



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

**COLLEGE OF TECHNOLOGY**  
**B.S. in Electrical Technology & Management**  
**BSETM**

SUBJECT CODE	DESCRIPTIVE TITLE	H O U R		U N I T		PRE-REQUISITE	CO-REQUISITE
		LAB	LEC	LAB	LEC		
<b>1ST YEAR - 1ST SEMESTER</b>							
ETM 10	Basic Electricity	3.0	3.0	1.0	3.0	4.0	
ETM 11	Residential Wiring	3.0	3.0	1.0	3.0	4.0	
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	
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>12.0</u>	<u>22.0</u>	<u>4.0</u>	<u>22.0</u>	<u>26.0</u>	
<b>1ST YEAR - 2ND SEMESTER</b>							
ETM 12	Electronic Workshop	3.0	3.0	1.0	3.0	4.0	ETM 10
ETM 13	Commercial Wiring and Appliance Servicing	3.0	3.0	1.0	3.0	4.0	ETM 10, ETM 11
MATH17	Plane Trigonometry	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
DRWG11a	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>12.0</u>	<u>20.0</u>	<u>4.0</u>	<u>20.0</u>	<u>24.0</u>	
<b>2ND YEAR - 1ST SEMESTER</b>							
ETM 20	Electro-Mechanical Construction 1	3.0	3.0	1.0	3.0	4.0	ETM 12
ETM 21	Industrial Wiring	3.0	3.0	1.0	3.0	4.0	ETM 13
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
SS10a	New Constitution	0.0	3.0	0.0	3.0	3.0	
		<u>9.0</u>	<u>20.0</u>	<u>3.0</u>	<u>20.0</u>	<u>23.0</u>	
<b>2ND YEAR - 2ND SEMESTER</b>							
ETM 22	Industrial Control	3.0	3.0	1.0	3.0	4.0	ETM 20, ETM 21
ETM 23	Electric Circuits	3.0	3.0	1.0	3.0	4.0	ETM 12, 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	ENGL20
HUM11b	Logic & Ethics	0.0	3.0	0.0	3.0	3.0	
		<u>9.0</u>	<u>20.0</u>	<u>3.0</u>	<u>20.0</u>	<u>23.0</u>	
<b>2ND YEAR - SUMMER</b>							
ETM 24	On the Job Training 1	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>	

SUBJECT CODE	DESCRIPTIVE TITLE	H O U R		U N I T		PRE-REQUISITE	CO-REQUISITE
		LAB	LEC	LAB	LEC		
<b>3RD YEAR - 1ST SEMESTER</b>							
ETM 30	Electromechanical Construction 2	3.0	3.0	1.0	3.0	4.0	ETM 22
ETM 31	Electrical Machines and Drives Elements	3.0	3.0	1.0	3.0	4.0	ETM 22
PSYC20	Applied Psychology	0.0	3.0	0.0	3.0	3.0	
ENV110	Environmental Science	0.0	3.0	0.0	3.0	3.0	CHEM11a
SS20	Rizal's Life, Works & Writings	0.0	3.0	0.0	3.0	3.0	
CADD10b	Basic CADD	3.0	1.0	1.0	1.0	2.0	DRWG11a
ENGL54	Culture, Arts & Literature	0.0	3.0	0.0	3.0	3.0	
MATH37	Applied Mathematics	0.0	3.0	0.0	3.0	3.0	MATH34a
SS20a	Rizal's Life, Works & Writings	0.0	3.0	0.0	3.0	3.0	
		<u>9.0</u>	<u>25.0</u>	<u>3.0</u>	<u>25.0</u>	<u>28.0</u>	
<b>3RD YEAR - 2ND SEMESTER</b>							
ETM 32	Sensors & Actuators Technology	3.0	3.0	1.0	3.0	4.0	ETM 30, ETM 31
ETM 33	Introduction to Clean Room Technology	0.0	3.0	0.0	3.0	3.0	ETM 30
ETM 34	Philippine Electrical/Electronic Code	0.0	3.0	0.0	3.0	3.0	ETM 30, ETM 31
MATH20	Elementary Statistics	0.0	3.0	0.0	3.0	3.0	MATH13a
SS30	General Economics, Taxation & Agrarian Reform	0.0	3.0	0.0	3.0	3.0	
COMP15	Fundamentals of Programming	3.0	1.0	1.0	1.0	2.0	MATH13a
INDTECH30	Business Management and Entrepreneurship	0.0	3.0	0.0	3.0	3.0	MATH13a
INDTECH60	Methods of Research	0.0	3.0	0.0	3.0	3.0	ENGL40
		<u>6.0</u>	<u>22.0</u>	<u>2.0</u>	<u>22.0</u>	<u>24.0</u>	
<b>3RD YEAR - SUMMER</b>							
ETM 35	On the Job Training 2	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>	
<b>4TH YEAR - 1ST SEMESTER</b>							
ETM 40	Process & Factory Automation	3.0	2.0	1.0	2.0	3.0	ETM 32, ETM 33
ETM 41	Research Project 1	0.0	3.0	0.0	3.0	3.0	MATH20, INDTECH60
ETM 43	Seminars & Field Trips	3.0	0.0	1.0	0.0	1.0	ETM 32, ETM 33
ETM 44	Power Distribution & Protection	3.0	3.0	1.0	3.0	4.0	MATH32b, ETM 32, ETM 34
MDF10	Mechanical Workshop Practice 1	3.0	2.0	1.0	2.0	3.0	ETM 31
INDTECH10	Industrial Economics	0.0	3.0	0.0	3.0	3.0	MATH13a, SS30
INDTECH40	Industrial Management and Operations	0.0	3.0	0.0	3.0	3.0	INDTECH30
		<u>12.0</u>	<u>16.0</u>	<u>4.0</u>	<u>16.0</u>	<u>20.0</u>	
<b>4TH YEAR - 2ND SEMESTER</b>							
ETM 42	Research Project 2	0.0	3.0	0.0	3.0	3.0	ETM 41
ETM 45	Power System Analysis	3.0	2.0	1.0	2.0	3.0	ETM 44
ETM 46	Programmable Logic Controllers	3.0	2.0	1.0	2.0	3.0	ETM 40
ETM 47	Electrical Installation Design	3.0	2.0	1.0	2.0	3.0	ETM 44
INDTECH51	Quality Assurance	0.0	3.0	0.0	3.0	3.0	INDTECH40
		<u>9.0</u>	<u>12.0</u>	<u>3.0</u>	<u>12.0</u>	<u>15.0</u>	