



University of Southeastern Philippines
College of Technology

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY (BS IndTech)
Major in Mechanical 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
MT 111	Occupational Health & Safety	2	0	2	None	AST 122	Material Science	3	0	3	None
MT 112	Metal Work Processes	1	2	3	None	MT 121	Metallurgy & Heat Treatment	2	1	3	MT 111 MT 112
MT 113	Metrology	2	1	3	None	MT 122	Blue Print Reading and Estimate	1	1	2	MT 111 MT 112
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				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 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
MT 211	Drilling & Grinding Processes	2	1	3	MT 121 MT 122	MT 221	Milling Machine Processes	2	1	3	MT 211 MT 212
MT 212	Lathe Machine Operation	2	1	3	MT 121 MT 122	MT 222	Electro-discharge Machine (EDM)	1	1	2	MT 211 MT 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
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
AST 311	Programmable Controls for Mechanical Technology	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 rd yr standing	IT 322	Industrial Psychology	3	0	3	IT 312
IT 312	Human Resources Management	3	0	3	3 rd yr standing	IT 323	Production Management	3	0	3	IT 312 IT 313
IT 313	Quality Control	3	0	3	3 rd yr standing	MT 321	Tool & Die and Jigs & Fixtures Design	2	1	3	MT 311
IT 314	Intellectual Property Rights	3	0	3	3 rd yr standing	MT 322	Machine Design and Fabrication	1	2	3	MT 312
MT 311	CAM/CIM	1	1	2	MT 221 MT 222	TechRes 400	Technology Research 2 (Undergraduate Thesis/Research Project)*	0	2	2	IT 311 IT 314
MT 312	Numerically Controlled Machining	1	2	3	MT 221 MT 222						
Total				25		Total				23	



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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