



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

COLLEGE OF ENGINEERING & ARCHITECTURE

B.S. in Mechanical Engineering
 Effective 2015-2016

SUBJECT CODE	DESCRIPTIVE TITLE	H O U R		U N I T		PRE-REQUISITE	CO-REQUISITE
		LAB	LEC	LAB	LEC		
1ST YEAR - 1ST SEMESTER							
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	
SS20	Rizal's Life, Works & Writings	0.0	3.0	0.0	3.0	3.0	
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	
ME5a	Introduction to Mechanical Engineering	3.0	0.0	1.0	0.0	1.0	
DRWG20	Engineering Drawing 1	3.0	0.0	1.0	0.0	1.0	
MATH17a	Plane & Spherical Trigonometry	0.0	3.0	0.0	3.0	3.0	
SS10a	New Constitution	0.0	3.0	0.0	3.0	3.0	
MATH13	College Algebra	0.0	3.0	0.0	3.0	3.0	
		<u>9.0</u>	<u>22.0</u>	<u>3.0</u>	<u>22.0</u>	<u>25.0</u>	
1ST YEAR - 2ND SEMESTER							
ENGL20	Writing Across Disciplines	0.0	3.0	0.0	3.0	3.0	ENGL11
PD20	Social Graces & Social Relations	0.0	1.0	0.0	1.0	1.0	PD10
CADD10	Basic CADD	3.0	0.0	1.0	0.0	1.0	DRWG20
ME10	Workshop Theory 1-A	6.0	1.0	2.0	1.0	3.0	DRWG20
NSTP20	ROTC/CWTS/LTS 2	0.0	3.0	0.0	3.0	3.0	NSTP10
MATH19	Solid Mensuration	0.0	2.0	0.0	2.0	2.0	MATH17a, MATH13
MATH14	Advanced Algebra	0.0	2.0	0.0	2.0	2.0	MATH13
MATH30	Analytic Geometry	0.0	2.0	0.0	2.0	2.0	MATH17a, MATH13
PHYS10a	General Physics 1 - Mechanics and Heat	3.0	3.0	1.0	3.0	4.0	MATH17a, MATH13
		<u>12.0</u>	<u>17.0</u>	<u>4.0</u>	<u>17.0</u>	<u>21.0</u>	
1ST YEAR - SUMMER							
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>	
2ND YEAR - 1ST SEMESTER							
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	MATH19, MATH30, MATH14
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	
PSYC20	Applied Psychology	0.0	3.0	0.0	3.0	3.0	
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>	
2ND YEAR - 2ND SEMESTER							
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
ES20b	Materials Engineering	3.0	3.0	1.0	3.0	4.0	CHEM10a
ENGL40	Technical Writing & Reporting	0.0	3.0	0.0	3.0	3.0	ENGL20, ENGL30
ES30	Environmental Engineering	0.0	2.0	0.0	2.0	2.0	CHEM10a
SS30	General Economics, Taxation & Agrarian Reform	0.0	3.0	0.0	3.0	3.0	
ME13a	Workshop Theory & Practice II-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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		LAB	LEC	LAB	LEC		
3RD YEAR - 1ST SEMESTER							
ME25	Thermodynamics 1	0.0	3.0	0.0	3.0	3.0	PHYS10a, MATH34a
ME20	Machine Elements 1	3.0	2.0	1.0	2.0	3.0	DRWG20, MATH34a
EE14	Basic Electrical Engineering	3.0	2.0	1.0	2.0	3.0	PHYS11a
ENGL54	Culture, Arts & Literature	0.0	3.0	0.0	3.0	3.0	
ES12	Strength of Materials	0.0	3.0	0.0	3.0	3.0	ES10b, ES20b
ES11	Dynamics of Rigid Bodies	0.0	2.0	0.0	2.0	2.0	ES10b
MATH38	Differential Equations	0.0	3.0	0.0	3.0	3.0	MATH34a
MATH36	Probability & Statistics	0.0	3.0	0.0	3.0	3.0	MATH34a
		<u>6.0</u>	<u>21.0</u>	<u>2.0</u>	<u>21.0</u>	<u>23.0</u>	
3RD YEAR - 2ND SEMESTER							
ME11b	Machine Shop Theory	6.0	0.0	2.0	0.0	2.0	ME13a
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	ES12, ES11
MATH60	Advanced Engineering Mathematics	0.0	3.0	0.0	3.0	3.0	MATH38
		<u>15.0</u>	<u>16.0</u>	<u>5.0</u>	<u>16.0</u>	<u>21.0</u>	
4TH YEAR - 1ST SEMESTER							
ME65	Machine Design 1	3.0	3.0	1.0	3.0	4.0	ME21, ES13
ME40	Heat Transfer	0.0	3.0	0.0	3.0	3.0	ME26, MATH60
ME35	Internal Combustion Engine	0.0	3.0	0.0	3.0	3.0	ME26
ME30	ME Laboratory 1	6.0	0.0	2.0	0.0	2.0	ME26
ES80	Technopreneurship	3.0	2.0	1.0	2.0	3.0	
EE16	AC/DC Machinery	3.0	3.0	1.0	3.0	4.0	EE14
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
		<u>15.0</u>	<u>19.0</u>	<u>5.0</u>	<u>19.0</u>	<u>24.0</u>	
4TH YEAR - 2ND SEMESTER							
ME66	Machine Design 2	3.0	3.0	1.0	3.0	4.0	ME65
ME46	Fluid Machinery	0.0	3.0	0.0	3.0	3.0	ME45a
ME31	ME Laboratory 2	6.0	0.0	2.0	0.0	2.0	ME30
ES60	Engineering Research Methods	0.0	3.0	0.0	3.0	3.0	ENGL40, MATH36
ME55	Refrigeration Systems	3.0	3.0	1.0	3.0	4.0	ME40
TE20	Technical Elective 2	0.0	3.0	0.0	3.0	3.0	
ME37	Combustion Engineering	0.0	2.0	0.0	2.0	2.0	ME40, ME35
ES40	Engineering Economy	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>	
4TH YEAR - SUMMER							
OJT10	On the Job Training	24.0	0.0	0.0	4.0	4.0	
		<u>24.0</u>	<u>0.0</u>	<u>0.0</u>	<u>4.0</u>	<u>4.0</u>	
5TH YEAR - 1ST SEMESTER							
ME90	ME Project Study 1	6.0	0.0	2.0	0.0	2.0	ES60
ME56a	Air Conditioning	3.0	2.0	1.0	2.0	3.0	ME55a
ME50a	Industrial Processes & Plant Inspection	3.0	1.0	1.0	1.0	2.0	
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
TE30	Technical Elective 3	0.0	3.0	0.0	3.0	3.0	
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
		<u>21.0</u>	<u>12.0</u>	<u>7.0</u>	<u>12.0</u>	<u>19.0</u>	

SUBJECT CODE	DESCRIPTIVE TITLE	H O U R		U N I T			PRE-REQUISITE	CO-REQUISITE
		LAB	LEC	LAB	LEC	CREDIT		
5TH YEAR - 2ND SEMESTER								
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		
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		
ME85	Power Plant Design	3.0	4.0	1.0	4.0	5.0		
ES50	Safety Management	0.0	1.0	0.0	1.0	1.0		
		<u>12.0</u>	<u>16.0</u>	<u>4.0</u>	<u>16.0</u>	<u>20.0</u>		