Akashi College			Ye	ear	2023			ourse	Ethics for Engineers			
					2025			Γitle				
Course Information												
Class For		5001				Crodits			Crodity 2			
Class Format Lecture  Department Architect		ture and Civil Engineering			Credits Student Grade	Academic		Credit: 2				
Department Architectu Term Second Se			ure and Civil Engineering			Classes per We						
T			下編:「はじめての工学倫理」、昭和堂 a									
Instructor		ITOH Hit	oshi									
Course	Objectiv	es										
(1) Under (2) Under (3) Have (4) Develunderstar	rstand the rstand wha sufficient k op the abil nding and k	characterist t ethical iss nowledge o ty to devise knowledge o	e effective of (1) to (3	solutio: 3).	r's job and what k ly face in their da ocial systems rela ns for typical ethio to study the pres	cal issues that e	ngineer	s will enco	ineers have in response to them. ith the above-mentioned issues. ounter, based on the			
Rubric												
			Ideal Level			Standard Level			Unacceptable Level			
Achievem	ent 1		Fully understand the characteristics of an engineer's job and their ethical responsibilities.			Understand the characteristics of an engineer's job and their ethical responsibilities.		nd their	Do not fully understand the characteristics of an engineer's job and their ethical responsibilities.			
Achievem	ent 2		Fully understand what ethical issues engineers may face.			Understand what ethical issues engineers may face.		cal issues	Do not understand what ethical issues engineers may face.			
Achievem	ent 3		Have sufficient knowledge of the important social systems related to engineers.			Have knowledg important socia to engineers.	ve knowledge of the ortant social systems related engineers.		Do not have knowledge of the important social systems related to engineers.			
			Fully have the ability to devise effective solutions for ethical issues that engineers will encounter.			leffective solution	the ability to devise tive solutions for ethical is that engineers will unter.		Do not have the ability to devise effective solutions for ethical issues that engineers will encounter.			
Assigne	d Depart	ment Ob	jectives									
	g Metho											
The daily lives o technology is us their expertise. course will exam				ves of people today are based on highly developed science and technology. This science and is used by highly trained engineers who have a responsibility to society to use it properly based on tise. This responsibility is now becoming more important, and social interest is growing, too. This examine the specific details of this responsibility that engineers bear, what problems may arise in t, and how to deal with that.								
Style		of the cla	Classes will be held in a lecture style. At the end of each class, students should write and submit a summary of the class content, their opinions, etc. and this will be evaluated as a small report.  The liaison for this course is Omota.									
Notice		guarante assignme accidents the class	This course's content will amount to 90 hours of study in total. These hours include the learning time guaranteed in classes and the standard self-study time required for pre-study / review, and completing assignment reports. The class will use videos, newspaper articles. etc., and take many examples from recent accidents and corporate morals. Reference materials and other materials are introduced as appropriate during the class. Therefore, we would like students to show interest in areas other than their specialty field. Students who miss 1/3 or more of classes will not be eligible for a passing grade.									
Characteristics of Class / Division in Learning												
☐ Active Learning		•	□ Aide		-	☑ Applicable to a positive to a positiv	to Remote Class		☐ Instructor Professionally Experienced			
Course	Plan											
			Theme				Goals					
2nd Semeste r	3rd Quarter	1st	Why engineering ethics? Why is it necessary for those who aspire to be engineers to learn ethics? Clarify the links between engineers and ethics through today's social background, the codes of ethics established by the engineering academic societies, etc., and learn and confirm their significance.				Understand the links between engineers and ethics based on today's social background and the code of ethics.					
		2nd	The space shuttle Challenger accident 1 Deal with the space shuttle Challenger accident, the most famous case in engineering ethics, and					Understand the characteristics and relationships of the decisions made by the engineers and executives.				
		3rd	responsibilities engineers have for making				Understand the responsibilities and abilities required of engineers for organization risk management.					
		4th	The Tokair Use the JC consider th that have s industry, tl					Understand the significance and challenges of improvement activities.				

The Tokamura JCO critically accident 2 critically accident 2 critically accident to discuss group thinking and how technicians should deal with it to ensure safety and quality.  Whiteblowing 1  Whiteblowing 2  Whiteblowing 2  Whiteblowing 2  Whiteblowing 2  Whiteblowing 2  Whiteblowing 3  Whiteblowing 4  Whiteblowing										
Whistleblowing 1			5th		Following the previous class, use the JCO criticality accident to discuss group thinking, which collective organizations are prone to, and how technicians should deal with it to ensure  Learn the characteristics of group thinking the abilities needed to deal with it and stafety.					
Following the previous class, deal with witstletbowing. An increasing numbers of such as part of their efforts to enhance their compliance systems. Examine this trend's significance in the relationship between organizations and individuals.  Product Liability Act. Review the fact that the relationship between organizations and individuals.  Product Liability Act. Review the fact stabilish it as a manufacturing belief.  Intellectual properties. Confirm the significance of the product Liability Act and become able to use it as a manufacturing belief.  Intellectual properties. Confirm the significance of the patent, copyright. Confirm the significance of the patent, copyright. Confirm the significance of the patent, copyright. Confirm the significance of the patent accompany information technology development, etc.  The Bhopal disaster 1  10th 1story—as an example to discuss the further in history—as an example to discuss the dead with overseas industrial activities as globalization progresses.  The Bhopal disaster 2  Based on the previous class, example the fact because the further in this or the previous class and significance of failure studies and topics such as Heinrich's law in the fact because the fact because the further in the fact because the f			6th		Whistleblowing 1 Discuss the purpose of whistleblower protectic current laws, and the	on system, ćriticisms of the relationship between this	Acquire knowledge of the whistleblower protection system, and understand its issues.			
