

Electrical Engineering Curriculum (Fall 2025 Intake & beyond)

Non-Engineering Courses

S No	Knowledge Area	Sub Area	Course Code	Course Title	Pre-requisite	Credit Hours (Theory-Lab-Total)
1	Humanities	English	EL170	Functional English	---	(3-0-3)
2			EL271	Expository Writing	EL170	(3-0-3)
3		Culture	HU124	Islamic Studies and Ethics	---	(2-0-2)
4			XXX	Arts & Humanities Elective	---	(2-0-2)
5			HU405	Ideology and Constitution of Pakistan	---	(2-0-2)
6			FQ100	Fehm-e-Quran I	---	(0-1-1)
7			FQ101	Fehm-e-Quran II	FQ100	(0-1-1)
8			HU115	Pakistan Studies	---	(2-0-2)
9		Social Sciences	HU411	Civics and Community Engagements	---	(2-0-2)
10			XXX	Social Science Elective	---	(2-0-2)
Courses / Credit Hours (Humanities)						10 / 20
11	Management Sciences	Professional Practice	ME456	Project Management	---	(2-0-2)
12			BA353	Entrepreneurship	---	(2-0-2)
Courses / Credit Hours (Management Sciences)						02 / 04
13	Computer Sciences	Basic Computing	CE100	Information and Communication Technologies (ICT)	---	(2-0-2)
			CE100L	Information and Communication Technologies Laboratory (ICT)	---	(0-1-1)
Courses / Credit Hours (Computer Sciences)						01 / 03
14	Natural Sciences	Mathematics	MA110	Calculus & Analytical Geometry	---	(3-0-3)
15			MA214	Complex Variables and Transforms	MA110	(3-0-3)
16			MA217	Linear Algebra & Differential Equations	---	(4-0-4)
17		Natural Sciences	PH111	Applied Physics	---	(2-0-2)
	PH111L		Applied Physics Laboratory	---	(0-1-1)	

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18		XXX	Maths/Natural Sciences Elective	---	(3-0-3) / (2-1-3)
Courses / Credit Hours (Natural Sciences)					05 / 16
No of Courses / Credit Hours (Non-Engineering)					18 / 43

Engineering Courses

S No	Knowledge Area	Course Code	Course Title	Pre-Requisite	Credit Hours (Theory-Lab-Total)
1.	Advanced Computer and Information Sciences	CE110	Computer Programming	---	(3-0-3)
		CE110L	Computer Programming Laboratory	---	(0-1-1)
2.		CE215	Data Structures and Algorithms	CE110	(3-0-3)
		CE215L	Data Structures and Algorithms Laboratory	CE110L	(0-1-1)
Courses / Credit Hours (Advanced Computer and Information Sciences)					02 / 08
3.	Engineering Foundation	EE101	Electric Circuit Analysis	---	(3-0-3)
		EE101L	Electric Circuit Analysis Laboratory	---	(0-1-1)
4.		EE105	Electrical Network Analysis	EE101	(3-0-3)
		EE105L	Electrical Network Analysis Laboratory		(0-1-1)
5.		MT104	Workshop Practice	---	(0-1-1)
6.		EE235	Signals and Systems	MA110	(3-0-3)
		EE235L	Signals and Systems Laboratory	MA110	(0-1-1)
7.		EE286	Electronic Devices and Circuits	EE105	(3-0-3)
		EE286L	Electronic Devices and Circuits Laboratory	EE105L	(0-1-1)
8.		EE223	Digital Logic Design	---	(3-0-3)
	EE223L	Digital Logic Design Laboratory	---	(0-1-1)	
9.	MT203	Probability Methods in Engineering	MA110	(3-0-3)	
10.	MT171	Engineering Drawing	---	(0-1-1)	

