

Ateneo de Davao University
 School of Engineering and Architecture
 Curriculum Effective 2019 - 2020
BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Course#	Description	Units		Prof	Pre-requisites
		Pay	Credit		
1st Year, 1st Semester					
ASF 1102	NATIONAL SERVICE TRAINING PROGRAM - CIVIC WELFARE	0.0	3.0		
ASF 1000	ARRUPE SOCIAL FORMATION 0	2.0	2.0		
ASF 1101	ARRUPE SOCIAL FORMATION 1	2.0	2.0		
GE 1106	PURPOSIVE COMMUNICATION	3.0	3.0		
PE 1114	PATH-FIT I	2.0	2.0		
GE 1212	SCIENCE, TECHNOLOGY AND SOCIETY	3.0	3.0		
Chem 1035	CHEMISTRY FOR ENGINEERS LEC	3.0	3.0		
Chem 1036	CHEMISTRY FOR ENGINEERS LAB	3.0	1.0		
ESM 1030	ENGINEERING CALCULUS 1 (DIFFERENTIAL CALCULUS)	5.0	5.0		
ESM 1033	ENGINEERING DRAWING	3.0	1.0		
Philo 1000	PHILOSOPHY	3.0	3.0		
ESM 1000	FUNDAMENTALS OF ENGINEERING MATHEMATICS	3.0	0.0		
Total Number of Units			28.0		
1st Year, 2nd Semester					
ME 1130	MECHANICAL ENGINEERING ORIENTATION	1.0	1.0		
Theo 1000	THEOLOGY	3.0	3.0		
ESM 1031	ENGINEERING CALCULUS 2 (INTEGRAL CALCULUS)	5.0	5.0		ESM 1030
ASF 1203	NATIONAL SERVICE TRAINING PROGRAM - CIVIC WELFARE	0.0	3.0		ASF 1102
PE 1215	PATH-FIT II	2.0	2.0		PE 1114
ESM 2036	COMPUTER-AIDED DRAFTING	3.0	1.0		ESM 1033
PHYS 1261	PHYSICS FOR ENGINEERS LEC	3.0	3.0		ESM 1030
PHYS 1262	PHYSICS FOR ENGINEERS LAB	6.0	2.0		ESM 1030
GE 1210	READINGS IN PHILIPPINE HISTORY	3.0	3.0		
GE 1211	THE CONTEMPORARY WORLD	3.0	3.0		
Total Number of Units			26.0		
2nd Year, 1st Semester					
GE 1107	ART APPRECIATION	3.0	3.0		
GE 1108	MATHEMATICS IN THE MODERN WORLD	3.0	3.0		
GE 1109	ETHICS	3.0	3.0		
EE 2165	FUNDAMENTALS OF ELECTRICAL CIRCUITS LEC	3.0	3.0		ESM 1031, PHYS 1261, PHYS 1262
EE 2166	FUNDAMENTALS OF ELECTRICAL CIRCUITS LAB	3.0	1.0		ESM 1031, PHYS 1261, PHYS 1262
ESM 2040	STATICS OF RIGID BODIES	3.0	3.0		ESM 1031, PHYS 1261, PHYS 1262
ESM 2034	DIFFERENTIAL EQUATIONS	3.0	3.0		ESM 1031
ESM 2035	ENGINEERING DATA ANALYSIS	3.0	3.0		ESM 1031
ME 2132	WORKSHOP THEORY AND PRACTICE	3.0	1.0		ESM 2036
ME 2131	THERMODYNAMICS 1	3.0	3.0		ESM 1031, PHYS 1261, PHYS 1262
PE 2116	PATH-FIT III	2.0	2.0		PE 1114
Total Number of Units			28.0		
2nd Year, 2nd Semester					
ECE 2262	FUNDAMENTALS OF ELECTRONIC CIRCUITS LEC	3.0	3.0		EE 2165, EE 2166
ECE 2263	FUNDAMENTALS OF ELECTRONIC CIRCUITS LAB	3.0	1.0		EE 2165, EE 2166
GE 3118	ELECTIVE 1	0.0	3.0		
ME 2233	FLUID MECHANICS FOR ME	3.0	3.0		ESM 2040, ME 2131
ME 2234	THERMODYNAMICS 2	3.0	3.0		ME 2131
ME 2235	ADVANCED MATHEMATICS FOR ME	3.0	3.0		ESM 2034
ME 2236	MACHINE SHOP THEORY AND PRACTICE	6.0	2.0		ME 2132
PE 2217	PATH-FIT IV	2.0	2.0		PE 1114
ESM 2042	DYNAMICS OF RIGID BODIES	2.0	2.0		ESM 2040

