



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

COLLEGE OF INFORMATION TECHNOLOGY AND COMPUTING

B.S. in Computer 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
MATH61	Discrete Mathematics	0.0	3.0	0.0	3.0	3.0	MATH13
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	
HUM11b	Logic & Ethics	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	
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>25.0</u>	<u>1.0</u>	<u>25.0</u>	<u>26.0</u>	
2ND YEAR - 1ST SEMESTER							
COE10	C Programming	3.0	2.0	1.0	2.0	3.0	MATH13, MATH17a
COE12	Computer Hardware Fundamentals	3.0	0.0	1.0	0.0	1.0	
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	
ENGL40	Technical Writing & Reporting	0.0	3.0	0.0	3.0	3.0	ENGL20
PSYC20	Applied Psychology	0.0	3.0	0.0	3.0	3.0	
		<u>9.0</u>	<u>19.0</u>	<u>3.0</u>	<u>19.0</u>	<u>22.0</u>	
2ND YEAR - 2ND SEMESTER							
COE11	Object Oriented Programming	3.0	2.0	1.0	2.0	3.0	COE10
COE20	Data Structure & Algorithm Analysis	3.0	2.0	1.0	2.0	3.0	COE10
COE25	Introduction to Computer Engineering	3.0	2.0	1.0	2.0	3.0	COE10, COE12
COE26	Engineering Ethics & Computer Laws	0.0	2.0	0.0	2.0	2.0	
MATH34a	Integral Calculus	0.0	5.0	0.0	5.0	5.0	MATH32
PHYS11a	General Physics 2 - Electricity and Magnetism	3.0	3.0	1.0	3.0	4.0	PHYS10a
		<u>12.0</u>	<u>16.0</u>	<u>4.0</u>	<u>16.0</u>	<u>20.0</u>	

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		LAB	LEC	LAB	LEC		
3RD YEAR - 1ST SEMESTER							
COE30	Structure of Programming Languages	0.0	3.0	0.0	3.0	3.0	COE20
ECE20	Electronics 1	3.0	3.0	1.0	3.0	4.0	MATH34a, PHYS11a EE20
EE20	Circuit Theory 1	3.0	3.0	1.0	3.0	4.0	MATH34a, PHYS11a ECE20, MATH38
EE30	Electromagnetics	0.0	3.0	0.0	3.0	3.0	MATH34a, PHYS11a
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
ES10b	Statics of Rigid Bodies	0.0	3.0	0.0	3.0	3.0	PHYS10a, 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							
COE40	Computer System Organization w/ Assembly Language	3.0	3.0	1.0	3.0	4.0	COE11, COE20 ECE30
ECE21	Electronics 2	3.0	3.0	1.0	3.0	4.0	ECE20, EE20
ECE30	Logic Circuits & Switching Theory	3.0	3.0	1.0	3.0	4.0	ECE20, EE20 ECE21, EE21
EE21	Circuit Theory 2	3.0	3.0	1.0	3.0	4.0	ECE20, EE20, MATH38
ES11	Dynamics of Rigid Bodies	0.0	2.0	0.0	2.0	2.0	MATH34a, ES10b
ES12	Strength of Materials	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
		<u>12.0</u>	<u>20.0</u>	<u>4.0</u>	<u>20.0</u>	<u>24.0</u>	
4TH YEAR - 1ST SEMESTER							
COE43	Digital Signal Processing	3.0	3.0	1.0	3.0	4.0	MATH60
COE45	Advanced Logic Circuits	3.0	3.0	1.0	3.0	4.0	COE40, ECE30
COE50	Data Communication & Networking 1	3.0	3.0	1.0	3.0	4.0	ECE30
EE31	Energy Conversion	3.0	3.0	1.0	3.0	4.0	EE30, EE21
EE40	Control Systems	0.0	3.0	0.0	3.0	3.0	EE21, MATH60
ECE40	Principles of Communications	0.0	3.0	0.0	3.0	3.0	ECE21, MATH60
ES40	Engineering Economy	0.0	3.0	0.0	3.0	3.0	
		<u>12.0</u>	<u>21.0</u>	<u>4.0</u>	<u>21.0</u>	<u>25.0</u>	
4TH YEAR - 2ND SEMESTER							
COE35a	Operating Systems	3.0	3.0	1.0	3.0	4.0	COE30, COE40
COE47	Computer System Architecture & Interfacing Techniques	3.0	3.0	1.0	3.0	4.0	COE45
COE51	Data Communication & Networking 2	3.0	3.0	1.0	3.0	4.0	COE50
COE64	Microprocessor Systems	3.0	3.0	1.0	3.0	4.0	COE45
ME25	Thermodynamics 1	0.0	3.0	0.0	3.0	3.0	PHYS10a, MATH34a
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	
ES80	Technopreneurship	3.0	2.0	1.0	2.0	3.0	ES40
		<u>15.0</u>	<u>21.0</u>	<u>5.0</u>	<u>21.0</u>	<u>26.0</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							
COE52	Data Communication & Networking 3	3.0	3.0	1.0	3.0	4.0	COE51
COE65	Microcomputer-Based I/O & Memory System	3.0	3.0	1.0	3.0	4.0	COE47, COE64
COE70	Project Management (Systems Analysis & Design)	0.0	3.0	0.0	3.0	3.0	COE20
COE75	Design Project 1 (Methods of Research)	6.0	1.0	2.0	1.0	3.0	ENGL40, COE64 COE65
COE80	Seminars & Field Trips	3.0	0.0	1.0	0.0	1.0	
TE20	Technical Elective 2	0.0	3.0	0.0	3.0	3.0	
MATH41	Numerical Methods & Analysis	0.0	2.0	0.0	2.0	2.0	COE10, MATH38
		<u>15.0</u>	<u>15.0</u>	<u>5.0</u>	<u>15.0</u>	<u>20.0</u>	

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		LAB	LEC	LAB	LEC	CREDIT		
5TH YEAR - 2ND SEMESTER								
COE53	Data Communication & Networking 4	3.0	3.0	1.0	3.0	4.0	COE52	
COE71	Software Engineering	0.0	3.0	0.0	3.0	3.0	COE70	
COE76	Design Project 2 (Implementation)	6.0	1.0	2.0	1.0	3.0	COE75	
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	
COE86	Test & Quality Assurance	0.0	2.0	0.0	2.0	2.0		
ES70	Engineering Management	0.0	3.0	0.0	3.0	3.0	ES40	
		<u>9.0</u>	<u>17.0</u>	<u>3.0</u>	<u>17.0</u>	<u>20.0</u>		