

## TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES Quezon City

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

IMPORTANT: Registration in any course/s without all the pre-requisite/s, correct sequence and authorized load shall not be given any credit regardless of the grade/s obtained.

NAME : \_\_\_\_\_\_STUDENT NO : \_\_\_\_\_

COURS	E CODE	DESCRIPTIVE TITLE	LEC HOURS	LAB HOURS	CREDIT UNITS	PRE-REQUISITE(S)/CO-REQUISIT
FIRST YEAR,	, FIRST SEME	ESTER (17 UNITS)				
NSTP	001	National Service Training Program 1	(3)	0	(3)	
PE	001	Physical Activities Toward Health and Fitness 1 (PATHfit 1)	2	0	2	
GEC	004	Mathematics in the Modern World	3	0	3	
GEC	001	Understanding the Self	3	0	3	
MATH	016	Calculus 1	3	0	3	
CHEM	001C	Chemistry for Engineers	3	3	4	
AR	001	Engineering Drawing	0	3	1	
ME	003	Mechanical Engineering Orientation	1	0	1	
		TOTAL	15	6	17	
FIRST YEAR,	, SECOND SE	MESTER ( 22 UNITS )	-	-		
NSTP	002	National Service Training Program 2	(3)	0	(3)	NSTP 001(P)
PE	002	Physical Activities Toward Health and Fitness 2 (PATHfit 2)	2	0	2	PE 001(P)
GEC	006	Art Appreciation	3	0	3	
SOCSC	005	Life and Works of Rizal	3	0	3	
MATH	013	Linear Algebra with MATLAB	2	3	3	MATH 016(P)
MATH	017	Calculus 2	3	0	3	MATH 016(P)
PHYS	001C	Calculus-Based Physics	3	3	4	MATH 017(C)
ME	008	Computer-Aided Drafting for ME	0	3	1	AR 001(P)
GEC	003	The Contemporary World	3	0	3	
	-	TOTAL	19	9	22	
SECOND YE	AR, FIRST SE	MESTER ( 27 UNITS )				
GEC	005	Purposive Communication	3	0	3	
GEC	007	Science, Technology, and Society	3	0	3	
MATH	010	Differential Equations	3	0	3	MATH 017(P)
MATH	006	Discrete Mathematics	3	0	3	
TECH	101	Introduction to Engineering Entrepreneurship	3	0	3	
THER	001	Thermodynamics 1	3	0	3	MATH 017(P) PHYS 001C(P)
CE	001	Statics of Rigid Bodies	3	0	3	MATH 017(P) PHYS 001C(P)
EE	001	Basic Electrical Engineering	2	3	3	MATH 017(P) PHYS 001C(P)
ME	518	Workshop Theory and Practice	0	3	1	ME 003(P)
PE	003	Physical Activities Toward Health and Fitness 3 (PATHfit 3)	2	0	2	PE 002(P)
		TOTAL	25	6	27	
SECOND YE	AR, SECOND	SEMESTER ( 24 UNITS )		-		
MATH	019	Engineering Data Analysis	3	0	3	MATH 017(P)
CE	002	Dynamics of Rigid Bodies	2	0	2	CE 001(P)
GEC	002	Readings in Philippine History	3	0	3	
MATH	018	Multivariate Calculus	3	0	3	MATH 017(P)
THER	002	Thermodynamics 2	3	0	3	THER 001(P)
ITE	001B	Computer Programming	0	3	1	, ,
MATH	011ME	Advanced Mathematics for ME	3	0	3	MATH 010(P)
ME	524	Integration Course in Mathematics	2	0	2	MATH 016(P)
ME	001	Machine Shop Theory	0	6	2	ME 518(P)
PE	004	Physical Activities Toward Health and Fitness 4 (PATHfit	2	0	2	PE 003(P)



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COURS	E CODE	DESCRIPTIVE TITLE	LEC HOURS	LAB HOURS	CREDIT UNITS	PRE-REQUISITE(S)/CO-REQUISITE(S
1		TOTA	_ 21	9	24	
THIRD YEAR	, FIRST SEME	STER ( 23 UNITS )				
CE	003A	Mechanics of Deformable Bodies	3	0	3	CE 002(P)
ME	005	Engineering Economy	3	0	3	MATH 019(P)
EE	004A	DC and AC Machinery	2	3	3	EE 001(P)
ME	403	Heat Transfer	2	0	2	THER 002(P)
CE	402A	Fluid Mechanics	3	0	3	THER 001(P)
ME	514	Vibration Engineering	2	0	2	MATH 010(P)
ME	520	Computer Applications for ME	0	3	1	ITE 001B(P)
