

Scheme of studies for BE (Electrical) for Batch 2025 onwards

Electrical Engineering										
First Year Fall Semester					First Year Spring Semester					
Course Code	Course Title	Credit Hrs.			Course Code	Course Title	Credit Hrs.			
		Th	Pr	Total			Th	Pr	Total	
EE-125	Basic Electrical Engineering	3	1	4	EE-127	Circuit Analysis	3	1	4	
EA-128	Functional English	3	0	3	MT-221	Linear Algebra & Ordinary Differential Equations	3	0	3	
MT-116	Calculus & Analytical Geometry	3	0	3	EE-164	Computer Programming	2	1	3	
EF-101	IT Fundamentals & Applications	2	1	3	ES-108	Ideology and Constitution of Pakistan	2	0	2	
ES-206 / ES-209	Islamic Studies / Ethical Behavior	2	0	2	PH-129	Applied Physics	3	0	3	
ES-105/ ES-127	Pak. Studies/Pak. Studies (For Foreigners)	2	0	2						
CY-100	Essentials of Chemistry (For Computer Science Background Students)	NC								
Total:		15	2	17	Total:			13	2	15

Second Year Fall Semester					Second Year Spring Semester				
Course Code	Course Title	Credit Hrs.			Course Code	Course Title	Credit Hrs.		
		Th	Pr	Total			Th	Pr	Total
EL-240	Electronic Devices and Circuits	3	1	4	EE-282	Electromagnetic Fields	3	0	3
EE-264	Data Structures and Algorithms	2	1	3	EE-233	Signals and Systems	3	0	3
MT-226	Multi Variable Calculus	3	0	3	CS-220	Digital Logic Design	3	1	4
EA-244	Academic Reading and Writing+	3	0	3	EF-200	Community Service	NC		
EE-111	Engineering Drawing & Workshop Practice	0	2	2	CE-109	Engineering Surveying-I	2	1	3
EF-201	Civics and Community Engagement	2	0	2	ME-116	Basic Mechanical Engineering	3	0	3
					EE-348	Electrical Machines I	2	0	2
Total:		13	4	17	Total:		16	2	18

Third Year Fall Semester					Third Year Spring Semester				
Course Code	Course Title	Credit Hrs.			Course Code	Course Title	Credit Hrs.		
		Th	Pr	Total			Th	Pr	Total
EE-396	Digital Signal Processing	3	1	4	EE-362	Power System Analysis	3	1	4
MT-442	Numerical Methods	3	0	3	EE-355	Embedded Systems	2	1	3
EE-224	Instrumentation and Measurement	2	1	3	EA/ES ###	Foreign Language-I	NC		
MG-485	Entrepreneurship	2	0	2	EE-314	Power Electronics	3	1	4
MT-331	Probability and Statistics	3	0	3	EE-359	Electrical Power Distribution and Utilization	3	1	4
EE-347	Electrical Machines II	2	1	3	EE-265	Artificial Intelligence	2	1	3
Total:		15	3	18	Total:		13	5	18

Final Year Fall Semester					Final Year Spring Semester				
Course Code	Course Title	Credit Hrs.			Course Code	Course Title	Credit Hrs.		
		Th	Pr	Total			Th	Pr	Total
EE-457	Electrical Power System Protection	3	1	4	MG-482	Organizational Behavior	3	0	3
EE-401	Electrical Engineering Design Project	0	3	3	CS-439	Computer Communication Networks	2	0	2
EE-352	Electrical Power Transmission	3	0	3	EE-401	Electrical Engineering Design Project	0	3	3
EE-375	Feedback Control Systems	3	1	4	EE-414	Power Generation	3	0	3
EA/ES ###	Foreign Language-II	NC			EF-305	Engineering Economics and Management	3	0	3
TC-306	Communication Systems	3	0	3	EF-309	Occupational Safety and Health*	1	0	1
Total:		12	5	17	Total:		12	3	15