

Mary Our Help

Technical Institute for Women (Cebu), Inc.
Km. 17 Tunghaan, Minglanilla, Cebu

Bachelor of Science in Electronics Engineering (BSECE)

FOUR-YEAR BSECE per CMO #24 Series of 2008

ELECTRONICS ENGINEERING

FIRST YEAR - FIRST QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC UNITS	LAB UNITS	TOTAL UNITS	PRE-REQUISITE
RelEd 1	The Creed	(3)	0	(3)	
EM 111	College Algebra	3	0	3	
EM 112	Plane and Spherical Trigonometry	3	0	3	
Eng 1	Communication Arts 1	3	0	3	
Chem 111	General Chemistry 1	3	1	4	
ED 1	Engineering Drawing	0	1	1	
ES 210	Computer Orientation	0	1	1	
PE 1	Physical Fitness	2	0	2	
	TOTAL	14	3	17	
		(3)		(3)	

FIRST YEAR - SECOND QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC UNITS	LAB UNITS	TOTAL UNITS	PRE-REQUISITE
Val Ed	Value of Work	(1)	0	(1)	
EM 113	Analytic Geometry	3	0	3	EM 111, EM 112
EM114	Solid Mensuration	2	0	2	EM 111, EM 112
EM 115	Advanced Algebra	2	0	2	EM 111
Eng 2	Communication Arts 2	3	0	3	Eng 1
ES 211	Computer Fundamentals and Programming	0	2	2	ES 210
PE2	Rhythms and Dances	2	0	2	PE1
NSTP 1	National Service Training Program 1	3	0	3	
	TOTAL	15	2	17	
		(1)		(1)	

FIRST YEAR - THIRD QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC UNITS	LAB UNITS	TOTAL UNITS	PRE-REQUISITE
RelEd 2	Christian Morality	(3)	0	(3)	RelEd 1
EM 116	Differential Calculus	4	0	4	EM 113 EM 114,EM 115
Phys 111	Physics 1 (lec & lab)	3	1	4	EM 111, EM 112
Hum 1	Logic	3	0	3	
ED 2	Engineering Drafting II (CAD)	0	1	1	ED 1
SocSci 1	General Psychology	3	0	3	
NSTP 2	National Service Training Program 2	3	0	3	NSTP 1
	TOTAL	16	2	18	
		(3)		(3)	

FIRST YEAR - FOURTH QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC UNITS	LAB UNITS	TOTAL UNITS	PRE-REQUISITE
RelEd 3	Sacraments	(3)	0	(3)	Rel Ed 2
EM 117	Integral Calculus	4	0	4	EM 116
Phys 112	Physics 2 (lec & lab)	3	1	4	Phys 111
SocSci 2	Sociology with Responsible Parenthood	3	0	3	
FIL 1	Sining ng Pakikipagtalastasan	3	0	3	
Hum 2	Philosophy of Man	3	0	3	
PDHR	Personality Development and Human Relations	1	0	1	
PE 3	Team Sports and Self-Defense	2	0	2	PE 2
	TOTAL	19	1	20	
		(3)		(3)	

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SECOND YEAR - FIRST QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC UNITS	LAB UNITS	TOTAL UNITS	PRE-REQUISITE
RelEd 4	Social Teachings of the Church	(3)	0	(3)	RelEd 3
Eng 3	Technical Writing	3	0	3	Eng 2
EM 118	Differential Equations	3	0	3	EM 117
EE 211	Circuits 1 (lec&lab)	3	1	4	Phys 112, EM 117
ES 211	Vector Analysis	3	0	3	EM 117
ES 212	Statics of Rigid Bodies	3	0	3	Phys 112, EM 117
ECE 211	Fundamentals of Material Science and Engineering	3	0	3	
PE 4	Recreational Activities	2	0	2	
	TOTAL	17	1	18	
		(3)		(3)	

SECOND YEAR - SECOND QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC UNITS	LAB UNITS	TOTAL UNITS	PRE-REQUISITE
Rel Ed 5	Introduction to the Bible	(3)	0	(3)	Rel Ed4
Spirituality 1	Salesian Youth Spirituality	(1)	0	(1)	
EM 211	Probability and Statistics	3	0	3	EM 111
EE 212	Circuits 2 (lec & lab)	3	1	4	EE 211
ECE 212	Electronic Devices and Circuits (lec&lab)	3	1	4	Phys 112, EM 117
EE 213	Practical Electronics	1	1	2	Phys 112
ES 213	Dynamics of Rigid Bodies	2	0	2	ES 212
	TOTAL	12	3	15	
		(4)		(4)	

SECOND YEAR - THIRD QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC UNITS	LAB UNITS	TOTAL UNITS	PRE-REQUISITE
Rel Ed 6	Cristology	(3)	0	(3)	Rel Ed 5
Spirituality 2	The Preventive System 1	(1)	0	(1)	
ECE 213	Advanced ECE Mathematics	3	0	3	EM 118
ECE 214	Electronics Circuits Analysis and Design (lec&lab)	3	1	4	ECE 212
EE 214	Electromagnetics	3	0	3	ES 211, Phys 112, EM 117
ES 214	Environmental Engineering	2	0	2	Chem 111
EM 212	Discrete Mathematics	3	0	3	EM 111
ES 215	Mechanics of Deformable Bodies	3	0	3	ES 212
ME 210	Basic Metal Works	0	1	1	
	TOTAL	17	2	19	
		(4)		(4)	

