Pro	AND THE OF TECHNOLOGY		National Institute of Technology Meghalaya  An Institute of National Importance													CURRICULUM	
	gramm	ne	<b>Bachelor of Technology in Mechanical Engineering</b>							Year of Regulati			egulation	n 2019-20			
Departmer		nt	Mechanical Engineering Semester											ester	V		
Course					Cou	ırse Name					tructure	acture			Marks Distribution		
Code											T	P	С	INT	MID	END	Total
ME 2		SAFETY ENGINEERING									0	0	2	50	50	100	200
		To explain the basic concept of safety, Philosophy of safety, accidents in industries and their prevention.									CO1	Students will be able to outline of safety, accidents in					
												industry and the preventive measures.					
		-		_		of safety	•	•				Students will understand the necessity of safety					
				,		ved and the	0					engineering in by way of identifying the hazards					hazards,
Course Objectives		to understand different types of machine guarding, manual and mechanical material handling.									CO2	assessing the risk involved and the mitigation measure					measures
												like machine guarding and safe material handling					ng
										Course Outcomes		techniques etc to ensure safety at work.					
		То ехр	lain the	use o	of hand to	ools & po	ortable po	wer tools	and to			Students	will be a	ble to Illu	ıstrate diff	ferent safe	ty tools to
		-				, fires, ex	-				CO3	deal with electrical safety			, fires, explosion and toxic		
		in the in	ndustry.								COS	release in industries.					
		To over	lain tha	aafatz	, in const	mustism in	dustiiss	nd to und	lamatan d						scribe the	personal	protective
		To explain the safety in construction industries and to understand the use of personal protective equipments.									CO4						
		To explain the process of First Aid for the workers and safety										equipme	ents and sa	arety mea	sures in co	onstruction	sites.
		_		-		rst Aid fo	or the wo	rkers and	l safety		CO5	Students will be able to Illustrate the First Aid process.				process.	
	management in the industries.  Mapping with Program Outo								ram Outo	comes (POs)  Mapping with PSOs						PSOs	
No.	COs	РО	1 PC	O2	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	3	(	0	0	0	0	3	0	0	0	0	0	2	0	0	0
3	CO3	3	(	0	0	0	0	3	0	0	0	0	0	2	0	0	0
4	CO4	3		0	0	0	0	3	0	0	0	0	0	2	0	0	0
5	CO5	3		0	0	0	0	3	0	0	0	0	0	2	0	0	0
NT-								C = v=4 = v=4	SYLLA	BUS					T.T		- C
No.	Concor	at of sof	Coty Dhil	oconh	vy of sofot	v sofotv t		Content	our boso	d sofatry A o	oidont o	ouse and r	marrantiar		Hours	rs Cos CO1	
		cept of safety, Philosophy of safety, safety terminology, behaviour based safety, Accident - cause and prevention.  3 CO1  ty engineering in industry, statutory provisions, Principles of Machine guarding, types and selection of guards,													COI		
	•	_	_		•	• •		-		, hand tools			•	guarus,	4		CO2
		trical safety, safety measures for electric work, fires and explosion, classification fires and fire extinguishers, toxic gas as and preventive measures thereof.														CO3	
1 1/	-	ety in construction industry, underground works, above ground works, underwater works, movement of men and terials, Personal protective equipment, selection and classification of PPE, statutory provisions to ensure safety at work.														CO4	
1/						artificial r ety motiva	tion.		ng, first a	id and antid	otes, Ind	ustrial safe	ety manag	gement,	5		
							Total	Hours							20		
Essent			Fundam	ontolo	of indust	rial aafata	and healt	h Cidales	oth Duals-	ahan 1st adi	tion 2000	)					
				cmais	oi mausti	nai sarety	and nearth	u, sidanar	ui Praka	shan, 1 <sup>st</sup> edi	uon,2008	<b>).</b>					
		ary Rea Reese.		al Saf	ety and H	ealth for F	People-Ori	ented Ser	vices. CI	RC Press							
						al Safety a											