

课程大纲

COURSE SYLLABUS

1.	课程代码/名称 Course Code/Title	GGC5006 工程师道德 Ethics in Engineering and Research
2.	课程性质 Compulsory/Elective	公共课
3.	课程学分/学时 Course Credit/Hours	2/32
4.	授课语言 Teaching Language	English
5.	授课教师 Instructor(s)	Aung Ko Ko Kyaw
6.	是否面向本科生开放 Open to undergraduates or not	No
7.	先修要求 Pre-requisites	Good understanding of English
8.	教学目标 Course Objectives	
	Ethics in Engineering and Research will provide ethics training to graduate students in engineering and research. The course prepares students to become familiar with discussions and methods for developing ethical approaches to engineering research and applied projects. Contemporary issues in engineering ethics will be presented and discussed. These issues include research integrity, professional ethics, human subjects protections, environment and animal protections, intellectual property rights, ethics in scientific research and publications, software license issues and sustainability.	
9.	教学方法 Teaching Methods	
	The course may include lectures, discussions, presentations, online materials and videos.	
10.	教学内容 Course Contents (如面向本科生开放, 请注明区分内容。 If the course is open to undergraduates, please indicate the difference.)	
	Section 1	Introduction to Ethic
	Section 2	Engineering philosophy
	Section 3	Codes of Ethics, Whistle Blowing, Case Study Methodology
	Section 4	Safety and Health Issues
	Section 5	Intellectual property
	Section 6	Practice of Engineering in China
	Section 7	Ethics in Research and Publication
	Section 8	Research Method and Writing
	Section 9	
	Section 10	

	
11.	课程考核 Course Assessment	
	Class participation 10%, Assignment 40%, Presentation 25%, Final report 25%	
12.	教材及其它参考资料 Textbook and Supplementary Readings	
	Canadian Professional Engineering and Geoscience: Practice and Ethics, Gordon C Andrews. Already in Library Introduction to Engineering Ethics, Mike W. Martin and Roland Schinzinger, MacGraw-Hill Technical Writing and Professional Communication for Nonnative Speakers of English, Thomas N. Huckin and Leslie A. Olsen, MacGraw-Hill	