

UNIVERSITY OF LUZON  
Perez Blvd. Dagupan City

COLLEGE OF ENGINEERING and ARCHITECTURE  
**Bachelor of Science in Mechanical Engineering**  
Curriculum Year **2015 - 2016**

**First Year**

**First Semester**

SUBJECT CODE	SUBJECT NAME/DESCRIPTION	HOURS		UNITS		Pre-Requisite
		LEC.	LAB.	LEC.	LAB.	
CHEM 111	GENERAL CHEMISTRY (LEC)	3.0	0.0	3.0	0.0	
CHEM 111L	GENERAL CHEMISTRY (LAB)	0.0	3.0	0.0	1.0	
DRAW 111A	ENGINEERING DRAWING 1	0.0	3.0	0.0	1.0	
ENG 11	COMMUNICATION ARTS 1	3.0	0.0	3.0	0.0	
FIL 11	KOMUNIKASYON SA AKADEMIKONG FILIPINO	3.0	0.0	3.0	0.0	
MTH 111A	COLLEGE ALGEBRA	3.0	0.0	3.0	0.0	
MTH 112	PLANE AND SPHERICAL TRIGONOMETRY	3.0	0.0	3.0	0.0	
PE 11	PHYSICAL FITNESS AND GYMNASTICS	2.0	0.0	2.0	0.0	
SOC 13	CONTEMPORARY SOCIAL PROBLEMS AND CURRENT ISSUES	3.0	0.0	3.0	0.0	
<b>TOTAL</b>		<b>20</b>	<b>6</b>	<b>20.0</b>	<b>2.0</b>	
<b>TOTAL ACADEMIC UNIT(S): 22.0</b>						

**Second Semester**

CSC 121	COMPUTER FUNDAMENTALS	0.0	3.0	0.0	1.0	
ENG 12	COMMUNICATION ARTS 2	3.0	0.0	3.0	0.0	ENG 11
FIL 12	PAGBASA AT PAGSULAT TUNGO SA PANANALIKSIK	3.0	0.0	3.0	0.0	FIL 11
HUM 11	ART APPRECIATION	3.0	0.0	3.0	0.0	
MTH 121A	ADVANCED ALGEBRA	2.0	0.0	2.0	0.0	MTH 111A, MTH 112
MTH 122	ANALYTIC GEOMETRY	3.0	0.0	3.0	0.0	MTH 111A
MTH 123	SOLID MENSURATION	2.0	0.0	2.0	0.0	MTH 112, MTH 111A
PE 12	RHYTHMIC ACTIVITIES	2.0	0.0	2.0	0.0	PE 11
PSC 12	PHILIPPINE GOVERNMENT AND NEW CONSTITUTION	3.0	0.0	3.0	0.0	
<b>TOTAL</b>		<b>21</b>	<b>3</b>	<b>21.0</b>	<b>1.0</b>	
<b>TOTAL ACADEMIC UNIT(S): 22.0</b>						

**Second Year**

**First Semester**

CSC 211	COMPUTER PROGRAMMING	0.0	3.0	0.0	1.0	CSC 121
ENG 16	TECHNICAL WRITING	3.0	0.0	3.0	0.0	ENG 12
MTH 211A	DIFFERENTIAL CALCULUS	4.0	0.0	4.0	0.0	MTH 123, MTH 122
NSTP 11	NATIONAL SERVICE TRAINING PROGRAM 1	3.0	0.0	3.0	0.0	
PE 13	INDIVIDUAL AND DUAL SPORTS/GAMES	2.0	0.0	2.0	0.0	PE 12
PHI 13	LOGIC	3.0	0.0	3.0	0.0	
PHY 211	COLLEGE PHYSICS 1	3.0	0.0	3.0	0.0	MTH 112, MTH 123
PHY 211L	COLLEGE PHYSICS 1 (LABORATORY)	0.0	3.0	0.0	1.0	MTH 112
<b>TOTAL</b>		<b>18</b>	<b>6</b>	<b>18.0</b>	<b>2.0</b>	
<b>TOTAL ACADEMIC UNIT(S): 20.0</b>						

