



MODULE SPECIFICATION

Faculty of Engineering

Last Updated (22nd February 2018)

1. **Module Title**
Professional Ethics

2. **Module Code**
EG2501

3. **Number of credits**
10

4. **Level**
2

5. **Semester**
3

6. **Pre-requisites for admission to the module**
Normal progression rules.

7. **Module Coordinator**
Md Hairol Hj Md Ali

8. **Aims**
The module is aimed at providing students with knowledge required to recognise and engage with ethical issues and concerns, as well as skills relevant to ethical reasoning and decision-making within both professional and personal responsibility

9. **Summary of Contents**

The module covers the following topics:

- **Basic Concepts of Ethics:** Values, virtues and trust, theoretical ethical framework.
- **Duty of Care and Obligations of (Engineering) Professionals:** Public Safety, Health and Welfare, Sustainability and Environmental Ethics
- **Ethics and Law:** Code of Ethics For (Engineering) Professionals, Prevention of Corruption Legislation
- **Case Studies:** Common ethical issues and concerns, ethical dilemmas and moral reasoning.
- **Ethics Program in An Organization:** Creating ethical excellence, employee code of conduct, ethical leadership, corporate social responsibility, ethics audit.

10. Module Intended Learning Outcomes (MILOs)

Upon successful completion of this module, students will be able to:

No.	MILOs	Weightage (%)
1	Explain the basic understanding of theories and principles of ethics, fundamental to the foundation of ethical behaviours.	30
2	Describe the legal obligations and codes of ethics relevant to and which govern the conduct of (engineering) professionals	20
3	Analyse and appraise moral issues and concerns and incorporate ethical considerations into (engineering) professional practices, with a blend of normative and theoretical principles and empirical approaches	20
4	Formulate ethical reasoning when dealing with moral conflicts and dilemmas in both personal and work place situations	30

11. Teaching and Learning Activities (TLAs)

MILO No.	TLAs	Functions	Hours/Week
1,2	Lecture	Provide awareness, knowledge and understanding of core concepts and principles. Illustrate their practical applications.	1
3,4	Tutorial/Seminar	Discussion sessions using case studies and hypothetical situations to apply acquired knowledge and build required skills.	2

12. Assessment Tasks/Activities

MILO No.	Type of Assessment Tasks/Activities	Weightage (%)
1 - 4	University Examination	60
2,3,4	2 Assignments	40

Assessment Criteria:

Assessment components of the module shall be University Examination and Course-works. To achieve a pass in the module students must obtain a minimum overall mark of 40% and a minimum of 30% in each assessment component.

Resit: Students eligible for resit shall be assessed according to the programme area Examination Board recommendation.

13. Attendance Requirements

Students are required to attend all lectures and tutorials.

14. Contribution to Programme Intended Learning Outcomes

PILO		MILO No.			
		1	2	3	4
1	Science & Mathematics				
2	Engineering Analysis				
3	Design				
4	Advanced Design				
5	Economic, Legal, Social and Ethical Contexts	✓	✓	✓	✓
6	Engineering Practice				
7	General Skills	✓	✓	✓	✓

15. Grading of Student Achievement

Marks (%)	Grades	Grade Definition
85-100	A+	Excellent
75-84	A	
70-74	B+	Very Good
65-69	B	
60-64	C+	Good
55-59	C	
50-54	D+	Satisfactory
45-49	D	
40-44	E	Marginal
0-39	F	Fail

16. Resources

Suggested primary texts

No	Name of Author(s)	Year of Publication	Title of Book	Edition	Publisher's Name	ISBN
1	Charles E. Harris, Jr, Michael S. Pritchard, Michael J. Rabins, Ray James & Elaine Englehardt	2014	Engineering Ethics: Concepts and Cases	5 th	WADSWORTH CENGAGE Learning	978-1-133-93468-4
2	Richard H. McCuen, Kristin L. Gilroy	2011	Ethics and Professionalism in Engineering	1st	Broadview Press	978-1-55111-283-1
3	Royal Academy of Engineering	[Accessed in Aug 2016]	Engineering Ethics		www.raeng.org.uk/policy/engineering-ethics	
4	National Society of Professional Engineers	[Accessed in Oct 2016]	NSPE Code of Ethics for Engineers		https://www.nspe.org/resources/ethics/code-ethics	

Note: Module specification valid for Intake 2017 onwards.