

科目ナンバリング		U-LAS70 10002 SE50					
授業科目名 <英訳>	ILAS Seminar-E2 :Climate change impacts on the humanosphere (気候変動が生存圏に与える影響) ILAS Seminar-E2 :Climate change impacts on the humanosphere			担当者所属 職名・氏名	生存圏研究所 教授 Luce , Hubert		
群	少人数群	単位数	2単位	週コマ数	1コマ	授業形態	ゼミナール (対面授業科目)
開講年度・ 開講期	2024・後期	受講定員 (1回生定員)	5 (5) 人	配当学年	主として1回生	対象学生	全学向
曜時限	金5	教室	1共23			使用言語	英語
キーワード	Climate change / environment / humanosphere						
[授業の概要・目的]							
This seminar provides an overview of our knowledge of the current climate change, its causes and its potential impact on the humanosphere (atmosphere, hydrosphere, cryosphere and biosphere). Within the frame of the Sustainable Development Goals (SDG13: climate action) of the United Nations, possible strategies either to adapt to climate changes or to mitigate them are presented and discussions will be proposed. The lecture will be partly based on information from Intergovernmental Panel on Climate Change (IPCC) reports and used in popular scientific works.							
[到達目標]							
Students will gain an in-depth understanding of the issue of climate change, and its causes, linked to our development model essentially based on the use of non-renewable fossil fuels and raw materials. They will be able to discuss the issue in English from an informed point of view. This is done through individual or group projects to focus on a particular aspect covered during the sessions.							
[授業計画と内容]							
1. (Weeks 1-3) Introduction: Our growing influence on our environment. - The history of man and his growing use of energy. - The fossil fuels: Sources of considerable progress, why have they become a problem?							
2. (Week 4-5) A brief description of the physical mechanisms of climate change and its relationship with the use of fossil fuels.							
3. (Weeks 6-9) Manifestations of the climate change: - atmosphere (climate evolution, atmospheric disasters, ...) - oceans and cryosphere (sea level rise, acidification, ice melt, ...) - impacts on the biosphere and land degradation - fresh water issues							
4. (Weeks 10-11) The potentially most affected regions by the climate change: - The polar regions - The coastal areas							
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- The semi-arid regions

5. (Week 12-14)

Solutions to climate change? Sessions of discussions.

- How to define responsibilities?
- Adaptation, mitigation, loss and damage.
- The complex issue of “ energy transition ”

6. (Week 15)

Final examination.

7. (Week 16)

Feedback.

【履修要件】

This seminar does not require prior knowledge on the topic and is mainly based on graphics and documents to interpret.

【成績評価の方法・観点】

Evaluation will be:

Active participation in class: 30 pts

Assignments/projects at home: 30 pts

Final examination: 40 pts

【教科書】

Not used. Slide handouts will be distributed.

【参考書等】

(参考書)

Mainly, Intergovernmental Panel on Climate Change (IPCC) reports.

【授業外学修（予習・復習）等】

Materials (pdf files) are made available before class.

Students are encouraged to study materials before and after each class for assimilating technical or uncommon words.

Depending on the topic, the study of the materials and the preparation of the report for the evaluation may take a few hours a week.

【その他（オフィスアワー等）】

Materials (pdf files) are available on Kulasis website. Communication by emails are possible for questions outside of class hours.