ECE	005	Basic Electronics	2	3	3	EE 001(P)
GEE	001	General Education Elective 1	3	0	3	
		TOTA	_ 20	9	23	
THIRD YEAR	, SECOND SE	MESTER ( 24 UNITS )				
ME	411	Methods of Research for ME	1	0	1	GEC 005(P)
ME	407	Refrigeration Systems	3	0	3	ME 403(P)
ME	409	Combustion Engineering	2	0	2	THER 002(P)
ME	406	Fluid Machineries	3	0	3	CE 402A(P)
ME	303	Machine Elements	2	3	3	CE 002(P)
ME	401	Mechanical Engineering Lab 1	0	3	1	THER 002(P)
ME	525	Integration Course in Engineering and Science	2	0	2	ME 524(P)
GEC	008	Ethics	3	0	3	
GEE	002	General Education Elective 2	3	0	3	
GEE	003	General Education Elective 3	3	0	3	
	•	TOTA	_ 22	6	24	
THIRD YEAR	SHMMED / 2	LIMITE \				
111111111111111111111111111111111111111	, SUIVIIVIER ( 2	UNITS)				
ME	500	On-the-Job Training for ME	0	240	2	3rd Year Standing
	·	· ·	+ -	240 <b>240</b>	2	3rd Year Standing
ME STUDENT SHA	500	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COUR	_ 0	240	2	
ME STUDENT SHA URSES INCLUD	500 LL BE ALLOW	On-the-Job Training for ME	_ 0	240	2	
ME STUDENT SHA URSES INCLUD	500 LL BE ALLOW	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COUR ISTP COURSES.	_ 0	240	2	
STUDENT SHA URSES INCLUD	500 LL BE ALLOW ING PE AND N AR, FIRST SEI	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COUR ISTP COURSES.  MESTER ( 26 UNITS )	0 SES UNLES	240 S HE HAS	2 COMPLETI	ED THE BASIC AND THE THIRD YEAR
STUDENT SHALURSES INCLUD FOURTH YEA	500  LL BE ALLOW ING PE AND N  AR, FIRST SEI  001	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COUR ISTP COURSES.  WESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1	DES UNLES	240 S HE HAS	2 COMPLETI	See track for pre-requisite(s)  ME 411(P)
STUDENT SHAI URSES INCLUD FOURTH YEA MEE ME	500  LL BE ALLOWING PE AND N  AR, FIRST SEI  001  508  519	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COUR ISTP COURSES.  MESTER ( 26 UNITS )  Mechanical Engineering Elective 1	2 0 3	240 S HE HAS	2 COMPLETI  2 1	See track for pre-requisite(s) ME 411(P) ME 407(P)
STUDENT SHAI URSES INCLUD FOURTH YEA MEE ME ME	500  LL BE ALLOW ING PE AND N  AR, FIRST SEI  001  508  519  006	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COUR ISTP COURSES.  MESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering	SES UNLES	0 3 0	2 COMPLETI 2 1 3 3	See track for pre-requisite(s) ME 411(P) ME 407(P) ECE 005(P)
STUDENT SHAI URSES INCLUD FOURTH YE MEE ME	500  LL BE ALLOW ING PE AND N  AR, FIRST SEI  001  508  519  006  522	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COUR ISTP COURSES.  MESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy	2 0 3 2 3	0 3 0 3 3	2 COMPLETI 2 1 3 3 4	See track for pre-requisite(s) ME 411(P) ME 407(P) ECE 005(P) ME 409(P)
STUDENT SHALURSES INCLUD FOURTH YEA MEE ME ME ME ECE	500  LL BE ALLOW ING PE AND N  AR, FIRST SEI  001  508  519  006	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COURSTP COURSES.  MESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1	2 0 3 2	0 3 0 3	2 COMPLETI 2 1 3 3	See track for pre-requisite(s) ME 411(P) ME 407(P) ECE 005(P)
