		U-LAS30 10020 SE10		
< >		Practice of Basic Informatics-E2 Practice of Basic Informatics-E2		CHU, Chenhui
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Information Communication Technology (ICT) skills are a necessity for efficient academic studies. This course aims at:
- Teaching students the essential ICT skills needed for academic activities. Students will acquire ICT skills that will let them fully utilize the information services provided by the university: searching for information needed during academic activities, processing data, programming, writing papers, and presenting their studies.
- Allowing students to be independent ICT users. Students will learn to manage and operate their personal computers and network properly as independent users.
- Helping students acquire the capability to learn ICT skills by themselves on an ongoing basis: students will be guided to learn ICT skills not dealt with in this course on their own, as their studies need it.

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At the end of the semester, students should have a sufficient understanding of the principles of computers, Operating Systems, Networks (esp. the ones available at the university), and academic information seeking. They should also have acquired practical skills in using Spreadsheets, Word Processors, and presentation software for their academic life. Finally, they will understand and practice the basics of programming.

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1. Computer basics (1 week)
- Introduction to this course
- Basics of operating systems

2. Basics of information networks (2 weeks)
- In-campus information services and networks
- Information security and information ethics

3. Academic information seeking (1 week)
- Academic information and libraries

4. Skills of information seeking for academic purposes Academic content creation (7 weeks)
- Data processing with a Spreadsheet (2 weeks)
- Academic report writing (2 weeks)
- Presentation and practice (3 weeks)

5. Basics of programming (3 weeks)
- Overview of programs and programming (1 week)
- Introduction to Jupyter and Python (1 week)
- Arrays and visualization in Python (1 week)

6. Feedback (1 week)

Practice of Basic Informatics-E2(2)

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Evaluation is based on class participation (15%) and assignments (85%).

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H. Kita, Y. Kitamura, H. Hioki, H. Sakai, D. Lin and C. Chu   The Practice of Basic Informatics 2024
Kyoto University
Textbook will be provided in an online version.

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Students are expected to read the corresponding materials ahead of each class and practice the acquired knowledge by solving proposed problems during the class.

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No office hours are specified. However, questions and requests are welcome by email.

Students must complete Information Security e-Learning provided by the Institute for Information Management and Communication (IIMC), Kyoto University, including the final test of the course, and confirm its feedback. No class hour is assigned to take this e-learning, and students have to take this e-learning outside the class hours. All the members of Kyoto University are asked to take this e-learning every year, and hence, students in the second grade and above should also complete this e-learning.