



University of Southeastern Philippines
College of Education

BACHELOR OF TECHNICAL-VOCATIONAL TEACHER EDUCATION
Major in Heating, Ventilating, Air-conditioning and Refrigeration (HVACR) Technology
CMO No.79, series of 2017

Approved per BOR Resolution No. 58, series of 2018
Revised per BOR Resolution No. 51A, series of 2020
Effective S.Y. 2018-2019

FIRST YEAR											
1st Semester					2nd Semester						
Course No.	Course Title	Credit			Pre/Co-Requisite	Course No.	Course Title	Credit			Pre/Co-Requisite
		Lec	Lab	Total Units Credit				Lec	Lab	Total Units Credit	
GE 113	Understanding the Self	3	0	3	None	GE 111	Purposive Communication	3	0	3	None
GE 114	Ethics	3	0	3	None	GE 112	Mathematics in the Modern World	3	0	3	None
Educ 111	The Child and Adolescent Learners and Learning Principles	3	0	3	None	Educ 123	Technology for Teaching and Learning 1**	3	0	3	Educ 111, Educ 112
Educ 112	Foundations of Special and Inclusive Education	3	0	3	None	Educ 124/VTEd	The Teacher and the Community, School Culture and Organizational Leadership with focus on the Phil. TVET System*	3	0	3	Educ 111, Educ 112
HVAC 111	Occupational Health & Safety Practices	2	0	2	None	HVAC 123	Soldering, Welding and Joining Operations	1	2	3	None
HVAC 112	Technical Drawing	1	1	2	None	HVAC 124	Domestic RAC Electrical/Electronic Circuit	1	2	3	None
VTEd-E111	Teaching ICT as an Exploratory Course	3	0	3	None	VTEd-E123	Teaching the Common Competencies in Industrial Arts	2	1	3	VTEd-E112
VTEd-E112	Introduction to Industrial Arts	2	1	3	None	PE 122	Fitness Exercise	2	0	2	PE 111
PE 111	Movement Enhancement	2	0	2	None	NSTP 122	National Service Training Program 2	3	0	3	NSTP 111
NSTP 111	National Service Training Program 1	3	0	3	None						
Total				27		Total				26	

SECOND YEAR											
1st Semester					2nd Semester						
Course No.	Course Title	Credit			Pre/Co-Requisite	Course No.	Course Title	Credit			Pre/Co-Requisite
		Lec	Lab	Total Units Credit				Lec	Lab	Total Units Credit	
GE 217	Science, Technology, and Society	3	0	3	None	GE 215	The Life & Works of Rizal	3	0	3	None
GE 218	Arts Appreciation	3	0	3	None	GE 216	Readings in Philippine History	3	0	3	None
Educ 215	The Teaching Profession	3	0	3	Educ 124	Educ 227/VTEd	Facilitating Learner-Centered Teaching: The Learner-Centered Approaches with Emphasis on Trainers' Methodology I*	3	0	3	Educ 111
Educ 216A	Assessment in Learning 1	3	0	3	None	Educ 216B/VTEd	Assessment in Learning 2 with Focus on Trainers' Methodology I & II*	3	0	3	Educ 216A
HVAC 215	Domestic RAC System Service	2	2	4	HVAC 123, HVAC 124	Educ 228/VTEd	The Andragogy of Learning Including Principles of Trainers' Methodology I (Additional Course)*	3	0	3	None
HVAC 216	Instrumentation and Control Devices	1	1	2	HVAC 123, HVAC 124	HVAC 227	Commercial Refrigeration Equipment (CRE) Installation	2	2	4	HVAC 215, HVAC 216
VTEd-E214	Introduction to Agriculture and Fisheries	3	0	3	None	HVAC 228	Package Air-Conditioning Unit(PACU) Installation & Maintenance	2	2	4	HVAC 215, HVAC 216
VTEd-E215	Teaching the Common Competencies in ICT	1	2	3	VTEd-E111	PE 224	Physical Activities Towards Health & Fitness II	2	0	2	PE 213
PE 213	Physical Activities Towards Health & Fitness I	2	0	2	PE 122						
Total				26		Total				25	

