

# Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

## BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Modified Curriculum Year 2018-2019 (For Incoming III Yr. 2020-2021)

COURSE CODE	COURSE TITLE	Lec	Lab		TOTAL	PRE-REQUISITES/ CO-REQUISITES
		Units/Hours	Units	Hrs		
<b>FIRST YEAR, First Semester</b>						
CHM083	Chemistry for Engineers	3			3	co-req: CHM081L
CHM081L	Chemistry for Engineers Lab		1	3	1	co-req: CHM083
DRW021L	Engineering Drawing		1	3	1	
GEC003	Understanding the Self	3			3	
GEC023	Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas	3			3	
GEC033	Mathematics in the Modern World	3			3	
MATH153A	Calculus 1	3			3	
MATH323	Engineering Data Analysis	3			3	
NSTP1-18	National Service Training Program 1	3			3	
PE002-18	Physical Fitness and Related Activities	2			2	
	<b>Total</b>	<b>23</b>	<b>2</b>	<b>6</b>	<b>25</b>	
<b>FIRST YEAR, Second Semester</b>						
CoENG001L	Computer Fundamentals and Programming Lab		1	3	1	
DRW051L	Computer Aided Drafting		1	3	1	DRW021L
FIL083	Komunikasyon sa Akademikong Filipino	3			3	
GEC013	Science, Technology, and Society	3			3	
GEC063	Purposive Communication	3			3	
LQEC543	Letran Quality Enrichment Course 54	3			3	
MATH153B	Calculus 2	3			3	MATH153A
ME001-18	Orientation to ME	1			1	
ME001L	Workshop Theory & Practice Lab		1	3	1	
NSTP2-18	National Service Training Program 2	3			3	NSTP1-18
PE022-18	Rhythmic Activities	2			2	PE002-18
PHY083	Physics for Engineers	3			3	MATH153A; co-req: PHY081L
PHY081L	Physics for Engineers Lab		1	3	1	MATH153A; co-req: PHY083
RELED051	The Catholic Christian Faith	1			1	
	<b>Total</b>	<b>25</b>	<b>4</b>	<b>12</b>	<b>29</b>	
<b>SECOND YEAR, First Semester</b>						
CoENG041L	Computer Applications for ME		1	3	1	CoENG001L
EE012B	Basic Electrical Engineering	2			2	Phy083, Phy081L; co-req: EE011B-L
EE011B-L	Basic Electrical Engineering Lab		1	3	1	Phy083, Phy081L; co-req: EE012B
ENGG003	Statics of Rigid Bodies	3			3	MATH153B, Phy083, Phy081L
FIL093	Pagbasa at Pagsulat Tungo sa Pananaliksik	3			3	FIL083
GEC073	Ethics	3			3	
LQEC553	Letran Quality Enrichment Course 55	3			3	LQEC543
MATH223	Differential Equations	3			3	MATH153B
ME002L	Machine Shop Theory and Practice Lab		2	6	2	ME001L
ME032C	Machine Elements	2			2	Drw051L, Phy083, Phy081L; co-req: ME031C-L
ME031C-L	Machine Elements Lab		1	3	1	Drw051L, Phy083, Phy081L; co-req: ME032C
ME043C	Thermodynamics I	3			3	Phy083, Phy081L
PE032-18	Individual/Dual Sports	2			2	PE002-18
	<b>Total</b>	<b>24</b>	<b>5</b>	<b>15</b>	<b>29</b>	
<b>SECOND YEAR, Second Semester</b>						
EE062B	Basic Electronics	2			2	EE012B, EE011B-L; co-req: EE061B-L
EE061B-L	Basic Electronics Lab		1	3	1	EE012B, EE011B-L; co-req: EE062B
ENGG002	Dynamics of Rigid Bodies	2			2	ENGG003; co req ENGG063
ENGG063	Mechanics of Deformable Bodies	3			3	ENGG003; co req ENGG002
ENGG112	Engineering Management	2			2	GEC073
FIL113	Panitikang Filipino	3			3	FIL093
ME043D	Thermodynamics II	3			3	ME043C
ME071B-L1	Mechanical Engineering Lab I		1	3	1	ME002L
ME092B	Heat Transfer	2			2	ME043C
PE042-18	Team Sports	2			2	PE002-18
RELED063	Contemporary Issues in Christian Marriage	3			3	RELED051
	<b>Total</b>	<b>22</b>	<b>2</b>	<b>6</b>	<b>24</b>	
<b>THIRD YEAR, First Semester</b>						
EE022C	DC and AC Machinery	2			2	EE012B, EE011B-L
ENGG093	Fluid Mechanics	3			3	ME043D
GEC043	The Contemporary World	3			3	
GEC053	Art Appreciation	3			3	
MATHME253	Advanced Engineering Math for ME	3			3	MATH223
ME052B	Material Science & Engineering for ME	2			2	ENGG063
ME082B	Combustion Engineering	2			2	ME092B
ME063C	Machine Design I	3			3	ENGG063, ME032C, ME031C-L
ME113B	Refrigeration Systems	3			3	ME092B
RELED073	Contemporary Issues about Church and Human Society with Immersion	3			3	RELED051
RZL023	Buhay at Mga Akda ni Rizal	3			3	
	<b>Total</b>	<b>30</b>			<b>30</b>	

