

科目ナンバリング		U-LAS61 10009 LE61									
授業科目名 <英訳>		Chemistry , Society and Environment-E2 Chemistry, Society and Environment-E2				担当者所属 職名・氏名		エネルギー科学研究科 准教授 AU Ka Man			
群	統合科学科目群			分野(分類)		環境			使用言語	英語	
旧群	B群	単位数	2単位		週コマ数	1コマ		授業形態	講義（対面授業科目）		
開講年度・ 開講期	2024・前期		曜時限	水2			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】											
<p>Chemistry and chemical processes are very important in both the natural environment and in human society. It is important to understand how chemistry helps to develop the products and services that we utilise, as well as how chemical products from society impact the environment, and how we can mitigate such impacts.</p> <p>This class will introduce some of the important chemical processes and products that shape modern society, as well as examining the influence that they have on the environment. It will cover basic, important chemical processes that occur in nature as well.</p> <p>The course is aimed at those who are not specialists in chemistry, but are interested in chemistry and its application, history and influence.</p>											
【到達目標】											
Students will understand the importance of chemistry and its role in the modern world. Students will understand the importance of chemistry in relation to societal goals and environmental issues.											
【授業計画と内容】											
The following topics will be covered (in 1-3 weeks as highlighted).											
Chemistry introduction											
1. The history of chemistry and its influence on society 2. The scale of chemical industries and the comparison with global flows											
Introduction to the basics of important chemical processes:											
3. Energy chemistry (2 weeks) 4. Water chemistry (2 weeks) 5. Petrochemistry 6. Pharmaceuticals / health chemistry 7. Mineral chemistry											
Environmental issues and chemistry											
8. Global warming impacts 9. Local chemical pollution 10. Chemical solutions to environmental problems (2 weeks) 11. Summary and capstone class											
One class is held per week.											
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Chemistry , Society and Environment-E2(2)

The course overall consists of 14 classes and one feedback session.

【履修要件】

特になし

【成績評価の方法・観点】

Participation and small exercises (50%)

Final presentation (10%)

Final exam or assignment (40%)

【教科書】

使用しない

【参考書等】

(参考書)

授業中に紹介する

【授業外学修（予習・復習）等】

Small exercises out of class may be expected.

Class slides will be provided for pre-reading.

【その他（オフィスアワー等）】

Consultation is available by prior arrangement.