



BACHELOR OF ENGINEERING TECHNOLOGY
Major in MECHANICAL ENGINEERING TECHNOLOGY (BET-MET)

(List of Courses By Semester)

BOR Resolution No129 Series of 2018

FIRST YEAR, FIRST SEMESTER

Course No	Course Title	Units	Hours/Week		Total	Pre-requisite(s)	Co-requisite(s)
			Lec	Lab			
GEC101	Understanding the Self	3	3	0	3	None	None
GEC102	Purposive Communication	3	3	0	3	None	None
GEC104	Mathematics in the Modern World	3	3	0	3	None	None
MAT039	Calculus for Engineering Technologists 1	3	3	0	3	None	None
BET111.2	Computer-Aided Drafting for Manufacturing Laboratory	2	0	6	6	None	None
BET113	Electricity	2	1	3	4	None	None
BET114	Engineering Measurement	2	1	3	4	None	None
BET117	Technology Awareness	2	2	0	2	None	None
BMT111	Fabrication and Fitting	2	1	3	4	None	None
BMT112.1	Manufacturing Processes Laboratory	1	0	3	3	None	None
PED001	Exercise Prescription and Management	2	2	0	2	None	None
NST001	National Service Training Program 1	(3)	0	3	3	None	None
TOTAL		25 (28)	19	21	40		

FIRST YEAR, SECOND SEMESTER

Course No	Course Title	Units	Hours/Week		Total	Pre-requisite(s)	Co-requisite(s)
			Lec	Lab			
MAT040	Calculus for Engineering Technologists 2	3	3	0	3	MAT039	None
CHM018	Chemistry for Engineering Technologists	3	3	0	3	None	CHM018.1
CHM018.1	Chemistry for Engineering Technologists Laboratory	1	0	3	3	None	CHM018
PHY051	College Physics	3	3	0	3	None	PHY051.1, (MAT040/MAT060)
PHY051.1	College Physics Laboratory	1	0	3	3	None	PHY051
BET112	Basic Occupational, Health and Safety Engineering	3	3	0	3	None	None
BET115	Electronics	2	1	3	4	None	None
BMT121	Thermal Principles	3	3	0	3	MAT039	None
BMT122	Properties of Engineering Materials	3	3	0	3	None	CHM018
PED002	Dance/ Martial Arts	2	2	0	2	PED001	None
NSTP2	National Service Training Program 2	(3)	0	3	3	NST001	None
TOTAL		24 (27)	21	12	33		



SECOND YEAR, FIRST SEMESTER

Course No	Course Title	Units	Hours/Week		Total	Pre-requisite(s)	Co-requisite(s)
			Lec	Lab			
GEC106	Art Appreciation	3	3	0	3	None	None
BET119	Engineering Mechanics	3	3	0	3	PHY051	None
BMT131	Heat Treatment and Material Testing	3	2	3	5	BMT122	None
BMT132	Fluid Mechanics for Engineering Technologists	3	2	3	5	PHY051	None
BMT133	Heat Transfer	3	3	0	3	BMT121	None
BMT134.2	Engine and Auxiliary Systems Laboratory	2	0	6	6	None	None
BMT135	Strength of Materials for Engineering Technologists	2	1	3	4	BMT122	None
BMT136	Refrigeration Technology and Applications	2	1	3	4	BMT121	None
PED003	Individual/Dual Sports/ Traditional/ Recreational Games	2	2	0	2	PED001	None
	TOTAL	23	17	18	35		

SECOND YEAR, SECOND SEMESTER

Course No	Course Title	Units	Hours/Week		Total	Pre-requisite(s)	Co-requisite(s)
			Lec	Lab			
FPE101	Fundamentals of Peace Education	3	3	0	3	None	None
BET116	Technical Writing	3	3	0	3	None	None
BMT141	Kinematics of Machine Elements	2	1	3	4	MAT040	None
BMT142	Fuels And Combustion	3	3	0	3	CHM018	None
BMT143.2	Automotive Electrical and Electronic Systems Laboratory	2	0	6	6	BMT134.2	None
BMT144	Machine Parts Design	2	1	3	4	BMT135	None
BMT145	Advance Machine Tools Practices	2	1	3	4	BET111	None
BMT146	Air Conditioning Technology and Applications	2	1	3	4	BMT121	None
BMT147	Refrigeration Instrumentation and Controls	2	1	3	4	BMT136	BMT146
PED004	Team Sports	2	2	0	2	PED001	None
	TOTAL	23	16	21	37		



