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授業科目 <英訳>	U U	U		· •	rthon) -E2 rthon) -E2	担当職名	当者所 ろ・氏	属人間	・環境学	研究科 牧	寺定講師 1	THI	ES, Holger
群	情報学	科目群		/5	分野(分類)	(各論)				侈	使用言語	英語	語
旧群		単位数	2単位		週コマ数	174		授業	形態	演習	(対面授	業科	目)
開講年度・ 開講期	2025 ·	後期	曜時限	木	5		配当	当学年	全回	生	対象学	生	全学向
[授業の	概要・目	目的]											
experience industry.	s course is an introduction to the Python programming language for students without prior programming erience. Python is a beginner friendly programming language that is widely used in academic research and ustry. In the course students will learn about basic programming concepts and how to write their own ple programs using Python.												
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condition They will programs After atte - Underst - Underst - Design,	Students will learn the basics of programming using the Python programming language, including data types, conditionals and loops, basic data structures, functions and the fundamentals of object oriented programming. They will also learn how to solve real-world problems by designing, writing and testing their own Python programs. After attending the course students should be able to: Understand the fundamentals of programming (variables, control structures, data types, etc.) Understand and modify simple Python programs Design, implement and test their own simple programs												
[授業計]		-											
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- Installin	er hardw	,	on		g languages								
	les, nami ments an	ng rules and basic da	and com	men									
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									Frogra	inining P	Practice (Pyth	UII) -I	⊑∠(∠)′╰沉╰

Programming Practice (Python) -E2(2) Modules and packages (1 session) - Concept of modules - Importing modules - Some important built-in modules I/O and error handling (1 session) - Reading data from a file - Writing data to a file - Error handling and exceptions Object oriented programming with Python (2 sessions) - Classes, Properties and Methods - Inheritance GUI application development (2 sessions) - Learn how to write simple Graphical User Interfaces (GUIs) Practice Project (3 sessions) Students will use the knowledge acquired during the first part of the course to solve a small programming project. They will be required to - Select and define a problem - Propose and implement a solution - Test the solution The precise course schedule and contents are subject to change depending on class progress. [履修要件] Students need to bring their own laptops. [成績評価の方法・観点] Evaluation will be based on in-class and homework assignments (70%) and final project (30%). [教科書] No textbook is required. Relevant materials will be distributed in class. [参考書等] (参考書) Mark Lutz [®] Learning Python, 5th edition₂ (O' Reilly Media, Inc.) ISBN:978-1449355739 Allen B. Downey ^{Think} Python: How to Think Like a Computer Scientist, 2nd edition (O' Reilly Media, Inc.) ISBN:978-1491939369 [授業外学修(予習・復習)等] Students should review the material after each class and solve weekly homework assignments. 【その他(オフィスアワー等)】 There is no specific office hour. Students can contact the instructor by email in case of questions. Programming Practice (Python) -E2(3) へ続く

ming Practice (Python) -E2(3)	
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