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COURSE CODE	COURSE TITLE	Lec	Lab		TOTAL	PRE-REQUISITES/ CO-REQUISITES
		Units/Hours	Units	Hrs		
<b>THIRD YEAR, Second Semester</b>						
EE021C-L	DC and AC Machinery Lab		1	3	1	EE012B, EE011B-L; EE022C
ENGG103	Engineering Economics	3			3	co req , ENGG193, ME-PS1
ENGG183	Basic Occupational Safety and Health	3			3	GEC013, GEC043
ENGG193	Technopreneurship	3			3	co req ENGG103
ME101A	Methods of Research for ME	1			1	co req ME-PS1
ME051B-L	Material Science & Engineering for ME Lab		1	3	1	ENGG063; ME052B
ME062D	Machine Design II	2			2	ME063C; co req ME061D-L
ME061D-L	Machine Design II Lab		1	3	1	ME063C; co req ME062D
ME072B-L2	Mechanical Engineering Lab II		2	6	2	ME071B-L1
ME123A	Fluid Machineries	3			3	ENGG093; co req ME-PS1
ME143C	Airconditioning and Ventilation Systems	3			3	ME113B
ME153A	Industrial Plant Engineering and Design	3			3	ENGG093, ME071B-L1, ME092B; co req ME151A-L
ME151A-L	Industrial Plant Engineering and Design Lab		1	3	1	ENGG093, ME071B-L1, ME092B; co req ME153A
ME-PS1	ME Project Study I		1	3	1	ME063C, ME113B; co-req ENGG103, ME101A, ME123A
	<b>Total</b>	<b>21</b>	<b>7</b>	<b>21</b>	<b>28</b>	
<b>THIRD YEAR, Inter-Semester</b>						
ME221	*Manufacturing & Industrial Processes with Plant Visit	1			1	ME153A, ME151A-L; co-req: ME221L
ME221L	*Manufacturing & Industrial Processes with Plant Visit Lab		1	3	1	ME153A, ME151A-L; co-req: ME221
	<b>Total</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>2</b>	
<b>FOURTH YEAR, First Semester</b>						
ME072B-L3	Mechanical Engineering Lab III		2	6	2	ME072B-L2, ME143C; co req ME193, ME191L
ME132B	Vibration Engineering	2			2	MATHME253
ME182A	ME Laws, Ethics, Codes, and Standards	2			2	ENGG193
ME193	Power Plant Design with Renewable Energy	3			3	ME153A, ME151A-L; co req ME072B-L3, ME191L
ME191L	Power Plant Design with Renewable Energy Lab		1	3	1	ME153A, ME151A-L; co req ME072B-L3, ME193
ME262	Control Engineering	2			2	EE062B, EE061B-L, ME072B-L2; co-req: ME261L
ME261L	Control Engineering Lab		1	3	1	EE062B, EE061B-L, ME072B-L2; co-req: ME262
ME-PS2	ME Project Study II		1	3	1	ME-PS1
	<b>Total</b>	<b>9</b>	<b>5</b>	<b>15</b>	<b>14</b>	
<b>FOURTH YEAR, Second Semester</b>						
ME-ELEC1	Solar Energy and Wind Energy Utilization	3			3	ME-PS2,ME182A,ME262,ME261L,LQEC553,ME193, ME191L co req ME-ELEC2,ME-ST006
ME-ELEC2	Energy Management System in Building	3			3	ME-PS2,ME182A,ME262,ME261L,LQEC553,ME193, ME191L co req ME-ELEC1,ME-ST006
ME-ST006	Special Topics for ME	6			6	ME-PS2,ME182A,ME262,ME261L,LQEC553,ME193, ME191L co req ME-ELEC1,ME-ELEC2
	<b>Total</b>	<b>12</b>			<b>12</b>	
<b>GRAND TOTAL</b>		<b>167</b>	<b>26</b>	<b>78</b>	<b>193</b>	

\*OJT (300 hrs) may be substituted for Manufacturing & Industrial Processes with Plant Visit (ME221) and Manufacturing & Industrial Processes with Plant Visit Laboratory (ME221L).