Republic of the Philippines

PRESIDENT RAMON MAGSAYSAY STATE UNIVERSITY

Iba, Zambales

COLLEGE OF ENGINEERING

Bachelor of Science in Mechanical Engineering

Non-Track Curriculum for AY 2018-2019

Reference: CMO No.97 series of 2017, PSG for the Bachelor of Science in Mechanical Engineering 2018

FIRST YEAR - First Semester						
Course Code	**Descriptive Title**	**Hour/s**		**Credit/s**	**Pre-requisite**	**Co-requisite**
		Lec	**Lab**			
BRG1E	General Chemistry	3	3	4		
BRG2E	Introduction to Calculus	4	3	5		
ME 101	Mechanical Engineering Orientation	1	0	1		
Drawing 1	Engineering Drawing	0	3	1		
GEC1	Understanding the Self	3	0	3		
GEC4	Mathematics in the Modern World	3	0	3		
GEC5	Purposive Communication (English for	3	0	3		
PEN1	Fitness and Recreational Outdoor Activity	2	0	2		
NSTP 1	National Service Training Program I	3	0	3		
	Sub total	**22**	**9**	**25**		

FIRST YEAR - Second Semester						
Course Code	**Descriptive Title**	**Hour/s**		**Credit/s**	**Pre-requisite**	**Co-requisite**
		Lec	**Lab**			
GEC3	The Contemporary World	3	0	3		
BES 01	Computer Aided Drafting	0	3	1	Drawing 1	
BRG3E	General Physics	5	3	6		
MTN4	Calculus I	3	0	3	BRG2E	
GEC2	Reading in Philippine History	3	0	3		
GEM	Life and Works of Rizal	3	0	3		
GEC7	Science, Technology and Society	3	0	3		
PEN2	Philippine Folk Dances	2	0	2	PEN 1	
NSTP 2	National Service Training Program II	3	0	3	NSTP 1	
	Sub total	**25**	**6**	**27**		

FIRST YEAR - Mid Year						
Course Code	**Descriptive Title**	**Hour/s**		**Credit/s**	**Pre-requisite**	**Co-requisite**
		Lec	**Lab**			
MTN5	Calculus II	3	0	3	MTN4	
Phys 1a	Physics for Engineers	3	3	4	BRG3E, MTN4	MTN5
	Sub total	**6**	**3**	**7**		

SECOND YEAR - First Semester						
Course Code	**Descriptive Title**	**Hour/s**		**Credit/s**	**Pre-requisite**	**Co-requisite**
		Lec	**Lab**			
FME 211	Thermodynamics I	4	0	4	Phys 1a, MTN5	
ACM 01	Basic Electrical Engineering	2	3	3	Phys 1a, MTN5	
Mech 1	Statics of Rigid Bodies	3	0	3	Phys 1a, MTN5	
MTN6	Differential Equations	3	0	3	MTN5	
ECN 1a	Computer Fundamentals and Programming	0	3	1		
EDA 101	Engineering Data Analysis	3	0	3	MTN5	
PEN3	Individual and Dual Sports	2	0	2	PEN 1	
FME 212	Workshop Theory and Practice	0	3	1		
FILN1	Kontekstwalisadong Komunikasyon sa Filipino	3	0	3		
	Sub total	**20**	**9**	**23**		

SECOND YEAR - Second Semester						
Course Code	**Descriptive Title**	**Hour/s**		**Credit/s**	**Pre-requisite**	**Co-requisite**
		Lec	**Lab**			
Chem 1a	Chemistry for Engineers (lec)	3	0	3	BRG1E	
Chem 1aL	Chemistry for Engineers (lab)	0	3	1		Chem 1a
FME 223	Advance Mathematics for ME	3	0	3	MTN6	
BES 03	Engineering Management	2	0	2		
FME 221	Thermodynamics II	4	0	4	FME 211	
ACM 02	Basic Electronics	2	3	3	ACM 01	
Mech 2	Dynamics of Rigid Bodies	2	0	2	Mech 1	
BES 02	Engineering Economics	3	0	3	EDA 101	
PEN4	Team Sports	2	0	2	PEN 1	
FILN2	Sosyedad at Literatura/Panitikang Panlipunan	3	0	3	FILN1	
	Sub total	**24**	**6**	**26**		

