



Republic of the Philippines  
**PRESIDENT RAMON MAGSAYSAY STATE UNIVERSITY**  
 Main Campus – Iba, Zambales  
**COLLEGE OF ENGINEERING**



**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING**  
 (Revised based from CMO No. 97, s. 2017)

FIRST YEAR – 1 <sup>ST</sup> SEMESTER					
Course Code	Course Title	Hours		Units	Pre-requisite
		Lecture	Laboratory		
GEC 1	Understanding the Self	3	0	3	
GEC 3A	The Contemporary World (with Peace Education)	3	0	3	
GEE 15	ASEAN Culture and Studies	3	0	3	
EN +	Enhanced Communication Skills	3	0	3	
DRAWING 1	Engineering Drawing	0	3	1	
FEMA	Fundamental Engineering Mathematics	4	0	4	C – MTN 4
ME 01	Mechanical Engineering Orientation	1	0	1	
MTN 4	Calculus I	3	0	3	C – FEMA
PE 1	Physical Activities Towards Health and Fitness 1 (PATHFit 1) Movement Competency Training	2	0	2	
NSTP 1	National Service Training Program I (CWTS/ROTC)	3	0	3	
<b>Total</b>		<b>26</b>			

FIRST YEAR – 2 <sup>ND</sup> SEMESTER					
Course Code	Course Title	Hours		Units	Pre-requisite
		Lecture	Laboratory		
GEC 4	Mathematics in the Modern World	3	0	3	
GEC 5	Purposive Communication	3	0	3	EN +
CHEM 1A	Chemistry for Engineers	3	3	4	
ECN 1A	Computer Fundamentals and Programming	0	3	1	
MTN 5	Calculus II	3	0	3	MTN 4, FEMA
PHYS 121	Physics for Engineers I	3	3	4	MTN 4, FEMA C – MTN 5
PHYS 122	Physics for Engineers II	1	3	2	MTN 4, FEMA C – MTN 5, PHYS 121
PE 2	Physical Activities Towards Health and Fitness 2 (PATHFit 2) Exercise-based Fitness Activities	2	0	2	PE 1
NSTP 2	National Service Training Program II (CWTS/ROTC)	3	0	3	NSTP 1
<b>Total</b>		<b>25</b>			

SECOND YEAR – 1 <sup>ST</sup> SEMESTER					
Course Code	Course Title	Hours		Units	Pre-requisite
		Lecture	Laboratory		
GEC 7	Science, Technology and Society	3	0	3	
GEE 7	Gender and Society	3	0	3	
ACM 01	Basic Electrical Engineering	2	3	3	MTN 5, PHYS 122
BES 01	Computer Aided Drafting	0	3	1	DRAWING 1
EDA 101	Engineering Data Analysis	3	0	3	MTN 4 C – MTN 5
ME 11	Thermodynamics I	4	0	4	MTN 5, PHYS 121
ME 71	Workshop Theory and Practice	0	3	1	
MECH 1	Statics of Rigid Bodies	3	0	3	MTN 5, PHYS 121
MTN 6	Differential Equations	3	0	3	MTN 5
PE 3	Physical Activities Towards Health and Fitness 3 (PATHFit 3) Sports (Individual/Dual Sports)	2	0	2	PE 2
<b>Total</b>		<b>26</b>			



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SECOND YEAR – 2 <sup>ND</sup> SEMESTER					
Course Code	Course Title	Hours		Units	Pre-requisite
		Lecture	Laboratory		
FILN 1	Kontekstwalisadong Komunikasyon sa Filipino	3	0	3	
GEE 13A	Environmental Science and Engineering	3	0	3	CHEM 1A
ACM 02	Basic Electronics	2	3	3	ACM 01
BES 02	Engineering Economics	3	0	3	EDA 101
ME 12	Thermodynamics II	3	0	3	ME 11
ME 51	Advance Mathematics for ME	3	0	3	MTN 6
ME 72	Machine Shop Theory	0	6	2	ME 71
MECH 2	Dynamics of Rigid Bodies	2	0	2	MECH 1
MEST 1A	Special Topics in Engineering Mathematics	0	3	1	C – ME 51, BES 02
PE 4	Physical Activities Towards Health and Fitness 4 (PATHFit 4) Sports (Team Sports)	2	0	2	PE 3
<b>Total</b>		<b>25</b>			

