

Course Code: VJ241S9

④ 科目名/Subject	【JYPE】Geological Environment and Earthquake Disaster
④ 科目群/Categories	Engineering
④ 曜日・講時/Day/Period	Thursday 8:50-10:20
④ 開講年度/Year	2021
④ セメスター/Semester	Spring Semester
④ 単位数/Credit(s)	2
④ 担当教員(所属) /Instructor (Position)	Masato MOTOSAKA (Emeritus Professor)
④ 対象/Eligibility	JYPE
④ 使用言語/Language	English

④ 授業題目 /Class Subject	Geological Environment and Earthquake Disaster
④ 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.
④ 学修の 到達目標 /Goal of Study	To understand the difference of ground motions due to soil conditions for earthquake countermeasures
④ 授業内容 ・方法と 進度予定 /Contents and Class Schedule	<p>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.</p> <ol style="list-style-type: none"> 1 4/22 Introduction to Earthquake and Building Structures 2 5/6 Recent Earthquake Damage and Lessons (I) 3 5/13 Recent Earthquake Damage and Lessons (II) 4 5/20 Students' presentation on the 1st Report and Discussion 5 5/27 Measurements of Ground Motion and Structural Vibration 6 6/3 Overview of Geological Structure and Ground Motion Characteristics 7 6/10 Introduction to Wave Propagation Theory and Structural Vibration 8 6/17 Structural Health Monitoring 9 6/24 Earthquake Damage Prediction -Natural and Social Information- 10 7/1 Seismic Protection Technology-Earthquake Early Warning System- 11 7/8 Recent Topics on Earthquake Disaster Prevention Projects 12 7/15 Students' presentation on the 2nd Report and Discussion
④ 成績評価 方法 /Evaluation Method	The evaluation will be based on the reports and presentations for the requested subjects.
④ 教科書 および 参考書 /Textbook and references	
④ 関連 URL /URL	
④ 授業時間外 学修 /Preparation and Review	
④ その他 /In addition	In each lecture, the relevant material will be handed out.
④ 更新日付	2021/03/25 11:21