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11.		EE218	Electromagnetic Field Theory	MA110	(3-0-3)	
Courses / Credit Hours (Engineering Foundation)					09 / 28	
12.	Major Based Core Courses (Breadth & Depth)	EE375	Communication Systems	EE235	(3-0-3)	
		EE375L	Communication Systems Laboratory		(0-1-1)	
13.		EE329	Microprocessors Interfacing and Applications	EE223	(3-0-3)	
		EE329L	Microprocessors Interfacing and Applications Laboratory		(0-1-1)	
14.		EE241	Electrical Machines	---	(3-0-3)	
		EE241L	Electrical Machines Laboratory	---	(0-1-1)	
15.		EE355	Control Systems	---	(3-0-3)	
		EE355L	Control Systems Laboratory	---	(0-1-1)	
16.		EE209	Electronic Circuit Design	---	(3-0-3)	
		EE209L	Electronic Circuit Design Laboratory	---	(0-1-1)	
17.		EE381	Power Electronics-I	---	(3-0-3)	
		EE381L	Power Electronics-I Laboratory	---	(0-1-1)	
18.		CE460	Computer Communication Networks	---	(3-0-3)	
19.		EE338	Digital Signal Processing	---	(3-0-3)	
		EE338L	Digital Signal Processing Laboratory		(0-1-1)	
20.		EE347	Power Distribution and Utilization Systems	---	(3-0-3)	
21.		EE446	Power System Analysis	---	(3-0-3)	
		EE446L	Power System Analysis Laboratory	---	(0-1-1)	
Courses / Credit Hours (MBC Breadth and Depth Courses)					10/ 38	
22.		Multi- Disciplinary Engineering Courses	XXX	MDEE	---	(3-0-3) / (2-1-3)
23.	MT409		Occupational Health and Safety	---	(1-0-1)	
Courses / Credit Hours (MDE Courses)					02/ 04	
24.	Final Year Design Project	EE492	Final Year Project I	---	(0-1-1)	
25.		EE493	Final Year Project II	EE492	(0-2-2)	
26.		EE494	Final Year Project III	EE493	(0-3-3)	
Courses / Credit Hours (FYDP)					03 / 06	

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27.	Industrial Training		6-8 Weeks industrial training Mandatory (Non Credit)		(0-0-0)
28.	Community Service		30 hours community service (Non Credit)		(0-0-0)
No of Courses / Credit Hours (Engineering)					26/ 84
29.	Flexible Engg./ Non-Engg. Courses	XXX	Flexible Elective I		(3-0-3)
		XXXL	Flexible Elective I Laboratory		(0-1-1)
30.		XXX	Flexible Elective II		(3-0-3)
31.		XXX	Flexible Elective III		(3-0-3)
		XXXL	Flexible Elective III Laboratory		(0-1-1)
Courses / Credit Hours (Flexible Engineering/ Non-Engineering)					03/ 11
Total No of Courses / Credit Hours					47/ 138

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Semester-wise Breakdown BEE Program Fall-2025 Intake and beyond

Semester I					
S. No	Course Code	Courses	Pre-requisites	Credit Hrs. (Theory-Lab-Credits)	Knowledge Area
1.	MA110	Calculus & Analytical Geometry	---	(3-0-3)	Natural Sciences
2.	PH111	Applied Physics	---	(2-0-2)	Natural Sciences
	PH111L	Applied Physics Laboratory		(0-1-1)	
3.	CE100	Information and Communication Technologies	---	(2-0-2)	Computer Sciences
	CE100L	Information and Communication Technologies Laboratory (ICT)	---	(0-1-1)	
4.	EE101	Electric Circuit Analysis	---	(3-0-3)	Engineering Foundation
	EE101L	Electric Circuit Analysis Laboratory	---	(0-1-1)	
5.	MT171	Engineering Drawing	---	(0-1-1)	Engineering Foundation
6.	HU124	Islamic Studies and Ethics	---	(2-0-2)	Humanities
No. of Courses = 6		Credit Hours = 16	Contact Hours = 24	Labs = 4	

