BACHELOR IN ELECTRICAL ENGINEERING FOR FALL 2024 & ONWARD

Course Curriculum

		Semester 1				
No	**Code**	**Title**	**Credit Hours**	**Related SDG**	**Pre Requisite**	**Contents**
1	MATH-101	Calculus & Analytical Geometry	3+0	4,8,9,16		⚠️
2	ME-109	Engineering Drawing	0+2	4,8,9,11,16		⚠️
3	HU-114	Functional English	3+0	4		⚠️
4	PHY-102	Applied Physics	2+1	4,9,12,15		⚠️
5	EE-111	Linear Circuit Analysis	3+1	4,7,9		⚠️
6	ICT-117	Applications of ICT	2-1			
7		Total CHs	13+5=18			

Semester 2

No	Code	Title	Credit Hours	Related SDG	Pre Requisite	Contents
1	MATH-108	Differential Equations	3+0	4	MATH-111	
2	HU-127	Ideology and Constitution of Pakistan.	2+0	1 to 17		⚠️
3	ME-105	Workshop Practice	0+1	4,8,9,11,12		⚠️
4	EE-211	Electrical Network Analysis	3+1	4,7,9	EE-111	
5	HU-101 / HU-119*	Islamic Studies/ Islamic Studies and Quranic Learning	2+0			
6	CS-107	Computer Programming	3-1			
7		Total CHs	13+3=16			

Semester-3

No	Code	Title	Credit Hours	Related SDG	Pre Requisite	Contents

No	Code	Title	Credit Hours	Related SDG	Pre Requisite	Contents
1	CS-250	Data Structures and Algorithms	3+1	4	CS-110Fundamental 0f Computer Programming	⚠
2	EE-215	Electronic Devices And Circuits	3+1	7,9,11	EE-111	⚠
3	EE-221	Digital Logic Design	3+1	9,11,12		⚠
4	MATH-234	Multivariable Calculus	3+0	4,9	MATH-101	⚠
5	XX-XXX	MDEEX	3-0			
6		Total CHs	15+3=18			

			Semester-4			
No	Code	Title	Credit Hours	Related SDG	Pre Requisite	Contents
1	EE-241	Electromagnetic Field Theory	3+0	9,12,15	PHY-102	⚠
2	MATH-222	Linear Algebra	3+0	4	MATH-101	⚠

No	Code	Title	Credit Hours	Related SDG	Pre Requisite	Contents
3	EE-222	Microprocessor Systems	3+1	9,11,12,13	EE-221	⚠
4	EE-313	Electronic Circuit Design	3+1	7,9	EE-215	
5	ENGL-104	Expository Writing	3+0	4	HU-114	⚠
6		Total CHs	15+2=17			
7		Internship$				

			Semester-5			
No	Code	Title	Credit Hours	Related SDG	Pre Requisite	Contents
1	EE-232	Signals And Systems	3+1	7,9		
2	EE-260	Electrical Machines	3+1	7,9,11	EE-211	⚠
3	EE-344	Wave Propagation and Antennas	3+1	1,2,9,11		
4	OHS-101	Occupational Health and Safety	1-0	3,4,6,13		⚠
5	EE-XXX	Probability & Statistics for Engineers	3-0			

6		Total CHs	13+3=16			

Semester-6						
No	Code	Title	Credit Hours	Related SDG	Pre Requisite	Contents
1	CCE-401	Civic and Community Engagement	1+1	4,11		⚠
2	EE-351	Communication Systems	3+1	11,17		⚠
3	EE-371	Linear Control Systems	3+1	9,14,15	EE-232	⚠
4	XX-XXX	Flexible Engg/Non-Engg Elective-I***	3-1			
5	EE-XXX	Depth Elective (Core)-I-X	3-x			
6		Total CHs	13+4+X=17+X			
7		Internship$				

Semester-7						

No	Code	Title	Credit Hours	Related SDG	Pre Requisite	Contents
1	OTM-455	Engineering Project Management	2+0			
2	EE-XXX	Depth Elective (Core)-II-X	3-X			
3	EE-XXX	Depth Elective-III-X	3-0			
4	XX-XXX	Flexible Engg/Non-Engg Elective-II***	3-X			
5	EE-4XX	Final Year Project-1	0-2			
6	XX-XXX	Social Sciences Elective-xx	2-0			
7		Total CHs	13+2+X=15+X			

Semester-8						
No	Code	Title	Credit Hours	Related SDG	Pre Requisite	Contents
1	MGT-271	Entrepreneurship	2+0	4,8,9		⚠️
2	HU-XXX	Arts & Humanities Elective-XXX	2-0			

3	EE-XXX	Depth Elective-IV-X	3-0			
4	EE-XXX	Depth Elective-V-X	3-x			
5	EE-4XX	Final Year Project-II	0-4			
6		Total CHs	10+4+X=14+X			
7		Grand Total	131			