科目(学部・学科名)]

理学部