**Second Semester**

CSC 221	COMPUTER AIDED-DRAFTING	0.0	3.0	0.0	1.0	CSC 211
HST 11	PHILIPPINE HISTORY	3.0	0.0	3.0	0.0	
MTH 221A	INTEGRAL CALCULUS	4.0	0.0	4.0	0.0	
MTH 222A	PROBABILITY AND STATISTICS	3.0	0.0	3.0	0.0	2nd Yr
NSTP 12	NATIONAL SERVICE TRAINING PROGRAM 2	3.0	0.0	3.0	0.0	NSTP 11
PE 14	TEAM SPORTS	2.0	0.0	2.0	0.0	PE 13
PHY 221	COLLEGE PHYSICS 2	3.0	0.0	3.0	0.0	PHY 211
PHY 221L	COLLEGE PHYSICS 2 (LABORATORY)	0.0	3.0	0.0	1.0	PHY 211L
SOC 14	LIFE AND WORKS OF RIZAL	3.0	0.0	3.0	0.0	
<b>TOTAL</b>		<b>21</b>	<b>6</b>	<b>21.0</b>	<b>2.0</b>	
<b>TOTAL ACADEMIC UNIT(S): 23.0</b>						

**Third Year**

**First Semester**

EE 310A	BASIC ELECTRICAL ENGINEERING	2.0	0.0	2.0	0.0	
EE 310AL	BASIC ELECTRICAL ENGINEERING LABORATORY	0.0	3.0	0.0	1.0	
ME 311	MACHINE ELEMENTS 1 (LECTURE)	2.0	0.0	2.0	0.0	
ME 311D	MACHINE ELEMENTS 1 DRAFTING	0.0	3.0	0.0	1.0	
ME 312A	ENVIRONMENTAL ENGINEERING	2.0	0.0	2.0	0.0	

ME 313	THERMODYNAMICS 1	3.0	0.0	3.0	0.0	
ME 314A	ORIENTATION TO ME WITH SAFETY MANAGEMENT	2.0	0.0	2.0	0.0	
ME 315	WORKSHOP THEORY AND PRACTICE	0.0	6.0	0.0	2.0	
MECH 311A	STATIC OF RIGID BODIES	3.0	0.0	3.0	0.0	PHY 211
MTH 311	DIFFERENTIAL EQUATIONS	3.0	0.0	3.0	0.0	MTH 221A
PSY 11	GENERAL PSYCHOLOGY WITH DRUG EDUCATION	3.0	0.0	3.0	0.0	
<b>TOTAL</b>		<b>20</b>	<b>12</b>	<b>20.0</b>	<b>4.0</b>	

**TOTAL ACADEMIC UNIT(S): 24.0**

**Second Semester**

EE 320A	BASIC ELECTRONICS	2.0	0.0	2.0	0.0	
EE 320AL	BASIC ELECTRONICS LABORATORY	0.0	3.0	0.0	1.0	
ENG 15	PHILIPPINE LITERATURE	3.0	0.0	3.0	0.0	
ME 321	MACHINE ELEMENTS 2	2.0	0.0	2.0	0.0	ME 311
ME 321D	MACHINE ELEMENTS 2 DRAFT	0.0	3.0	0.0	1.0	ME 311D
ME 322A	MACHINE SHOP THEORY	0.0	6.0	0.0	2.0	
ME 323A	THERMODYNAMICS 2	3.0	0.0	3.0	0.0	
ME 324A	FLUID MECHANICS	3.0	0.0	3.0	0.0	
MECH 321A	DYNAMICS OF RIGID BODIES	2.0	0.0	2.0	0.0	
MECH 322	MECHANICS OF DEFORMABLE BODIES	3.0	0.0	3.0	0.0	
MTH 321A	ADVANCED ENGINEERING MATHEMATICS	3.0	0.0	3.0	0.0	
<b>TOTAL</b>		<b>21</b>	<b>12</b>	<b>21.0</b>	<b>4.0</b>	

**TOTAL ACADEMIC UNIT(S): 25.0**

**Fourth Year**

**First Semester**

ECO 415	ENGINEERING ECONOMY AND ACCOUNTING	3.0	0.0	3.0	0.0	4th Yr
EE 410A	AC-DC MACHINERY	3.0	0.0	3.0	0.0	
EE 410AL	AC-DC MACHINERY LABORATORY	0.0	3.0	0.0	1.0	
ME 411	MACHINE DESIGN 1	3.0	0.0	3.0	0.0	ME 321
ME 412A	HEAT TRANSFER	2.0	0.0	2.0	0.0	
ME 413L	MECHANICAL ENGINEERING LABORATORY 1	0.0	6.0	0.0	2.0	
ME 414A	MATERIALS ENGINEERING	3.0	0.0	3.0	0.0	
ME 414AL	MATERIALS ENGINEERING LABORATORY	0.0	3.0	0.0	1.0	
ME 415	FUELS, COMBUSTION, LUBRICANTS AND ADDITIVES	2.0	0.0	2.0	0.0	
ME ELECTIVE 1	AUTOMOTIVE ENGINEERING	3.0	0.0	3.0	0.0	
<b>TOTAL</b>		<b>19</b>	<b>12</b>	<b>19.0</b>	<b>4.0</b>	

