科目ナン	科目ナンバリング														
授業科目名 <英訳> Natural Disaster Science-E2 Natural Disaster Science-E2									属 防	5災研究所		教	教授 San		h Kantoush
群	統合科	学科目群	分野(分類)	(分類) 環境				使			ē用言語 英語		五		
旧群	B群	単位数	2単位	2単位 週コマ数 1コ			マ	授業形態		形態	講義(対西		対面授	面授業科目)	
開講年度・ 開講期				月2				配当学		全回生			対象学生		全学向
[授業の概要・目的] This course will give students an introduction to the utilization of natural resources and natural disasters in															
scientific disasters disasters. causes, ef approach examples world arc [到達目; By the en -Understa humans. -Be able t	he earth that impact humanity and life in general. The aim of this course will emphasize the fundamental scientific principles to explain current technical issues and impacts of climate change on water related disasters in the world such as flood, high tide, tsunami, landslides, severe weather, and sediment related disasters. Historic catastrophes will be emphasized. Based on these understandings, all students will study causes, effects, and options available to predict, control, and mitigate natural disasters and social scientific approaches. Examples from recent and ancient history will be used and, whenever possible, Japanese examples will be identified. Knowledge gained in this course will allow for a better understanding of the world around us and a greater appreciation of the potential issues moving forward for humans. [到達目標] By the end of this course student will: -Understanding of the world around us and a greater appreciation of the potential issues moving forward for numans. Be able to distinguish and analyze various types of natural disasters issues for human.														
-Be able to gain analytical skills for how to develop strategies for prediction, mitigation of flooding, climate change impacts and sedimentation disasters [授業計画と内容]															
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 Week1: Introduction to Natural Disasters and Hazards Week2: Disaster Risk Reduction, Management and Risk Assessment Week3-4: Geological Hazards: Earthquakes Causes, Measurements, Mitigation and Risks Week5: Climate Change and Global Warming Week6: Understanding Natural Disasters : Focus on Tropical Cyclones Week7: Report and Presentations Week8-9: Flooding as a Hazard: Monitoring, Predication, and Mitigation Measures Week10: Tsunamis: Physics, Modelling, and Engineering Solutions for Hazard Mitigation Week11: Coastal Hazards Week12-13: Landslides and Debris Flow Disaster: Monitoring, Predication, and Mitigation 															
Week14: Week15:	Week12-13: Landslides and Debris Flow Disaster: Monitoring, Predication, and Mitigation Week14: Warning and Evacuation Week15: Revision and Summary (presentation) Feedback														
[履修要	件]														
特になし	,														
[成績評	価の方法	よ・観点]													
		-	-		and collabora h) associated			· ·		natural	l disa	iste	-	n hav	e occurred

Natural Disaster Science-E2(2)

during the course. Evaluation will be based on class attendance and active participation (30%) and reports on major natural disasters occur during the time period of the course (70%).

[教科書]

E.A. Keller and D.E. DeVecchio [®]Natural Hazards, Earth's Processes as Hazards, Disasters, and Catastrophes, ^a (Pearson) ISBN:100-321-93996-4

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[授業外学修(予習・復習)等]

Students are requested to read carefully listed textbook and access to historical case studies on each natural disaster through website and related literatures.

[その他(オフィスアワー等)]

Class participation and questions are very welcome during the lectures or at the end of the lecture. The schedule of office hours will be announced later. Moreover, if you have extra question, students may contact me by email.

[主要授業科目 (学部・学科名)]