



National Institute of Technology Meghalaya
An Institute of National Importance

CURRICULUM

Programme		Bachelor of Technology											Year of Regulation			2018-19		
Department		Humanities and Social Sciences											Semester			VII		
Course Code	Course Name	Credit Structure				Marks Distribution												
		L	T	P	C	INT	MID	END	Total									
HS471	Professional Ethics	2	0	0	2	50	50	100	200									
Course Objectives	This course introduces the ethical codes of conduct in professional engineering		Course Outcomes	CO1	Able to remember the various ethical codes of conduct spelled out by the various professional engineering bodies													
	This course familiarizes the various responsibilities of the engineers			CO2	Able to understand the responsibilities of the engineers towards society and environment and technological entrepreneurship issues													
	This course explains the application of engineering knowledge and ethical principles			CO3	Able to apply engineering knowledge by assessing societal, health, safety, legal and cultural issues. Ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice													
	This course illustrates engineering failures through case studies			CO4	Able to analyse and evaluate the cases of engineering failures													
No.	COs	Mapping with Program Outcomes (POs)												Mapping with PSOs				
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3		
1	CO1	2	0	2	0	0	2	2	3	1	1	2	2					
2	CO2	2	1	2	0	0	2	2	3	1	1	2	2					
3	CO3	2	1	2	0	0	2	2	3	1	1	2	2					
4	CO4	2	0	2	0	0	2	2	3	1	1	2	2					
SYLLABUS																		
No.	Content													Hours	COs			
I	What is Engineering? The engineering view; The engineering image; The Engineer's challenge: Cost, deadlines, and safety; Engineering & business.													04	CO1, CO2			
II	Moral thinking and moral theories; Codes of engineering ethics; Support for ethical engineers													05	CO2, CO3			
III	Risk assessment and communication; Product liability; Engineering and sustainable development.													05	CO1, CO2			
IV	Foundations of intellectual property; Copyrights, Patents, and Trade secrets; Software piracy; Software patents; Transnational issues concerning intellectual property.													06	CO2, CO3			
V	Challenger disaster; Hyatt Regency Walkway Collapse; The Pfizer Heart Valve Case; The Therac-25 Case; The Enron Corporation; The Satyam Scam etc.													06	CO4			
Total Hours													24					
Essential Readings																		
1. Mike W. Martin and Roland Schinzinger, "Ethics in Engineering", McGraw Hill Education, Fourth Edition, 2017.																		
2. Charles E. Harris et.al. "Engineering Ethics: Concepts and Cases", Cengage Learning, Fifth edition, 2013.																		
Supplementary Readings																		
1. Charles B. Fleddermann, "Engineering Ethics", Pearson, Fourth Edition, 2012.																		
2. John R. Boatright, Jeffery D. Smith, and Bibhu Prasan Patra "Ethics and the Conduct of Business", Pearson, Eighth Edition, 2017.																		