

Module Code	GE-2401		
Module Title	Ethics, Health & Safety		
Degree/Diploma	Bachelor degree		
Type of Module	Breadth		
Modular Credits	2	Total student Workload	4 hours/week
		Contact hours	2 hours/week
Prerequisite	Nil		
Anti-requisite	Nil		
Aims			
To introduce ethical, health and personal safety issues faced by engineers with particular reference to managing the risks associated at work efficiently.			
Learning Outcomes			
<i>On successful completion of this module, a student will be expected to be able to:</i>			
Lower order :	30%	- understand the concepts of hazard, risk and process safety strategies - assess potential ethical issues present at work	
Middle order :	60%	- identify risk levels and acceptability criteria - apply and integrate concepts and techniques learnt to a practicable level	
Higher order:	10%	- evaluate and perform case studies involving process safety incidents - communicate effectively within a group to reduce potential risks	
Module Contents			
<ul style="list-style-type: none"> - Introduction to ethical principles, professional, dilemmas and responsibilities faced by engineers - Importance of safety in process plants and analyse possible major sources of potential hazards - Ways of reducing and mitigating possible risks - Risks assessment techniques, principles of plant safety, loss prevention principles, process hazards and operability and process safety hazards identification - Concepts of inherent safety in design and operation and process safety management framework - Layers of protection analysis - Introduction to laws and regulations involving health and safety issues - Perform several case studies relating to process safety incidents 			
Assessment	Formative assessment	Monthly online multiple choice questions will be used to test and to give feedback for their learning	
	Summative assessment	Examination: 60% Coursework: 40% - 1 class test (10%) - 3 assignments (10% each)	