シラバス参照

科目名/Subject	災害科学の基礎と防災への適用
曜日・講時/Day/Period	前期 水曜日 3講時
科目群/Categories	JYPE科目
単位数/Credit(s)	2
対象学部/Object	
担当教員(所属)/Instructor (Position)	SUPPASRI ANAWAT
セメスター/Semester	Spring Semester, Wednesday 3 lecture hours
科目ナンバリング/Course Numbering	-E
使用言語/Language Used in Course	英語

授業題目/Class Subject	Basics of disaster science and its application for BOSAI
授業の目的と概要/Object and Summary of Class	This class focuses on various aspects of natural hazards and disaster science, their interdisciplinary perspective and their practical application for disaster mitigation and risk reduction. The class will be held at room 3 (4th floor) of International Research Institute of Disaster Science (IRIDeS). https://irides.tohoku.ac.jp/eng/access/
学修の到達目標/Goal of Study	Throughout the concepts of disaster management and preparedness, students will learn and discuss the basics of disaster history, hazard generation and mechanisms, their social impact, related emergency response, medical needs and post-disaster reconstruction.
授業内容・方法と進度予定/Contents and Progress Schedule of the Class	Week 1 (4/10): Course introduction and overview of disasters in the world (Assoc. Prof. Anawat Suppasri) Week 2 (4/17): Disaster and tourism (Assoc. Prof. David Nguyen) Week 3 (4/24): Tsunami Modeling and Applications (Assoc. Prof. Bruno Adriano) Week 4 (5/1): Tsunami Evacuation Simulation (Assoc. Prof. Erick Mas) Week 5 (5/8): Earth Observation Techniques for Disaster Management (Assoc. Prof. Bruno Adriano) Week 6 (5/15): Issues in post disaster reconstruction (Assoc. Prof. Liz Maly) Week 7 (5/22): Disaster Memorial Museums (Assoc. Prof. Julia Gerster) Week 8 (5/29): Mid-semester discussion by student groups (*) (Anawat) Week 9 (6/5): Cascading disasters and Natech risk management (Assist. Prof. Hyejong Park) Week 10 (6/12): Medical assistance in large scale disasters (Prof. Shinichi Egawa) Week 11 (6/19): Cognitive sciences and educational practice in disaster (Assist. Prof. Ryo Saito) Week 12 (6/26): Disaster vulnerable persons (Assist. Prof. Miwako Kitamura) Week 13 (7/3): Disaster history and Anthropology (Assoc. Prof. Yuichi Ebina and Assoc. Prof. Sébastien Boret) Week 14 (7/10): Disaster impact on environment and Eco-DRR (Assist. Prof. Noriko Uchida) Week 15 (7/24): Final presentation by student groups (*) (Anawat, Erick)
成績評価方法/Evaluation Method	Attendance, mid-semester group discussion, reports and final presentation
教科書および参考書/Textbook and References	
関連URL/URL	
授業時間外学修/Preparation and Review	1) 51 Approaches to Disaster Science: Lessons from the Great East Japan Earthquake https://irides.tohoku.ac.jp/eng/publication/51approaches_en.html 2) Natural Catastrophe Risk Management and Modelling: A Practitioner's Guide: Section 3.8 Tsunami, Edited by Kirsten Mitchell-Wallace, Matthew Jones, John Hillier, Matthew Foote, Wiley-Blackwell, May 2017, 536 pages. ISBN: 978-1-118-90604-0 3) Handbook of coastal disaster mitigation engineers and planners, Edited by Esteban, M., Takagi, H. and Shibayama, T., Elsevier, July 2015, 788 pages. ISBN: 978-0-128-01060-0 4) Kuroiwa, J. Disaster Reduction: Living in Harmony with Nature. Editorial NSG., 2004, 495 pages. ISBN-10: 9972999904
その他/In Addition	

更新日付 /Last Update	2024/02/23 15:45

１単位の授業科目は、４５時間の学修を必要とする内容をもって構成することを標準としています。１単位の修得に必要となる学修時間の目安は、「講義・演習」については１５～３０時間に授業および授業時間外学修（予習・復習など）３０～１５時間、「実験、実習及び実技」については３０～４５時間の授業および授業時間外学修（予習・復習など）１５～０時間です。
One-credit courses require 45 hours of study. In lecture and exercise-based classes, one credit consists of 15-30 hours of class time and 30-15 hours of preparation and review outside od class. In laboratory, practical skill classes, one credit consists of 30-45 hours of class time and 15-0 hours of preparation and review outside of class.