

BME201 Biomedical Ethics

Level: 2

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JULY

Synopsis:

This course covers the ethics and morality of choices and decisions regarding medical research. It aims to develop a sense of heightened sensitivity and professionalism in bio-related research scientists and engineers.

Topics:

- Ethics and Professionalism in Engineering
- Methods, Moral Concepts and Theories in Ethics
- Responsible Conduct of Science
- Ethics in Genetic Screening and Genetic Engineering
- Ethics of Live-sustaining Biomedical Engineering Design
- Bioethics regulations in Singapore

Textbooks:

BME201 Course Guide Jul15

ISBN-13: AC-0072

Learning Outcome:

- Discuss the meaning of ethics, different ethical theories, and its applications in the area of biomedical sector.
- Compare traditional and current issues in biomedical ethics.
- Explain theories of ethics: teleological and deontological.
- Discuss in depth about the pros and cons of each ethical problem presented, and compare and contrast the different ethical views in a same problem.
- Apply the ethical decision tool as a guide in making an ethical decision.
- Examine potential ethical dilemmas in their work as a biomedical engineer, (e.g. in research, allocation of life sustaining machine).
- Recommend possible actions to be taken in responses to these dilemmas.
- Identify the probable consequences of those actions.

Assessment Strategies - Regular Semester (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	PRE-CLASS QUIZ 1	2
	PRE-CLASS QUIZ 2	2
	PRE-CLASS QUIZ 3	2
	TUTOR-MARKED ASSIGNMENT 1	24
Overall Examinable Components	Written Exam	70
Total		100

*The information listed is subject to review and change.