A STATE OF TECHNOLOGY		A THE WAY THE	National Institute of Technology Meghalaya An Institute of National Importance													CURRICULUM		
Pı	ogramı	me	Bachelor of Technology in Mechanical Engineering								Year of Regulation				2018			
Departme		ent	nt Mechanical Engineering											mester			Ш	
Course					Con	ırse Name				Credit Structure					Marks Distribution			
Code										L	T	P	С	INT	MID	END	Total	
ME 291					SAFETY I					2	0	0	2	50	50	100	200	
			_		ic concepts and thei		-	sophy of	safety,		CO1	Students will be able to outline of safety, accidents in industry and the preventive measures.						
Course	se	To explain the implication of safety engineering in industries, associated hazards, risk involved and the mitigation methods and to understand different types of machine guarding, manual and mechanical material handling.						ods and		CO2	Students will understand the necessity of safety engineering in by way of identifying the hazards, assessing the risk involved and the mitigation measures like machine guarding and safe material handling techniques etc to ensure safety at work.							
Object	etives	To explain the use of hand tools & portable power tools and to understand the electrical safety, fires, explosions and toxic releases in the industry.									CO3	Students will be able to Illustrate different safety tools to deal with electrical safety, fires, explosion and toxic release in industries.						
		-			y in const			and to und	lerstand		CO4	Students will be able to describe the personal protective equipments and safety measures in construction sites.						
		-	explain the process of First Aid for the workers and safety nagement in the industries.								CO5	Students will be able to Illustrate the First Aid process.						
No.	COs						<u> </u>			comes (POs)			Т	1		ping with		
		PC		PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
1	CO1	3		0	0	0	0	3	0	0	0	0	0	2	0	0	0	
2	CO2		_	0	0	0	0	3	0	0	0	0	0	2	0	0	0	
3	CO3	_		0	0	0	0	3	0	0 0	0	0	0	2 2	0	0	0 0	
5	CO5			0	0	0	0	3	0	0	0	0	0	2	0	0	0	
				<u> </u>	U	U	l v		SYLLA		<u> </u>	0			<u> </u>	U		
No.								Content							Hours		COs	
I	Conce	ncept of safety, Philosophy of safety, safety terminology, behaviour based safety, Accident - cause and prevention. 4 CO1													CO1			
II	-	_	_	•	•	- 1		-		hine guardin g, hand tools	· 11			guards,	5		CO2	
III			-	-	sures for sures there		ork, fires	and explos	sion, cla	ssification fi	res and f	ire exting	uishers, to	xic gas	5	5 CO3		
IV	-				•	-		_		ks, underwat E, statutory p					5 CO4		CO4	
V	Need of First Aid, Electrical injuries, artificial respiration, poisoning, first aid and antidotes, Industrial safety management Safety Audit, Job safety analysis, Safety motivation.													gement,	5 CO		CO5	
							Total	Hours							24			
		eadings																
1. Dr	K .U. I	Mıstry,	Fund	lamentals	s of indust	rıal safety	and healt	th, Siddhar	rth Praka	ashan, 1st edit	tion,2008	3.						

Supplementary Readings

Charles D. Reese, Industrial Safety and Health for People-Oriented Services, CRC Press,
 C. Ray Asfahl, David W. Rieske, Industrial Safety and Health Management, Pearson,