科目ナン	/バリン	グ U-	LAS60 10	002 LE17									
授業科目 <英訳>	1 ~						属防	国際高等教育院 特定教授 余田 成男 防災研究所 教授 Sameh Kantoush 防災研究所 講師 LAHOURNAT, Florence					
群	統合科学科目群			分野(分類)	統合科	学		使用言語英語		<u> </u>			
旧群		単位数	2単位	週コマ数	1コマ	7	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 :			木5	配当	配当学年		て1回	生対象学	生 :	全学向		
「授業の	「授業の概要・目的」												

The main purpose of this course is to address the phenomenon of climate change from a variety of angles, using the IPCC 6th Assessment Reports (Summary for Policymakers) as a base for learning, reflection, and discussion.

Along the semester, we will be using the three IPCC Working Group reports:

WG I: The physical science basis,

WG II: Impacts, adaptation, and vulnerability, and

WG III: Mitigation of climate change.

This course encourages students to develop self-learning skills and English expression skills, through assigned self-directed group discussions and presentations.

[到達目標]

To gain knowledge regarding the current understanding of the scientific basis of the global warming issue, and some of the perspectives for adaptation and mitigation.

[授業計画と内容]

- 1. Detailed orientation (1 week) "Preparation to understand the class"
- Short self-introduction from each lecturer
- Identification of each part of the class as an independent and expertise area
- Description of the class outline and objectives
- Schedule, assignments, evaluation, textbooks/references, ...
- 2. General introduction (1 week) "Fundamental perspectives on Global Changes"
- General Q&A session about global change
- Group composition

we expect eight groups (6 to 7 students/group) working through each theme and re-shuffling to ensure a good balance of nationality, background, and gender within each group

- Self-introduction of all students
- 3.-6. Theme 1 (4 weeks) "The physical science basis of global warming"
- Week 1: short lecture by Yoden, and the commencement of group work
- Week 2: group work (preparation of presentation)
- Week 3 & 4: group presentations and discussions (18 min x 4 groups x 2 weeks) Feedback will be given at the end of the presentation sessions (15 min)
- 7.-10. Theme 2 (4 weeks) "Impacts, adaptation, and vulnerability"
- Week 1: short lecture by Lahournat, and the commencement of group work
- Week 2: group work (preparation of presentation)

Interdisciplinary Sciences-E2 :Global Changes(2)

- Week 3 & 4: group presentations and discussions (18 min x 4 groups x 2 weeks) Feedback will be given at the end of the presentation sessions (15 min)
- 11.-14. Theme 3 (4 weeks) "Mitigation of climate change"
- Week 1: short lecture by Kantoush, and the commencement of group work
- Week 2: group work (preparation of presentation)
- Week 3 & 4: group presentations and discussions (18 min x 4 groups x 2 weeks) Feedback will be given at the end of the presentation sessions (15 min)
- 15. Feedback (1 week) "Closing session"
- General discussion: remarks and comments by all
- Final remarks

[履修要件]

特になし

[成績評価の方法・観点]

Assessment for the class will base on the following four criteria:

- 1. Class attendance/active participation in the group work (40%),
- 2. Group presentation (40%), and
- 3. Individual reports for all the three Themes (20%).

Details on each criterion will be announced during the first week of class.

[教科書]

使用しない

No textbook. Use the pdf files of the IPCC WG reports, which will be available on PandA.

[参考書等]

(参考書)

IPCC, 2021: Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. [Masson-Delmotte, V., P. Zhai, A. Pirani, S.L. Connors, C. Pean, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M.I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J.B.R. Matthews, T.K. Maycock, T. Waterfield, O. Yelekci, R. Yu, and B. Zhou (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 3 - 32, doi:10.1017/9781009157896.001.

IPCC, 2022: Summary for Policymakers. In: Climate Change 2022: Impacts, Adaptation, and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. [H.-O. Poertner, D.C. Roberts, M. Tignor, E.S. Poloczanska, K. Mintenbeck, A. Alegria, M. Craig, S. Langsdorf, S. Loeschke, V. Moeller, A. Okem, B. Rama (eds.)]. Cambridge University Press. In Press. pp. 1-35. https://www.ipcc.ch/report/ar6/wg2/

IPCC, 2022: Summary for Policymakers. In: Climate Change 2022: Mitigation of Climate Change. Contribution of Working Group III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. [P.R. Shukla, J. Skea, R. Slade, A. Al Khourdajie, R. van Diemen, D. McCollum, M. Pathak, S. Some, P. Vyas, R. Fradera, M. Belkacemi, A. Hasija, G. Lisboa, S. Luz, J. Malley, (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA. pp. 1-52. doi: 10.1017/9781009157926.001.

Interdisciplinary Sciences-E2: Global Changes(3)

Also, some reference books as

Koonin, S. E., 2021: Unsettled: What Climate Science Tells Us, What It Doesn't, and Why It Matters. BenBella Books, Inc., Dallas, 306pp.

クーニン スティーブン・E (著) 三木 俊哉(訳), 2022: 気候変動の真実 科学は何を語り、何を語っていないか? 日経BP, 372pp.

Vince, G., 2022: Nomad Century: How to Survive the Climate Upheaval. Allen Lane, 288pp.

ヴィンス,ガイア(著)小坂恵理(訳),2023: 気候崩壊後の人類大移動. 河出書房新社,320pp.

Schultz, D. M., 2009: Eloquent Science. A practical guide to becoming a better writer, speaker, and atmospheric scientist. American Meteorological Society, pp. 412.

木下是雄, 1981: 理科系の作文技術. 中公新書 624, pp. 244.

[授業外学修(予習・復習)等]

Students are expected to read the recommended resources for each WG report, to be able to actively participate during discussion.

To prepare for each presentation, students may need to meet with their group in between sessions, outside the class time.

[その他(オフィスアワー等)]

- The expected number of students is 48 to 56, distributed across 8 groups of 6 to 7 students each. Priority will be given to the ILAS International Education Program students (compulsory credits) and the Kyoto iUP international students enrolled in the programs, with any remaining slots open to other students.
- Students are expected to bring their own computer device (laptop, tablet, etc.).
- Regarding office hours, use PandA to send an e-mail to request an appointment.

[主要授業科目(学部・学科名)]