



BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Effective 1st Semester, SY 2023-2024

Per CMO No. 97 s. 2017 and BOT Referendum No. 16, s. 2023

FIRST YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
NS 111	Chemistry for Engineers	3	1	4	None	None
EDR 111	Engineering Drawing	0	1	1	None	None
ME 111	Mechanical Engineering Orientation	1	0	1	None	None
MTW 111	Automotive Practice 1	1	1	2	None	None
EM 110	Fundamentals of Engineering Mathematics	5	0	5	None	None
GE 4	Mathematics in the Modern World	3	0	3	None	None
GE 5	Purposive Communication	3	0	3	None	None
GE 7	Science, Technology and Society	3	0	3	None	None
PE 1	Physical Activities toward Health and Fitness 1 (PATHFit 1): Movement Competency Training	2	0	2	None	None
NSTP 1	National Service Training Program 1 (ROTC, LTS, CWTS)	3	0	3	None	None
TOTAL		24	3	27		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EM 121	Calculus 1 (Differential Calculus)	5	0	5	EM 110	None
GE 3	The Contemporary World	3	0	3	None	None
CAD 1	Computer-Aided Drafting	0	2	2	EDR 111	None
MTW 122	Automotive Practice 2	1	1	2	MTW 111	None
GE 2	Readings in Philippine History	3	0	3	None	None
GE 1	Understanding the Self	3	0	3	None	None
GE 9	The Life and Works of Rizal	3	0	3	None	None
PE 2	Physical Activities toward Health and Fitness 2 (PATHFit 2): Exercise-Based Fitness Activities	2	0	2	PE 1	None
NSTP 2	National Service Training Program 2 (ROTC, LTS, CWTS)	3	0	3	NSTP 1	None
TOTAL		23	3	26		

MIDYEAR TERM		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EM 122	Calculus 2 (Integral Calculus)	5	0	5	EM 121	NS 122
NS 122	Physics for Engineers	3	1	4	EM 111	EM 122
TOTAL		8	1	9		



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SECOND YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EM 213	Differential Equations	3	0	3	EM 122	None
MECH 211	Statics of Rigid Bodies	4	0	4	EM 122 NS 122	None
EEE 211	Basic Electrical Engineering	2	1	3	NS 122, EM 122	None
ME 211	Thermodynamics 1	3	0	3	NS 122, EM 122	None
MTW 213	Workshop Theory and Practice	0	1	1	2 nd Year Standing	None
GE ELECT 1	Environmental Science	3	0	3	None	
ME ELEC 1	ME Elective 1 (Tool and Die Design)	2	0	2	None	None
ME ELEC 2	ME Elective 2 (Mechatronics)	1	2	3	None	None
PE 3	Physical Activities Towards Health and Fitness 3 (PATHFit3): Sports	2	0	2	PE 2	None
TOTAL		20	4	24		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EM 224	Engineering Data Analysis	3	0	3	EM 121	None
MECH 222	Dynamics of Rigid Bodies	2	0	2	MECH 211	None
ECTW 221	Basic Electronics	2	1	3	EEE 211	None
ME 222	Thermodynamics 2	3	0	3	ME 211	None
MTW 224	Machine Shop Theory	0	2	2	MTW 213	None
EM 225	Advanced Engineering Mathematics for ME	3	0	3	EM 213	None
BES 221	Computer Fundamentals and Programming	0	1	1	None	None
GE ELECT 3	Living in IT Era	3	0	3	None	None
MTW 225	Principles of Refrigeration	1	1	2	None	None
PE 4	Physical Activities Towards Health and Fitness 4 (PATHFit4): Dance	2	0	2	PE 3	None
TOTAL		19	5	24		

MIDYEAR TERM		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
GE 6	Art Appreciation	3	0	3	None	None
GE 8	Ethics	3	0	3	None	None
ME 223	Computer Applications for ME	0	1	1	None	None
TOTAL		6	1	7		



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THIRD YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
MECH 313	Mechanics of Deformable Bodies	5	0	5	MECH 211	None
BES 312	Engineering Economics	3	0	3	EM 121	None
EEE 312	DC and AC Machinery	2	1	3	EEE 211	None
ME 310	Methods of Research for ME	2	0	2	EM 224	None
ME 311	Heat Transfer	3	0	3	ME 211	None
ME 312	Fluid Mechanics	3	0	3	ME 211, MECH 222	None
ME 313	Machine Elements	2	1	3	MECH 222	None
ME 314	Vibration Engineering	2	0	2	EM 213	None
MTW 316	Principles of Air-Conditioning	1	1	2	3 rd Year Standing	None
TOTAL		23	3	26		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
ME 321	ME Project Study 1	0	1	1	ME 310	None
ME 322	Refrigeration System	3	0	3	ME 311	None
ME 323	Fluid Machinery	3	0	3	ME 312	None
ME 324	Combustion Engineering	2	0	2	ME 222	None
ME 325	Materials Science and Engineering for ME	2	1	3	MECH 313, NS 111	None
ME 326	ME Laboratory 1	0	1	1	ME 222	None
BES 323	Technopreneurship	3	0	3	None	None
BES 324	Engineering Management	2	0	2	None	None
GE ELECT 2	People and the Earth's Ecosystem	3	0	3	None	None
TOTAL		18	3	21		

MIDYEAR TERM		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
OJT	On-The-Job-Training (360 hours)	0	6	6	4 th Year Standing	None



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FOURTH YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
ME 411	ME Project Study 2	0	1	1	ME 321	None
ME 412	Air Conditioning and Ventilation Systems	3	0	3	ME 322	None
ME 413	Control Engineering	2	0	2	ECTW 221	ME 413A
ME 413A	Control Engineering Laboratory	0	1	1	ME 324	ME 413
ME 414	Power Plant Design with Renewable Energy	3	1	4	ME 324	None
ME 415	Machine Design 1	4	0	4	ME 325	None
ME 416	ME Laboratory 2	0	2	2	ME 311, ME 323, ME 326	None
ER 1	ME Enhancement 1	4	0	4	4 th yr Standing	None
						None
TOTAL		16	5	21		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
ME 421	Industrial Plant Engineering	3	1	4	ME 412	ME 425
ME 423	Machine Design 2	4	0	4	ME 415	None
ME 424	Basic Occupational Safety and Health for ME	3	0	3	4 th yr Standing	None
ME 425	Manufacturing and Industrial Process with Plant Visit	1	1	2	4 th yr Standing	ME 421
ME 426	ME Laboratory 3	0	2	2	ME 412, ME 414, ME 416	None
ME 427	ME Laws, Ethics, Contracts, Codes and Standards	2	0	2	4 th yr Standing	None
ER 2	ME Enhancement 2	4	0	4	4 th yr Standing	None
TOTAL		17	4	21		

SUMMARY OF UNITS PER SEMESTER				
Year	First Semester	Second Semester	Midyear Term	Total Units
First Year	27	26	9	62
Second Year	24	24	7	55
Third Year	26	21	6	53
Fourth Year	21	21		42
			TOTAL	212 units
SUMMARY				
I. General Education Courses				24 units
II. GEC Elective/Mandated Courses				12 units
III. PE 1,2,3 & 4 and NSTP 1& 2				14 units
IV. MAJOR COURSES				63 units
V. PROFESSIONAL COURSES				99 units
TOTAL NO. OF UNITS				212 units

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