STUDENT SHAI URSES INCLUD FOURTH YEA MEE ME ME ME ME ME ECE ME ME ME ME	500  LL BE ALLOWING PE AND N  AR, FIRST SEI  001  508  519  006  522  404  001	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COURSTP COURSES.  MESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1  Engineering Management	2 0 3 2 0 3 2 3	0 3 0 3 0 3 0	2 2 1 3 3 4 3 2	See track for pre-requisite(s) ME 411(P) ME 407(P) ECE 005(P) ME 409(P)
ME STUDENT SHAI URSES INCLUD FOURTH YEA ME	500  LL BE ALLOW ING PE AND N  AR, FIRST SEI  001  508  519  006  522  404  001  410	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COURSISTP COURSES.  MESTER ( 26 UNITS )  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1  Engineering Management  Mechanical Engineering Lab 2	2 0 3 2 3 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 0 3 0 3 0 0	2 1 3 3 4 3 2	See track for pre-requisite(s) ME 411(P) ME 407(P) ECE 005(P) ME 409(P) ME 303(P)
ME STUDENT SHAI URSES INCLUD FOURTH YEA ME	500  LL BE ALLOW ING PE AND N  AR, FIRST SEI  001  508  519  006  522  404  001  410  513	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COUR ISTP COURSES.  MESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1  Engineering Management  Mechanical Engineering Lab 2  ME Design Project 1	2 0 3 2 3 2 3 3 2 0 2	0 3 0 3 0 3 0 0 0 6	2 1 3 3 4 3 2 2	See track for pre-requisite(s) ME 411(P) ME 407(P) ECE 005(P) ME 409(P) ME 303(P) ME 401(P) ME 406(P)
ME STUDENT SHAI URSES INCLUD FOURTH YEA ME	500  LL BE ALLOW ING PE AND N  AR, FIRST SEI  001  508  519  006  522  404  001  410	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COURSTP COURSES.  MESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1  Engineering Management  Mechanical Engineering Lab 2  ME Design Project 1  Materials Science and Engineering for ME	2 0 3 3 2 3 3 2 0 0 2 2 2	240 S HE HAS 0 3 0 3 0 0 0 6 3 3	2 1 3 3 4 3 2 2 2 3	See track for pre-requisite(s) ME 411(P) ME 407(P) ECE 005(P) ME 409(P) ME 303(P)
ME STUDENT SHAI URSES INCLUD FOURTH YEA MEE ME ME ME ECE ME ME EMAN ME ME ME EMAN ME ME ME	500  LL BE ALLOWING PE AND N  AR, FIRST SEI  001  508  519  006  522  404  001  410  513  007	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COURSTP COURSES.  MESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1  Engineering Management  Mechanical Engineering Lab 2  ME Design Project 1  Materials Science and Engineering for ME	2 0 3 3 2 3 3 2 0 0 2 2 2	0 3 0 3 0 3 0 0 0 6	2 1 3 3 4 3 2 2	See track for pre-requisite(s) ME 411(P) ME 407(P) ECE 005(P) ME 409(P) ME 303(P) ME 401(P) ME 406(P)
ME STUDENT SHAI URSES INCLUD FOURTH YE ME	500  LL BE ALLOW ING PE AND N  AR, FIRST SEI  001  508  519  006  522  404  001  410  513  007	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COURSITP COURSES.  MESTER ( 26 UNITS )  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1  Engineering Management  Mechanical Engineering Lab 2  ME Design Project 1  Materials Science and Engineering for ME  TOTA  SEMESTER ( 24 UNITS )	2 0 3 3 2 3 3 2 0 0 2 2 2 19	240 S HE HAS 0 3 0 3 3 0 0 6 3 3 21	2 1 3 3 4 3 2 2 2 3 3 26	See track for pre-requisite(s) ME 411(P) ME 407(P) ECE 005(P) ME 409(P) ME 303(P) ME 401(P) ME 406(P) CE 003A(P) CHEM 001C(P)
