



RA 9299

Negros Oriental State University
NOPS (1907)

Republic of the Philippines
NOTS (1927)
Kagawasan Ave., Dumaguete City, Negros Oriental, Philippines 6200

June 25, 2004

University
EVSAT (1956)
CVPC (1983)

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
Per CMO No. 88, series of 2017

Effective School Year 2018-2019

FIRST YEAR

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 131	Engineering Calculus I	3		3	
EPS 131	Chemistry for Engineers	3	3	4	
ENS 131	Engineering Orientation (EE)	2		2	
GE 1	Understanding the Self	3		3	
GE 2	Readings in Philippine History	3		3	
GE 3	The Contemporary World	3		3	
PE 1	Physical Fitness and Health	2		2	
NSTP 1	National Service Training Program 1	3		3	
TOTAL		22	3	23	
*ENM 011	Algebra 1	2		2	
*ENM 012	Plane & Spherical Trigonometry	2		2	

* Enhancement courses for NON-STEM Senior High Graduates

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 141	Engineering Calculus 2	3		3	ENM 131
EPS 141	Physics for Engineers	3	3	4	ENM 131
ENS 142	Computer Fund. & Programming	2	3	3	
GE 4	Mathematics in the Modern World	3		3	
GE 5	Purposive Communication	3		3	
GE 6	Art Appreciation	3		3	
PE 2	Recreational Games and Sports	2		2	
NSTP 2	National Service Training Program 2	3		3	
TOTAL		22	6	24	
*ENM 021	Algebra 2	2		2	
*ENM 022	Analytic Geometry w/ Solid Mensuration	2		2	

SECOND YEAR

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 231	Differential Equations	3		3	ENM141
ENS 231	Engineering Mechanics 1	3		3	EPS141
ENS 232	Computer-Aided Design	1	3	2	
ENS 233	Environmental Science & Eng'g.	3		3	2nd yr standing
EE 231	Electrical Circuits 1	3	3	4	EE242
ME 230	Basic Thermodynamics	2		2	EPS141;ENM141
GE 7	Science Technology & Society	3		3	
GE 8	Ethics	3		3	
FIL 1	Akademiko sa Wikang Filipino	3		3	
PE 3	Rhythmic and Social Recreation	2		2	
TOTAL		26	6	28	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 241	Engineering Data Analysis	3		3	ENM 141
ENS 240	Fund. of Mech. of Deformable Bodies	3		3	ENS231;ENM141
ENS 241	Engineering Mechanics 2	3		3	ENS231
EE 241	Electrical Circuits 2	3	3	4	EE231
EE 242	Engineering Math for EE	3		3	ENM231
EE 243	Electromagnetics	3		3	EPS141; ENM231
ECE 242	Electronic Circuits: Devices & Analysis	3	3	4	EE231
GE 10A	Living in the IT Era	3		3	
PE 4	Cultural Presentation & Sports Management	2		2	
TOTAL		26	6	28	

THIRD YEAR

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENS 331	Engineering Economics	3		3	ENM 241
ENS 332	Fluid Mechanics	3		3	EPS141;ENM141
EE 331	Electrical Circuits 3	3		3	EE 241
EE 332	Numerical Methods & Analysis	3	3	4	EE242
EE 333	Electrical Machines 1 (DC Machinery)	3	3	4	EE241;EE243
ECE 333	Fundamentals of Electronic Comm.	3		3	ECE242
ECE 335	Logic Circuits and Switching Theory	3	3	4	ECE242
ECE 336	Industrial Electronics	3	3	4	ECE242
TOTAL		24	12	28	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENS 340	Material Science & Engineering	3		3	EPS131
EE 341	Research Methods for Engineering	2	3	3	ENM241;GE5
EE 342	Electrical Apparatus and Devices	2	3	3	EE241
EE 343	Electrical Machines 2 (AC Machinery)	3	3	4	EE333
EE 344	Feedback Control Systems	3	3	4	EE242; ECE242
EE 345	EE Laws, Codes & Professional Ethics	3		3	GE 8, 3rd year standing
EE 346	Management of Engineering Projects	2		2	ENS331
CoE 340	Microprocessor System	3	3	4	ECE335
GE 11	Gender and Society	3		3	
TOTAL		24	15	29	

Summer					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
EE 400	On-the-Job Training 300 hours	3	300	5	Completed all 3rd year Major Subjects

FOURTH YEAR

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
EE 431	Electrical Standards and Practices		3	1	EE345
EE 432	EE Research Project 1	1	3	2	EE400; ENM241
EE 433	Electrical Systems & Illumination Eng'g	3	6	5	EE343
EE 434	Instrumentation and Control	3	3	4	EE344
EE 435	EE Elective 1	3		3	w/ EE434
EE 436	EE Elective 2	3		3	4th yr standing
GE 9	Life & Works of Rizal	3		3	
GE 12	Philippine Popular Culture	3		3	
TOTAL		19	15	24	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENS 243	Technopreneurship	3		3	4th yr standing
ENS 441	Occupational Safety & Health	3		3	4th yr standing
EE 441	Power Systems Analysis	3	6	5	EE431
EE 442	EE Research Project 2		6	2	EE432
EE 443	Fundamentals of Power Plant Engineering	3	3	4	Co-requisite EE441
EE 444	Distribution Systems and substation Design	3	3	4	Co-requisite EE441
EE 445	Seminars/Colloquia		3	1	4th yr standing
EE 500	NORSU Eng'g Competency Assessment	3		3	4th yr standing
TOTAL		18	21	25	

First Revision: August 2020

Summary:

NON TECHNICAL	53
General Education:	30
GE Elective/Mandated:	9
Physical Education:	8
NSTP:	6
TECHNICAL	161
Mathematics	12
Natural/Physical Sciences	8
Engineering Sciences	16
Allied Courses:	42
Professional Courses	83
Total	214
With Enhancement	8