

Course Name	Resources Sustainability		
Semester, Year	First Semester, 2019 (Summer Term)	Number of Credits	2 credits
Course level	5000	Course Number	027030
Instructor(s) (Institution)	Yoshiaki FUJII 大学院工学研究院		
Course Objectives	Global warming is concerned as if it was the only biggest problem for human future. However, there are such many other problems as extinction of resources, food crises, population increase etc. This course offers information on these problems so that students can deeply understand these problems, evaluate their severity and investigate whether we should reduce CO2 or not. Students will be urged to investigate what they should do for human future if it's not CO2 reduction.		
Course Goals	To give enough knowledge so that students can deeply understand these problems, evaluate their severity and investigate whether we should reduce CO2 or not.		
Course Schedule	(1) Introduction (2) Problems for human future and population stabilization (3) Energy and mineral resources (4) Food crises and water shortage (5-7) Climate change (8-11) Global warming mitigation and adaptation (13) The true biggest problem for human future (14-16) Presentation by students		
Homework	Two hour preparation and two hour review are expected.		
Grading System	Discussions 50% and presentation 50%		
Textbooks / Reading List	No textbooks. Handouts will be given. Limits to Growth Meadows, D., Randers, J. and Meadows, D. Snowball Earth Walker, G. The Selfish Gene Dawkins, R.		
Websites	http://rock.eng.hokudai.ac.jp/fujii/index.html		
Website of Laboratory	http://rock.eng.hokudai.ac.jp/index.html		
Additional Information			