



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

**COLLEGE OF ENGINEERING & ARCHITECTURE**

**B.S. in Mechanical Engineering  
 BSME SY 2008-2009**

SUBJECT CODE	DESCRIPTIVE TITLE	H O U R		U N I T			PRE-REQUISITE	CO-REQUISITE
		LAB	LEC	LAB	LEC	CREDIT		
<b>1ST YEAR - 1ST SEMESTER</b>								
ME5	Orientation to ME	0.0	1.0	0.0	1.0	1.0		
MATH13	College Algebra	0.0	3.0	0.0	3.0	3.0		
MATH17a	Plane & Spherical Trigonometry	0.0	3.0	0.0	3.0	3.0		
CHEM10a	General Chemistry 1	3.0	3.0	1.0	3.0	4.0		
ENGL11	Study & 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		
SS20a	Rizal's Life, Works & Writings	0.0	3.0	0.0	3.0	3.0		
DRWG20	Engineering Drawing 1	3.0	0.0	1.0	0.0	1.0		
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>23.0</u>	<u>2.0</u>	<u>23.0</u>	<u>25.0</u>		
<b>1ST YEAR - 2ND SEMESTER</b>								
ME10	Workshop Theory 1-A	6.0	1.0	2.0	1.0	3.0	DRWG20	
MATH14	Advanced Algebra	0.0	2.0	0.0	2.0	2.0	MATH13	
MATH19	Solid Mensuration	0.0	2.0	0.0	2.0	2.0	MATH13, MATH17a	
MATH30	Analytic Geometry	0.0	2.0	0.0	2.0	2.0	MATH13, MATH17a	
PHYS10a	General Physics 1	3.0	3.0	1.0	3.0	4.0	MATH13, MATH17a	
ENGL20	Writing Across Disciplines	0.0	3.0	0.0	3.0	3.0	ENGL11	
CADD10	Basic CADD	3.0	0.0	1.0	0.0	1.0	DRWG20	
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>17.0</u>	<u>4.0</u>	<u>17.0</u>	<u>21.0</u>		
<b>1ST YEAR - SUMMER</b>								
ME11	Workshop Theory 1-B	6.0	0.0	2.0	0.0	2.0	ME10	
		<u>6.0</u>	<u>0.0</u>	<u>2.0</u>	<u>-</u>	<u>2.0</u>		
<b>2ND YEAR - 1ST SEMESTER</b>								
ME12	Workshop Theory & Practice 2-A	6.0	1.0	2.0	1.0	3.0	ME11	
COE13a	Computer Fundamentals & Programming	3.0	2.0	1.0	2.0	3.0	MATH13	
MATH32	Differential Calculus	0.0	5.0	0.0	5.0	5.0	MATH14, MATH19, MATH30	
ENGL30	Speech & Oral Communication	0.0	3.0	0.0	3.0	3.0		
PSYC20	Applied Psychology	0.0	3.0	0.0	3.0	3.0		
PHYS11a	General Physics 2	3.0	3.0	1.0	3.0	4.0	PHYS10a	
HUM11b	Logic & Ethics	0.0	3.0	0.0	3.0	3.0		
		<u>12.0</u>	<u>20.0</u>	<u>4.0</u>	<u>20.0</u>	<u>24.0</u>		
<b>2ND YEAR - 2ND SEMESTER</b>								
MATH34a	Integral Calculus	0.0	5.0	0.0	5.0	5.0	MATH32	
ES10b	Statics of Rigid Bodies	0.0	3.0	0.0	3.0	3.0	PHYS10a, MATH34a	
ES20b	Materials Engineering	3.0	3.0	1.0	3.0	4.0	CHEM10a	
ES30	Environmental Engineering	0.0	2.0	0.0	2.0	2.0	CHEM10a	
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		
ME 13a	Workshop Theory & Practice 2-B	6.0	0.0	2.0	0.0	2.0	ME12	
		<u>9.0</u>	<u>19.0</u>	<u>3.0</u>	<u>19.0</u>	<u>22.0</u>		