THIRD YEAR, FIRST SEMESTER

Course No	Course Title	Units	Hours/Week		Total	Pre-requisite(s)	Co-requisite(s)
			Lec	Lab			
GEC105	Readings in Philippine History	3	3	0	3	None	None
GEC109	Life and Works of Rizal	3	3	0	3	None	None
FIL101	Wika at Kultura sa MapayapangLipunan	3	3	0	3	None	None
BET120	Data Analysis	3	3	0	3	MAT039	None
BMT151	Pneumatics and Hydraulics	2	1	3	4	BMT132	None
BMT152	Electronic Fuel Injection and Common Rail Diesel Injection Fuel Systems	2	1	3	4	BMT143	None
BMT153.2	Mechanical and Hydraulic Drive Train Systems Laboratory	2	0	6	6	None	BMT151
BMT154	Computerized Numerical Control Machining Processes	2	1	3	4	BMT145	None
BMT155.1	Tool and Die Making Laboratory	1	0	3	3	BMT145	None
BMT156	Cooling Load Estimates and Equipment Selection	2	1	3	4	BMT146	None
	TOTAL	23	16	21	37		

THIRD YEAR, SECOND SEMESTER

Course No	Course Title	Units	Hours/Week		Total	Pre-requisite(s)	Co-requisite(s)
			Lec	Lab			
GEC103	The Contemporary World	3	3	0	3	None	None
FIL102	Ekokritisismo at Pagpapahalaga sa Kalikasan	3	3	0	3	FIL101	None
ENS191	Engineering Economy	3	3	0	3	GEC104	ENS185/ BET120
BET198	Research Methods	3	2	3	5	BET120	None
BMT161	Underchassis and Undercarriage System	2	1	3	4	BMT153.2	None
BMT162.1	Powertrain Electrification Laboratory	1	0	3	3	BMT152	None
BMT163	Tribology	2	1	3	4	PHY051	None
BMT164	Power Plant Technology	2	1	3	4	BMT121, BMT132	None
BMT165	Ducting and Piping Networks	2	1	3	4	BMT156	None
BMT166	Refrigeration Equipment Troubleshooting	2	1	3	4	BMT147	None
	TOTAL	23	16	21	37		



FOURTH YEAR, FIRST SEMESTER

Course No	Course Title	Units	Hours/Week		Total	Pre-requisite/(s)	Co-requisite/(s)
			Lec	Lab			
GEC107	Ethics	3	3	0	3	None	None
GEC108	Science, Technology and Society	3	3	0	3	None	None
HIS003	History of Filipino Muslims and Indigenous Peoples of MINSUPALA	3	3	0	3	None	None
ENS192	Engineering Management	3	3	0	3	ENS191	None
ENS193	Technopreneurship for Engineers and Technologists	3	3	0	3	ENS191	ENS192
BMT171.1	Field Trips and Seminars	1	0	3	3	BMT165, BMT164, BMT161	None
BMT172.1	Automotive Telematics Laboratory	1	0	3	3	BMT162.1	None
BMT173.2	Automotive Servicing Laboratory	2	0	6	6	BMT161	None
BMT174.1	Vibration Technology Laboratory	1	0	3	3	BET119	None
BMT199	Undergraduate Thesis	3	1	6	7	BET198, BMT165, BMT164, BMT161	None
TOTAL		23	16	21	37		

FOURTH YEAR, SECOND SEMESTER

Course No	Course Title	Units	Hours/Week		Total	Pre-requisite/(s)	Co-requisite/(s)
			Lec	Lab			
BMT197	On-The-Job Training	12	0	40	40	BMT171.1 BMT172.1 BMT173.2 BMT174.1 BMT199	None
TOTAL		12	0	40	40		

Graduated: Bachelor of Engineering Technology major in *Mechanical Engineering Technology*
Grand Total Units : 176 (182)