

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Curriculum applicable to students who entered as freshmen beginning school year 2020-2021

FIRST SEMESTER							SECOND SEMESTER						
CODE	TITLE	LEC HRS	LAB HRS	UNITS	PRE REQUISITES	CO-REQUISITES	CODE	TITLE	LEC HRS	LAB HRS	UNITS	PRE REQUISITES	CO-REQUISITES
CHM031	CHEMISTRY FOR ENGINEERS	3.0	-	3.0	None	None	CHM021L	CHEMISTRY FOR ENGINEERS (LABORATORY)	-	3.0	1.0	None	CHM031
ENG023	RECEPTIVE COMMUNICATION SKILLS	3.0	-	3.0	None	None	CPE001L	COMPUTER FUNDAMENTALS AND PROGRAMMING 1 (LAB)	-	3.0	1.0	None	None
HUM021	LOGIC AND CRITICAL THINKING	3.0	-	3.0	None	None	DRAW021W	ENGINEERING DRAWING 1	-	3.0	1.0	None	None
HUM039	ETHICS	3.0	-	3.0	None	None	ENG024	WRITING FOR ACADEMIC STUDIES	3.0	-	3.0	None	None
MATH035	MATHEMATICS IN THE MODERN WORLD	3.0	-	3.0	None	None	MATH054	ENGINEERING CALCULUS 2	5.0	-	5.0	MATH053	None
MATH053	ENGINEERING CALCULUS 1	5.0	-	5.0	None	None	IE101-1	ENGINEERING DATA ANALYSIS	3.0	-	3.0	MATH053	None
SS021	UNDERSTANDING THE SELF	3.0	-	3.0	None	None	PHY033	PHYSICS FOR ENGINEERS	4.0	-	4.0	MATH053	None
VE021	LIFE COACHING SERIES 1	1.0	-	(1.0)	None	None	PHY033L	PHYSICS FOR ENGINEERS (LABORATORY)	-	3.0	1.0	MATH053	PHY033
	TOTAL	24.0	0.0	23.0			SS036	SCIENCE, TECHNOLOGY AND SOCIETY	3.0	-	3.0	None	None
							NSTP010	NATIONAL SERVICE TRAINING PROGRAM 1	3.0	-	(3.0)	None	None
							VE022	LIFE COACHING SERIES 2	1.0	-	(1.0)	None	None
							TOTAL	22.0	12.0	22.0			

