

Course Schedule Information

Course Code／時間割コード	88A060
Semester／開講区分(開講学期)	Spring and Summer Term
Day and Period／曜日・時間	Tue 4
Course Name (Japanese)／開講科目名	国際交流特別講義 3 (ビッグデータ解析)
Room／教室	
Course Name／開講科目名(英)	International Exchange Special Lecture 3(Big Data Analytics)
Capacity／定員	0
Course Numbering Code／ナンバリング	88INES9U105
Required/Optional／必修・選択	
Credits／単位数	2.0
Student Year／年次	1,2,3,4,5,6
Field／分野	
Instructor／担当教員	Makoto Onizuka

[List of Instructor\(s\)](#)

Detailed Syllabus Information

Course Name／講義題目	Big Data Analytics
Language of the Course／開講言語	English
Type of Class／授業形態	Lecture Subject
Course Objective／授業の目的と概要	We study the core techniques of big data analytics including data cleaning, data warehousing, association rule mining, classification, clustering, outlier detection, recommendation, and analysis of various data types such as graph and time series.
Learning Goals／学習目標	The objective of this course is to study fundamental techniques for big data analytics and obtain how they are applied to practical problems in real world.
Requirement / Prerequisite／履修条件・受講条件	Fundamental algorithms, data structures, and programming skills. Database skills are not mandatory but recommended. 1. Trend of Big Data analytics and applications (1) 2. Trend of Big Data analytics and applications (2) 3. Data Warehousing and Online Analytical Processing 4. Mining Frequent Patterns, Associations, and Correlations: Basic Concepts and Methods 5. Advanced Pattern Mining 6. Cluster Analysis: Basic Concepts and Methods 7. Advanced Cluster Analysis 8. Classification 9. Advanced Classification (1) 10. Advanced Classification (2) 11. Graph mining 12. Advanced Graph mining (1) 13. Advanced Graph mining (2) 14. Outlier Detection 15. Recommendation
Class Plan／授業計画	
Independent Study Outside of Class／授業外における学習	Assignment for each lecture.
Textbooks／教科書・教材	Slides are available on CLE.
Reference／参考文献	Data Mining. Concepts and Techniques, 3rd Edition https://drive.google.com/file/d/1HC3M81bmmW6rBOx19nQx6aQBgQph7_Tm/view?usp=sharing
Grading Policy／成績評価	The grade is determined based on the report score.
Other Remarks／コメント	We may ask the students to bring PCs to the lectures.
Special Note／特記事項	Please contact Chuan Xiao (chuanx@ist.osaka-u.ac.jp) if you have any questions.
Office Hour／オフィスアワー	
Keywords／キーワード	
Messages to Prospective Students／受講生へのメッセージ	

Instructor(s)

Instructor Name／教員 氏名	Name (hiragana)／ふりがな	Affiliation, Title, Course／所属・職名・講座名	Office／居室	Extension／内線	Fax／FAX	E-mail／e-mail
No data found						

Cautions for Students

