



RA 9299

Republic of the Philippines

June 25, 2004

Negros Oriental State University

NOPS (1907) NOTS (1927) EVSAT (1956) CVPC (1983)
Kagawasan Ave., Dumaguete City, Negros Oriental, Philippines 6200

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY

Major in Refrigeration and Airconditioning Technology

Effective School Year 2018-2019

FIRST YEAR

BRIDGING PROGRAM (For Lifelong Learners and ALS Graduates)

First Semester			
FIRST TERM:			
BRG ENG	English for Academic and Professional Courses	3	
BRG MATH	General Mathematics	3	
BRG SCIENCE	Earth and Life Science	3	
BRG COM	Media and Information Literacy	3	
BRG PD	Personal Development	3	
TOTAL		15	

Second Semester			
FIRST TERM:			
AUTO	Automotive Servicing	5	
RAC	Refrigeration and Air-conditioning	5	
ELECT	Electrical Installation and Maintenance	5	
SMAW	Shielded Metal Arc Welding	5	
FOOD	Bread & Pastry and Cookery	5	
COMP	Computer Systems Servicing	5	
TOTAL		5	

Note: Students will choose only one Major

SECOND TERM:			
GE 1	Understanding the Self	3	
GE 4	Mathematics in the Modern World	3	
GE 5	Purposive Communication	3	
GE 6	Art Appreciation	3	
GE 7	Science, Technology and Society	3	
TOTAL		15	

SECOND TERM:			
GE 2	Readings in Philippine History	3	
GE 3	The Contemporary World	3	
GE 8	Ethics	3	
GE 9	Life and Works of Rizal	3	
FIL 1	Akademiko sa Wikang Filipino	3	
TOTAL		15	

FIRST YEAR

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
GE 8	Ethics	3		3	-
FIL 1	Akademiko sa Wikang Filipino	3		3	-
IT 100	Introduction to Information Technology	3		3	-
ID 1	Industrial Drawing 1 (Basic Drawing)	3		3	-
RAC 100	Refrigeration Principles (2lec/3lab)	2	3	5	-
RAC 101	Occupational Health & Safety (2lec/3lab)	2	3	5	-
PE 1	Physical Fitness and Health	2		2	-
NSTP 1	National Service Training Program 1	3		3	-
TOTAL		21	6	27	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
GE 5	Purposive Communication	3		3	
GE 10	Environmental Science	3		3	
IT 102	Programming 1	1	2	3	IT 100
ID 2	Industrial Drawing 2 (Blueprint Reading)	1	2	3	ID 1
RAC 102	Domestic RAC Components & Circuitry Diagnosis (2lec/3lab)	2	3	5	RAC 100, 101
RAC 103	Domestic RAC System and Retrofitting Processes (2lec/3lab)	2	3	5	RAC 100, 101
PE 2	Recreational Games and Sports	2		2	PE 1
NSTP 2	National Service Training Program 2	3		3	NSTP 1
TOTAL		17	10	27	

SECOND YEAR

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
GE 2	Readings in Philippine History	3		3	
GE 3	The Contemporary World	3		3	
GE 11	Gender and Society	3		3	
IT 200	Technology Research 1	3		3	2nd Year Standing
IT 201	Intellectual Property Rights	3		3	2nd Year Standing
RAC 200	Split-Type Air-con/PACU Systems, Heat Pumps Installation	2	3	5	RAC 102, RAC 103
RAC 201	Welding and Brazing Processes	2	3	5	RAC 102, RAC 103
RAC 202	Fundamental of Electronics	1	2	3	RAC 102, RAC 103
PE 3	Rhythmic and Social Recreation	2		2	PE 2
TOTAL		22	8	30	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
GE 6	Art Appreciation	3		3	
GE 7	Science, Technology and Society	3		3	
AST 201	Programming Controls	4		4	2nd Year Standing
IT 202	Materials Technology Management	4		4	IT 200, IT 201
IT 203	Technology Research 2	4		4	IT 200, IT 201
RAC 202	CRE Operation and Cold Storage	2	3	5	RAC 200, 201
RAC 203	Auxiliary Equipment Operation, Service & Installation	2	3	5	RAC 200, 201
PE 4	Cultural Presentation and Sports Management	2		2	PE 3
TOTAL		24	6	30	

* STUDENTS WHO HAVE COMPLETED WITH THE TWO-YEAR PROGRAM HAVE THE OPTION TO GRADUATE ASSOCIATE IN INDUSTRIAL TECHNOLOGY

THIRD YEAR

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
GE 4	Mathematics in the Modern World	3		3	
GE 9	Life and Works of Rizal	3		3	
AST 300	Pneumatic and Hydraulic Systems	4		4	AST 201
IT 300	Manufacturing Technology	3		3	IT 202
IT 301	Human Resource Management	3		3	3rd Year Standing
IT 302	Quality Control	3		3	AST 201, IT 202
RAC 300	Automotive/Mobile Aircon Systems, Troubleshooting & Installation	2	3	5	RAC 202, RAC 203
RAC 301	Transport Refrigeration Systems, Troubleshooting & Installation	2	3	5	RAC 202, RAC 203
TOTAL		23	6	29	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
GE 1	Understanding the Self	3		3	
GE 12	Philippine Popular Culture	3		3	
AST 301	Foreign Language	3		3	3rd Year Standing
IT 303	Industrial Organization & Mgt. Practices	3		3	IT 301
IT 304	Industrial Psychology	3		3	IT 301
IT 305	Production Management	3		3	IT 300, IT 302
RAC 302	Intro to Marine HVACR Systems Design	2	3	5	RAC 300, 301
RAC 303	RAC Designs and Estimates on Load Capacity Requirements	2	3	5	RAC 300, 301
TOTAL		22	6	28	

FOURTH YEAR

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
RAC 400	Supervised Industrial Training 1 (700 Hours)	0	21	21	
TOTAL		0	21	21	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
RAC 401	Supervised Industrial Training 2 (700 Hours)	0	21	21	RAC 400
TOTAL		0	21	21	

First Revision: August 2020

Summary	No. of Units
General Education Courses	39
Professional Education Subjects	58
Major Courses	102
Physical Education (PE)	8
National Service Training Program (NSTP)	6
TOTAL	213