



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

COLLEGE OF ENGINEERING & ARCHITECTURE

B.S. in Electronics 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							
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 and 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>22.0</u>	<u>2.0</u>	<u>22.0</u>	<u>24.0</u>	
1ST YEAR - 2ND SEMESTER							
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
ENGL20	Writing Across Disciplines	0.0	3.0	0.0	3.0	3.0	ENGL11
ENGL54	Culture, Arts & Literature	0.0	3.0	0.0	3.0	3.0	
SS30	General Economics, Taxation & Agrarian Reform	0.0	3.0	0.0	3.0	3.0	
HUM11b	Logic & Ethics	0.0	3.0	0.0	3.0	3.0	
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>3.0</u>	<u>22.0</u>	<u>1.0</u>	<u>22.0</u>	<u>23.0</u>	
2ND YEAR - 1ST SEMESTER							
COE10	C Programming	3.0	2.0	1.0	2.0	3.0	MATH13, MATH17a
ES20	Engineering Materials	0.0	3.0	0.0	3.0	3.0	CHEM10a
ES30	Environmental Engineering	0.0	2.0	0.0	2.0	2.0	CHEM10a
MATH32	Differential Calculus	0.0	5.0	0.0	5.0	5.0	MATH14, MATH19, MATH30
PHYS10a	General Physics 1 - Mechanics and Heat	3.0	3.0	1.0	3.0	4.0	MATH13, MATH17a
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	
		<u>6.0</u>	<u>21.0</u>	<u>2.0</u>	<u>21.0</u>	<u>23.0</u>	
2ND YEAR - 2ND SEMESTER							
COE11	Object Oriented Programming	3.0	2.0	1.0	2.0	3.0	COE10
ES10b	Statics of Rigid Bodies	0.0	3.0	0.0	3.0	3.0	PHYS10a
MATH34a	Integral Calculus	0.0	5.0	0.0	5.0	5.0	MATH32
MATH61	Discrete Mathematics	0.0	3.0	0.0	3.0	3.0	MATH13
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
ECE10a	Introduction to Electronics Engineering	3.0	0.0	1.0	0.0	1.0	CHEM10a, PHYS10a
		<u>9.0</u>	<u>19.0</u>	<u>3.0</u>	<u>19.0</u>	<u>22.0</u>	

SUBJECT CODE	DESCRIPTIVE TITLE	HOUR		U N I T		PRE-REQUISITE	CO-REQUISITE
		LAB	LEC	LAB	LEC		
3RD YEAR - 1ST SEMESTER							
ECE20	Electronics 1	3.0	3.0	1.0	3.0	4.0	MATH34a, PHYS11a, ECE10a EE20, MATH38
EE20	Circuit Theory 1	3.0	3.0	1.0	3.0	4.0	MATH34a, PHYS11a MATH38
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
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
MATH42	Vector Analysis	0.0	3.0	0.0	3.0	3.0	MATH34a, PHYS11a
		<u>6.0</u>	<u>20.0</u>	<u>2.0</u>	<u>20.0</u>	<u>22.0</u>	
3RD YEAR - 2ND SEMESTER							
ECE21	Electronics 2	3.0	3.0	1.0	3.0	4.0	ECE20
ECE30	Logic Circuits & Switching Theory	3.0	3.0	1.0	3.0	4.0	ECE20, EE20 ECE21
EE21	Circuit Theory 2	3.0	3.0	1.0	3.0	4.0	EE20
EE30	Electromagnetics	0.0	3.0	0.0	3.0	3.0	MATH42
ME25	Thermodynamics 1	0.0	3.0	0.0	3.0	3.0	ES10b
MATH60	Advanced Engineering Mathematics	0.0	3.0	0.0	3.0	3.0	MATH38
MATH41	Numerical Methods & Analysis	0.0	2.0	0.0	2.0	2.0	COE10, MATH38
		<u>9.0</u>	<u>20.0</u>	<u>3.0</u>	<u>20.0</u>	<u>23.0</u>	
4TH YEAR - 1ST SEMESTER							
ECE22	Electronics 3	3.0	3.0	1.0	3.0	4.0	ECE21, EE30
ECE40a	Principles of Communications	3.0	3.0	1.0	3.0	4.0	ECE21, MATH60
ECE50	Signals, Spectra & Signal Processing	3.0	3.0	1.0	3.0	4.0	MATH36, MATH60
EE31	Energy Conversion	3.0	3.0	1.0	3.0	4.0	EE21, EE30
EE40a	Feedback & Control Systems	3.0	3.0	1.0	3.0	4.0	EE21, MATH60
TE10a	Technical Elective 1	3.0	3.0	1.0	3.0	4.0	ECE21, ECE30, EE21
ES40	Engineering Economy	0.0	3.0	0.0	3.0	3.0	
		<u>18.0</u>	<u>21.0</u>	<u>6.0</u>	<u>21.0</u>	<u>27.0</u>	
4TH YEAR - 2ND SEMESTER							
ECE35a	Industrial Electronics	3.0	3.0	1.0	3.0	4.0	ECE21, EE31
ECE41a	Digital Communications	3.0	3.0	1.0	3.0	4.0	ECE40a
ECE42	Transmission Media & Antenna Systems	3.0	3.0	1.0	3.0	4.0	EE30, ECE40a
COE40	Computer System Organization w/ Assembly Language	3.0	3.0	1.0	3.0	4.0	COE11
ES50	Safety Management	0.0	1.0	0.0	1.0	1.0	
TE20a	Technical Elective 2	3.0	3.0	1.0	3.0	4.0	TE10a
ES80	Technopreneurship	3.0	2.0	1.0	2.0	3.0	
		<u>18.0</u>	<u>18.0</u>	<u>6.0</u>	<u>18.0</u>	<u>24.0</u>	
4TH YEAR - SUMMER							
OJT10	On the Job Training	240.	0.0	0.0	4.0	4.0	
		<u>240.</u>	<u>0.0</u>	<u>0.0</u>	<u>4.0</u>	<u>4.0</u>	
5TH YEAR - 1ST SEMESTER							
ECE43	Wire & Wireless Communications	3.0	3.0	1.0	3.0	4.0	ECE41a, ECE42
ECE60	Field Trips & Seminars	3.0	0.0	1.0	0.0	1.0	
ECE90	Special Problems in ECE (Research 1)	6.0	1.0	2.0	1.0	3.0	ENGL40, ES80
COE64a	Microprocessor/Microcontrollers	3.0	3.0	1.0	3.0	4.0	ECE21, ECE30, COE40
TE30a	Technical Elective 3	3.0	3.0	1.0	3.0	4.0	TE20a
ES70	Engineering Management	0.0	3.0	0.0	3.0	3.0	
		<u>18.0</u>	<u>13.0</u>	<u>6.0</u>	<u>13.0</u>	<u>19.0</u>	
5TH YEAR - 2ND SEMESTER							
ECE44	Communication System Design	0.0	3.0	0.0	3.0	3.0	ECE43
ECE55	Data Communications	0.0	3.0	0.0	3.0	3.0	ECE41a
ECE70	ECE Laws, Contracts & Ethics	0.0	3.0	0.0	3.0	3.0	
ECE80	Broadcast Engineering & Acoustics	0.0	3.0	0.0	3.0	3.0	ECE42
ECE91	Special Problems in ECE (Research 2)	6.0	1.0	2.0	1.0	3.0	ECE90
TE40a	Technical Elective 4	3.0	3.0	1.0	3.0	4.0	TE30a
		<u>9.0</u>	<u>16.0</u>	<u>3.0</u>	<u>16.0</u>	<u>19.0</u>	