



### FIRST YEAR, 1st Semester

Subject Code	Subject Description	No. of Hours		Units	Pre-requisite/ (Corequisite)
		Lec	Lab		
_____ Math 1	Calculus 1	4	0	4	-
_____ Chem Lec	Chemistry for Engineers	3	0	3	-
_____ Chem Lab	Chemistry for Engineers Lab	0	3	1	-
_____ GEC-Math	Mathematics in the Modern World	3	0	3	-
_____ GEC-UTS	Understanding the Self	3	0	3	-
_____ NSTP 1	National Service Training 1	3	0	3	-
_____ PE 1	Physical Fitness and Gymnastics	2	0	2	-
_____ BSC 1	Being Skills Course 1	1.5	0	1.5	-
_____ Math 0	Foundation Mathematics	3	0	3	-
	<b>TOTAL</b>	<b>22.5</b>	<b>3</b>	<b>23.5</b>	

### FIRST YEAR, 2nd Semester

Subject Code	Subject Description	No. of Hours		Units	Pre-requisite/ (Corequisite)
		Lec	Lab		
_____ Math 2	Calculus 2	4	0	4	Math 1
_____ Phys Lec	Physics for Engineers	3	0	3	(Math 2)
_____ Phys Lab	Physics for Engineers lab	0	3	1	(Math 2)
_____ BES-Draw	Engineering Drawing	0	3	1	-
_____ BES-CAD	Computer-Aided Drafting	0	3	1	(BES-Draw)
_____ GEC-RPH	Readings in Philippine History	3	0	3	-
_____ GEC-PCom	Purposive Communication	3	0	3	-
_____ PE 2	Rhythmic Activities	2	0	2	PE 1
_____ NSTP 2	National Service Training Program 2	3	0	3	NSTP 1
_____ BSC 2	Being Skills Course 2	1.5	0	1.5	BSC 1
	<b>TOTAL</b>	<b>19.5</b>	<b>9</b>	<b>22.5</b>	

### FIRST YEAR, Summer

Subject Code	Subject Description	No. of Hours		Units	Pre-requisite/ (Corequisite)
		Lec	Lab		
_____ ME Ortn	Orientation to ME	1	0	1	-
_____ ME Shop 1	Workshop Theory and Practice	0	3	1	-
_____ GEC-Ethics	Ethics	3	0	3	-
_____ Emgt	Engineering Management	2	0	2	-
	<b>TOTAL</b>	<b>6</b>	<b>3</b>	<b>7</b>	

### SECOND YEAR, 1st Semester

Subject Code	Subject Description	No. of Hours		Units	Pre-requisite/ (Corequisite)
		Lec	Lab		
_____ Math 3	Differential Equations	3	0	3	Math 2
_____ GEC-Art	Arts Appreciation	3	0	3	-
_____ CpE 211	Computer Fundamentals and Programming	0	6	2	Phys Lec/Lab; Math 2
_____ Mech 211	Statics of Rigid Bodies	3	0	3	Phys Lec/Lab; Math 2
_____ Thermo 1	Thermodynamics 1	3	0	3	Phys Lec/Lab; Math 2
_____ Math 4	Engineering Data Analysis	3	0	3	Math 1
_____ ME Shop 2	Machine Shop Theory	0	6	2	ME Shop 1
_____ GEC-TCW	The Contemporary World	3	0	3	-
_____ PE 3	Individual/Dual Sports	2	0	2	PE 2
_____ GEC-STC	Science, Technology and Society	3	0	3	-
	<b>TOTAL</b>	<b>23</b>	<b>12</b>	<b>27</b>	

### SECOND YEAR, 2nd Semester

Subject Code	Subject Description	No. of Hours		Units	Pre-requisite/ (Corequisite)
		Lec	Lab		
_____ Mech 223	Mechanics of Deformable Bodies	3	0	3	Mech 211
_____ Mech 222	Dynamics of Rigid Bodies	2	0	2	Mech 211
_____ ME 224 Lec	Materials Science & Engineering for ME	2	0	2	Mech 223; Chem Lec/Lab
_____ ME 224 Lab	Materials Science & Engineering for ME Lab	0	3	1	Mech 223; Chem Lec/Lab
_____ Thermo 2	Thermodynamics 2	3	0	3	Thermo 1
_____ Math 5	Advanced Mathematics for ME	3	0	3	Math 3
_____ EE 214 Lec	Basic Electrical Engineering	2	0	2	Phys Lec/Lab; Math 2
_____ EE 214 Lab	Basic Electrical Engineering Lab	0	3	1	Phys Lec/Lab; Math 2
_____ Mech 224	Fluid Mechanics	3	0	3	Thermo 1; (Mech 222)
_____ ME 221	Heat Transfer	3	0	3	Thermo 1
_____ PE 4	Team Sports and Recreation	2	0	2	PE 3
_____ EPC	English proficiency Course	3	0	3	GEC-PCom
	<b>TOTAL</b>	<b>26</b>	<b>6</b>	<b>28</b>	



