

Course Numbering					
Year	First semester 2025				
Subject (J)	Basic of Natural Disaster Science and Its Application for BOSAI				
Subject					
Credit(s)	2Credits				
Instructor	SUPPASRI ANAWAT				
Media Class Subjects					
Essential Subjects	Basics of disaster science and its application for BOSAI				
Language of Instruction	English				
Course Objectives and Summary/ Learning Goals (J)					
Course Objectives and Summary/ Learning Goals	<p>This class focuses on various aspects of disaster science and their practical application for disaster mitigation and risk reduction.</p> <p>Throughout the concepts of disaster management and preparedness, students will learn and discuss the basics of disaster history, hazard generation and mechanisms, their impact, related emergency response, medical needs and post-disaster reconstruction.</p>				
Relevance to Other Subjects/Considerations for Taking the Class (J)					
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Course Description (J)					
Course Description	<p>Week 1 (4/9): Course introduction and Overview of Disasters in the World (Assoc. Prof. Anawat Suppasri)</p> <p>Week 2 (4/16): Disaster impact on environment and Eco-DRR (Assist. Prof. Noriko Uchida)</p> <p>Week 3 (4/23): Tsunami Modeling and Applications (Assoc. Prof. Bruno Adriano)</p> <p>Week 4 (4/30): Tsunami Evacuation Simulation (Assoc. Prof. Erick Mas)</p> <p>Week 5 (5/7): Earth Observation Techniques for Disaster Management (Assoc. Prof. Bruno Adriano)</p> <p>Week 6 (5/14): Building damage assessment (Assist. Prof. Ruben Vescovo)</p> <p>Week 7 (5/21): Tsunami hazard and risk assessment in ports (Dr. Constance Chua and Dr. An-Chi Cheng)</p> <p>Week 8 (5/28): Disaster vulnerable persons (Assist. Prof. Miwako Kitamura)</p> <p>Week 9 (6/4): Issues in post disaster reconstruction (Assoc. Prof. Liz Maly)</p> <p>Week 10 (6/11): Disaster Memorial Museums (Assoc. Prof. Julia Gerster)</p> <p>Week 11 (6/18): Cascading disasters and Natech risk management (Assist. Prof. Hyejong Park)</p> <p>Week 12 (6/25): Medical assistance in large scale disasters (Prof. Shinichi Egawa)</p> <p>Week 13 (7/2): Cognitive sciences and educational practice in disaster (Assist. Prof. Ryo Saito)</p> <p>Week 14 (7/9): Disaster history and Anthropology (Assoc. Prof. Yuichi Ebina and Assoc. Prof. Sébastien Boret)</p> <p>Week 15 (7/16): Final presentation by student groups (*) (Anawat, Erick)</p>				
Preparation and Review(J)					
Preparation and Review	<p>51 Approaches to Disaster Science: Lessons from the Great East Japan Earthquake</p> <p>https://irides.tohoku.ac.jp/eng/publication/51approaches_en.html</p>				
Evaluation methods and criteria (J)					
Evaluation methods and criteria	Attendance, reports and final presentation				
Textbooks and references					
Title	Author	Publisher	Year	ISBN/ISSN	Classification

URL					
Attached File					
Office Hours(J)					
Office Hours					
Contact : Please insert '@' in the email address.					
Notes					
Practical Skill/Hands-on Class					
Other Comments/Instructions					
Last Update					

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 of 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.