SECOND YEAR – MIDYEAR					
Course Code	Course Title	Hours		Units	Pre-requisite
		Lecture	Laboratory		
ME 73	Machine Elements	2	3	3	MECH 2
MECH 3A	Mechanics of Deformable Bodies	3	0	3	MECH 2
<b>Total</b>		<b>6</b>			

THIRD YEAR – 1 <sup>ST</sup> SEMESTER					
Course Code	Course Title	Hours		Units	Pre-requisite
		Lecture	Laboratory		
GEM	Life and Works of Rizal	3	0	3	
EN 1	Scientific and Technical Writing	3	0	3	GEC 5
ACM 03	DC and AC Machinery	2	3	3	ACM 01
BES 04	Technopreneurship 101	3	0	3	
ME 21	Heat Transfer	2	0	2	ME 12
ME 31	Materials Science & Engineering for ME	2	3	3	MECH 3A, CHEM 1A
ME 41	Fluid Mechanics	3	0	3	ME 11
ME 52	Computer Applications for ME	0	6	2	BES 01
ME 61	Vibration Engineering	2	0	2	MTN 6, 3rd Year Standing
<b>Total</b>		<b>24</b>			

THIRD YEAR – 2 <sup>ND</sup> SEMESTER					
Course Code	Course Title	Hours		Units	Pre-requisite
		Lecture	Laboratory		
GEC 2a	Readings in the Philippine History (with IP Education)	3	0	3	
GEC 8	Ethics	3	0	3	
BES 03	Engineering Management	2	0	2	
ME 02	Mechanical Engineering Elective I	2	0	2	3rd Year Standing
ME 13	Combustion Engineering	2	0	2	ME 12
ME 22	Refrigeration Systems	3	0	3	ME 21
ME 42	Fluid Machinery	3	0	3	ME 41
ME 74	Machine Design I	3	0	3	ME 73
ME 81	Mechanical Engineering Lab I	0	3	1	ME 12
ME 91	Methods of Research for M.E.	2	0	2	EN 1, EDA 101, 3rd Year Standing
<b>Total</b>		<b>24</b>			



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THIRD YEAR – MIDYEAR					
Course Code	Course Title	Hours		Units	Pre-requisite
		Lecture	Laboratory		
OJT-ME	On-the-Job Training (280 hours)	0	280	3	ME 22, ME 42, 4th Year Standing
Total		3			

FOURTH YEAR – 1 <sup>ST</sup> SEMESTER					
Course Code	Course Title	Hours		Units	Pre-requisite
		Lecture	Laboratory		
GEC 6	Arts Appreciation	3	0	3	
ME 03	Mechanical Engineering Elective II	2	0	2	ME 02
ME 14	Power Plant Design with Renewable Energy	3	3	4	ME 13
ME 23	Airconditioning and Ventilation Systems	3	0	3	ME 22
ME 62	Control Engineering	2	0	2	ACM 02
ME 62L	Control Engineering Laboratory	0	3	1	C – ME 62
ME 75	Machine Design II	2	3	3	ME 74
ME 82	Mechanical Engineering Lab II	0	6	2	ME 42
ME 92	Capstone Project I	0	3	1	ME 91, 4th Year Standing
Total		21			

FOURTH YEAR – 2 <sup>ND</sup> SEMESTER					
Course Code	Course Title	Hours		Units	Pre-requisite
		Lecture	Laboratory		
ME 04	ME Laws, Ethics, Contracts, Codes & Standards	2	0	2	GEC 8
ME 05	Basic Occupational Safety and Health	3	0	3	4th Year Standing
ME 24	Industrial Plant Engineering	3	3	4	ME 23
ME 32	Manufacturing & Industrial Processes with Plant Visits	1	3	2	ME 31
ME 83	Mechanical Engineering Lab III	0	6	2	ME 82, ME 14
ME 93	Capstone Project II	0	3	1	ME 92, Graduating Standing
MEST 2A	Special Topics in Power and Industrial Plant Engineering	0	3	1	Graduating Standing
MEST 3	Special Topics in Machine Design	0	3	1	Graduating Standing
Total		16			

**TOTAL UNITS: 196**

\* The “nth Year Standing” means that the student shall have completed at least 75% of the load requirements of the previous year level, and the “C” stands for co-requisite subject/s.

\* Prerequisite subjects with a grade of INC must be completed first before taking the succeeding subject.

  
**MARLON JAMES A. DEDICATORIA, RMEE, Ph.D.**  
College Dean