

基本情報/Course Schedule Information	
開講区分(開講学期)/Semester	Fall and Winter Term
曜日・時間/Day and Period	Monday 5
開講科目名/Course Name (Japanese)	情報科学入門
開講科目名(英)/Course Name	Introduction to Information Science
授業形態/Type of Class	講義科目/Lecture
単位数/Credits	2
担当教員/Instructor	Takanori Isobe, Taisuke Izumi, Shigeto Seno, Shinichi Arakawa, Shinji Kusumoto, Naoki Wakamiya, Atsuo Inomata, Yoshinobu Kawahara

※メディア授業科目について

授業回数の半数以上を、多様なメディアを高度に利用して教室等以外の場所で行う授業を「メディア授業科目」としています。

学部学生が「メディア授業科目」を卒業要件に算入できるのは60単位が上限です。

なお、非該当の場合であっても、メディアを利用した授業を実施する場合があります。

授業担当教員一覧

詳細情報/Detailed Syllabus Information	
授業サブタイトル/Course Subtitle	Introduction to Information Science
開講言語/Language of the Course	English
学習方法/Learning Method	聴講・視聴/Listening and watching face-to-face/online class ☒ Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) ☐ Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) ☐ Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper) ☐ Collaborative work: Working as a pair or a group (e.g., producing a poster through group work) ☐ Research: Collecting information from books and academic papers; gathering and analyzing data by fieldwork (e.g., review of previous research, fieldwork) ☐ Experience/practice: Learning from experience- and practice-based activities, and feedback on such activities (e.g., solving problems; laboratory work using instruments; on-campus and off-campus practical training; skills practice including sporting skills; project-based learning; internship) ☐ Presentation: Writing papers, making presentations, and creating works (e.g., report writing, oral/poster presentation, creation of works, portfolio development) ☐ Others(free description)
授業の目的と概要/Course Objective	This course provides an introduction to information science. Students learn several topics in information science through lectures or exercise. The topics include algorithm, bioinformatics,information network,software development,bio-inspired information and communication technology, statistical machine learning and cyber resilience.
履修条件・受講条件/Requirement / Prerequisite	No background is required.
出欠席及び受講に関するルール/Attendance and Student Conduct Policy	
教科書・指定教材/Textbooks	No particular textbook is used. Handouts will be distributed by lectures.
参考図書・参考教材/Reference	Reference materials for further study, if necessary, are suggested by lecturers.
成績評価に関する補足情報/Additional Information on Grading	7 assignments are planned, each for every two weeks
特記事項/Special Note	This course is taught by several lectures.
オフィスアワー/Office Hour	
実務経験のある教員による授業科目/Course conducted by instructors with practical experience	

※ 合理的配慮は定型文につき除外。

学習目標・成績評価詳細情報/Learning Goals &Grading Policy Information	
学習目標(1)/Learning Goal(1)	Students will be able to understand basic concepts and typical applications in the field of information science.
学習目標(2)/Learning Goal(2)	
学習目標(3)/Learning Goal(3)	
学習目標(4)/Learning Goal(4)	
学習目標(5)/Learning Goal(5)	

↑ 5行以上必要な場合は、行を挿入してください。

学習目標/Learning Goals	評価方法/Evaluation Method（プルダウンで選択してください。「その他（自由記述）」を選択した場合は、カッコ内に具体的な内容を入力してください。）				
	レポート・論文/Report/paper	学習への参加度/Learning Engagement			
学習目標(1)/Learning Goal(1)	○	○			
学習目標(2)/Learning Goal(2)					
学習目標(3)/Learning Goal(3)					
学習目標(4)/Learning Goal(4)					
学習目標(5)/Learning Goal(5)					
評価割合(%)/Grade Breakdown	60%	40%	%	%	%

↑ 5行以上必要な場合は、行を挿入してください。

評価割合/Allocation of Marks（%）：100%

授業計画/Class Plan Detailed Information			
回/Time	題目/Title	内容/Content	授業時間外学習/ Independent Study Outside of Class
	1 Title:Introduction		
	2 Algorithm		
	3 Algorithm		
	4 Bioinformatics		
	5 Bioinformatics		
	6 Information Network		
	7 Information Network		
	8 Software Development		
	9 Software Development		
	10 Bio-inspired Information and Communication Technology		
	11 Bio-inspired Information and Communication Technology		
	12 Statistical Machine Learning		
	13 Statistical Machine Learning		
	14 Cyber Resilience		
	15 Cyber Resilience		

↑ 16行以上必要な場合は、行を挿入してください。

授業担当教員/Instructor(s)					
教員氏名/Instructor Name	ふりがな/Name (hiragana)	所属・職名・講座名/Affiliation, Title, Course	居室/Office	内線/Extension	e-mail/E-mail
Takanori Isobe		Department of Information Science and Technology	A301		takanori.isobe@ist.osaka-u.ac.jp

↑ 5行以上必要な場合は、行を挿入してください。