**LPU**  
LYCEUM OF THE PHILIPPINES UNIVERSITY  
MANILA - MAKATI - BATANGAS - LAGUNA - CAVITE - DAVAO

**COLLEGE OF ENGINEERING  
BS MECHANICAL ENGINEERING CURRICULUM  
Academic Year 2021-2022**

**Office of the College of Engineering**  
Tel. No.: (043) 723 0054 loc. 134

*As of November 3, 2020*

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**SECOND YEAR, Summer**

Subject Code	Subject Description	No. of Hours		Units	Pre-requisite/ (Corequisite)
		Lec	Lab		
ME 232 Lec	Machine Elements	2	0	2	Mech 222
ME 232 Lab	Machine Elements Lab	0	3	1	Mech 222
ME 233	Vibration Engineering	2	0	2	Math 3
Cp E 232	Computer Applications for ME	0	3	1	CpE 211
<b>TOTAL</b>		<b>4</b>	<b>6</b>	<b>6</b>	

**THIRD YEAR, 1st Semester**

Subject Code	Subject Description	No. of Hours		Units	Pre-requisite/ (Corequisite)
		Lec	Lab		
ME 314	Machine Design 1	3	0	3	ME 232 Lec/Lab; Mech 223
ECE 310 Lec	Basic Electronics	2	0	2	(EE 214 Lec/Lab)
ECE 310 Lab	Basic Electronics Lab	0	3	1	(EE 214 Lec/Lab)
ME Lab 1	Mechanical Engineering Lab 1	0	3	1	Thermo 2
ME 315	Refrigeration Systems	3	0	3	ME 221
Mech 315	Fluid Machineries	3	0	3	Mech 224
ME Elec 2	Mechanical Engineering Elective 2	2	0	2	3 <sup>rd</sup> Year Standing
ME Elec 1	Mechanical Engineering Elective 1	2	0	2	3 <sup>rd</sup> Year Standing
ME 316	Combustion Engineering	3	0	3	Thermo 2
MR	Methods of Research for ME	3	0	3	Math 4
<b>TOTAL</b>		<b>21</b>	<b>6</b>	<b>23</b>	

**THIRD YEAR, 2nd Semester**

Subject Code	Subject Description	No. of Hours		Units	Pre-requisite/ (Corequisite)
		Lec	Lab		
Rizal	Life and Works of Rizal	3	0	3	
ME 326	Air-conditioning and Ventilation Systems	3	0	3	ME 315
ME Lab 2	Mechanical Engineering Lab 2	0	6	2	Mech 315; ME Lab 1
EE 325 Lec	DC and AC Machinery	2	0	2	EE 214 Lec/Lab
EE 325 Lab	DC and AC Machinery Lab	0	3	1	EE 214 Lec/Lab
Tech	Technopreneurship 101	3	0	3	-
ME 328 Lec	Power Plant Design with Renewable Energy	3	0	3	ME 316
ME 329 Lab	Machine Design 2 Lab	0	3	1	ME 314
ME 329 Lec	Machine Design 2	3	0	3	ME 314
ME PS 1	ME Project Study 1	0	3	1	MR
BES-Eeco	Engineering Economics	3	0	3	
<b>TOTAL</b>		<b>20</b>	<b>15</b>	<b>25</b>	

**THIRD YEAR, Summer/Mid-Year**

Subject Code	Subject Description	No. of Hours		Units	Pre-requisite/ (Corequisite)
		Lec	Lab		
ME 328 Lab	Power Plant Design with Renewable Energy Lab	0	3	1	ME 316
EE 334 Lec	Control Engineering	2	0	2	ECE 220 Lec/Lab
EE 334 Lab	Control Engineering Lab	0	3	1	ECE 220 Lec/Lab
ME Laws	ME Laws, Ethics, Contracts, Codes & Standards	2	0	2	GEC-Ethics
<b>TOTAL</b>		<b>4</b>	<b>6</b>	<b>6</b>	

**FOURTH YEAR, 1st Semester**

Subject Code	Subject Description	No. of Hours		Units	Pre-requisite/ (Corequisite)
		Lec	Lab		
SP 2	Special Topics on Steam Power Engineering	3	0	3	4 <sup>th</sup> Year Standing
SP 3	Special Topics on Industrial Engineering	3	0	3	4 <sup>th</sup> Year Standing
ME 4110 Lec	Industrial Plant Engineering	3	0	3	ME 326; (ME 4111)
ME 4110Lab	Industrial Plant Engineering Lab	0	3	1	ME 326; (ME 4111)
ME 4111 Lec	Manufacturing & Industrial Processes with Plant Visits	1	0	1	ME 326
ME 4111 Lab	Manufacturing & Industrial Processes with Plant Visits Lab	0	3	1	ME 326
ME PS 2	ME Project Study 2	0	3	1	ME PS 1
SP 1	Special Topics on Mathematics and Machine Design	3	0	3	ME 329 Lec/Lab; BES-Eeco; Thermo 2
ME Lab 3	Mechanical Engineering Lab 3	0	6	2	ME Lab 2; ME 328 Lec/Lab; ME 326
BOSH	Basic Occupational Safety and Health	3	0	3	-
FL	Foreign Language	3	0	3	
<b>TOTAL</b>		<b>19</b>	<b>15</b>	<b>24</b>	

**FOURTH YEAR, 2nd Semester**

Subject Code	Subject Description	No. of Hours		Units	Pre-requisite/ (Corequisite)
		Lec	Lab		
OJT	On-the-Job Training	0	500	5	4 <sup>th</sup> Year Standing
<b>TOTAL</b>		<b>0</b>	<b>500</b>	<b>5</b>	

**ME Electives:**

- Solar Energy and Wind Energy Utilization
- Micro-Hydro-Electric Power