



COLLEGE OF ENGINEERING
Bachelor of Science in Mechanical Engineering
2019 Curriculum

Reference: CMO No.97 series of 2017, PSG for the Bachelor of Science in Mechanical Engineering

FIRST YEAR - First Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
Chem 1	General Chemistry	3	3	4		
Drawing 1	Engineering Drawing	0	3	1		
FEMA 1	Fundamental Engineering Mathematics I	3	0	3		MTN 4, FEMA 2
FEMA 2	Fundamental Engineering Mathematics II	3	0	3		MTN 4, FEMA 1
GEC 4	Mathematics in the Modern World	3	0	3		
GEC 7	Science, Technology and Society	3	0	3		
ME 110	Mechanical Engineering Orientation	1	0	1		
MTN 4	Calculus I	3	0	3		FEMA 1, FEMA 2
PEN 1	Fitness and Recreational Outdoor Activity	2	0	2		
NSTP 1	National Service Training Program I	3	0	3		
	Sub total	24	6	26		
FIRST YEAR - Second Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
Chem 1a	Chemistry for Engineers	3	3	4	Chem1	
ECN 1a	Computer Fundamentals and Programming	0	3	1		
GEC 1	Understanding the Self	3	0	3		
GEC 3a	The Contemporary World (Peace Education)	3	0	3		
MTN 5	Calculus II	3	0	3	MTN 4, FEMA 1, FEMA 2	
Phys 1a	Physics for Engineers I	3	3	4	MTN 4, FEMA 1, FEMA 2	MTN 5
Phys 1b	Physics for Engineers II	2	3	3	MTN 4, FEMA 1, FEMA 2	MTN 5, Phys 1a
PEN 2	Philippine Folk Dances	2	0	2	PEN 1	
NSTP 2	National Service Training Program II	3	0	3	NSTP 1	
	Sub total	22	12	26		
FIRST YEAR - Mid Year						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
GEC 8	Ethics	3	0	3		
GEE 7	Gender and Society	3	0	3		
GEM	Life and Works of Rizal	3	0	3		
	Sub total	9	0	9		
SECOND YEAR - First Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
ACM 01	Basic Electrical Engineering	2	3	3	Phys 1b, MTN 5	
BES 01	Computer Aided Drafting	0	3	1	Drawing 1	
EDA 101	Engineering Data Analysis	3	0	3	MTN4	
FILN 1	Kontekstwalisadong Komunikasyon sa Filipino	3	0	3		
GEC 5	Purposive Communication	3	0	3		
ME 211	Thermodynamics I	4	0	4	Phys 1a, MTN 5	
ME 217	Workshop Theory and Practice	0	3	1		
Mech 1	Statics of Rigid Bodies	3	0	3	Phys 1a, MTN 5	
MTN 6	Differential Equations	3	0	3	MTN 5	
PEN 3	Individual and Dual Sports	2	0	2	PEN 1	
	Sub total	23	9	26		
SECOND YEAR - Second Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
ACM 02	Basic Electronics	2	3	3	ACM 01	
BES 02	Engineering Economics	3	0	3	EDA 101	
BES 03	Engineering Management	2	0	2		
FILN 2	Sosyedad at Literatura/Panitikang Panlipunan	3	0	3		
GEE 13	Environmental Science and Engineering	2	0	2	Chem 1a	
ME 221	Thermodynamics II	4	0	4	ME 211	
ME 225	Advance Mathematics for ME	3	0	3	MTN 6	
ME 227	Machine Shop Theory	0	6	2	ME 217	
Mech 2	Dynamics of Rigid Bodies	2	0	2	Mech 1	
PEN 4	Team Sports	2	0	2	PEN 1	
	Sub total	23	9	26		

THIRD YEAR - First Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
ACM 03	DC and AC Machinery	2	3	3	ACM 01	
BES 04	Technopreneurship 101	3	0	3		
FILN 3	SineSosyedad/Pelikulang Panlipunan	3	0	3	FILN 2	
GEC 2a	Reading in Philippine History (IP Education)	3	0	3		
GEE 2	People and the Earth's Ecosystem	3	0	3		
ME 312	Heat Transfer	2	0	2	ME 221	
ME 314	Fluid Mechanics	3	0	3	ME 211	
ME 315	Computer Applications for ME	0	3	1	BES 01	
ME 316	Vibration Engineering	2	0	2	MTN 6, 3rd Year Standing	
Mech 3a	Mechanics of Deformable Bodies	3	0	3	Mech 2	
	Sub total	24	6	26		

THIRD YEAR - Second Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
GEC 6	Arts Appreciation	3	0	3		
ME 320	Mechanical Engineering Elective I	2	0	2	3rd Year Standing	
ME 321	Combustion Engineering	2	0	2	ME 221	
ME 322	Refrigeration Systems	3	0	3	ME 312	
ME 323	Materials Science & Engineering for ME	2	3	3	Mech 3a, Chem 1a	
ME 324	Fluid Machinery	3	0	3	ME 314	
ME 327	Machine Elements	3	3	4	Mech 2	
ME 328	Mechanical Engineering Lab I	0	3	1	ME 221	
ME 329	Methods of Research for M.E.	3	0	3	EDA 101, 3rd Year	
	Sub total	21	9	24		

THIRD YEAR - Mid Year					
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite
		Lec	Lab		
OJT-ME	On-the-Job Training (280 hours)	3	280 hrs	3	4th Year Standing, ME 322, ME 324
	Sub total	3	0	3	

FOURTH YEAR - First Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
ME 410	Mechanical Engineering Elective II	2	0	2	ME 320	
ME 411	Power Plant Design with Renewable Energy	3	3	4	ME 321	
ME 412	Airconditioning and Ventilation Systems	3	0	3	ME 322	
ME 416	Control Engineering	2	0	2	ACM 02	
ME 416L	Control Engineering Laboratory	0	3	1		ME 416
ME 417	Machine Design I	3	3	4	ME 327	
ME 418	Mechanical Engineering Lab II	0	6	2	ME 324	
ME 419	ME Project Study I	0	3	1	ME 329	
MEST 1	Special Topics in Engineering Mathematics	3	0	3	4th Year Standing	
	Sub total	16	18	22		

FOURTH YEAR - Second Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
ME 420	ME Laws, Ethics, Contracts, Codes & Standards	2	0	2	GEC 8	
ME 422	Industrial Plant Engineering	3	3	4	ME 412	
ME 424	Basic Occupational Safety and Health	3	0	3	4th Year Standing	
ME 423	Manufacturing & Industrial Processes with Plant Visits	2	3	3	ME 323	
ME 427	Machine Design II	2	3	3	ME 417	
ME 428	Mechanical Engineering Lab III	0	6	2	ME 418, ME 411	
ME 429	ME Project Study II	0	3	1	ME 419	
MEST 2	Special Topics in Mechanical Engineering	4	0	4	Graduating Standing	
	Sub total	16	18	22		

Total Units = 210

*The nth Year Standing means that the student shall have completed atleast 75% of the load requirements of the previous year level
*Pre-requisite subjects with a grade of INC must be completed first before taking the succeeding subject

Prepared by:

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