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GE 1105	UNDERSTANDING THE SELF	3.0	3.0		
GE 1213	LIFE AND WORKS OF RIZAL	3.0	3.0		
Total Number of Units			28.0		
3rd Year, 1st Semester					
ESM 3043	ENGINEERING ECONOMICS	3.0	3.0		ESM 1031
TECH 1001	TECHNOPRENEURSHIP 101	3.0	3.0		
CPE 2171	COMPUTER FUNDAMENTALS & PROGRAMMING	3.0	1.0		
ME 3137	HEAT TRANSFER	3.0	3.0		ESM 2034, ME 2233, ME 2234
ME 3138	VIBRATION ENGINEERING	2.0	2.0		ESM 2034, ESM 2042
ME 3139	DC AND AC MACHINERY LEC	3.0	3.0		EE 2165, EE 2166
ME 3140	DC AND AC MACHINERY LAB	3.0	1.0		EE 2165, EE 2166
ME 3141	MECHANICS OF DEFORMABLE BODIES FOR ME	5.0	5.0		ESM 2042
GE 3219	GE ELECTIVE II	0.0	3.0		
CHE 3137	ENVIRONMENTAL SCIENCE & ENGINEERING	3.0	3.0		Chem 1035, Chem 1036
Total Number of Units			27.0		
3rd Year, 2nd Semester					
ME 3247	COMPUTER APPLICATIONS FOR ME	0.0	2.0		CPE 2171, ME 3137, ME 3141
ME 3265	NUMERICAL METHODS FOR ME	0.0	4.0		
ESM 3044	BASIC OCCUPATIONAL SAFETY AND HEALTH	0.0	3.0		
ME 3242	FLUID MACHINERY	0.0	3.0		ME 2233
ME 3243	COMBUSTION ENGINEERING	0.0	2.0		Chem 1035, Chem 1036, ME 3137
ME 3244	ME LABORATORY 1	0.0	1.0		ME 2233, ME 2234
ME 3245	MATERIAL SCIENCE & ENGINEERING FOR ME	0.0	3.0		Chem 1035, Chem 1036, ME 3141
ME 3246	METHODS OF RESEARCH FOR ME	0.0	1.0		GE 1108, ESM 2035, TECH 1001
ME 3248	REFRIGERATION SYSTEMS	0.0	3.0		ME 3137
ME 3249	MACHINE ELEMENTS	0.0	3.0		ESM 2042
GE 4120	ELECTIVE 3	3.0	3.0		
Total Number of Units			28.0		
3rd Year, Summer					
ME 3366	OJT/INDUSTRY PRACTICE	0.0	2.0		ME 3242, ME 3243, ME 3248, ME 3249, ME 3247, ESM 3044
Total Number of Units			2.0		
4th Year, 1st Semester					
ME 4156	CONTROL ENGINEERING LEC	0.0	2.0		ECE 2262, ECE 2263, ME 2235
ME 4157	CONTROL ENGINEERING LAB	0.0	1.0		ECE 2262, ECE 2263, ME 2235
ME 4166	ME ELECTIVE 2	0.0	3.0		
ME 4150	ME ELECTIVE 1	0.0	3.0		
ME 4151	ME PROJECT STUDY 1	0.0	1.0		ME 3246, ME 3366
ME 4152	AIR CONDITIONING AND VENTILATION SYSTEMS	0.0	3.0		ME 3242, ME 3248
ME 4153	ME LABORATORY 2	0.0	2.0		ME 3242, ME 3243, ME 3244
ME 4154	POWER PLANT DESIGN WITH RENEWABLE ENERGY	0.0	4.0		ME 3242, ME 3243
ME 4155	MACHINE DESIGN 1	0.0	3.0		ME 3245, ME 3249, ME 3247
Total Number of Units			22.0		
4th Year, 2nd Semester					
ME 4258	ME PROJECT STUDY 2	0.0	1.0		ME 4151
ME 4259	INDUSTRIAL PLANT ENGINEERING	0.0	4.0		ME 4152, ME 3366
ME 4260	ME LABORATORY 3	0.0	2.0		ME 4152, ME 4153, ME 4154

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ME 4261	ME LAWS, ETHICS, CODES & STANDARDS	0.0	2.0		GE 1109
ME 4262	MACHINE DESIGN 2	0.0	3.0		ME 4155
ME 4263	PLANT VISIT	0.0	1.0		ME 3366
ME 4264	MANUFACTURING & INDUSTRIAL PROCESSES	0.0	2.0		ME 3366
ME 4267	ME ELECTIVE 3	0.0	3.0		ME 4150
ME 4268	ME ELECTIVE 4	0.0	3.0		
ESM 3045	ENGINEERING MANAGEMENT	2.0	2.0		
ASF 4204	SENIORS' INTEGRATION PROGRAM	0.0	2.0		
Total Number of Units			<u>25.0</u>		