FIRST SEMESTER							SECOND SEMESTER						
CODE	TITLE	LEC HRS	LAB HRS	UNITS	PRE REQUISITES	CO-REQUISITES	CODE	TITLE	LEC HRS	LAB HRS	UNITS	PRE REQUISITES	CO-REQUISITES
DRAW023L	COMPUTER-AIDED DRAFTING (LABORATORY)	-	3.0	1.0	DRAW021W	None	CE120	FLUID MECHANICS FOR ME	3.0	-	3.0	ME111-1	None
EE104-3	BASIC ELECTRICAL ENGINEERING FOR ME	2.0	-	2.0	PHY033	None	ECE121L	COMPUTER-AIDED CALCULATIONS (LABORATORY)	-	3.0	1.0	None	None
EE104L-3	BASIC ELECTRICAL ENGINEERING FOR ME (LABORATORY)	-	3.0	1.0	PHY033L	EE104-3	ECE104-1	BASIC ELECTRONICS	2.0	-	2.0	EE104-3	None
ECCO102	ENGINEERING ECONOMY	3.0	-	3.0	IE101-1	None	ECE104L-1	BASIC ELECTRONICS (LABORATORY)	-	3.0	1.0	EE104L-3	ECE104-1
MATH056	DIFFERENTIAL EQUATIONS	3.0	-	3.0	MATH054	None	EMGT100	ENGINEERING MANAGEMENT	2.0	-	2.0	ECCO102	None
ME100	ORIENTATION TO MECHANICAL ENGINEERING	1.0	-	1.0	None	None	ENG041	PURPOSIVE COMMUNICATION	3.0	-	3.0	None	None
ME101L	WORKSHOP THEORY AND PRACTICE (LABORATORY)	-	3.0	1.0	DRAW021W	None	HUM034	ART APPRECIATION	3.0	-	3.0	None	None
ME111-1	THERMODYNAMICS	3.0	-	3.0	MATH054, PHY033	None	MATH116	ADVANCED ENGINEERING MATHEMATICS	3.0	-	3.0	MATH056	None
MCE101-2	STATICS OF RIGID BODIES	3.0	-	3.0	MATH054, PHY033	None	MATH116E	ENGINEERING MATHEMATICS EXIT EXAM	-	-	0.0	IE101-1, MATH056	MATH116
SS022	READINGS IN PHILIPPINE HISTORY	3.0	-	3.0	None	None	ME112-1	THERMODYNAMICS 2	3.0	-	3.0	ME111-1	None
SS085	PHILIPPINE INDIGENOUS COMMUNITIES	3.0	-	3.0	None	None	MCE102-1	DYNAMICS OF RIGID BODIES	2.0	-	2.0	MCE101-2	None
PE021	MOVEMENT ENHANCEMENT	-	2.0	(2.0)	None	None	ME102L	MACHINE SHOP THEORY AND PRACTICE 1 (LABORATORY)	-	3.0	1.0	ME101L	None
NSTP011P	NATIONAL SERVICE TRAINING PROGRAM 2 (PAIRED)	2.0	3.0	(3.0)	NSTP010	None	PE022	FITNESS EXERCISES	1.0	-	(2.0)	PE021	None
VE023	LIFE COACHING SERIES 3	1.0	-	(1.0)	VE022	None	TOTAL	21.0	11.0	24.0			

SUMMER						
CODE	TITLE	LEC HRS	LAB HRS	UNITS	PRE REQUISITES	CO-REQUISITES
EENV102	ENVIRONMENTAL SCIENCE AND ENGINEERING	3.0	-	3.0	CHM031	None
GEELEC01	GE ELECTIVE 1	3.0	-	3.0	None	None
SAP102	BASIC OCCUPATIONAL SAFETY AND HEALTH	3.0	-	3.0	CHM031	None
TOTAL		9.0	0.0	9.0		

