



2018 CURRICULUM FOR BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING (BSME)

IMPORTANT : REGISTRATION IN ANY COURSES WITHOUT ALL THE PREREQUISITES, CORRECT SEQUENCE AND AUTHORIZED LOAD SHALL NOT BE GIVEN ANY CREDIT REGARDLESS OF THE GRADE OBTAINED.
EVALUATION IS TENTATIVE AND MAY BE REVISED FOR SOME VALID CAUSES OR REASONS OR IF OMISSIONS AND/OR LACK OF UNITS CREDITED BE DISCOVERED LATER.

		Student's Name and Signature				
COURSE CODE		DESCRIPTIVE TITLE	Lecture Hours Laboratory Hours Credit Units			PREREQUISITE(S)
FIRST YEAR, FIRST SEMESTER (17 UNITS)						
GEC	001	Understanding the Self	3	0	3	
GEC	002	Readings in Philippine History	3	0	3	
CHM	001	Chemistry for Engineers	3	3	4	
AR	001	Engineering Drawing	0	3	1	
MATH	018	Calculus 1	3	0	3	
ME	101	Mechanical Engineering Orientation	1	0	1	
PE	101	Physical Education 1	2	0	2	
NSTP	001	National Service Training Program 1	(3)	0	(3)	
FIRST YEAR, SECOND SEMESTER (22 UNITS)						
GEC	003	The Contemporary World	3	0	3	
GEC	004	Mathematics in the Modern World	3	0	3	
GEM	001	Life and Works of Rizal	3	0	3	
MATH	022A	Linear Algebra with MATLAB	2	3	3	MATH 018
MATH	019	Calculus 2	3	0	3	MATH 018
PHYS	111	Calculus-Based Physics	3	3	4	MATH 019 (C)
ME	102	Computer-Aided Drafting for ME	0	3	1	AR 001
PE	102	Physical Education 2	2	0	2	PE 101
NSTP	002	National Service Training Program 2	(3)	0	(3)	NSTP 001
SECOND YEAR, FIRST SEMESTER (27 UNITS)						
GEC	005	Purposive Communication	3	0	3	
GEC	006	Art Appreciation	3	0	3	
TECH	101	Introduction to Engineering Entrepreneurship	3	0	3	2nd Year Standing
CE	201A	Statics of Rigid Bodies	3	0	3	MATH 019, PHYS 111
EE	200C	Basic Electrical Engineering	2	3	3	PHYS 111
MATH	025	Discrete Mathematics	3	0	3	
MATH	021	Differential Equations	3	0	3	MATH 019
ME	201	Thermodynamics 1	3	0	3	MATH 019, PHYS 111
ME	202	Workshop Theory and Practice	0	3	1	ME 102
PE	201	Physical Education 3	2	0	2	PE 102
SECOND YEAR, SECOND SEMESTER (24 UNITS)						
GEC	007	Science, Technology and Society	3	0	3	
CPE	102A	Computer Programming	0	3	1	
CE	204A	Dynamics of Rigid Bodies	2	0	2	CE 201A
MATH	027	Engineering Data Analysis	3	0	3	MATH 018
MATH	024F	Advanced Mathematics for ME	3	0	3	MATH 021
MATH	030	Multivariable Calculus	3	0	3	MATH 019
ME	203	Thermodynamics 2	3	0	3	ME 201
ME	204	Machine Shop Theory	0	6	2	ME 202
ME	205	Integration Course in Mathematics	2	0	2	MATH 021
PE	202	Physical Education 4	2	0	2	PE 201
THIRD YEAR, FIRST SEMESTER (23 UNITS)						
GEE	001B	GE Elective 1 - Gender and Society	3	0	3	
CE	205A	Mechanics of Deformable Bodies	3	0	3	CE 204A
EE	313	DC and AC Machinery	2	3	3	EE 200C
ECE	300A	Basic Electronics	2	3	3	EE 200C
ME	304	Engineering Economics	3	0	3	MATH 027
ME	305	Heat Transfer	2	0	2	ME 201
ME	306	Fluid Mechanics	3	0	3	ME 201
ME	307	Vibration Engineering	2	0	2	MATH 021
ME	308	Computer Applications for ME	0	3	1	CPE 102A
THIRD YEAR, SECOND SEMESTER (24 UNITS)						
GEC	008	Ethics	3	0	3	
GEE	002B	GE Elective 2 - Living in the IT Era	3	0	3	GEE 001B
GEE	003B	GE Elective 3 - People and the Earth's Ecosystem	3	0	3	GEE 002B
ME	309	Methods of Research for ME	1	0	1	MATH 027
ME	317	Refrigeration Systems	3	0	3	ME 305
ME	318	Combustion Engineering	2	0	2	ME 203
ME	319	Fluid Machineries	3	0	3	ME 306
ME	320	Machine Elements	2	3	3	CE 204A
ME	314	Mechanical Engineering Lab 1	0	3	1	ME 203
ME	315	Integration Course in Engineering and Science	2	0	2	ME 205

