



**University of Southeastern Philippines**  
*College of Technology*

**BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY (BS IndTech)**  
**Major in Electronics 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
ELX 111	Occupational Health & Safety	2	0	2	None	AST 122	Material Science	3	0	3	None
ELX 112	Electronic Devices, Instruments and Circuits	2	1	3	None	ELX 121	Semiconductor Devices	2	1	3	ELX 111
PE 111	Movement Enhancement	2	0	2	None	ELX 122	Analog Communication	2	1	3	ELX 111 ELX 112
NSTP 111	National Service Training Program 1	3	0	3	None	PE 122	Fitness Exercise	2	0	2	None
						NSTP 122	National Service Training Program 2	3	0	3	None
<b>Total</b>				<b>23</b>		<b>Total</b>				<b>27</b>	

**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
ELX 211	Digital Communication	2	1	3	ELX 121 ELX 122	ELX 221	Instrumentation and Process Control	2	1	3	ELX 211
ELX 212	Audio & Video Systems	2	1	3	ELX 121 ELX 122	ELX 222	Sensors and Interfacing	2	1	3	ELX 211 ELX 212
PE 213	Physical Activities Towards Health & Fitness I	2	0	2	None	PE 224	Physical Activities Towards Health & Fitness II	2	0	2	None
<b>Total</b>				<b>25</b>		<b>Total</b>				<b>25</b>	

**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
GE 319	Contemporary World	3	0	3	None	EGE 313	General Education Elective 3	3	0	3	None
AST 311	Programmable Controls	1	1	2	AST 111	IT 321	Industrial Organization & Management Practices	3	0	3	IT 312
IT 311	Technology Research 1	3	0	3	3 <sup>rd</sup> yr standing	IT 322	Industrial Psychology	3	0	3	IT 312
IT 312	Human Resources Management	3	0	3	3 <sup>rd</sup> yr standing	IT 323	Production Management	3	0	3	IT 312 IT 313
IT 313	Quality Control	3	0	3	3 <sup>rd</sup> yr standing	ELX 321	Industrial Robotics	2	1	3	ELX 311
IT 314	Intellectual Property Rights	3	0	3	3 <sup>rd</sup> yr standing	ELX 322	Programmable Controller Applications	2	1	3	ELX 311
ELX 311	Microcontrollers	1	2	3	ELX 221 ELX 222	TechRes 400	Technology Research 2 (Undergraduate Thesis/Research Project)*	0	2	2	IT 311 IT 314
ELX 312	Industrial Electronics	2	1	3	ELX 221 ELX 222						
<b>Total</b>				<b>26</b>		<b>Total</b>				<b>23</b>	



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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	
<b>Total</b>				<b>12</b>		<b>Total</b>				<b>12</b>	

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
<b>Total number of units</b>	<b>173 units</b>