# NED UNIVERSITY OF ENGINEERING & TECHNOLOGY



#### 3.1.9 Electrical Engineering

## **FIRST YEAR**

	Fall Semester					Spring Semester			
Course Code	Course Title	Cre Th	edit   Pr	Hours Total	Course Code	Course Title			Hours Total
EE-125	Basic Electrical Engineering	3	1	4	EE-156	Engineering Drawing	0	2	2
PH-122	Applied Physics	3	1	4	EE-126	Circuit Analysis	3	1	4
EA-111	Functional English	2	0	2	MT-227	Differential Equation	3	0	3
ME-116	Basic Mechanical Engineering	3	0	3	CE-109	Engineering Surveying-I	2	1	3
MT-114	Calculus	3	0	3	EE-163	Computer and Programming	3	1	4
CS-113	Introduction to Computing	1	1	2	ES-105/	Pakistan Studies OR	2	0	2
					ES-127	Pakistan Studies (For Foreigners)			

#### SECOND YEAR

Fall Semester						Spring Semester					
Course Code	Course Title			lours Total	Course Code	Course Title			Hours Total		
EL-240	Electronic Devices & Circuits	3	1	4	EE-282	Electromagnetic Fields	3	0	3		
EE-264	Data Structures and Algorithms	2	1	3	EE-223	Instrumentation and Measurement	2	1	3		
MT-272	Linear Algebra & Geometry	3	0	3	EE-232	Signals and Systems	3	1	4		
MT-226	Multi Variable Calculus	3	0	3	TC-201	Digital Logic Design	2	1	3		
EA-214	Academic Writing	3	0	3	MT-331	Probability and Statistics	3	0	3		
ES-206/	Islamic Studies OR	2	0	2	EA-200	Community Service	-	-	NC		
ES-209	Ethical Behaviour										

### THIRD YEAR

	Fall Semester					Spring Semester			
Course Code	Course Title		edit Pr	Hours Total	Course Code	Course Title			Hours Total
EE-346	Electrical Machines-I	2	1	3	EE-362	Power System Analysis	3	1	4
EE-395	Digital Signal Processing	2	1	3	EE-347	Electrical Machines-II	2	1	3
EE-359	Electrical Power Distribution and Utilization	3	1	4	EE-354	Embedded Systems	2	1	3
EE-313	Power Electronics	3	1	4	TC-306	Communication Systems	3	0	3
MT-442	Numerical Methods	3	0	3	EA-304	Business Communication & Ethics	3	0	3
					EA/ES-###	Foreign Language-I	-	-	NC

#### **FINAL YEAR**

Fall Semester						Spring Semester					
Course Code	Course Title	Cre Th	edit I Pr	Hours Total	Course Code	Course Title	Cre Th		Hours Total		
EE-457	Electrical Power System Protection	3	1	4	MG-482	Organizational Behavior	3	0	3		
EF-304	Occupational Safety and Health	2	0	2	MG-481	Entrepreneurship	3	0	3		
EE-352	Electrical Power Transmission	3	0	3	CS-439	Computer Communication Networks	2	0	2		
EE-375	Feedback Control Systems	3	1	4	EE-414	Power Generation	3	0	3		
EE-401	Electrical Engineering Project*	0	3	3	EF-305	Engineering Economics & Management	3	0	3		
EA/ES-###	Foreign Language-II	-	-	NC	EE-401	Electrical Engineering Project	0	3	3		

\* Duration one academic year: Requires literature survey and preliminary work during this Semester

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