



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 Automotive Technology

SUBJECT CODE	DESCRIPTIVE TITLE	H O U R		U N I T		PRE-REQUISITE	CO-REQUISITE	
		LAB	LEC	LAB	LEC			CREDIT
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								
AMT13	Mechanical Workshop Practice 2	3.0	2.0	1.0	2.0	3.0	MDF10	
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	MATH17
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>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	
		<u>9.0</u>	<u>26.0</u>	<u>3.0</u>	<u>26.0</u>	<u>29.0</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>							
Auto 34	Automotive Electrical System 1	3.0	2.0	1.0	2.0	3.0	AMT 23
Auto 35	Tune-up, Fuel System & Emission	3.0	2.0	1.0	2.0	3.0	AMT 30
Auto 36	Automotive Testing Equipment	3.0	2.0	1.0	2.0	3.0	AMT11
ENV110	Environmental Science	0.0	3.0	0.0	3.0	3.0	CHEM11a
INDTECH61	Technical Research	0.0	3.0	0.0	3.0	3.0	
ENGL54	Culture, Arts & Literature	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>	
<u>3RD YEAR - SUMMER</u>							
OJT 20	On the Job Training	0.0	0.0	0.0	6.0	6.0	
AUTO39	On the Job Training 2	0.0	6.0	0.0	6.0	6.0	
		<u>0.0</u>	<u>6.0</u>	<u>0.0</u>	<u>12.0</u>	<u>12.0</u>	
<u>4TH YEAR - 1ST SEMESTER</u>							
Auto 40	Research Project Design 1	0.0	3.0	0.0	3.0	3.0	INDTECH61
Auto 41	Automotive Collision (Auto Finishing)	3.0	2.0	1.0	2.0	3.0	AMT 12
Auto 42	Automotive Electrical System 2	3.0	2.0	1.0	2.0	3.0	Auto 34
Auto 43	Electronic Injection System Services/Testing	3.0	2.0	1.0	2.0	3.0	Auto 34
INDTECH70	Management of Small Business	0.0	3.0	0.0	3.0	3.0	SS30
		<u>9.0</u>	<u>12.0</u>	<u>3.0</u>	<u>12.0</u>	<u>15.0</u>	
<u>4TH YEAR - 2ND SEMESTER</u>							
Auto 44	Research Project Design 2	0.0	3.0	0.0	3.0	3.0	Auto 40
Auto 45	Field Trips & Seminars	0.0	1.0	0.0	1.0	1.0	Auto 41, Auto 42, Auto 43
Auto 46	Heating & Airconditioning	3.0	2.0	1.0	2.0	3.0	Auto 42
Auto 47	Engine Performance & Computer Systems	3.0	2.0	1.0	2.0	3.0	Auto 43
Auto 48	Manual & Automatic Transmission	3.0	2.0	1.0	2.0	3.0	AMT 30
INDTECH71	Production Management & Industrial Control	0.0	3.0	0.0	3.0	3.0	INDTECH70
		<u>9.0</u>	<u>13.0</u>	<u>3.0</u>	<u>13.0</u>	<u>16.0</u>	