



University of Science and Technology of Southern Philippines
College of Information Technology and Computing
 Department of Information Technology and Computing

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING
 EFFECTIVE S.Y. 2018-2019

FIRST YEAR								
<i>First Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
ME	111	Introduction to Mechanical Engineering	1	3	4	2	None	None
Math	111	Calculus 1	3	0	3	3	None	None
Chem	111	Chemistry for Engineers	3	3	6	4	None	None
ES	100	Engineering Drawing	0	3	3	1	None	None
Math	101	Mathematics in Modern World	3	0	3	3	None	None
SS	103	Contemporary World	3	0	3	3	None	None
Eng	102	Arts Appreciation	3	0	3	3	None	None
PE	101	Physical Education 1	2	0	2	2	None	None
NSTP	101	National Service Training Program 1 (ROTC/CWTS/LTS 1)	3	0	3	3	None	None
Total			21	9	30	24		

FIRST YEAR								
<i>Second Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
ME	121	Workshop Theory & Practice	0	3	3	1	None	None
Math	112	Calculus 2	3	0	3	3	Math 111	None
Phys	120	Physics for Engineers	3	3	6	4	Math 111	Math 112
Math	102	Mathematics of Measurement	3	0	3	3	None	None
ES	105	Computer Aided Drafting	0	3	3	1	ES 100	None
SS	104	Ethics	3	0	3	3	None	None
Eng	101	Purposive Communication	3	0	3	3	None	None
ES	101	Science Technology & Society	3	0	3	3	None	None
PE	102	Physical Education 2	2	0	2	2	PE 101	None
NSTP	201	National Service Training Program 2 (ROTC/CWTS/LTS 2)	3	0	3	3	NSTP 101	None
Total			23	9	32	26		



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SECOND YEAR								
<i>First Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
ME	211	Thermodynamics 1	3	0	3	3	Phys 120 & Math 112	None
ME	212	Machine Shop Theory	0	6	6	2	ME 121	None
ES	208	Differential Equations	3	0	3	3	Math 112	None
ES	202	Statics of Rigid Bodies	3	0	3	3	Phys 120 & Math 112	None
EE	210	Basic Electrical Engineering	2	3	5	3	Phys 120 & Math 112	None
ES	209	Engineering Data Analysis	3	0	3	3	Math 112	None
ES	102	Readings in the Philippines	3	0	3	3	2 nd Year Standing	None
Fil	101	Filipino	3	0	3	3	None	None
PE	103	Physical Education 3	2	0	2	2	PE 102	None
Total			22	9	31	25		

SECOND YEAR								
<i>Second Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
ME	221	Fluid Mechanics	3	0	3	3	ME 211	None
ME	222	Thermodynamics 2	3	0	3	3	ME 211	None
ME	223	Advanced Mathematics for ME	3	0	3	3	ES 208	None
ME	224	Materials Science & Engineering for ME	2	3	5	3	Chem 111 & Phys 120	None
ES	203	Dynamics of Rigid Bodies	2	0	2	2	ES 202	None
EE	220	AC & DC Machinery	2	3	5	3	ES 210	None
SS	101	Understanding the Self	3	0	3	3	None	None
Fil	102	Filipino 2	3	0	3	3	Fil 101	None
PE	104	Physical Education 4	2	0	2	2	PE 103	None
Total			23	6	29	25		



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THIRD YEAR								
First Semester								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
ME	311	Heat Transfer	3	0	3	3	ME 221, ME 222 & ME 223	None
ME	312	Combustion Engineering	2	0	2	2	ME 222	None
ME	313	Machine Elements 1	1	3	4	2	ES 203	None
ME	314	Introduction to Energy Engineering	2	0	2	2	3 rd Year Standing	None
ME	315	Numerical Methods for ME	1	3	2	2	ME 223	None
ES	206	Fundamentals of Deformable Bodies	3	0	3	3	ES 202	None
ES	301	Engineering Economics	3	0	3	3	Math 112	None
ECE	320	Basic Electronics	2	3	5	3	EE 210	None
ES	106	Computer Fundamentals and Programming	1	3	4	2	3 rd Year Standing	None
SS	105	Life & Works of Rizal	3	0	3	3	None	None
Total			21	12	31	25		

THIRD YEAR								
Second Semester								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
ME	321	ME Laboratory 1	0	3	3	1	ME 222	None
ME	322	Refrigeration Systems	3	0	3	3	ME 311	None
ME	323	Fluid Machineries	3	0	3	3	ME 221	None
ME	324	Machine Elements 2	1	3	4	2	ME 313	None
ME	325	Mechanical Engineering Elective 1	2	0	2	2	3 rd Year Standing	None
ME	326	Methods of Research for ME	2	0	2	2	ES 209/ Eng 101	None
ES	403	Basic Occupational Safety & Health	3	0	3	3	3 rd Year Standing	None
ES	302	Technopreneurship	2	3	5	3	ES 301	None
ME	327	Control Engineering	2	3	5	3	ECE 320	None
Total			18	12	30	22		

THIRD YEAR								
Summer								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
ME	331	On the Job Training (Minimum of 260 hrs)	3	0	3	3	3 rd Year Standing	None
Total			3	0	3	3		



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FOURTH YEAR								
First Semester								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
ME	411	ME Project Study 1	0	3	3	1	ME 326	ME 413, ME 414 & ME 416
ME	412	ME Laboratory 2	0	6	6	2	ME 321 & ME 323	None
ME	413	Air Conditioning & Ventilation Systems	2	3	5	3	ME 322	None
ME	414	Machine Design 1	3	3	6	4	ME 324 & ES 206	None
ME	415	Mechanical Engineering Elective 2	2	0	2	2	ME 325	None
ME	416	Power Plant Engineering w/ Renewal Energy	3	3	6	4	ME 312	None
ME	417	Computer Applications for ME	0	3	3	1	ES 106	None
ME	418	Vibration Engineering	2	0	2	2	ES 208	None
Total			12	21	19	19		

FOURTH YEAR								
Second Semester								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
ME	421	ME Laws, Ethics, Contracts, Codes & Standards	2	0	2	2	4 th Year Standing	None
ME	422	ME Project Study 2	0	3	3	1	ME 411	ME 425, ME427
ME	423	ME Laboratory 3	0	6	6	2	ME 412 & ME 416	None
ME	424	Manufacturing & Industrial Processes w/ Plant Visits	1	0	1	1	4 th Year Standing	None
ME	425	Machine Design 2	3	3	6	4	ME 414	None
ME	426	Mechanical; Engineering Elective 3	2	0	2	2	ME 415	None
ME	427	Industrial Plant Engineering	3	3	6	4	ME 413	ME 424
ES	303	Engineering Management	2	0	2	2	4 th Year Standing	None
Total			13	15	28	18		