



Republic of the Philippines
MINDANAO UNIVERSITY OF SCIENCE AND TECHNOLOGY
 Lapanan, Cagayan De Oro City

COLLEGE OF TECHNOLOGY
B.S. in Electro-Mechanical Technology
BS IN ELECTRO-MECHANICAL TECHNOLOGY

SUBJECT CODE	DESCRIPTIVE TITLE	HOUR		U	N	I	T	PRE-REQUISITE	CO-REQUISITE
		LAB	LEC						
1ST YEAR - 1ST SEMESTER									
MATH13a	College Algebra	0.0	5.0	0.0	5.0	5.0			
CHEM10a	General Chemistry 1	3.0	3.0	1.0	3.0	4.0			
ENGL11	Study and Thinking Skills	0.0	3.0	0.0	3.0	3.0			
SS10a	New Constitution	0.0	3.0	0.0	3.0	3.0			
HUM11b	Logic & Ethics	0.0	3.0	0.0	3.0	3.0			
DRWG10a	Fundamentals of Drawing	3.0	1.0	1.0	1.0	2.0			
PD10	Essence of Personality	0.0	1.0	0.0	1.0	1.0			
NSTP10	ROTC/CWTS/LTS 1	0.0	3.0	0.0	3.0	3.0			
		<u>6.0</u>	<u>22.0</u>	<u>2.0</u>	<u>22.0</u>	<u>24.0</u>			
1ST YEAR - 2ND SEMESTER									
MATH17	Plane Trigonometry	0.0	3.0	0.0	3.0	3.0		MATH13a	
MATH20	Elementary Statistics	0.0	3.0	0.0	3.0	3.0		MATH13a	
CHEM11a	General Chemistry 2	3.0	3.0	1.0	3.0	4.0		CHEM10a	
ENGL20	Writing Across Disciplines	0.0	3.0	0.0	3.0	3.0		ENGL11	
SS20a	Rizal's Life, Works & Writings	0.0	3.0	0.0	3.0	3.0			
DRWG12	Elementary Project Design	3.0	1.0	1.0	1.0	2.0		DRWG10a	
PD20	Social Graces & Social Relations	0.0	1.0	0.0	1.0	1.0		PD10	
NSTP20	ROTC/CWTS/LTS 2	0.0	3.0	0.0	3.0	3.0		NSTP10	
		<u>6.0</u>	<u>20.0</u>	<u>2.0</u>	<u>20.0</u>	<u>22.0</u>			
2ND YEAR - 1ST SEMESTER									
MATH32b	Differential Calculus w/ Analytic Geometry	0.0	5.0	0.0	5.0	5.0		MATH17	
PHYS10a	General Physics 1 - Mechanics and Heat	3.0	3.0	1.0	3.0	4.0		MATH17	
ENGL30	Speech & Oral Communication	0.0	3.0	0.0	3.0	3.0		ENGL20	
SS30	General Economics, Taxation & Agrarian Reform	0.0	3.0	0.0	3.0	3.0			
PSYC20	Applied Psychology	0.0	3.0	0.0	3.0	3.0			
EMT21	Mechanical Workshop Practice 1	3.0	2.0	1.0	2.0	3.0		MATH13a	
		<u>6.0</u>	<u>19.0</u>	<u>2.0</u>	<u>19.0</u>	<u>21.0</u>			
2ND YEAR - 2ND SEMESTER									
MDF16	Machine Shop Practice	3.0	2.0	1.0	2.0	3.0		EMT21	
ICT20	Introduction to Computer Systems 1 w/ Computer Programming	3.0	3.0	1.0	3.0	4.0		MATH17	
MATH34a	Integral Calculus	0.0	5.0	0.0	5.0	5.0		MATH32b	
PHYS11a	General Physics 2 - Electricity and Magnetism	3.0	3.0	1.0	3.0	4.0		PHYS10a	
ENGL40	Technical Writing & Reporting	0.0	3.0	0.0	3.0	3.0		ENGL30	
CADD10b	Basic CADD	3.0	1.0	1.0	1.0	2.0		DRWG12	
AMT 24	Applied Mechanics	0.0	3.0	0.0	3.0	3.0		PHYS10a	
		<u>12.0</u>	<u>20.0</u>	<u>4.0</u>	<u>20.0</u>	<u>24.0</u>			
3RD YEAR - 1ST SEMESTER									
MDF25	Applied Thermodynamics	0.0	3.0	0.0	3.0	3.0		PHYS10a	
MATH38	Differential Equations	0.0	3.0	0.0	3.0	3.0		MATH34a	
EMT32	Machine Elements	3.0	2.0	1.0	2.0	3.0		MDF16	
EMT33	CAD/CAM	3.0	2.0	1.0	2.0	3.0		MDF16, CADD10b	
ECT10	Basic Electronics 1	3.0	2.0	1.0	2.0	3.0		PHYS11a	
ECT11	Basic Electronics 2	3.0	2.0	1.0	2.0	3.0		MATH34a, PHYS11a	
ECT21	Digital Electronics 1	3.0	2.0	1.0	2.0	3.0		PHYS11a	
INDTECH10	Industrial Economics	0.0	3.0	0.0	3.0	3.0		MATH13a	
		<u>15.0</u>	<u>19.0</u>	<u>5.0</u>	<u>19.0</u>	<u>24.0</u>			