SUMMER					
Course No.	Course Title	Credit			Pre/Co-Requisite
		Lec	Lab	Total Units Credit	
VTEd-E236	Entrepreneurship	3	0	3	None
VTEd-E237	Home Economics Literacy	3	0	3	None
Total				6	

THIRD YEAR											
1st Semester					2nd Semester						
Course No.	Course Title	Credit			Pre/Co-Requisite	Course No.	Course Title	Credit			Pre/Co-Requisite
		Lec	Lab	Total Units Credit				Lec	Lab	Total Units Credit	
EGE 311	General Education Elective 1	3	0	3	None	EGE 313	General Education Elective 3	3	0	3	None
EGE 312	General Education Elective 2	3	0	3	None	GE 319	Contemporary World	3	0	3	None
Educ 318/VTEd	Curriculum Development and Evaluation with Emphasis on Trainers' Methodology II*	3	0	3	Educ 124	Educ 321/VTEd	Work-Based Learning with Emphasis on Trainers' Methodology*	3	0	3	None
Educ 319/VTEd	Building and Enhancing New Literacies Across the Curriculum with Emphasis on the 21 st Century Skills*	3	0	3	None	HVAC 322	Refrigeration Plant Designing	1	1	2	HVAC 112, HVAC 319, HVAC 310
Educ 310	Technology Research 1 (Methods of Research)	3	0	3	None	HVAC 323	Air Handling Unit Installation, Service and Maintenance	2	2	4	HVAC 319, HVAC 311
HVAC 319	Heat Pump Operation	1	1	2	HVAC 227, HVAC 228	HVAC 324	Technology for Teaching and Learning 2 (TLE)	3	0	3	Educ 123
HVAC 310	Ancillary Equipment Service and Repair	1	1	2	HVAC 227, HVAC 228	VTEd-E 328	Teaching the Common Competencies in HE	2	1	3	VTEd-E237
HVAC 311	Mobile Refrigeration & Air -conditioning Installation and Maintenance	2	2	4	HVAC 227, HVAC 228	VTEd-E 329	Teaching the Common Competencies in AFA	2	1	3	VTEd-E214
						EdRes 400	Technology Research 2 *** (Undergraduate Thesis/Research Project)	0	2	2	3 rd Year Standing
Total				23		Total				26	

SUMMER					
Course No.	Course Title	Credit			Pre/Co-Requisite
		Lec	Lab	Total Units Credit	
SIT	Supervised Industrial Training (270 Hours)	0	5	5	All Major Subjects
Total				5	



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FOURTH YEAR											
1st Semester					2nd Semester						
Course No.	Course Title	Credit			Pre/Co- Requisite	Course No.	Course Title	Credit			Pre/Co- Requisite
		Lec	Lab	Total Units Credit				Lec	Lab	Total Units Credit	
FS 411	Field Study 1 (Observations of Teaching-Learning in Actual School Environment)	0	5	5	All Prior Subjs from 1 st Yr to 3 rd Yr.	Educ 421	Teaching Internship	0	6	6	FS 411 and FS 412
FS 412	Field Study 2 (Participation and Teaching Assistantship)	0	5	5	All Prior Subjs from 1 st Yr to 3 rd Yr.	EdRes 400	Technology Research 2 *** (Undergraduate Thesis/Research Project)	0	2	2	
EdRes 400	Technology Research 2 *** (Undergraduate Thesis/Research Project)	0	2	2							
Total				12		Total				8	

Note: *Professional Education Courses with Integrated TM Courses
 **Required TTL Courses Aligned with ICT Competency Standards for Teachers
 ***A subject to be enrolled continuously until the last prescribed semester where student's grade will appear.

General Education Electives:	
Environmental Science	Reading Visual Art
Gender and Society	Living in the IT Era
People and the Earth's Ecosystems	Foreign Languages
Philippine Indigenous Communities	

Summary of Units	
General Education Courses	36
Professional Education Courses with Additional Technical-Vocational Allied Courses	61
Major Courses	73
Physical Education	8
National Service Training Program	6
Total Number of Units	184