ME STUDENT SHALL URSES INCLUD FOURTH YEA ME	500  LL BE ALLOW ING PE AND N  AR, FIRST SEI  001  508  519  006  522  404  001  410  513  007  AR, SECOND SEI  510	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COURSITP COURSES.  MESTER ( 26 UNITS )  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1  Engineering Management  Mechanical Engineering Lab 2  ME Design Project 1  Materials Science and Engineering for ME  TOTA  SEMESTER ( 24 UNITS )  Industrial Plant Engineering	2 0 3 3 2 3 3 3 2 0 0 2 2 2 19 3 3	240 S HE HAS  0 3 0 3 0 0 6 3 21	2 1 3 3 4 3 2 2 3 3 26	See track for pre-requisite(s) ME 411(P) ME 407(P) ECE 005(P) ME 409(P) ME 303(P)  ME 401(P) ME 406(P)  CE 003A(P) CHEM 001C(P)  ME 516(C) ME 519(P)
ME STUDENT SHAN URSES INCLUD FOURTH YE ME ME ME ECE ME ME ME EMAN ME ME FOURTH YE ME	500  LL BE ALLOWING PE AND N  AR, FIRST SEI  001  508  519  006  522  404  001  410  513  007  AR, SECOND 510  512	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COUR ISTP COURSES.  MESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1  Engineering Management  Mechanical Engineering Lab 2  ME Design Project 1  Materials Science and Engineering for ME  TOTA  SEMESTER (24 UNITS)  Industrial Plant Engineering  ME Project Study 2	2 0 3 3 2 3 3 2 0 0 2 2 19 19 3 0 0	240 S HE HAS  0 3 0 3 0 0 6 3 3 21	2 1 3 3 4 3 2 2 2 3 3 26	See track for pre-requisite(s)  ME 411(P)  ME 407(P)  ECE 005(P)  ME 409(P)  ME 303(P)  ME 401(P) ME 406(P)  CE 003A(P) CHEM 001C(P)  ME 516(C) ME 519(P)  ME 508(P)
ME STUDENT SHAN URSES INCLUD FOURTH YEA MEE ME	500  LL BE ALLOWING PE AND N  AR, FIRST SEI  001  508  519  006  522  404  001  410  513  007  AR, SECOND 5  510  512  521	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COURSTP COURSES.  MESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1  Engineering Management  Mechanical Engineering Lab 2  ME Design Project 1  Materials Science and Engineering for ME  TOTA  SEMESTER (24 UNITS)  Industrial Plant Engineering  ME Project Study 2  Machine Design 2	2 0 3 3 2 3 3 2 0 0 2 2 19 19 3 0 0 2 2	240 S HE HAS  0 3 0 3 0 0 6 3 21	2 1 3 3 4 3 2 2 3 3 26	See track for pre-requisite(s) ME 411(P) ME 407(P) ECE 005(P) ME 409(P) ME 303(P)  ME 401(P) ME 406(P)  CE 003A(P) CHEM 001C(P)  ME 516(C) ME 519(P)
ME STUDENT SHALL URSES INCLUD FOURTH YEA ME	500  LL BE ALLOW ING PE AND N  AR, FIRST SEI  001  508  519  006  522  404  001  410  513  007  AR, SECOND SEI  510  512  521  517	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COURSITP COURSES.  MESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1  Engineering Management  Mechanical Engineering Lab 2  ME Design Project 1  Materials Science and Engineering for ME  TOTA  SEMESTER (24 UNITS)  Industrial Plant Engineering  ME Project Study 2  Machine Design 2  Basic Occupational Safety and Health	2 0 3 3 2 3 3 2 0 2 2 2 19 3 0 2 2 3 3 3 0 2 2 3 3 0 2 2 3 3 0 2 2 3 3 0 2 2 3 3 0 0 2 2 3 3 3 0 0 0 2 2 3 3 3 0 0 0 2 2 3 3 3 0 0 0 2 2 3 3 3 0 0 0 2 2 3 3 0 0 0 0	240 S HE HAS  0 3 0 3 0 0 6 3 21	2 1 3 3 4 3 2 2 3 3 4 1 3 3 4 1 3 3 3 4 3 3 3 4 3 3 3 4 3 3 3 4 3 3 3 4 3 4 3 3 3 4 3 4 3 3 4 3 4 3 3 4 3 3 3 4 4 3 3 3 3 4 4 3 3 3 3 4 4 3 3 3 3 4 4 3 3 3 3 4 4 4 4 1 3 3 3 3	See track for pre-requisite(s)  ME 411(P)  ME 407(P)  ECE 005(P)  ME 409(P)  ME 303(P)  ME 401(P) ME 406(P)  CE 003A(P) CHEM 001C(P)  ME 516(C) ME 519(P)  ME 508(P)
