

Proposed Scheme of Studies to be Approved *licable from Batch 2025*

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		NC					
<b>Total:</b>					<b>Total:</b>				
		15	2	17			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-346	Electrical Machines I	2	0	2
<b>Total:</b>					<b>Total:</b>				
		13	4	17			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
<b>Total:</b>					<b>Total:</b>				
		15	3	18			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 Behaviour	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
<b>Total:</b>					<b>Total:</b>				
		12	5	17			12	3	15