FIRST SEMESTER							SECOND SEMESTER						
CODE	TITLE	LEC HRS	LAB HRS	UNITS	PRE REQUISITES	CO-REQUISITES	CODE	TITLE	LEC HRS	LAB HRS	UNITS	PRE REQUISITES	CO-REQUISITES
CE104-1	MECHANICS OF DEFORMABLE BODIES FOR ME	3.0	-	3.0	MCE102-1	None	CAP200D	CAPSTONE DESIGN / THESIS 1 (LABORATORY)	-	3.0	1.0	RES101	None
EE108-1	DC/AC MACHINERY	2.0	-	2.0	EE104-3	None	MATH161	NUMERICAL METHODS	3.0	-	3.0	MATH116	None
EE108L-1	DC/AC MACHINERY (LABORATORY)	-	3.0	1.0	EE104L-3	EE108-1	MATH161L	NUMERICAL METHODS (LABORATORY)	-	3.0	1.0	MATH116, ECE121L	MATH161
GEELEC02	GE ELECTIVE 2	3.0	-	3.0	None	None	ME114-1	COMBUSTION ENGINEERING	2.0	-	2.0	ME112-1	None
ME103L	MACHINE SHOP THEORY AND PRACTICE 2 (LABORATORY)	-	3.0	1.0	ME102L	None	ME115-1E	REFRIGERATION SYSTEMS	3.0	-	3.0	ME113-1	None
ME113-1	HEAT TRANSFER	2.0	-	2.0	ME112-1, MATH056	None	ME115-1E	MECHANICAL ENGINEERING 1 EXIT EXAM	-	-	0.0	ME124P-1, ME111-1, ME112-1, ME101L, ME103L	None
ME113-1E	GENERAL ENGINEERING AND APPLIED SCIENCES EXIT EXAM	-	-	0.0	CHM031, PHY033, ECE102, EENV102, MCE101-2, MCE102-1	ME113-1	ME141L-1	MECHANICAL ENGINEERING 1 (LABORATORY)	-	3.0	1.0	ME112-1	None
ME124P-1	MACHINE ELEMENTS (PAIRED)	2.0	3.0	3.0	MCE102-1	None	ME151-1	FLUID MACHINERIES	3.0	-	3.0	CE120	None
ME130L-1	COMPUTER APPLICATIONS FOR MECHANICAL ENGINEERS (LABORATORY)	-	3.0	1.0	CPE001L	None	MEELEC01	ME ELECTIVE 1	3.0	-	3.0	None	None
ME172	VIBRATION ENGINEERING	2.0	-	2.0	MATH056	None	MSE102-1	FUNDAMENTALS OF MATERIAL SCIENCE AND ENGINEERING FOR ME	2.0	-	2.0	CE104-1, CHM031	None
RES101	METHODS OF RESEARCH	3.0	-	3.0	IE101-1, ENG024	None	MSE102L-1	FUNDAMENTALS OF MATERIAL SCIENCE AND ENGINEERING FOR ME (LABORATORY)	-	3.0	1.0	CE104-1, CHM031	MSE102-1
SS023	THE CONTEMPORARY WORLD	3.0	-	3.0	None	None	TEC100	TECHNOPRENEURSHIP	3.0	-	3.0	EMGT100	None
PE023	PHYSICAL ACTIVITY TOWARDS HEALTH AND FITNESS 1	-	2.0	(2.0)	PE022	None	PE024	PHYSICAL ACTIVITY TOWARDS HEALTH AND FITNESS 2	-	2.0	(2.0)	PE023	None
TOTAL		20.0	14.0	24.0			TOTAL	19.0	14.0	23.0			

SUMMER						
CODE	TITLE	LEC HRS	LAB HRS	UNITS	PRE REQUISITES	CO-REQUISITES
ME199R-1	ME PRACTICUM	-	20.0	3.0	ME113-1, ME102L, HUM039	None
TOTAL		0.0	20.0	3.0		

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CAP200D-1	CAPSTONE DESIGN / THESIS 2 (LABORATORY)	-	3.0	1.0	CAP200D	None	ME117P-1	INDUSTRIAL PLANT ENGINEERING (PAIRED)	3.0	3.0	4.0	ME116-1	ME191P
CAP200D-2	CAPSTONE DESIGN / THESIS 3 (LABORATORY)	-	3.0	1.0	CAP200D	CAP200D-1	ME132P-1	MACHINE DESIGN 2 (PAIRED)	3.0	3.0	4.0	ME131-1	None
ECE135-1	CONTROL ENGINEERING	2.0	-	2.0	ECE104-1	None	ME132-1E	MECHANICAL ENGINEERING 3 EXIT EXAM	-	-	0.0	ME162P, ME116-1, ME131-1	ME132P-1
ECE135L-1	CONTROL ENGINEERING (LABORATORY)	-	3.0	1.0	ECE104-1	ECE135-1	ME143L-1	MECHANICAL ENGINEERING 3 (LABORATORY)	-	6.0	2.0	ME142L-1, ME162P	None
ME116-1	AIR-CONDITIONING AND VENTILATION SYSTEMS	3.0	-	3.0	ME115-1	None	ME191P	MANUFACTURING & INDUSTRIAL PROCESSES WITH PLANT VISITS (PAIRED)	1.0	3.0	2.0	MSE102-1	None
ME131-1	MACHINE DESIGN 1	3.0	-	3.0	ME124P-1	None	MEELEC03	ME ELECTIVE 3	3.0	-	3.0	None	None
ME131-1E	MECHANICAL ENGINEERING 2 EXIT EXAM	-	-	0.0	CE120, ME151-1, ME114-1	ME131-1	SS038	THE LIFE AND WORKS OF JOSE RIZAL	3.0	-	3.0	None	None
ME142L-1	MECHANICAL ENGINEERING 2 (LABORATORY)	-	6.0	2.0	ME141L-1, ME151-1	None	ME198-2	ME CORRELATION 2	6.0	-	(1.0)	ECE135-1, ME162P, ME116-1, ME113-1E, ME115-1E, ME131-1E	ME132-1E
ME162P	POWER PLANT DESIGN WITH RENEWABLE ENERGY (PAIRED)	3.0	3.0	4.0	ME114-1, ME151-1	None	TOTAL	19.0	15.0	18.0			
ME181	ME LAWS, CONTRACTS AND ETHICS	3.0	-	3.0	HUM039	None							
MEELEC02	ME ELECTIVE 2	3.0	-	3.0	None	None							
COR198	CORRELATION 1	6.0	-	(1.0)	CHM031, MATH116, MATH116E, PHY033, ECE102	None							
TOTAL		23.0	18.0	23.0									

