科目ナンバリング	U-LAS05 20051 LE39				
授業科目名<英訳>	Topics in Human Geography VIII-E2 (Governing urban sustainability challenges) Topics in Human Geography VIII-E2 (Governing urban sustainability challenges)	担当者所属職名・氏名	地球環境学舎 准教授 TRENCHER, Gregory		
群	人文・社会科学科目群	分野(分類)	地域・文化(各論)	使用言語	英語
旧群	A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	2026・後期	曜時限	木1	配当学年	主として2回生
対象学生	全学向				

[授業の概要・目的]

This lecture and discussion course will examine different types of strategies that governments, industry and society can use to accelerate the transition of societal and technological systems towards greater sustainability, particularly in urban areas. We will focus on three sets of challenges and technologies: (1) smart cities, (2) urban transport and (3) energy and water usage in buildings. In addition to applying theoretical frameworks from social science fields such as human geography and sustainability transitions, we will explore these three themes through detailed case studies.

[到達目標]

Students will learn about how different kinds of public policy instruments can be used to tackle different types of sustainability challenges as well as the advantages and disadvantages of each. Students will also improve skills in discussion, oral presentations and problem-solving through a policy-making project. Students will be expected to contribute their ideas and express themselves in small group discussions and classroom exercises.

[授業計画と内容]

1. Introduction
2. Energy use in cities and buildings 1: Introduction
3. Socio-technical lock-in: Barriers to urban transformation
4. Sustainable mobility 1: Fuel-cell electric vehicle (FCEV) diffusion in Japan
5. Sustainable mobility 2: Battery Electric Vehicle (BEV) diffusion in China
6. Sustainable mobility 3: Autonomous vehicles and Japan’s aging society
7. Decline policies: The other side of innovation
8. Smart cities: Case study 1
9. Guest lecture: Urban energy systems and mobility
10. Smart cities: Case study 2
11. Introduction to research task
12. Student research task preparation
13. Student presentations
14. Student presentations
15. Feedback (by appointment)

Topics in Human Geography VIII-E2 (Governing urban sustainability challenges)(2)へ続く↓↓↓

Topics in Human Geography VIII-E2 (Governing urban sustainability challenges)(2)

[履修要件]

A willingness to participate in class discussions and group work.

[成績評価の方法・観点]

Attendance and participation 20%
Written assignment on building energy efficiency 20%
Research project: Group presentation 30%
Research project: Individual report 30%

Details on all assignments provided in the lecture.

[教科書]

使用しない

[参考書等]

（参考書）

No text required. Readings and lecture notes will be distributed in class.

[授業外学修（予習・復習）等]

Revision of class presentations is expected as well as preparation for assignments.

[その他（オフィスアワー等）]

Please email the instructor to set up an office appointment. Email address will be provided in class.

[主要授業科目（学部・学科名）]