Semester II					
S. No	Course Code	Courses	Pre-requisites	Credit Hrs. (Theory-Lab-Credits)	Knowledge Area
1.	MA217	Linear Algebra & Differential Equations	---	(4-0-4)	Natural Sciences
2.	EL170	Functional English	---	(3-0-3)	Humanities
3.	MT104	Workshop Practice	---	(0-1-1)	Engineering Foundation
4.	EE105	Electrical Network Analysis	EE101	(3-0-3)	Engineering Foundation
	EE105L	Electrical Network Analysis Laboratory		(0-1-1)	
5.	CE110	Computer Programming	---	(3-0-3)	Advanced Computer and Information Sciences
	CE110L	Computer Programming Laboratory	---	(0-1-1)	
6.	HU115	Pakistan Studies	---	(2-0-2)	Humanities
No. of Courses = 6		Credit Hours = 18	Contact Hours = 24	Labs = 3	

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Semester III					
S. No	Course Code	Courses	Pre-requisites	Credit Hrs. (Theory-Lab-Credits)	Knowledge Area
1.	EE218	Electromagnetic Field Theory	MA110	(3-0-3)	Engineering Foundation
2.	CE215	Data Structures and Algorithms	CE110	(3-0-3)	Advanced Computer and Information Sciences
	CE215L	Data Structures and Algorithms Laboratory	CE110	(0-1-1)	
3.	EE223	Digital Logic Design	---	(3-0-3)	Engineering Foundation
	EE223L	Digital Logic Design Laboratory	---	(0-1-1)	
4.	EE286	Electronic Devices and Circuits	EE105	(3-0-3)	Engineering Foundation
	EE286L	Electronic Devices and Circuits Laboratory		(0-1-1)	
5.	MA214	Complex Variables and Transforms	MA110	(3-0-3)	Natural Sciences
No. of Courses = 5		Credit Hours = 18	Contact Hours = 24	Labs = 3	

Semester IV					
S. No	Course Code	Courses	Pre-requisites	Credit Hrs. (Theory-Lab-Credits)	Knowledge Area
1.	MT203	Probability Methods in Engineering	MA110	(3-0-3)	Engineering Foundation
2.	EL271	Expository Writing	EL170	(3-0-3)	Humanities
3.	EE235	Signals and Systems	MA110	(3-0-3)	Engineering Foundation
	EE235L	Signals and Systems Laboratory	MA110	(0-1-1)	
4.	EE209	Electronic Circuit Design	---	(3-0-3)	Major Based Core Courses (Breadth & Depth)
	EE209L	Electronic Circuit Design Laboratory	---	(0-1-1)	
5.	EE241	Electrical Machines	---	(3-0-3)	Major Based Core Courses (Breadth & Depth)
	EE241L	Electrical Machines Laboratory	---	(0-1-1)	
No. of Courses = 5		Credit Hours = 18	Contact Hours = 24	Labs = 3	

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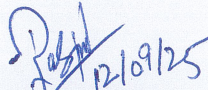
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Industrial Training / Internship (Summer)

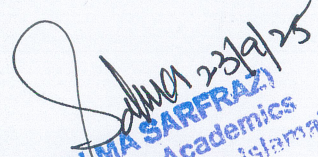
Semester V					
S. No	Course Code	Courses	Pre-requisites	Credit Hrs. (Theory-Lab-Credits)	Knowledge Area
1.	XXX	Flexible Elective-1	---	(3-0-3)	Flexible Engg./ Non-Engg. Courses
	XXXL		---	(0-1-1)	
2.	EE381	Power Electronics I	---	(3-0-3)	Major Based Core Courses (Breadth & Depth)
	EE381L	Power Electronics I Laboratory	---	(0-1-1)	
3.	EE329	Microprocessors Interfacing and Applications	EE223	(3-0-3)	Major Based Core Courses (Breadth & Depth)
	EE329L	Microprocessors Interfacing and Applications Laboratory		(0-1-1)	
4.	BA353	Entrepreneurship	---	(2-0-2)	Management Sciences
5.	XXX	Maths / Natural Sciences Elective	---	(3-0-3) / (2-1-3)	Natural Sciences