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<b>3RD YEAR - 1ST SEMESTER</b>								
ME20	Machine Elements 1	3.0	2.0	1.0	2.0	3.0	DRWG20, MATH34a	
ME25	Thermodynamics 1	0.0	3.0	0.0	3.0	3.0	PHYS10a, MATH34a	
EE14	Basic Electrical Engineering	3.0	2.0	1.0	2.0	3.0	PHYS11a	
ES11	Dynamics of Rigid Bodies	0.0	2.0	0.0	2.0	2.0	ES10b	
ES12	Strength of Materials	0.0	3.0	0.0	3.0	3.0	ES10b	
ENGL54	Culture, Arts & Literature	0.0	3.0	0.0	3.0	3.0		
MATH36	Probability & Statistics	0.0	3.0	0.0	3.0	3.0	MATH34a	
MATH38	Differential Equations	0.0	3.0	0.0	3.0	3.0	MATH34a	
		6.0	21.0	2.0	21.0	23.0		
<b>3RD YEAR - 2ND SEMESTER</b>								
ME11b	Machine Shop Theory	6.0	0.0	2.0	0.0	2.0	ME 13a	
ME21	Machine Elements 2	3.0	2.0	1.0	2.0	3.0	ME20	
ME26	Thermodynamics 2	0.0	3.0	0.0	3.0	3.0	ME25	
ME45a	Fluid Mechanics	3.0	3.0	1.0	3.0	4.0	ME25, ES12	
ECE15a	Basic Electronics	3.0	2.0	1.0	2.0	3.0	EE14	
ES13	Mechanics of Deformable Bodies	0.0	3.0	0.0	3.0	3.0	ES11, ES12	
MATH60	Advanced Engineering Mathematics	0.0	3.0	0.0	3.0	3.0	MATH38	
		15.0	16.0	5.0	16.0	21.0		
<b>4TH YEAR - 1ST SEMESTER</b>								
ME30	ME Laboratory 1	6.0	0.0	2.0	0.0	2.0	ME26	
ME35	Internal Combustion Engine	0.0	3.0	0.0	3.0	3.0	ME26	
ME40	Heat Transfer	0.0	3.0	0.0	3.0	3.0	ME26, MATH60	
ME65	Machine Design 1	3.0	3.0	1.0	3.0	4.0	ME21, ES13	
EE16	AC/DC Machinery	3.0	3.0	1.0	3.0	4.0	EE14	
ES50	Safety Management	0.0	1.0	0.0	1.0	1.0		
TE10	Technical Elective 1	0.0	3.0	0.0	3.0	3.0		
MATH41	Numerical Methods & Analysis	0.0	2.0	0.0	2.0	2.0	COE13a, MATH60	
		12.0	18.0	4.0	18.0	22.0		
<b>4TH YEAR - 2ND SEMESTER</b>								
ME31	ME Laboratory 2	6.0	0.0	2.0	0.0	2.0	ME30	
ME37	Combustion Engineering	0.0	2.0	0.0	2.0	2.0	ME35, ME40	
ME46	Fluid Machinery	0.0	3.0	0.0	3.0	3.0	ME45a	
ME55	Refrigeration Systems	3.0	3.0	1.0	3.0	4.0	ME40	
ME66	Machine Design 2	3.0	3.0	1.0	3.0	4.0	ME65	
ES40	Engineering Economy	0.0	3.0	0.0	3.0	3.0		
ES60	Engineering Research Methods	0.0	3.0	0.0	3.0	3.0	ENGL40, MATH36	
TE20	Technical Elective 2	0.0	3.0	0.0	3.0	3.0		
		12.0	20.0	4.0	20.0	24.0		
<b>4TH YEAR - SUMMER</b>								
OJT10	On the Job Training	240.C	0.0	0.0	4.0	4.0		
		240.C	0.0	0.0	4.0	4.0		
<b>5TH YEAR - 1ST SEMESTER</b>								
ME50a	Industrial Processes & Plant Inspection	3.0	1.0	1.0	1.0	2.0		
ME56	Air Conditioning & Ventilation Systems	3.0	2.0	1.0	2.0	3.0	ME55	
ME70a	Safety Engineering for ME	0.0	2.0	0.0	2.0	2.0		
ME72	Vibration Engineering	0.0	2.0	0.0	2.0	2.0	ES11, MATH38	
ME90	ME Project Study 1	6.0	0.0	2.0	0.0	2.0	ES60	
EE45	Instrumentation & Engineering Control	3.0	2.0	1.0	2.0	3.0	ECE15a	
ME32	ME Laboratory 3	6.0	0.0	2.0	0.0	2.0	ME31	
ME 85	ME Technical Elective 1	0.0	3.0	0.0	3.0	3.0		
		21.0	12.0	7.0	12.0	19.0		

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		LAB	LEC	LAB	LEC	CREDIT		
<b>5TH YEAR - 2ND SEMESTER</b>								
ME75a	ME Laws, Ethics, Codes & Standards	0.0	3.0	0.0	3.0	3.0		
ME80	Industrial Plant Engineering	3.0	2.0	1.0	2.0	3.0		
ME83a	Power Plant Engineering	3.0	4.0	1.0	4.0	5.0		
ME91	ME Project Study 2	6.0	0.0	2.0	0.0	2.0	ME90	
ES70	Engineering Management	0.0	3.0	0.0	3.0	3.0		
TE40	Technical Elective 4	0.0	3.0	0.0	3.0	3.0		
		12.0	15.0	4.0	15.0	19.0		