Review the details of the Product Liability Act—which is said to be the most relevant law for engineers—and discuss that it is mynotrant for pelifer  Intellectual properties Confirm the significance of the patent, copyright, and other systems for technology development, and examine the issues, etc., facing them that accompany information technology development, and examine the issues, etc., facing them that accompany information technology development, and examine the issues, etc., facing them that accompany information technology development, the through the state of the product Liability and understand their significance in the three agricultural signest related the in- list by agricultural signes related the in- list by agricultura			7th		Following the previous whistleblowing. An inc companies have estab part of their efforts to systems. Examine this relationship between of	reasing number of lished help desks, etc. as enhance their compliance trend's significance in the				
Subtotal			8th		Review the details of t Act—which is said to be engineers—and discus engineers to establish	oe the most relevant law fo is that it is important for	Liability Act and become able to use it as a			
10th			9th		Confirm the significand and other systems for and examine the issue accompany informatio	technology development, es, etc., facing them that	and understand their significance in			
Based on the previous class, examine the fact that there is a need for engineers to take into account that technology development is deeply related to the interaction between social conditions, culture, history, and thoughts, etc., that surround it.    The Roppongi Hills revolving door accident 1 Introduces the activities of the Door Project, which took place after the revolving door accident of failure studies and topics such as Heinrich's law in risk management.    The Roppongi Hills revolving door accident of failure studies and topics such as Heinrich's law in risk management.    The Roppongi Hills revolving door accident of failure studies and topics such as Heinrich's law in risk management.    The Roppongi Hills revolving door accident of failure studies and topics such as Heinrich's law in risk management.    The Roppongi Hills revolving door accident of failure studies and topics such as Heinrich's law in risk management.    The Roppongi Hills revolving door accident of failure studies and topics such as Heinrich's law in risk management.    The Roppongi Hills revolving door accident of failure studies and topics such as the previous class, discuss how engineers also have their own culture as engineers also have their own culture as engineers and that it is important to pass down knowledge to overcome the problems that result from this.    Universal design   Universal design and understand and communicate technology development that gives birth to new power struggles and discrimination, whereas universal design is an attempt to democratize it.    The scope of engineering ethics   New technology developments by engineers have had a variety of impacts in sectors such as information society and medical care. Consider the sort of relation that engineers should have to ethics in these other areas.    Subtotal			10th		Use the agricultural ch Bhopal, India—the big history—as an exampl increasing problems a	gest industrial accident in e to discuss the further ssociated with overseas				
Ath Quarter			11th		Based on the previous that there is a need fo account that technolog related to the interacti social conditions, cultured	r engineers to take into gy development is deeply ion between	learn effective methods for overseas industrial			
Based on the previous class, discus how engineers also have their own culture as engineers, and that it is important to pass down knowledge to overcome the problems that result from this.    Universal design		4th Quarter	12th		Introduces the activities which took place after accident, and discuss failure studies and top	es of the Door Project, the revolving door the ideas and significance o	Acquire knowledge of failure studies and Heinrich's law.			
14th   Confirm that there is a political aspect to new technology development that gives birth to new power struggles and discrimination, whereas universal design is an attempt to democratize it.    The scope of engineering ethics New technology developments by engineers have had a variety of impacts in sectors such as information society and medical care. Consider the sort of relation that engineers should have to ethics in these other areas.    16th   No final exam   Short Reports & Presentation   Short Reports & Presentation   Total			13th		Based on the previous engineers also have the engineers, and that it knowledge to overcom	class, discus how neir own culture as is important to pass down	technology effectively, it is necessary to properly			
New technology developments by engineers have had a variety of impacts in sectors such as information society and medical care. Consider the sort of relation that engineers should have to ethics in these other areas.    16th			14th		Confirm that there is a technology developme power struggles and d	ent that gives birth to new liscrimination, whereas				
Evaluation Method and Weight (%)  Final Report  Subtotal  Basic Proficiency  Specialized Proficiency  O  Final Report  Short Reports & Presentation Reports & Presentation  Total  Total  100  100  100  100  0  0  0			15th	New technology developments of impaintments of		opments by engineers have its in sectors such as d medical care. Plation that engineers shoul	and modern society and what their place in it			
Final Report Short Reports & Presentation researcher Total  Subtotal 60 30 10 100  Basic Proficiency 60 30 10 100  Specialized Proficiency 0 0 0 0			16th		No final exam					
Final Report         Reports & Presentation         researcher         Total           Subtotal         60         30         10         100           Basic Proficiency         60         30         10         100           Specialized Proficiency         0         0         0	Evaluati	on Meth	od ar	nd V	Veight (%)					
Subtotal         60         30         10         100           Basic Proficiency         60         30         10         100           Specialized Proficiency         0         0         0				Fina	al Report			Total		
Specialized Proficiency 0 0 0	Subtotal 6			60		•		100		
	,					30		100		
Cross Area Proficiency 0 0 0	•									
	Cross Area Proficiency					U	U	[0		