

**Military Institute of Science & Technology**  
**Mirpur Cantonment, Dhaka**



**Department of Computer Science & Engineering**

**COURSE OUTLINE**

**Subject:**

**Title:** Engineering Ethics

**Code:** HUM-215

**Credit Hour:** 2.00

**Contact Hour:** 2.00

**Level-2, Term-II**

**Instructor:**

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**1.0 Course Objectives:**

1. Able to identify and analyze practical legal problems commonly encountered in the computing industry.
2. Able to formulate and communicate solutions to some of the legal problems referred to above.
3. Able to continue professional development with an understanding of the legal issues, and to critically assess the codes of professional conduct for computer professional.
4. Able to engage in lifelong learning by independently and continually acquiring knowledge relating to the legal aspects of computing and professional conduct for computer professionals.
5. Able to explain the main legal issues arising from the computing technology.

**2.0 Text Book:**

- I. "Engineering Ethics Concepts and Cases" --- Charles E. Harris. Jr. , Michael S. Pritchard , Michael J. Rabins (2<sup>nd</sup> Edition)

**3.0 Reference Books:**

- I. Pinkus, Shuman, Hummon, and Wolfe, *Engineering Ethics: Balancing Cost, Schedule, and Risk; Lesson Learned from the Space Shuttle*. (Cambridge University Press, 1997).
- II. Schinzinger and Martin, *Introduction to Engineering Ethics* 3<sup>rd</sup> (McGraw-Hill Higher Education, 2000).

**4.0 Distribution of Marks:**

Description	Marks (%)
Class Test / Assignment/ Case Study	20
Attendance	5
Observation	5
Final Examination (Section A & Section B)	70
<b>Total</b>	<b>100</b>

## 5.0 Distribution (Planning) of the Course Contents:

Week	Lecture	Topics	Remarks
1	Lec 1	Introduction to Engineering Ethics	
	Lec 2		
2	Lec 3	Ethical Dilemmas, Choices	
	Lec 4		
3	Lec 5	Moral Frameworks for Engineering Ethics	
	Lec 6		
4	Lec 7	Codes of Ethics	
	Lec 8		
5	Lec 9	Principles Of Engineering Ethics <b>Class Test -1</b>	
	Lec 10		
6	Lec 11	Case Study Case Studies for the Workplace <b>Assignment</b>	
	Lec 12		
7	Lec 13	Responsible Engineers	
	Lec 14		
8	Lec 15	Engineers as Employees <b>Assignment Submission</b>	
	Lec 16		
9	Lec 17	Risk, Safety, and Liability in Engineering	
	Lec 18		
10	Lec 19	Ethical Engineering Decision Making <b>Class Test -2</b>	
	Lec 20		
11	Lec 21	Computer Ethics & Security	
	Lec 22		
12	Lec 23	Computer Ethics & Security <b>Presentation Topics Discussion</b>	
	Lec 24		
13	Lec 25	<b>Presentation</b>	
	Lec 26		
14	Lec 27	Ethics In Research	
	Lec 28		