

Mariners' Polytechnic Colleges Foundation Rawis, Legazpi City

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PH04/002:

Curriculum Structure for the Five-Year Course leading to the degree of **BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING (BSMECH E)**Effective School Year, 2004-2005

FIRST YEAR				
First Semester				
	COURSE DESCRIPTION	Lec.	Lab.	Unit
Math 0		(3)	_	(3)
Engl Plus		(3)	_	(3)
Math 1	College Algebra	5	_	5
Chem 1	Chemistry 1	3	3	4
Draw 1	Engineering Drawing 1	1	3	2
	Communication Skills		3	3
Engl 1		3	-	
Fil 1	Sining ng Pakikipagtalastasan 1	3	-	3
Soc Sci 1	Philippine History	3	-	3
PE 1	Fundamentals of Swimming	2	0	2
NSTP	National Service Training Program (NSTP)	(3)	-	(3)
Second Semester		20	6	22
Second Semester				
Math 2	Plane Trigonometry	3	_	3
Math 3	Analytic Geometry	3	_	3
Chem 2	Chemistry 2	3	3	4
Draw 2	Advanced Engineering Drawing w/ CAD	Ü	C	•
	(Computer Aided Drawing)	1	3	2
Engl 2	Advance Communication Skills	3	_	3
Fil 2	Pagbasa at Pagsulat sa Iba't Ibang Disiplina	3	_	3
Soc Sci 2	Politics and Governance w/ Phil. Constitution	3	-	3
			-	
PE 2	Advance Swimming	2	0	2
NSTP	National Service Training Program (NSTP)	(3)		(3)
		21	6	23
SECOND YEAR				
First Semester				
Engl 3	Business Correspondence/Technical Writing	3	_	3
Math 4	Differential Calculus	5	-	5
ME 20	Workshop, Theory and Practice	1	3	2
MHS 3	Mechanics, Heat and Sound	3	3	4
Soc Sci 3	Life and Works of Rizal	3	_	3
Soc Sci 4	Society and Culture	3	_	3
PE 3	Self Defense	2	0	2
1123	Self Belefise	$\frac{2}{20}$	6	$\frac{2}{22}$
Second Semester				
Comp 1	Computer Fundamentals & Programming	3	3	4
Engl 4	Public Speaking/Argumentation & Debate	3	-	3
Philo 1	Philosophy of Man	3	_	3
Math 5	Integral Calculus	5	_	5
			3	2
ME 21	Machine Shop, Theory & Practice	1		
PHS	Magnetism, Elect., Light and Optics	3	3	4
PE 4	Defensive Sports	2	0	22
		20	9	23

THIRD YEAR First Semester ___ BES 30 Engineering Mechanics (Statics) 3 Engineering Mechanics (Dynamics) ____ BES 31 3 3 ____ Comp 2 Computer Application Engineering 3 3 4 Math 6 Differential Equations 3 3 ME 30 Mechanics Elements 1 2 3 3 Thermodynamics 1 4 ME 31 4 Philippine Literature 3 3 __ Engl 5 6 23 21 **Second Semester** __ BES 32 Strength of Materials 3 ____ BES 33 Elementary Electrical Engineering 3 3 ____ Math 7 Advanced Engineering Mathematics 3 3 ____ ME 32 Machine Elements 2 2 3 3 ___ ME 33 Thermodynamics 2 3 3 ___ ME 34 Materials of Engineering 2 3 3 ___ Soc Sci 4 Basic Economics w/ Tax. & Agrarian Reform 3 3 __ Fil 3 Balarila 3 3 22 24 **FOURTH YEAR** First Semester Strength of Materials 2 ___ BES 40 3 3 Fluid Mechanics 3 3 4 BES 41 ___ BES 42 **Engineering Economy** 3 3 Heat Transfer 3 3 ME 40 ME Laboratory 1 2 ME 41 6 3 3 ME 42 **Internal Combustion Engine** 3 ME 43 AC/DC Machinery 3 Research Methods of Research 1/Probability & Statistics 3 12 24 **Second Semester** __ BES 43 Engineering Management 3 ____ ME 44 Machine Design 1 3 3 ___ ME 45 Refrigeration Engineering 3 3 ME Laboratory 2 2 ___ ME 46 6 Fluid Machinery 3 3 ____ ME 47 __ ME 48 Tool Design 2 3 3 _ ME 49 Steam Power Engineering 3 3 General Psychology w/ HIV-AIDS Education Soc Sci 5 3 3 12 24 **SUMMER** OJT 400 ON-THE-JOB TRAINING FIFTH YEAR **First Semester** __ BES 50 Industrial Electronics & Controls 3 ____ ME 50 Machine Design 2 3 4 __ ME 51 ME Laboratory 3 6 2 __ ME 52 Air Conditioning Theory & Design 3 3 __ ME 53 Industrial Process & Inspection 3 3 __ ME 54 **Industrial Plant Design** 2 6 4 Machinery Foundation & Vibration Analysis __ ME 55 3 3 22 **Second Semester** Feasibility Study 3 3 FS 2 Power Plant Design 3 5 6 ___ ME 56 Power Plant Operation 2 3 3 __ ME 57 3 ME 58 Industrial Fuels & Lubricants 3 Engineering Safety & Loss Control 3 3 ME 59 2 2 ME 60 ME Laws/Ethics ME 61 Industrial Environmental Management System 3