SECOND YEAR - FOURTH QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC UNITS	LAB UNITS	TOTAL UNITS	PRE-REQUISITE
Rel Ed 7	Mariology	(3)	0	(3)	
Spirituality 3	The Preventive System II	(1)	0	(1)	
SocSci 4	Phil. Gov't and the New Constitution	3	0	3	
Fil 2	Pagbasa't Pagsulat sa Iba't-Ibang Disiplina	3	0	3	Fil 1
ECE 215	Principles of Communication (lec&lab)	3	1	4	ECE 213, ECE 214
ME 211	Basic Thermodynamics	2	0	2	EM 117, Phys 112
ECE 216	Logic Circuits and Switching Theory	3	1	4	ECE 212, ES 211
	TOTAL	14	2	16	
		(4)		(4)	

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THIRD YEAR - FIRST QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC UNITS	LAB UNITS	TOTAL UNITS	PRE-REQUISITE
Rel Ed 8	Ecclesiology	(3)	0	(3)	Rel Ed 7
Spirituality 4	GEM	(1)	0	(1)	
ECE 311	Signals,Spectra,Signal Processing	3	1	4	EM 211, ECE 213
ECE 312	Industrial Electronics	3	1	4	ECE 214
ECE 321	Digital Communications	3	1	4	ECE 215
ES 311	Engineering Economy	3	0	3	Third year standing
ES 312	Safety Management	1	0	1	Third year standing
PM	Preventive Maintenance	2	0	2	Third year standing
	TOTAL	15	3	18	
		(3)		(3)	

THIRD YEAR - SECOND QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC UNITS	LAB UNITS	TOTAL UNITS	PRE-REQUISITE
ECE 322	Microprocessor Systems	3	1	4	ECE 216,ES 211, ECE 214
ECEC 323	Numerical Methods	3	1	4	ECE 213, ES 211
ECE Elec 1	Pneumatics&Electro-Pneumatics (ELEC1)	3	1	4	
ES 313	Engineering Management	3	0	3	Third year standing
ProjStud1	Project Study 1	0	1	1	Third year standing
	TOTAL	12	4	16	

THIRD YEAR - THIRD QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC UNITS	LAB UNITS	TOTAL UNITS	PRE-REQUISITE
ECE Elec2	Programmable Logic Circuit (ELEC 2)	3	1	4	ECE Elec 1
OJT	On-Job-Training 1	0	9	9	
	TOTAL	3	10	13	

THIRD YEAR - FOURTH QUARTER AY 2009-2010

COURSE CODE	DESCRIPTIVE TITLE	LEC UNITS	LAB UNITS	TOTAL UNITS	PRE-REQUISITE
ECE 324	Feedback and Control Sytems	3	1	4	ECE 213
OJT2	On-Job-Training 2	0	9	9	OJT 2
	TOTAL	3	10	13	

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FOURTH YEAR - FIRST QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC HRS	LAB HRS	ACAD UNITS	PRE-REQUISITE
EE 411	Energy Conversion	3	1	4	EE 214, EE 212
ECE 411	Transmission Media and Antenna	3	1	4	EE 214, EE 212
ECE 412	Data Communication	3	1	4	ECE 321
ECE 413	ECE Laws & Ethics	3	0	3	Fourth year standing
ECE 414	Semiconductor Devices for Power Electronics	3	1	4	ECE 216, ES 211, ECE 214
	TOTAL	15	4	19	

FOURTH YEAR - SECOND QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC HRS	LAB HRS	ACAD UNITS	PRE-REQUISITE
ECE Elec3	Mechatronics (ELEC3)	3	1	4	ECE Elec 2
ECE Elec4	Robotics (Elec 4)	3	1	4	ECE Elec 2
Hum4	World Literature	3	0	3	
SocSci 3	Taxation and Land Reform	3	0	3	
ECE 415	Seminars and Field Trips	0	1	1	Fourth year standing
ECE 416	Digital Control System	3	1	4	ECE 324
	TOTAL	15	4	19	

FOURTH YEAR - THIRD QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC HRS	LAB HRS	ACAD UNITS	PRE-REQUISITE
RIZAL	Life and Works of Rizal	3	0	3	
OJT3	On-Job-Training 3	0	9	9	OJT 2
WO1	Women Studies	3	0	3	
TQM	Total Quality Management	3	0	3	
	TOTAL	9	9	18	

FOURTH YEAR - FOURTH QUARTER

COURSE CODE	DESCRIPTIVE TITLE	LEC HRS	LAB HRS	ACAD UNITS	PRE-REQUISITE
Projstud2	Project Study 2	0	1	1	Projstud 1
OJT4	On-Job-Training 2	0	9	9	OJT 3
ENTREP	Entrepreneurship	3	0	3	
	TOTAL	3	10	13	