ME STUDENT SHALL URSES INCLUD FOURTH YEA ME	500  LL BE ALLOW ING PE AND NAR, FIRST SEI  001  508  519  006  522  404  001  410  513  007  AR, SECOND 5  510  512  521  517  516	On-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COURSITP COURSES.  MESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1  Engineering Management  Mechanical Engineering Lab 2  ME Design Project 1  Materials Science and Engineering for ME  TOTA  SEMESTER (24 UNITS)  Industrial Plant Engineering  ME Project Study 2  Machine Design 2  Basic Occupational Safety and Health  Manufacturing and Industrial Processes with Plant Visite	2 0 3 3 2 0 2 2 19 3 0 2 3 3 1 1	240 S HE HAS  0 3 0 3 0 0 6 3 3 21	2 1 3 3 4 3 2 2 3 3 26 4 1 3 3 2	See track for pre-requisite(s)  ME 411(P)  ME 407(P)  ECE 005(P)  ME 409(P)  ME 303(P)  ME 401(P) ME 406(P)  CE 003A(P) CHEM 001C(P)  ME 516(C) ME 519(P)  ME 508(P)  ME 404(P)
ME STUDENT SHAN URSES INCLUD FOURTH YE ME	500  LL BE ALLOWING PE AND N  AR, FIRST SEI  001  508  519  006  522  404  001  410  513  007  AR, SECOND 5  512  521  517  516  505	Con-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COURSTP COURSES.  MESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1  Engineering Management  Mechanical Engineering Lab 2  ME Design Project 1  Materials Science and Engineering for ME  TOTA  SEMESTER (24 UNITS)  Industrial Plant Engineering  ME Project Study 2  Machine Design 2  Basic Occupational Safety and Health  Manufacturing and Industrial Processes with Plant Visite  Mechanical Engineering Lab 3	2 0 3 3 2 0 0 2 2 19 3 0 2 3 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	240 S HE HAS  0 3 0 3 0 0 6 3 21  3 3 0 0 3 6	2 1 3 3 4 3 2 2 3 3 26	See track for pre-requisite(s)  ME 411(P)  ME 407(P)  ECE 005(P)  ME 409(P)  ME 303(P)  ME 401(P) ME 406(P)  CE 003A(P) CHEM 001C(P)  ME 516(C) ME 519(P)  ME 508(P)  ME 404(P)  ME 410(P) ME 522(P)
ME STUDENT SHAN URSES INCLUD FOURTH YEA ME	500  LL BE ALLOWING PE AND N  AR, FIRST SEI  001  508  519  006  522  404  001  410  513  007  AR, SECOND 5  510  512  521  517  516  505  002	Con-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COURSTP COURSES.  MESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1  Engineering Management  Mechanical Engineering Lab 2  ME Design Project 1  Materials Science and Engineering for ME  TOTA  SEMESTER (24 UNITS)  Industrial Plant Engineering  ME Project Study 2  Machine Design 2  Basic Occupational Safety and Health  Manufacturing and Industrial Processes with Plant Visite  Mechanical Engineering Lab 3  Mechanical Engineering Elective 2	2 0 3 3 2 3 3 2 2 19 19 1 3 0 2 2 3 1 1 0 0 2 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1	240 S HE HAS  0 3 0 3 0 0 6 3 21  3 3 0 0 3 6 0 0	2 1 3 3 4 3 2 2 3 3 26	See track for pre-requisite(s)  ME 411(P)  ME 407(P)  ECE 005(P)  ME 409(P)  ME 303(P)  ME 401(P) ME 406(P)  CE 003A(P) CHEM 001C(P)  ME 516(C) ME 519(P)  ME 508(P)  ME 404(P)  ME 410(P) ME 522(P)  MEE 001(P), See track for pre-requisite(
