

Hanyang International Summer School

	Name							
Faculty Information	E-mail							
	Home University							
	Department							
	Homepage							
Course	Class No.	Course Code	ISS1041	Credits	3			
	Course Name	Engineer and Society						
	Lecture Schedule	Tue-Fri /						
	Course Description	Engineers are expected to deliver technologies to society considering the safety and welfare of humankind and the environment. Leadership and professionalism are also expected from engineers to provide considerate guidance on technologies. As technological advances created by engineers can be both positive and negative in its impacts on society, engineers have responsibility and obligation to make ethical decisions for these impacts. While most of decisions could be uncomplicated, there are some hard decisions creating internal and external ethical conflicts. Engineers could face conflicting ethics obligations to society, clients and colleagues, which makes ethical decisions more difficult and complicated. Therefore, engineers should be prepared to make difficult and complex ethical decisions, and this course focuses on developing knowledge to make ethical decisions and communication skills by utilizing real-world case study and exercises which is ethically challenging.						
	Course Objective	Students will become familiar with various discussions and practices for dealing with engineering ethics challenges. Students will learn about ethical decision-making, professional codes of ethics, intellectual property rights and sustainable development. In addition, engineering in global and multi-cultural contexts will be explored and understood as well. Through this course, students will understand the meaning of engineering and its impacts on society, and will be prepared to make ethically proper decisions in the context of science and engineering applications locally and globally. (1) Understand the history of engineering and its impact upon society. (2) Understand the engineer's responsibility for the safety of the public, workplace safety and the protection of the environment.						



			cultural work environments and develop effective communication skills						
			required for engineers through case studies and in-class discussions.						
			(4) Understand a team dynamic and learn how to work individually and						
			collaboratively.						
	Prereq	uisite	- Pre-knowledge not required.						
	Materials/T	extbooks	Course materials will be provided by the instructor. Textbook is not required.						
	Attend	lance	15%	Quiz		%			
	Assignment		15%	Mid-term Exa	am	25%			
Evaluation	Present	tation	%	Final Exam	1	30%			
	Group F	Project	%	Participatio	n	15%			
			Evalua	tion Item		Ratio			
	Etc.					%			
						%			
	Day 1 Week Day 2		Opening Ceremony						
			Introduction to Engineer and Society						
	1	Day 3	What is Engineering?						
		Day 4	Engineers in Organization						
		Day 1	Roles and Responsibilities of an Engineer Management and Leadership						
	Week	Day 2							
	2	Day 3	Creativity in Engineering Midterm Exam						
Daily		Day 4							
Lecture Plan		Day 1	Technical Competency						
	Week Day 2 Ethics in Engineering								
	3	Day 3	Engineering and Sustainability						
		Day 4	Corporate Social Responsibility						
		Day 1 Professionalism							
	Week Day 2 Health, Safety and Welfare								
	4 Day 3		Engineering in a Global Environment						
		Day 4	Final Exam						

^{*}Note: Class schedule is subject to change.