NO STUDENT SHALL BE ALLOWED TO TAKE FOURTH YEAR PROFESSIONAL COURSES UNLESS HE HAS COMPLETED THE BASIC AND THE THIRD YEAR COURSES INCLUDING PE AND NSTP.

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours Laboratory Hours Credit Units			PREREQUISITE(S)	
		Lecture Hours	Laboratory Hours	Credit Units		
THIRD YEAR, SUMMER (2 UNITS)						
ME	316	On-the-Job Training for ME	0	240	2	ME 319
FOURTH YEAR, FIRST SEMESTER (26 UNITS)						
IE	101	Engineering Management	2	0	2	
ME	414	Control Engineering	2	3	3	ECE 300A
ME	415	Materials Science and Engineering for ME	2	3	3	CE 205A
ME	416	Mechanical Engineering Lab 2	0	6	2	ME 314, ME 319
ME	417	Machine Design 1	3	0	3	ME 320
ME	418	Air Conditioning and Ventilation Systems	3	0	3	ME 317
ME	419	Power Plant Design with Renewable Energy	3	3	4	ME 318
ME	420	ME Project Study 1	0	3	1	ME 309
ME	421	ME Design Project 1	2	3	3	ME 309
ME ELEC	1	Mechanical Engineering Elective 1	2	0	2	See track for pre-requisite(s)
FOURTH YEAR, SECOND SEMESTER (24 UNITS)						
BOSH	101	Basic Occupational Safety and Health	3	0	3	
ME	422	ME Laws, Ethics, Codes and Standards	2	0	2	GEC 008
ME	453	Manufacturing and Industrial Processes with Plant Visits	1	3	2	ME 415
ME	424	Mechanical Engineering Lab 3	0	6	2	ME 419
ME	425	Machine Design 2	2	3	3	ME 417
ME	426	Industrial Plant Engineering	3	3	4	ME 418, ME 453 (C)
ME	427	ME Project Study 2	0	3	1	ME 420
ME	428	ME Design Project 2	1	6	3	ME 421
ME	429	Integration Course in Power Plant and Industrial Plant	2	0	2	ME 315, ME 419
ME ELEC	2	Mechanical Engineering Elective 2	2	0	2	See track for pre-requisite(s)
ELECTIVE COURSES						
NOTE: A STUDENT MAY CHOOSE ANY OF THE TRACK ELECTIVES BELOW AND ONCE A TRACK ELECTIVE IS CHOSEN, ALL COURSES IN THE TRACK MUST BE TAKEN.						
Track Elective 1: Energy Engineering and Management						
MEE	101	Energy Management in Buildings	2	0	2	
MEE	102	Energy Management in Industry	2	0	2	MEE 101
Track Elective 2: Heating, Ventilating, Air Conditioning and Refrigeration						
MEE	101A	Design of Thermal Systems	2	0	2	
MEE	102A	Design of Building Piping System and Air Conditioning Duct Works	2	0	2	MEE 101A
Track Elective 3: Mechatronics Engineering						
MEE	101C	Introduction to Robotics	2	0	2	
MEE	102C	Industrial Robots	2	0	2	MEE 101C
Elective Track 4: Railway Engineering						
RWE	001	Introduction to Railway Systems and Engineering	3	0	3	
RWE	002A	Railway Management and Governance and Operations	3	0	3	RWE 001
TOTAL NO. OF UNITS			189			

CREDENTIALS SUBMITTED:

DEFICIENCY/IES

Evaluated by: _____

Date: _____

() F138 () PSA Birth Certificate

() GMC () Transfer Credential

() F137A () TOR

Received by: _____

Date: _____