

Course Syllabus

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| 1. | Program of Study | Bachelor of Science Program
Bachelor of Arts Program
Bachelor of Business Administration Program
Bachelor of Nursing Science Program |
| | Faculty/Institute/College | Mahidol University International College |
| 2. | Course Code | ICHM 206 |
| | Course Title | Ethics and Technology |
| 3. | Number of Credits | 4 (4-0-8) (Lecture/Lab/Self-study) |
| 4. | Prerequisite (s) | none |
| 5. | Type of Course | General Education Course |
| 6. | Trimester / Academic Year | TBA |
| 7. | Conditions | - |
| 8. | Course Description
Traditional and non-traditional ethical theories and their application to issues in modern technology topics. | |
| 9. | Course Objective (s)
After Successful Completion of this course, students should be able to
9.1 To clarify the ideas, meaning and value involved in choosing a behavioral axiology
9.2 To introduce basic ethical concepts and theories
9.3 To determine what it means to be a “human” and a “person” | |

10. Course Outline

Week	Topics	Hour			Instructor
		Lecture	Lab	Self-Study	
1	The new science and the scientific method	4	0	8	Assigned Section Instructor
2	The public attitude towards science and technology	4	0	8	“
3	Traditional ethical systems: Legalism, Deontology, Utilitarianism	4	0	8	“
4	The inadequacy of traditional ethics to deal with modern technology	4	0	8	“
5	Moral agent and object; what does it mean to be human (Video)	4	0	8	“
6 – 7	Personhood, dolphins and computers	4	0	8	“
8	The social and economic costs of technology: What is lost and what is gained? Who pays?	4	0	8	“
9	Moral pluralism, Freedom and personal identity	4	0	8	“
10	The end of anthropocentrism; Beyond earth	4	0	8	“
11	Artificial intelligence and creativity Medical technology; virtual reality, cloning implants; the future of technology	4	0	8	“
Total		44	0	88	
Final Examination					

11. Teaching Method (s)

- 11.1 Lecture
- 11.2 Discussion
- 11.3 Quiz

12. Teaching Media

- 12.1 Texts and Teaching Materials
- 12.2 Transparencies
- 12.3 Videos

13. Measurement and evaluation of student achievement

Student achievement is measured and evaluated by

13.1 the ability to clarify the ideas, meaning and value involved in choosing a behavioral axiology

13.2 the ability to introduce basic ethical concepts and theories

13.3 the ability to determine what it means to be a “human” and a “person”

Student’s achievement will be graded according to the faculty and university standard using the symbols: A, B+, B, C+,C,D+, D, and F.

Students must have attended at least 80% of the total class hours of this course.

MUIC standard grading criteria: 90% and above is grade A

Ratio of mark

- | | |
|-------------------------|-----|
| 1. Discussion | 10% |
| 2. Mid-term examination | 45% |
| 3. Final Examination | 45% |

The standard scale of 90 – 100 = A, 85 - 89 = B+, 80 – 84 = B, etc. 60 is required to pass.

14. Course evaluation

14.1 Students’ achievement as indicated in number 13 above.

14.2 Students’ satisfaction toward teaching and learning of the course using questionnaires.

15. Reference (s)

Mary Midgley, *Utopias, Dolphins and Computers*, Routledge, London, 1996.

Stephen Hawking, *Black Holes and Baby Universes*, Bantam, Toronto, 1993 (excerpts only)

Peter Vardy and Paul Grosch, *The Puzzle of Ethics*, Harper, London, 1994 (excerpts only)

16. Instructor (s)

Dr. Eugene Jones

17. Course Coordinator

Dr. Eugene Jones