SECOND YEAR - Mid Year						
Course Code	**Descriptive Title**	**Hour/s**		**Credit/s**	**Pre-requisite**	**Co-requisite**
		Lec	**Lab**			
FME 222	Machine Shop Theory	0	6	2	FME 212	
	Sub total	**0**	**6**	**2**		

THIRD YEAR - First Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
Mech 3a	Mechanics of Deformable Bodies	3	0	3	Mech 2	
FILN3	SineSosyedad/Pelikulang Panlipunan	3	0	3	FILN1	
AC 03	DC and AC Machinery	2	3	3	ACM 01	
FME 312	Heat Transfer	2	0	2	FME 221	
FME 311	Fluid Mechanics	3	0	3	FME 221	
FME 313	Machine Elements	2	3	3	Mech 2	
FME 314	Vibration Engineering	2	0	2	MTN6, 3rd Year Standing	
GEE 13	Environmental Science and Engineering	2	0	2	Chem 1a	
FME 315	Computer Applications for ME	0	3	1	BES 01	
EC 1	Mechanical Engineering Elective I	2	0	2	3rd Year Standing	
	Sub total	**21**	**9**	**24**		

THIRD YEAR - Second Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
FME 329	Methods of Research for M.E.	3	0	3	EDA 101, 3rd Year Standing	
FME 322	Refrigeration Systems	3	0	3	FME 312	
FME 321	Fluid Machinery	3	0	3	FME 311	
FME 323	Combustion Engineering	2	0	2	FME 221	
FME 324	Materials Science & Engineering for ME	2	3	3	Mech 3a, Chem 1a	
FME 325	Mechanical Engineering Lab I	0	3	1	FME 221	
GEE7	Gender and Society	3	0	3		
FME 326	Control Engineering	3	0	3	ACM 02	
FME 326L	Control Engineering Laboratory	0	3	1		FME 326
EC 2	Mechanical Engineering Elective II	2	0	2	EC 1	
	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, FME 322, FME 321	
	Sub total	**3**	**0**	**3**		

FOURTH YEAR - First Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
PME 419	ME Project Study I	0	3	1	FME 329	
FME 412	Airconditioning and Ventilation Systems	3	0	3	FME 322	
PME 413	Power Plant Design with Renewable Energy	3	3	4	FME 323	
PME 411	Machine Design I	3	3	4	FME 313	
FME 415	Mechanical Engineering Lab II	0	6	2	FME 321	
FME 414	Manufacturing & Industrial Processes with Plant Visits	2	3	3	FME 324	
GEC8	Ethics	3	0	3		
MER 1	ME Course Audit I with Comprehensive Examination	0	6	2	4th Year Standing	
	Sub total	**14**	**24**	**22**		

FOURTH YEAR - Second Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
PME 422	Industrial Plant Engineering	3	3	4	FME 412	
PME 429	ME Project Study II	0	3	1	PME 419	
PME 421	Machine Design II	2	3	3	PME 411	
PME 425	Mechanical Engineering Lab III	0	6	2	FME 415	
FME 420	Basic Occupational Safety and Health	3	0	3	4th Year Standing	
PME 427	ME Laws, Ethics, Contracts, Codes & Standards	2	0	2	GEC8	
MER 2	ME Course Audit II with Comprehensive Examination	0	6	2	Graduating Standing	
GEC6	Arts Appreciation	3	0	3		
BES 04	Technopreneurship 101	3	0	3	4th Year Standing	
	Sub total	**16**	**21**	**23**		

Total Units = **206**

***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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