

NATIONALLY HARMONISED B.Sc. CHEMICAL ENGINEERING PROGRAM				
Course Code	ChEg5212			
Course Name	Industrial Safety and Maintenance			
Degree Program	B.Sc. in Chemical Engineering			
Module Name	Industrial Management and Entrepreneurship			
Module Coordinator	N.N.			
Lecturer	TBA			
Instructor's contact information	Office Phone E-mail Office hour			
ECTS	5			
Students work load (per week)	Lecture	Tutorial	Laboratory or Practice	Home study
	3	0	0	5
Students work load (per semester)	48hrs	0	0	80hrs
Mode of delivery	Parallel(per semester)			
Course Objectives & Competences to be Acquired	<p>The course aims to introduce the students with process plant, employee and product safety in processing industries.</p> <p>Upon completion of this course:</p> <ul style="list-style-type: none"> ○ The students will be able to define PSM and why it is important ○ The students will be able to identify process safety responsibilities ○ The students will be able to identify methods of hazard identification and classification as well preventive measures. ○ The students will be able to identify process safety responsibilities 			
Course Description/Course Contents	<ul style="list-style-type: none"> ○ Accountability: Objectives and Goals ○ Continuity of operations, ○ Continuity of systems, 			

	<ul style="list-style-type: none"> ○ Continuity of organization, ○ Quality process, control of exceptions, alternative methods, management ○ Accessibility, communications and company expectations. ○ Identification, classification and assessment of hazards due to fire, explosion, dust, noise and radiation. ○ Identification, classification and assessment of hazards due to toxic, corrosive and carcinogenic chemicals and threshold limit values. ○ Protective and preventive methods in hazard controls ○ Industrial hygiene, reliability and risk analysis ○ HAZOP and HAZAN ○ Consequence analysis ○ Event probability and failure frequency analysis ○ Safety training ○ Emergency planning and disaster management, ○ Case studies
Pre-requisites	none
Semester	Year V, Semester II
Status of Course	Compulsory
Teaching & Learning Methods	Lectures, tutorial
Assessment/Evaluation	Continuous Assessment.....50% <ul style="list-style-type: none"> • Assignments.....15% • Quizzes.....15% • Tests.....20% Final exam.....50%
Course Policy	<p>Attendance: As per harmonized academic policy</p> <p>Assessments: students are supposed to handle all assessments on time.</p> <p>Cheating/plagiarism: it is strictly forbidden and any misconduct is accountable per the students' code of conduct.</p>

	Also, please do not chew gum, eat, listen to recorders or CD players, wear sunglasses, or talk about personal problems. Please be sure to turn off pagers and cell phones before class and exam sessions
Literature	Reference <ul style="list-style-type: none"> ○ Gael D Ulrich: A Guide to Chemical Engineering Process Design and Economics (Wiley) ○ Perry & Green: Perry's Chemical Engineers Handbook, Seventh Edition, (McGraw-Hill) ○ Sinnott: Chemical Engineering, Vol 6, Design (2nd Edition)(Pergamon)
Approval section	Module team