ME STUDENT SHALL URSES INCLUD FOURTH YEA ME	500  LL BE ALLOWING PE AND N  AR, FIRST SEI  001  508  519  006  522  404  001  410  513  007  AR, SECOND 5  510  512  521  517  516  505  002  523	Control Engineering Hereign Meson Me	2 0 3 3 2 3 3 2 2 0 2 2 2 19 3 1 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	240 S HE HAS  0 3 0 3 0 0 6 3 3 21  3 3 0 0 0 0 0 0 0 0 0 0 0	2 1 3 3 4 3 2 2 3 3 26 4 1 3 3 2 2 2 2 2 2 2	See track for pre-requisite(s)  ME 411(P)  ME 407(P)  ECE 005(P)  ME 409(P)  ME 303(P)  ME 401(P) ME 406(P)  CE 003A(P) CHEM 001C(P)  ME 516(C) ME 519(P)  ME 508(P)  ME 404(P)  ME 401(P) ME 522(P)  MEE 001(P), See track for pre-requisite( GEC 008(P)
ME STUDENT SHAN URSES INCLUD FOURTH YEA ME	500  LL BE ALLOWING PE AND N  AR, FIRST SEI  001  508  519  006  522  404  001  410  513  007  AR, SECOND 5  510  512  521  517  516  505  002	Con-the-Job Training for ME  TOTA  ED TO TAKE FOURTH YEAR PROFESSIONAL COURSTP COURSES.  MESTER (26 UNITS)  Mechanical Engineering Elective 1  ME Project Study 1  Air Conditioning and Ventilation Systems  Control Engineering  Power Plant Design with Renewable Energy  Machine Design 1  Engineering Management  Mechanical Engineering Lab 2  ME Design Project 1  Materials Science and Engineering for ME  TOTA  SEMESTER (24 UNITS)  Industrial Plant Engineering  ME Project Study 2  Machine Design 2  Basic Occupational Safety and Health  Manufacturing and Industrial Processes with Plant Visite  Mechanical Engineering Lab 3  Mechanical Engineering Elective 2	2 0 3 3 2 3 3 2 2 19 19 1 3 0 2 2 3 1 1 0 0 2 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1	240 S HE HAS  0 3 0 3 0 0 6 3 21  3 3 0 0 3 6 0 0	2 1 3 3 4 3 2 2 3 3 26	See track for pre-requisite(s)  ME 411(P)  ME 407(P)  ECE 005(P)  ME 409(P)  ME 303(P)  ME 401(P) ME 406(P)  CE 003A(P) CHEM 001C(P)  ME 516(C) ME 519(P)  ME 508(P)  ME 404(P)  ME 410(P) ME 522(P)  ME 410(P), See track for pre-requisite(



## TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES Quezon City

ELECTIVE C	OURSES					
TRACK ELE	CTIVE 1: (En	ergy Engineering and Management)				
ME	527	Energy Management in Buildings	2	0	2	
ME	528	Energy Management in Industry	2	0	2	
		TOTAL	4	0	4	
TRACK ELE	CTIVE 2:(Hea	ting, Ventilation, Air Conditioning and Refrigeration)				
ME	529	Design of Thermal Systems	2	0	2	
ME	530	Design of Building Piping System and Air Conditioning Duct Works	2	0	2	
	-	TOTAL	4	0	4	
TRACK ELE	CTIVE 3: (Me	chatronics Engineering)		-		-
ME	531	Introduction to Robotics	2	0	2	
ME	532	Industrial Robots	2	0	2	
		TOTAL	4	0	4	
TRACK ELE	CTIVE 4: (Rai	lway Engineering)				
RWE	001	Introduction to Railway Systems and Engineering	3	0	3	
RWE	002	Advanced Topic on Railway Engineering	3	0	3	
Т		TOTAL	6	0	6	

CREDENTIALS PRESENTED:	DEFICIENCY/IES:	Evaluated By:	LEGEND
() F137A () NSO Birth Certificate		Date:	P = Pre-requisite
() F138 () HD		Received By:	C = Co-requisite
() GMC () TOR		Date:	

NOTE: 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.