

シラバス参照

科目名/Subject	【JYPE】 Geological Environment and Earthquake Disaster
科目群/Categories	School of Engineering
曜日・講時/Day/Period	Thursday 1st (8:50-10:20)
開講年度/Year	2022
セメスター/Semester	Spring Semester
単位数/Credit(s)	2
担当教員(所属) /Instructor (Position)	MASATO MOTOSAKA (Emeritus Professor)
対象/Eligibility	JYPE
使用言語/Language	English
備考/Notes	

授業題目 /Class Subject	Geological Environment and Earthquake Disaster
授業の 目的と 概要 /Objectives and Summary of Class	This course comprises the lectures, students' presentations and discussions on engineering topics for earthquake disaster prevention considering geological environment.
学修の 到達目標 /Goal of Study	To understand the difference of ground motions due to soil conditions for earthquake countermeasures
	Google classroom : iz27x5c
	It is clear through past disastrous earthquakes that the earthquake damage is quite different depending on the geological conditions. The earthquake observation explains this truth. Therefore, it is important to take into account the difference of ground motion due to soil conditions in a seismic design of urban structures and in urban disaster prevention planning. In this course, two reports are requested and students make presentation based on the materials of the task during classes.
授業内容 ・方法と 進捗予定 /Contents and Class Schedule	1 4/14 Introduction to Earthquake and Building Structures 2 4/21 Recent Earthquake Damage and Lessons(I) 3 4/28 Recent Earthquake Damage and Lessons(II) 4 5/12 Students' presentation on the 1st Report and Discussion 5 5/19 Measurements of Ground Motion and Structural Vibration 6 5/26 Overview of Geological Structure and Ground Motion Characteristics 7 6/2 Introductions to Wave Propagation Theory and Structural Vibration 8 6/9 Structural Health Monitoring 9 6/16 Earthquake Damage Prediction -Natural and Social Information- 10 6/23 Seismic Protection Technology-Earthquake Early Warning System- 11 7/30 Recent Topics on Earthquake Disaster Prevention Projects 12 7/7 Students' presentation on the 2nd Report and Discussion
成績評価 方法 /Evaluation Method	The evaluation will be based on the reports and presentations for the requested subjects.
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	
その他 /In addition	In each lecture, the relevant material will be handed out.

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単位の修得に必要な学修時間の目安は、「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 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.