**TOTAL ACADEMIC UNIT(S): 23.0**

**Second Semester**

ENG 22	SPEECH AND ORAL COMMUNICATION	3.0	0.0	3.0	0.0	ENG 16
ME 421A	MACHINE DESIGN 2	3.0	0.0	3.0	0.0	
ME 421AL	MACHINE DESIGN 2 DRAFTING	0.0	3.0	0.0	1.0	
ME 422A	REFRIGERATION SYSTEMS	3.0	0.0	3.0	0.0	
ME 423L	MECHANICAL ENGINEERING LABORATORY 2	0.0	6.0	0.0	2.0	
ME 424A	METHODS OF RESEARCH FOR MECHANICAL ENGINEERING	1.0	0.0	1.0	0.0	
ME 425A	COMBUSTION ENGINEERING	2.0	0.0	2.0	0.0	
ME 426A	INSTRUMENTATION AND CONTROL ENGINEERING	2.0	0.0	2.0	0.0	
ME 426AL	INSTRUMENTATION AND CONTROL ENGINEERING LAB	0.0	3.0	0.0	1.0	
ME ELECTIVE 2	ENGINE FUEL CONTROL SYSTEMS	3.0	0.0	3.0	0.0	
<b>TOTAL</b>		<b>17</b>	<b>12</b>	<b>17.0</b>	<b>4.0</b>	

**TOTAL ACADEMIC UNIT(S): 21.0**

**Fifth Year**

**First Semester**

ME 500	INTEGRATED MECHANICAL ENGINEERING COURSES	5.0	0.0	5.0	0.0	5th Yr
ME 511A	FLUID MACHINERY	3.0	0.0	3.0	0.0	
ME 512A	AIRCONDITION AND VENTILLATION SYSTEM	2.0	0.0	2.0	0.0	
ME 512AL	AIRCONDITION AND VENTILLATION SYSTEM DRAFTING	0.0	3.0	0.0	1.0	
ME 513AL	ME LABORATORY 3	0.0	6.0	0.0	2.0	
ME 514A	INDUSTRIAL PROCESSES	2.0	0.0	2.0	0.0	
ME 515A	VIBRATION ENGINEERING	2.0	0.0	2.0	0.0	
ME 516F	PROJECT STUDY 1	0.0	3.0	0.0	1.0	
ME 517F	PLANT VISIT/OJT FOR ME	0.0	6.0	0.0	2.0	
ME ELECTIVE 3	ENGINE EMISSIONS AND CONTROL	3.0	0.0	3.0	0.0	
<b>TOTAL</b>		<b>17</b>	<b>18</b>	<b>17.0</b>	<b>6.0</b>	

**TOTAL ACADEMIC UNIT(S): 23.0**

**Second Semester**

ME 521	INDUSTRIAL PLANT ENGINEERING	2.0	0.0	2.0	0.0
ME 521D	INDUSTRIAL PLANT ENGINEERING DRAFTING	0.0	3.0	0.0	1.0
ME 522A	POWER PLANT ENGINEERING	4.0	0.0	4.0	0.0
ME 522AD	POWER PLANT ENGINEERING DRAFTING	0.0	3.0	0.0	1.0
ME 523A	ME LAWS, ETHICS AND STANDARDS	3.0	0.0	3.0	0.0
ME 524A	SAFETY ENGINEERING FOR ME	2.0	0.0	2.0	0.0
ME 525A	ENGINEERING MANAGEMENT FOR ME	3.0	0.0	3.0	0.0
ME 526F	PROJECT STUDY 2	0.0	3.0	0.0	1.0
ME ELECTIVE 4	SAFETY MOTOR VEHICLES	3.0	0.0	3.0	0.0
<b>TOTAL</b>		<b>17</b>	<b>9</b>	<b>17.0</b>	<b>3.0</b>

**TOTAL ACADEMIC UNIT(S): 20.0**

**Total academic units for course Bachelor of Science in Mechanical Engineering: 223.0, Lecture Unit = 191.0, Lab Unit=32.0**