SUBJECT CODE	DESCRIPTIVE TITLE	H O U R		U N I T		PRE-REQUISITE	CO-REQUISITE
		LAB	LEC	LAB	LEC		
<u>3RD YEAR - 2ND SEMESTER</u>							
EMT34	Applied Fluid Mechanics	0.0	3.0	0.0	3.0	3.0	MDF25
EMT31	Electro-Pneumatics w/ PLC Programming	3.0	2.0	1.0	2.0	3.0	AMT 24, ECT10, ECT11, ECT21
ECT20	Electronics Devices 1	3.0	2.0	1.0	2.0	3.0	ECT10, ECT11
ETM 22	Industrial Control	3.0	3.0	1.0	3.0	4.0	ECT10, ECT11
ICT45	Computer Organization & Architecture	3.0	3.0	1.0	3.0	4.0	ECT10, ECT11, ECT21
INDTECH60	Methods of Research	0.0	3.0	0.0	3.0	3.0	ENGL40
ENVI10	Environmental Science	0.0	3.0	0.0	3.0	3.0	
		<u>12.0</u>	<u>19.0</u>	<u>4.0</u>	<u>19.0</u>	<u>23.0</u>	
<u>3RD YEAR - SUMMER</u>							
EMT32a	Industry -Based Training	0.0	0.0	0.0	6.0	6.0	
		<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>6.0</u>	<u>6.0</u>	
<u>4TH YEAR - 1ST SEMESTER</u>							
EMT40	Electro-Hydraulics with PLC Programming	3.0	2.0	1.0	2.0	3.0	EMT34, EMT31
EMT41	Introduction to Mechatronics	3.0	2.0	1.0	2.0	3.0	EMT31
EMT42	Process Control Instrumentation	3.0	2.0	1.0	2.0	3.0	MATH38, EMT31, ETM 22
EMT43	Research & Project Development 1	0.0	3.0	0.0	3.0	3.0	EMT31, INDTECH60
ICT50	Computer Interfacing & Programming	3.0	3.0	1.0	3.0	4.0	EMT31, ETM 22, ICT45
INDTECH31	Project Management & Intrepreneurship	0.0	3.0	0.0	3.0	3.0	
ENGL54	Culture, Arts & Literature	0.0	3.0	0.0	3.0	3.0	ENGL40
		<u>12.0</u>	<u>18.0</u>	<u>4.0</u>	<u>18.0</u>	<u>22.0</u>	
<u>4TH YEAR - 2ND SEMESTER</u>							
EMT44	Automatic Control Systems	0.0	3.0	0.0	3.0	3.0	MATH38, EMT42
EMT45	Research & Project Development 2	0.0	3.0	0.0	3.0	3.0	EMT43
EMT46	Mechatronics Applications	3.0	2.0	1.0	2.0	3.0	EMT41
EMT47	Field Trips & Seminars	0.0	3.0	0.0	1.0	1.0	
INDTECH40	Industrial Management and Operations	0.0	3.0	0.0	3.0	3.0	
INDTECH51	Quality Assurance	0.0	3.0	0.0	3.0	3.0	MATH20, INDTECH31
ICT35	Computer Networks	3.0	3.0	1.0	3.0	4.0	ICT45
		<u>6.0</u>	<u>20.0</u>	<u>2.0</u>	<u>18.0</u>	<u>20.0</u>	