科目ナンバリング	U-LAS51 10029 SE48						
授業科目名<英訳>	Advanced Scientific English-E3 (Debate) Advanced Scientific English-E3 (Debate)			担当者所属職名・氏名	工学研究科　准教授　SCHMOECKER, Jan-Dirk 工学研究科　准教授　AN, Lin 工学研究科　准教授　CHANG, Kai-Chun 工学研究科　准教授　KHAYYER ABBAS 工学研究科　准教授　KIM, SUNMIN 工学研究科　准教授　QURESHI, Ali Gul 工学研究科　准教授　ZHU Fan		
群	キャリア形成科目群			分野(分類)	国際コミュニケーション	使用言語	英語
旧群	C群	単位数	2単位	週コマ数	1コマ	授業形態	演習（対面授業科目）
開講年度・開講期	2026・後期	曜時限	水2	配当学年	2回生以上	対象学生	理系向

[授業の概要・目的]

Debating and negotiating are skills needed in most professions students will enter after graduation. The course aims to improve critical thinking and general abilities to discuss scientific issues.

[到達目標]

1) To improve students' ability to discuss scientific issues in a set format. Students will learn to defend their opinions and to react to counter-arguments. 2) Students will be introduced to a number of current issues in Civil Engineering through the debate topics.

[授業計画と内容]

The first lecture will give an introduction to the course and to debating: What makes a good debate, introduction on how to prepare for a debate, some helpful tools for organizing the debate, etc. The second lecture then will be an initial test debate. The following lectures are then grouped into four units of 3 lectures, each unit is taught by a different faculty member and discusses different debate topics, often related to the teacher's research interest. Each unit has following outline. In Lecture 1 of a unit the topic will be introduced and students choose a role (pro or contra the debate motion). Then in Lecture 2 students collect some information and arguments on the topic by reading articles or collecting information from the internet. The lecture is further meant to prepare debate talks and to prepare for potential counter- arguments. In the final classes of each unit students are then performing the actual debate. Debate topics are chosen by teachers from engineering issues as well as current issues.

Weeks 1-2: Introduction, debate exercises. Debate theory will be introduced and an exercise will be conducted on a current issue.

Weeks 3-5: Debating on topics related to transport planning, for example, debates about the feasibility to introduce "shared space" in Kyoto. Students will learn to discuss pros and cons of traffic management policies.

Weeks 6-8: Debating on topics related to large civil engineering projects. For example debates on the usage of hydraulic energy will help students express the issues involved with different energy sources.

Weeks 9-11: Debating on topics related to sustainable vs efficient technology. For example, debates about recycling of material will be conducted to trade off cost issues and environmental benefits

Advanced Scientific English-E3 (Debate)(2)へ続く↓↓↓

Advanced Scientific English-E3 (Debate)(2)

Weeks 12-14: Debating on topics related to current affairs. For example, debates on the usage of chatbots at university will be conducted. This will help students to understand and articulate the pros and cons of using this technology for educational purposes.

There is no written exam at the end of the semesters. Feedback is given during regular classes and as feedback session after the course completion. (Total 14 classes plus 1 feedback session).

[履修要件]

特になし

[成績評価の方法・観点]

The grade will be based mainly on the presentations about the debate topics (70%). In addition active participation in the class (30%) are evaluated.

[教科書]

使用しない

No textbook is required for this course. Handouts will be distributed by the instructors as needed.

[授業外学修（予習・復習）等]

In some weeks students will be asked to collect information material for the debates and to complete the preparation for the debates that can not be carried out during the class period.

[その他（オフィスアワー等）]

All instructors will provide their contact information for questions and feedback.

[主要授業科目（学部・学科名）]