

Bachelor Degree in Electrical Engineering Technology

Preparatory Year +2 +2 program.

Preparatory Year Requirements:

Engineering Stream:

LEVEL I

Course Code	Course Title	Weekly Contact Hours		Credit Hours	Pre-req
		LT	LB		
GES 021	Math I	3	0	3	-
*MIT 012	Introduction to Computer	0	1	1	-
*ELI 001	English A1	4	0	4	-
*ELI 002	English A2	4	0	4	-
Total		11	1	12	

LEVEL II

Course Code	Course Title	Weekly Contact Hours		Credit Hours	Pre-req
		LT	LB		
GES 006	Study Skills	1	0	1	
GES 022	Math II	4	0	4	GES 021
*ELI 003	English B1	4	0	4	
*ELI 004	English B1 Plus	4	0	4	
Total		13	0	13	

Degree Requirements:

Bachelor of Science in Electrical Engineering Technology (ELET)

1st YEAR LEVEL I						
Course Code	Course Title	Lec	Lab	Credit	Pre-req	
ELC 103	English III	2	3	3	ELC 012	
MME 103	Industrial Safety and Environment	1	0	1	-	
GES 113	Calculus I	3	3	4	GES 022	
EEE 101	Electrical Circuits I	2	3	3	-	
EEE 121	Instrumentation and Measurements I	2	3	3	-	
GES 132	Fundamentals of Physics	3	4	4	-	
TOTAL		13	16	18		

1st YEAR LEVEL II						
Course Code	Course Title	Lec	Lab	Credit	Pre-req	
MME 102	Workshop Technology	0	2	1	-	
ELC 104	English IV	2	3	3	ELC 103	
EEE 111	Electrical Machines I	2	3	3	EEE 101	
EEE 112	Electrical Circuits II	2	3	3	EEE 101	
EEE 113	Electronics	3	3	4	EEE 101	
GES 151	General Chemistry	2	4	3	-	
TOTAL		11	18	17		

2nd YEAR LEVEL I						
Course Code	Course Title	Lec	Lab	Credit	Pre-req	
ELC 205	Technical Writing	2	3	3	ELC 104	

EEE 201	Electrical Machines II	2	3	3	EEE 111 & EEE 112
EEE 202	Electrical Control and Protection I	2	3	3	EEE 111
EEE 203	Power Electronics	2	3	3	EEE 113
EEE 204	Electrical Wiring	2	3	3	EEE 112
MIT 203	Organization Behavior and Ethics	2	0	2	-
MIT 170	Computer Applications	0	2	1	MIT 011
TOTAL		12	17	18	

2nd YEAR LEVEL II					
Course Code	Course Title	Lec	Lab	Credit	Pre-req
GES 271	Islamic Culture	1	0	1	-
MME 224	Power Plant Operation	1	0	1	-
EEE 212	Transmission and Distribution of Electrical Energy	2	3	3	EEE 112
EEE 213	ELET Project	0	4	2	EEE 201 & EEE 202
EEE 211	Electrical Troubleshooting	2	3	3	EEE 202
EEE 233	Programmable Logic Controllers	2	3	3	EEE 113 or EEE 132
XXX xxx	Elective*	2/3	3/0	3	-
TOTAL		10/11	16/13	16	

EEE 290	Cooperative Work Experience	0	40	3	-
Total credit hours		72			

3rd YEAR LEVEL I					
Course Code	Course Title	Lec	Lab	Credit	Pre-req
GES 313	Calculus II	3	3	4	GES 113
MME 151	Fluid Mechanics and Heat Transfer	2	2	3	GES 132
GES 332	College Physics	3	3	4	GES 132
MIT 369	Computer Programming	1	3	2	MIT 011
EEE 224	Introduction to Microprocessors	2	3	3	EEE 113 or EEE 132
TOTAL		11	15	16	

3rd YEAR LEVEL II					
Course Code	Course Title	Lec	Lab	Credit	Pre-req
GES 314	Engineering Mathematics	3	3	4	GES 313
EEE 421	Control Engineering	2	3	3	GES 313
CHM 212	Quality Control	2	0	2	-
EEE 312	Electrical Drive Systems	2	4	3	EEE 201 & EEE 203
EEE 311	Network Analysis	2	3	3	GES 313 & EEE 112
TOTAL		11	13	15	

4th YEAR LEVEL I					
Course Code	Course Title	Lec	Lab	Credit	Pre-req

ELC 407	Advanced English	1	3	2	ELC 205
MME 433	Maintenance Planning and Management	2	0	2	-
EEE 401	Electrical Power System I	2	3	3	EEE 212 & EEE 311
EEE 402	Digital Control Systems	2	3	3	EEE 224 & EEE 421
MIT 410	Organization and Management	2	3	3	MIT 203
GES 371	Ethics in Islam	1	0	1	GES 271
TOTAL		10	13	14	

4th YEAR LEVEL II					
Course Code	Course Title	Lec	Lab	Credit	Pre-req
MIT 430	Engineering Economics	2	0	2	GES 314
EEE 411	Electrical Control and Protection II	2	3	3	EEE 202 & EEE 401
EEE 412	Electrical Power System II	2	3	3	EEE 401
EEE 413	Senior Project	0	6	2	EEE 401 & EEE 312
XXX xxx	Elective*	1/2	0/3	2/3	-
TOTAL		7/8	12/15	12/13	-
EEE 490	Cooperative Work Experience	0	40	3	-
Minimum Total credit hours		132/133			