



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

COLLEGE OF ENGINEERING & ARCHITECTURE

B.S. in Electronics Engineering
BSECE SY 2008-2009

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								
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		
		6.0	22.0	2.0	22.0	24.0		
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	
		3.0	22.0	1.0	22.0	23.0		
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	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		
		6.0	21.0	2.0	21.0	23.0		
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
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	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	
		6.0	19.0	2.0	19.0	21.0		

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		LAB	LEC	LAB	LEC	CREDIT		
<u>3RD YEAR - 1ST SEMESTER</u>								
ECE20	Electronics 1	3.0	3.0	1.0	3.0	4.0	MATH34a, PHYS11a	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	
		6.0	20.0	2.0	20.0	22.0		
<u>3RD YEAR - 2ND SEMESTER</u>								
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, MATH38	
EE30	Electromagnetics	0.0	3.0	0.0	3.0	3.0	MATH34a, PHYS11a, MATH42	
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	
ME25	Thermodynamics 1	0.0	3.0	0.0	3.0	3.0	PHYS10a, MATH34a	
		9.0	20.0	3.0	20.0	23.0		
<u>4TH YEAR - 1ST SEMESTER</u>								
ECE22	Electronics 3	3.0	3.0	1.0	3.0	4.0	ECE21	
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		
		18.0	18.0	6.0	18.0	24.0		
<u>4TH YEAR - 2ND SEMESTER</u>								
ECE35a	Industrial Electronics	3.0	3.0	1.0	3.0	4.0	ECE21	
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		
ECE41a	Digital Communications	3.0	3.0	1.0	3.0	4.0	ECE40a	
		15.0	16.0	5.0	16.0	21.0		
<u>4TH YEAR - SUMMER</u>								
OJT10	On the Job Training	240.0	0.0	0.0	4.0	4.0		
		240.0	0.0	0.0	4.0	4.0		
<u>5TH YEAR - 1ST SEMESTER</u>								
ECE43	Wire & Wireless Communications	3.0	3.0	1.0	3.0	4.0	ECE41a	
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	
COE64a	Microprocessor/Microcontrollers	3.0	3.0	1.0	3.0	4.0	ECE21, ECE30, COE40	
ES40	Engineering Economy	0.0	3.0	0.0	3.0	3.0		
TE30a	Technical Elective 3	3.0	3.0	1.0	3.0	4.0		
ES70	Engineering Management	0.0	3.0	0.0	3.0	3.0		
		18.0	16.0	6.0	16.0	22.0		
<u>5TH YEAR - 2ND SEMESTER</u>								
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		
		9.0	16.0	3.0	16.0	19.0		