Required Units of Electives : 9 units

ELECTIVE TITLE 2019						
CODE	TITLE	LEC HRS	LAB HRS	UNITS	PRE REQUISITES	CO-REQUISITES
ECE139P-1	FUNDAMENTALS OF MECHATRONICS (PAIRED)	2.0	3.0	3.0	ECE104-1	None
ECE139P-2	INTRODUCTION TO ROBOTICS (PAIRED)	2.0	3.0	3.0	ECE104-1	None
ECE139P-3	INDUSTRIAL ROBOTICS (PAIRED)	2.0	3.0	3.0	ECE135-1, ECE139P-2	None
ME166-1	ALTERNATIVE ENERGY RESOURCES	3.0	-	3.0	ME113-1	None
ME166-2	NUCLEAR AND GEOTHERMAL ENERGY	3.0	-	3.0	ME151-1	None
ME166-3	SOLAR AND WIND UTILIZATION	3.0	-	3.0	ME151-1	None
ME166-4	MICRO-HYDRO ELECTRIC PLANT DESIGN	3.0	-	3.0	ME151-1	None
ME194	SPECIAL TOPICS IN MECHANICAL ENGINEERING	3.0	-	3.0	None	None
AENG016	RENEWABLE ENERGY FOR AB APPLICATIONS	3.0	-	3.0	ME151-1	None
AENG017	AB MACHINERY AND MECHANIZATION	3.0	-	3.0	ME124P-1	None
AENG018	MACHINE DESIGN FOR AB PRODUCTION	3.0	-	3.0	ME131-1	None

NOTE: Elective courses offering per semester will depend on the availability of instructor and compliance of prerequisite courses for specific elective course.

GENERAL EDUCATION ELECTIVE TITLE 2020

CODE	TITLE	LEC HRS	LAB HRS	UNITS	PRE REQUISITES	CO-REQUISITES
ENV075	ENVIRONMENTAL SCIENCE	3.0	-	3.0	None	None
ENV076	PEOPLE AND THE EARTH'S ECOSYSTEM	3.0	-	3.0	None	None
ENV078	THE ENTREPRENEURIAL MIND	3.0	-	3.0	None	None
HUM080	PHILIPPINE POPULAR CULTURE	3.0	-	3.0	None	None
HUM081	INDIGENOUS CREATIVE CRAFTS	3.0	-	3.0	None	None
HUM082	READING VISUAL ART	3.0	-	3.0	None	None
HUM083	GREAT BOOKS	3.0	-	3.0	None	None
SS084	RELIGIONS, RELIGIOUS EXPERIENCES AND SPIRITUALITY	3.0	-	3.0	None	None
SS086	GENDER AND SOCIETY	3.0	-	3.0	None	None