| 科目ナンバリング | | | | | | | | | | | | | |
|---|---------------|------------|------------|--------|---------------|------------------|-----------|----|--------|--------|-----------------|-----|----|
| 授業科目名 <英訳> Logic I-E2 Logic I-E2 超当者所属 職名・氏名 | | | | | | | | | | | | | |
| 群 | 人文・ | 社会科学 | 科目群 | 分野(分類) | 哲学・ | 学・思想(基礎) 使用言語 英語 | | | | | | | |
| 旧群 | A群 | 単位数 | 2単位 | | 週コマ数 | 1 1 7 | | 授業 | 授業形態 講 | | 義(対面授業 移 | | 目) |
| 開講年度・ 開講期 | 2025・前期 曜時限 オ | | 水 | 31 | | 配当 | 当学年 主として1 | | 1・2回生 | 対象学生 | | 全学向 | |
| [授業の概要・目的] | | | | | | | | | | | | | |
| representations, and use those representations to assess and infer logical conclusions. The content of the course is applicable to both study and everyday thought processes. This course will cover sentential logic with respect to semantic and deductive methods. Students will actively practice (1) transforming English sentences into their symbolic representation, (2) assessing the representations logically, and (3) transforming the conclusion of logical arguments back to natural English. | | | | | | | | | | | | | |
| [到達目標] | | | | | | | | | | | | | |
| (1) Students will be able to capture the intent meaning of English language documents of statements and represent the meaning symbolically. (2) Students will be able to derive logical conclusions from a document, and detect examples of poor or incorrect logic. (3) Students will practice creating documents in natural English language based on logical argument, with emphasis on creating English that is easy to interpret. After completion of the course, students should acquire improved English expression skill. | | | | | | | | | | | | | |
| [授業計画と内容] | | | | | | | | | | | | | |
| (1~2) Course overview: what is an argument, and what makes an argument valid? | | | | | | | | | | | | | |
| (3~4) Classes of valid and incorrect arguments, sentence forms, logical connectives, conversion of simple sentences to symbols | | | | | | | | | | | | | |
| (5~6) Truth table definitions of AND, OR, and NOT, argument analysis by truth table, conditional and biconditional truth tables | | | | | | | | | | | | | |
| (7~9) Dec | ductive 1 | ogic rules | s, introdu | icti | on to proofs | | | | | | | | |
| (10~11) I | Deductiv | e proofs u | using not | n-co | onditional ru | les | | | | | | | |
| (12~13) Proofs including conditional rules | | | | | | | | | | | | | |
| (14) Sum | mary and | d review | | | | | | | | | | | |
| (15) Final examination | | | | | | | | | | | | | |
| (16) Feed | back | | | | | | | | | | | | |
| | | | | - | | | | | Logi | c I-E2 | (2)へ続く | ζ- | |

Logic I-E2(2)

(Methods of feedback to be notified during class)

[履修要件]

特になし

[成績評価の方法・観点]

Class participation (25%), Quizzes (35%), final examination (40%).

[教科書]

使用しない

[参考書等]

(参考書)

Gustason ^PElementary Symbolic Logic (Waveland Press) ISBN:0-88133-412-X

[授業外学修(予習・復習)等]

Students are recommended to review prior lecture content for 2-3 hours per week outside of class.

[その他(オフィスアワー等)]

[主要授業科目(学部・学科名)]