科目ナンバリング	U-LAS30 20031 LE11						
授業科目名 <英訳>	Information Network-E2 Information Network-E2			担当者所属 職名・氏名	人間・環境学研究科 准教授 THIES, Holger		
群	情報学科目群	分野(分類)	(各論)			使用言語	英語
旧群	B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	水5	配当学年	全回生	対象学生	全学向

[授業の概要・目的]

Using the Internet for gathering information, sending e-mails, and online shopping has become a part of everyday life. In this course, students will learn the basic workings of the Internet and how computers communicate across networks. Students will also learn about information security issues and how to avoid potential problems while using the Internet.

[到達目標]

The students will learn the basics of the Internet and the various protocols used when devices communicate across the network, understand problems involving information security and how to deal with them, and learn the basic rules governing proper use of information networks.

[授業計画と内容]

The course consists of 15 sessions (14 class sessions + 1 feedback session).
We will cover the following topics during the course, and spend one or two weeks on each topic:

1) Overview of the Internet
2) Application Layer (World Wide Web, e-mail, etc.)
3) Transport Layer (sockets, TCP and UDP)
4) Network Layer (IP addresses and routing)
5) Link Layer (LANs and Ethernet)
6) Wireless and mobile networks
7) Security
8) Rules of Internet usage

[履修要件]

No prerequisites are required, but it is recommended that the students take an introductory course such as "Basics of Informatics and AI" before this course.

[成績評価の方法・観点]

Students will be expected to understand the basic workings of the Internet, information security and proper use of information networks. The student's understanding of these topics will mainly be evaluated by a final report at the end of the course. Evaluation will also be influenced by performance on practice exercises given during the course. Approximately: homework and in-class exercises (50%), final report (50%).

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Information Network-E2(2)

[教科書]

Relevant materials will be distributed in class, so no textbook is required. However, students who wish to study the topics in more detail are recommended to read the book "Computer Networking" by J. Kurose and K. Ross (see below).

[参考書等]

（参考書）

J. Kurose and K. Ross 『Computer Networking: A top-down approach (7th Edition)』 （Pearson, 2016）
ISBN:978-0133594140

[授業外学修（予習・復習）等]

Students should study material related to each topic before class, and review the course material after each class. It is also recommended that students gain first-hand experience of the topics discussed by using computers 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）]

総合人間学部