

COLLEGE OF TECHNOLOGY
BS ELECTRO-MECHANICAL TECHNOLOGY

EFFECTIVE S.Y. 2018-2019

FIRST YEAR									
First Semester									
Course Code	Description	No. of Hours			Units	Pre-requisites	Co-requisites		
		Lec	Lab	Total					
Fil	101	Wika, Kultura at Lipunan	3	0	3	3	None	None	
Math	101	Mathematics in the Modern World	3	0	3	3	None	None	
MATH	113	College Algebra with Plane Trigonometry	5	0	5	5	None	None	
TD	111	Basic CADD	2	3	5	3	None	None	
ET	111	Basic Electronics	2	3	5	3	None	None	
EMT	111	Electro - Pneumatics and Electro - Hydraulics	2	3	5	3	None	None	
PE	101	Physical Education 1	2	0	2	2	None	None	
NSTP	101	ROTC/CWTS/LTS 1	3	0	3	3	None	None	
				Total	31	25			
Second Semester									
Course Code	Description	No. of Hours			Units	Pre-requisites	Co-requisites		
		Lec	Lab	Total					
Fil	102	Panitikan	3	0	3	3	None	None	
Eng	102	Art Appreciation	3	0	3	3	None	None	
MATH	123	Differential Calculus with Analytic Geometry	5	0	5	5	MATH 113	None	
TD	121	CAD/CAM	2	3	5	3	TD 111	None	
ET	121	Electronics Devices 1	2	3	5	3	ET 111	None	
EMT	121	Programmable Logic Controller	2	3	5	3	EMT 111	None	
PE	102	Physical Education 2	2	0	2	2	PE 111	None	
NSTP	201	ROTC/CWTS/LTS 2	3	0	3	3	NTSP 101	None	
				Total	31	25			
SECOND YEAR									
First Semester									
Course Code	Description	No. of Hours			Units	Pre-requisites	Co-requisites		
		Lec	Lab	Total					
MATH	213	Integral Calculus	3	0	3	3	MATH 123	None	
ET	122	Digital Electronics 1	2	3	5	3	ET121	None	
ESM	211	Industrial Control	2	3	5	3	MATH 113	None	
ICT	211	Programming and Interfacing	2	3	5	3	None	None	
MDF	111	Mechanical Workshop Practice	2	6	8	4	None	None	
MDF	124	Mechanics	3	0	3	3	MATH 113	None	
EMT	211	Flexible Manufacturing System	2	3	5	3	EMT 121	None	
PE	103	Physical Education 3	2	0	2	2	PE 111	None	
				Total	36	24			
Second Semester									
Course Code	Description	No. of Hours			Units	Pre-requisites	Co-requisites		
		Lec	Lab	Total					
SS	102	Readings in Philippine History	3	0	3	3	None	None	
FL	221	Foreign Language	0	3	3	1	None	None	
MATH	221		3	0	3	3	MATH 213	None	
ICT	221	Audio and Image Processing with AI	2	3	5	3	ICT 211, MATH 211	None	
MDF	121	Machine Shop Technology 1	2	3	5	3	MDF 111	None	
MDF	213	Machine Elements 1	2	3	5	3	MDF 124	None	
EMT	221	HMI & SCADA	2	3	5	3	EMT 211	None	
PE	104	Physical Education 4	2	0	2	2	PE 111	None	
				Total	31	21			
Summer									
Course Code	Description	No. of Hours			Units	Pre-requisites	Co-requisites		
		Lec	Lab	Total					
EMT	231	Industry Immersion	6	0	6	6	EMT 221, ET 122,	None	
				Total	6	6			
THIRD YEAR									
First Semester									
Course Code	Description	No. of Hours			Units	Pre-requisites	Co-requisites		
		Lec	Lab	Total					
SS	101	Understanding the Self	3	0	3	3	None	None	
SS	103	The Contemporary World	3	0	3	3	None	None	

SS	104	Ethics	3	0	3	3	None	None
ES	101	Science, Technology & Society	3	0	3	3	None	None
Eng	101	Purposive Communication	3	0	3	3	None	None
EMT	311	Industrial Economics	3	0	3	3	MATH 113	None
EMT	312	Thermodynamics	3	0	3	3	MATH 123	None
EMT	313	Robotics 1 (Manipulation and Locomotion)	2	3	5	3	EMT 221, ICT 221	None
			Total		26	24		

Second Semester

Course Code	Description	No. of Hours			Units	Pre-requisites	Co-requisites	
		Lec	Lab	Total				
SS	105	Life and Works of Rizal	3	0	3	3	None	None
MATH	324	Applied Statistics	3	0	3	3	MATH 113	None
EMT	321	Fluid Mechanics	2	3	5	3	EMT 312	None
EMT	322	Design Thinking for Innovation	3	0	3	3	EMT 221, ICT 221	None
EMT	324	Robotics 2 (Interaction and Navigation)	2	3	5	3	EMT 313	None
EMT	325	Technical Research	3	0	3	3	EMT 221, ICT 221	None
			Total		22	18		

FOURTH YEAR

First Semester

Course Code	Description	No. of Hours			Units	Pre-requisites	Co-requisites	
		Lec	Lab	Total				
ES	102	Environmental Science	3	0	3	3	None	None
PDHR	421	Personality Development and Human Relations	3	0	3	3	None	None
EMT	411	Process Automation 1 (Instrumentation)	2	3	5	3	EMT 221, ESM 21	None
EMT	412	Training and Assessment Methodology	3	0	3	3	None	None
EMT	413	Occupational Safety and Health	3	0	3	3	None	None
EMT	414	Technopreneurship	3	0	3	3	EMT 322, EMT 324	None
EMT	415	Research and Project Development 1	3	0	3	3	EMT 322, EMT 324	None
			Total		23	21		

Second Semester

Course Code	Description	No. of Hours			Units	Pre-requisites	Co-requisites	
		Lec	Lab	Total				
EMT	421	Process Automation 2 (Control)	2	3	5	3	EMT 411	None
EMT	422	Industrial Management and Quality Assurance	3	0	3	3	None	None
EMT	423	Business Continuity Map	3	0	3	3	None	None
EMT	424	Cleanroom Technology	3	0	3	3	None	None
EMT	425	International Educational Tour	3	0	3	1	None	None
EMT	426	Research and Project Development 2	3	0	3	3	EMT 415	None
			Total		20	16		