강좌번호 Course No.	010.140	005		Title	암석역학 및 실험 Rock Mechanics	credit	3

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강의목표 Objective	This course provide introduction to rock mechanics as a discipline appliedto civil, mining, petroleum and geo-environmental engineering.

교재 Textbook and references	- Hudson, J.A., Harrison, J.P., 1997, Engineering Rock Mechanics - An Introduction to the Principles, Pergamon. - Goodman, R.E., 1989, Introduction to Rock Mechanics, 2nd Ed., John Wiley & Sons. - Jaeger, J.C., Cook, N.G.W., Zimmerman, R.W., 2007, Fundamentals of Rock Mechanics, 4th Ed., Blackwell Publishing, 475 p. - Zoback M, 2007, Reservoir Geomechanics, Cambridge Univ Press

평가방법 Evaluation	Participation	Home Assignment	Mid-term Exam	Final Exam	Sum
	10 %	30 %	30 %	30 %	100%
	비고				

수강생 참고사항 Note to the students	- This is a compulsory course for students in the department of energy resources engineering.

부정행위자에 대한 처리 Note about Plagiarism	- Plagiarism is strictly prohibited.

	주(기간)	강의내용
강의 계획 Schedule	week 1 3/2	- course introduction - introduction to rock mechanics
	week 2 3/7, 9	No lecture (3/7) Laboratory exercise (3/9)
	week 3 3/14, 16	Stress and Mohr circle
	week 4 3/21, 23	Strain, stress-strain relationship, equilibrium equation
	week 5 3/28, 3/30	Intact rock
	week 6 4/4, 6	Failure of rock
	week 7 4/11	Failure of rock
	week 8 4/18, 20	Fractures and fractured rock
	week 9 4/25, 27	Fracture and fractured rock
	week 10 5/2, 4	Openings and boreholes in rock
	week 11 5/9, 11	Openings and boreholes in rock
	week 12 5/16, 18	In situ stress in rock
	week 13 5/23, 25	Hydraulic and thermal behaviors
	week 14 5/30, 6/1	Rock Mass Classification
	week 15 6/8	Final Exam