



University of Southeastern Philippines
College of Technology

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY (BS IndTech)

Major in Electrical Technology

Approved per BOR Res. No. 513, Series of 2009

Revised per BOR Res. No. 51B, Series of 2020

Effective S.Y. 2021-2022

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 111	Purposive Communication	3	0	3	None	GE 113	Understanding the Self	3	0	3	None
GE 112	Mathematics in the Modern World	3	0	3	None	GE 114	Ethics	3	0	3	None
CS 10	Introduction to Information Technology	2	1	3	None	CS 11	Computer Programming 1	2	1	3	CS 10
ID 1	Industrial Drawing 1 (CAD 2D)	1	1	2	None	ID 2	Industrial Drawing 2 (CAD 3D)	1	1	2	ID 1
AST 111	Digital Electronics	1	1	2	None	AST 121	Foreign Language	2	0	2	None
ELC 111	Occupational Health & Safety	2	0	2	None	AST 122	Material Science	3	0	3	None
ELC 112	PEC & NEC	3	0	3	None	ELC 121	Industrial Wiring Design	2	1	3	ELC 111 ELC112 ELC113
ELC 113	Electrical Building Wiring Design	1	2	3	None	ELC 122	Illumination Design	2	1	3	ELC 112 ELC 113
PE 111	Movement Enhancement	2	0	2	None	PE 122	Fitness Exercise	2	0	2	None
NSTP 111	National Service Training Program 1	3	0	3	None	NSTP 122	National Service Training Program 2	3	0	3	None
Total				26		Total				27	

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 215	Life and Works of Rizal	3	0	3	None	GE 217	Science, Technology, and Society	3	0	3	None
GE 216	Readings in Philippine History	3	0	3	None	GE 218	Arts Appreciation	3	0	3	None
AST 211	Pneumatic and Hydraulic Systems	1	1	2	None	AST 221	Applied Thermodynamics	1	1	2	AST 213
AST 213	Differential & Integral Calculus	3	0	3	None	AST 222	Statistics for Technology	3	0	3	None
AST 214	Entrepreneurship	3	0	3	None	IT 221	Manufacturing Technology	3	0	3	IT 211
IT 211	Materials Technology Management	2	1	3	AST 122	IT 222	Business Management & Financial Literacy	3	0	3	AST 214
ELC 211	AC Motors	1	2	3	ELC 111 ELC 112 ELC 121	ELC 221	Power Production & Regenerative System	1	1	2	ELC 121 ELC 122
ELC 212	DC Motors	1	2	3	AST 111 ELC 112 ELC 121	ELC 222	Industrial Motor Controllers	1	2	3	ELC 211
PE 213	Physical Activities Towards Health & Fitness I	2	0	2	None	PE 224	Physical Activities Towards Health & Fitness II	2	0	2	None
Total				25		Total				24	

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 312	General Education Elective 2	3	0	3	None
EGE 319	Contemporary World	3	0	3	None	EGE 313	General Education Elective 3	3	0	3	None
IT 311	Technology Research 1	3	0	3	3 rd yr standing	IT 321	Industrial Organization & Management Practices	3	0	3	IT 312
IT 312	Human Resources Management	3	0	3	3 rd yr standing	IT 322	Industrial Psychology	3	0	3	IT 312
IT 313	Quality Control	3	0	3	3 rd yr standing	IT 323	Production Management	3	0	3	IT 312 IT 313
IT 314	Intellectual Property Rights	3	0	3	3 rd yr standing	ELC 321	Instrumentation & Automatic Control Design	1	1	2	ELC 311
AST 311	Programmable Controls for Electrical Technology	1	1	2	AST 111	ELC 322	Renewable Energy System	2	1	3	ELC 312
ELC 311	Industrial Sensor & Alarm System	1	1	2	ELC 221 ELC 222	TechRes 400	Technology Research 2 (Undergraduate Thesis/Research Project)*	0	2	2	IT 311 IT 314
ELC 312	Transmission and Distribution Systems	2	1	3	ELC 221 ELC 222						
Total				25		Total				22	



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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	
OJT 1	Supervised Industrial Training 1 (540hrs)	0	10	10	All Prior Major Subjects	OJT 2	Supervised Industrial Training 2 (540hrs)	0	10	10	OJT 1
TechRes 400	Technology Research 2 (Undergraduate Thesis/Research Project)*	0	2	2		TechRes 400	Technology Research 2 (Undergraduate Thesis/Research Project)*	0	2	2	
Total				12		Total				12	

Note: ***A subject to be enrolled continuously until the last prescribed semester where student's grade will appear.

Electives

Environmental Science
Gender and Society
People and the Earth's Ecosystems
Philippine Indigenous Communities
Reading Visual Art
Living in the IT Era

Summary of Units

General Education	36 units
Applied Sciences & Tool Subjects	32 units
Professional & Management Subjects	36 units
Major Subjects	35 units
Supervised Industrial Training	20 units
PE	8 units
NSTP	6 units
Total number of units	173 units