

Course	Disaster Information
Course No.	02RB238
Credits	2.0Credits
Grade	1, 2Year
Timetable	FallAB Fri5,6
Instructor	Gaku Shoji
Course Overview	This course provides students with a practical understanding of the application of disaster control informatics based on fundamental theories from the perspective of risk assessment, information gathering (handling) and various core technologies such as Geographic Information System (GIS).
Remarks	The course is taught in odd years. Those who do not belong to the PhD program in Empowerment Informatics need the permission of the instructor to register. Open in an odd number year.
Course Type	lectures
Course Remarks	This course provides students with a practical understanding of the application of disaster control informatics based on fundamental theories from the perspective of risk assessment, information gathering (handling) and various core technologies such as Geographic Information System(GIS). A minimum of five students are required. Lecture in English.
Relationship to EMP Educational Objectives	Interdisciplinary ability:Broad specialist knowledge and experience
Course Objectives	1.Recognize the major disaster information applications and their significance within the mainstream disaster control. 2.Have a sound working knowledge of basic of disaster control and disaster information principles within the context of practical disaster applications. 3.Recognize the role and importance of these principles in a comprehensive range of disaster control applications, both from a technical perspective and from the risk and operational management perspective.
Course Schedule	1)Basics of disaster control 2)Basics of disaster control informatics 3)Quality of disaster information 4)Current trend of disaster information 5)Sensing, observation and monitoring methods of disaster 6)Introduction of Earthquake Early Warning (EEW) and Tsunami Warning System 7)Genealogical pedigree of disaster response system 8)Risk analysis 9)Disaster information Implementation by various user view point 10)Required disaster information framework for the future 11)Geographic Information System (GIS) as a tool for disaster information
Graduating Methods and Criteria	

Homework	
Textbook	
References	<p>1. 京都大学防災研究所 (監修), 寶 馨, 戸田 圭一, 橋本 学 (編集):自然災害と防災の事典, 丸善出版,2011</p> <p>2. D.Hyndman and D.Hyndman:Natural Hazards and Disasters, Brooks/Cole, 2009</p>
Office Hour	<p>anytime by e-mail appointment</p> <p>3F114 6190 gshoji#kz.tsukuba.ac.jp (# by at )</p> <p><a href="http://www.kz.tsukuba.ac.jp/~gshoji">http://www.kz.tsukuba.ac.jp/~gshoji</a></p>
Messages for Students	
Teaching Fellow / Teaching Assistant	
Keywords	