



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

COLLEGE OF TECHNOLOGY

B.S. in Automotive Mechanical Technology
 major Mechanical Technology

SUBJECT CODE	DESCRIPTIVE TITLE	H O U R		U N I T		PRE-REQUISITE	CO-REQUISITE
		LAB	LEC	LAB	LEC		
1ST YEAR - 1ST SEMESTER							
MDF10	Mechanical Workshop Practice 1	3.0	2.0	1.0	2.0	3.0	
AMT11	Basic Electronics	0.0	0.0	1.0	3.0	4.0	
AMT 12	Car Suspension & Power Train	3.0	2.0	1.0	2.0	3.0	
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>20.0</u>	<u>5.0</u>	<u>23.0</u>	<u>28.0</u>	
1ST YEAR - 2ND SEMESTER							
AMT 14	Machine Shop Technology 1	3.0	2.0	1.0	2.0	3.0	MDF10
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
PHYS10a	General Physics 1 - Mechanics and Heat	3.0	3.0	1.0	3.0	4.0	MATH13a
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
AMT13	Mechanical Workshop Practice 2	3.0	2.0	1.0	2.0	3.0	MDF10
		<u>15.0</u>	<u>21.0</u>	<u>5.0</u>	<u>21.0</u>	<u>26.0</u>	
2ND YEAR - 1ST SEMESTER							
MDF21	Industrial Materials & Testing	3.0	2.0	1.0	2.0	3.0	CHEM11a
AMT 21	Industrial Controls	3.0	2.0	1.0	2.0	3.0	AMT11
AMT 22	Mechanical Maintenance & Safety Practices	3.0	2.0	1.0	2.0	3.0	AMT 14
AMT 23	Internal Combustion Engine (Gasoline)	3.0	2.0	1.0	2.0	3.0	AMT 12
MATH32b	Differential Calculus w/ Analytic Geometry	0.0	5.0	0.0	5.0	5.0	MATH17
PHYS11a	General Physics 2 - Electricity and Magnetism	3.0	3.0	1.0	3.0	4.0	PHYS10a
ENGL30	Speech & Oral Communication	0.0	3.0	0.0	3.0	3.0	ENGL20
		<u>15.0</u>	<u>19.0</u>	<u>5.0</u>	<u>19.0</u>	<u>24.0</u>	
2ND YEAR - 2ND SEMESTER							
AMT 24	Applied Mechanics	0.0	3.0	0.0	3.0	3.0	PHYS10a
MDF25	Applied Thermodynamics	0.0	3.0	0.0	3.0	3.0	PHYS10a, MATH32b
AMT 26	Electroneumatics & Hydraulics	3.0	3.0	1.0	3.0	4.0	AMT 21
AMT27	Digital Electronics	3.0	2.0	1.0	2.0	3.0	AMT11
MATH34a	Integral Calculus	0.0	5.0	0.0	5.0	5.0	MATH32b
ENGL40	Technical Writing & Reporting	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	
SS20a	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
AMT26	Electroneumatics & Hydraulics	0.0	0.0	1.0	3.0	4.0	
		<u>9.0</u>	<u>26.0</u>	<u>4.0</u>	<u>29.0</u>	<u>33.0</u>	
2ND YEAR - SUMMER							
AMT29	On the Job Training 1	0.0	6.0	0.0	6.0	6.0	
		<u>0.0</u>	<u>6.0</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		
<u>3RD YEAR - 1ST SEMESTER</u>							
AMT 30	Internal Combustion Engine (Diesel)	6.0	2.0	2.0	2.0	4.0	AMT 23
AMT 31	Basic Machine Elements	3.0	2.0	1.0	2.0	3.0	AMT 24
AMT 32	Programmable Logic Controller	3.0	3.0	1.0	3.0	4.0	AMT 26
AMT 33	Advanced Welding	3.0	2.0	1.0	2.0	3.0	AMT13
MATH20	Elementary Statistics	0.0	3.0	0.0	3.0	3.0	
INDTECH10	Industrial Economics	0.0	3.0	0.0	3.0	3.0	MATH13a, SS30
HUM11b	Logic & Ethics	0.0	3.0	0.0	3.0	3.0	
SS10a	New Constitution	0.0	3.0	0.0	3.0	3.0	
PSYC20	Applied Psychology	0.0	3.0	0.0	3.0	3.0	
		<u>15.0</u>	<u>24.0</u>	<u>5.0</u>	<u>24.0</u>	<u>29.0</u>	
<u>3RD YEAR - 2ND SEMESTER</u>							
MDF13	Machine Shop Technology 2	6.0	2.0	2.0	2.0	4.0	AMT 14
MDF23	Foundry Technology 1	6.0	2.0	2.0	2.0	4.0	DRWG11a, MDF21
MDF37	Machine Design Technology 1	3.0	2.0	1.0	2.0	3.0	MDF21, AMT 22, AMT 31
MDF33	Applied Fluid Mechanics	0.0	3.0	0.0	3.0	3.0	MATH34a
INDTECH61	Technical Research	0.0	3.0	0.0	3.0	3.0	ENGL40, MATH20
ENVI10	Environmental Science	0.0	3.0	0.0	3.0	3.0	CHEM11a
ENGL54	Culture, Arts & Literature	0.0	3.0	0.0	3.0	3.0	
		<u>15.0</u>	<u>18.0</u>	<u>5.0</u>	<u>18.0</u>	<u>23.0</u>	
<u>3RD YEAR - SUMMER</u>							
MDF43	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>	
<u>4TH YEAR - 1ST SEMESTER</u>							
MDF31	Foundry Technology 2	6.0	2.0	2.0	2.0	4.0	AMT 23
MDF39	Tool Technology	6.0	3.0	2.0	3.0	5.0	MDF13
MDF40A	Machine Design Technology 2	3.0	2.0	1.0	2.0	3.0	MDF37
MDF46	Research Project Design 1	0.0	3.0	0.0	3.0	3.0	MDF13, MDF37, INDTECH61
COMP19	Basic Computer Programming	3.0	3.0	1.0	3.0	4.0	AMT 32
INDTECH32	Management and0 Entrepreneurship	0.0	3.0	0.0	3.0	3.0	INDTECH10
		<u>18.0</u>	<u>16.0</u>	<u>6.0</u>	<u>16.0</u>	<u>22.0</u>	
<u>4TH YEAR - 2ND SEMESTER</u>							
MDF50	Research Project Design 2	0.0	3.0	0.0	3.0	3.0	MDF46
MDF53	Field Trips & Seminars	0.0	1.0	0.0	1.0	1.0	MDF13, MDF31
MDF35	CAD/CAM	6.0	3.0	2.0	3.0	5.0	CADD10b, MDF13
MDF42	Statistical Process Control	3.0	2.0	1.0	2.0	3.0	MATH20, MDF13
INDTECH40	Industrial Management and Operations	0.0	3.0	0.0	3.0	3.0	INDTECH32
TE9	Technical Elective	0.0	3.0	0.0	3.0	3.0	
		<u>9.0</u>	<u>15.0</u>	<u>3.0</u>	<u>15.0</u>	<u>18.0</u>	