



HANYANG UNIVERSITY

Hanyang International Summer School

Faculty Information	Name	John McGuire				
	E-mail	mcguire@hanyang.ac.kr				
	Home University	Hanyang University				
	Department	International Studies				
	Homepage	http://dis.hanyang.ac.kr/faculty/john-michael-mcguire-ph-d/				
Course Information	Class No.	18011	Course Code	DIS4029	Credits	3
	Course Name	AI Ethics and Society				
	Lecture Schedule	Tue-Fri / 09:00-12:00				
	Course Description	<p>This course is designed to provide students with a deeper understanding of the ways in which artificial intelligence is transforming our economy and society and to recognize and think through the ethical concerns and risks associated with this revolutionary technology. The course will cover topics such as robot rights, AI existential threats, biases in algorithms, the ethics of AI in warfare and self-driving cars, the future of work in the age of AI, and human relationships with AI robots. Students in this course will also be introduced to the ethical theories and moral concepts involved in moral deliberation, such rights, duties, autonomy, beneficence, non-maleficence, privacy, and justice.</p> <p>Classes will consist of a combination of live lectures, class discussions, breakout group debates, and group project discussions. As this is a "Project-based Learning" (PBL) course, it has been designed specifically to provide students with sufficient opportunities for group-based and project-based learning. Working in groups, students will several opportunities to debate social and ethical issues related to AI and attempt to resolve target questions designated by the instructor. Additionally, each student will participate in one group-based research project concerning current and future uses and risks of AI technology.</p>				
	Course Objective	<p>Artificial intelligence is transforming our lives, economies, and societies, but is this the dawn of a new age in human flourishing or rather the beginning of the end of humanity? What benefits and harms is AI expected to bring about? What ethical concerns and risks does it raise? This course is designed to provide students with the information, perspectives, and skills needed to think through these questions and to prepare them for a future in which AI is certain to play an increasingly prominent role.</p>				

	Prerequisite	Students from any major may enroll in this course. However, since it is conducted entirely in English, the ability to communicate effectively in English is a prerequisite for this course. The course is suitable for exchange students and domestic students who are fluent or highly functional in the English language. The course is especially appropriate for students with a personal or academic interest in ethics, law, computer science, and/or public policy.		
	Materials/Textbooks	<i>AI Ethics</i> , by Mark Coeckelbergh (MIT Press) <i>A Citizen's Guide to Artificial Intelligence</i> , by John Zerilli (MIT Press)		
Evaluation	Attendance	10 %	Quiz	%
	Assignment	20 %	Mid-term Exam	15 %
	Presentation	%	Final Exam	15 %
	Group Project	30 %	Participation	10 %
	Etc.	Evaluation Item		Ratio
				%
				%
Daily Lecture Plan	Week 1	Day 1	Course introduction and introduction to ethics	
		Day 2	Ethical theory (utilitarianism, libertarianism, and deontology)	
		Day 3	Contemporary applications of AI in business and education	
		Day 4	AI automation, the future economy, and UBI	
	Week 2	Day 1	Biases in algorithms	
		Day 2	Ethical concerns with self-driving cars	
		Day 3	The possibility of sentient or conscious AI systems	
		Day 4	Robot servitude, robot rights, and personhood	
	Week 3	Day 1	Relationships (human-human and human-machine) in the age of AI	
		Day 2	AI in the media, misinformation, and threats to democracy	
		Day 3	AI in warfare	
		Day 4	Super intelligence, the singularity, and the alignment problem	
	Week 4	Day 1	Research projects – presentations	
		Day 2	Research projects – presentations	
		Day 3	Course conclusion and final reflections	
		Day 4	Graduation	