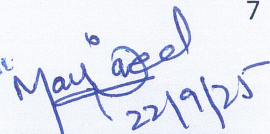
6.	FQ100	Fehm-e-Quran I	---	(0-1-1)	Humanities
No. of Courses = 6		Credit Hours = 18	Contact Hours = 26/28	Labs = 4/5	

Semester VI					
S. No	Course Code	Courses	Pre-requisites	Credit Hrs. (Theory-Lab-Credits)	Knowledge Area
1.	EE338	Digital Signal Processing		(3-0-3)	Major Based Core Courses (Breadth & Depth)
	EE338L	Digital Signal Processing Laboratory		(0-1-1)	
2.	XXX	MDEE		(3-0-3) / (2-1-3)	Multi-Disciplinary Engineering Courses
3.	HU405	Ideology and Constitution of Pakistan	---	(2-0-2)	Humanities
4.	EE355	Control Systems	---	(3-0-3)	Major Based Core Courses (Breadth & Depth)
	EE355L	Control Systems Laboratory	---	(0-1-1)	
5.	EE492	Final Year Project I	---	(0-1-1)	Final Year Design Project


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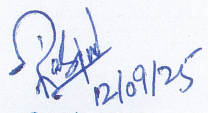

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6.	EE347	Power Distribution and Utilization Systems	---	(3-0-3)	Major Based Core Courses (Breadth & Depth)
7.	FQ101	Fehm-e-Quran II	FQ100	(0-1-1)	Humanities
No. of Courses = 7		Credit Hours = 18	Contact Hours = 26/28	Labs = 4/5	

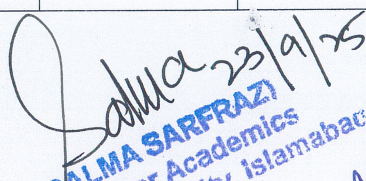
Industrial Training / Internship (Summer)

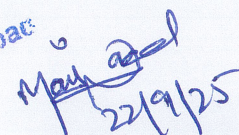
Semester VII					
S. No	Course Code	Courses	Pre-requisites	Credit Hrs. (Theory-Lab-Credits)	Knowledge Area
1.	EE446	Power System Analysis	---	(3-0-3)	Major Based Core Courses (Breadth & Depth)
	EE446L	Power System Analysis Laboratory	---	(0-1-1)	
2.	XXX	Flexible Elective II	---	(3-0-3)	Flexible Engg./ Non-Engg. Courses
3.	MT409	Occupational Health and Safety	---	(1-0-1)	Multi-Disciplinary Engineering Courses
4.	EE375	Communication Systems	EE235	(3-0-3)	Major Based Core Courses (Breadth & Depth)
	EE375L	Communication Systems Laboratory		(0-1-1)	
5.	XXX	Social Sciences Elective	---	(2-0-2)	Humanities
6.	EE493	Final Year Project II	EE492	(0-2-2)	Final Year Design Project
No. of Courses = 6		Credit Hours = 16	Contact Hours = 26	Labs = 4	

Semester VIII					
S. No	Course Code	Courses	Pre-requisites	Credit Hrs. (Theory-Lab-Credits)	Knowledge Area
1.	XXX	Flexible Elective III	---	(3-0-3)	Flexible Engg./ Non-Engg. Courses
	XXXL	Flexible Elective III Laboratory	---	(0-1-1)	
2.	ME456	Project Management	---	(2-0-2)	Management Sciences
3.	CE460	Computer Communication Networks	---	(3-0-3)	Major Based Core Courses (Breadth & Depth)

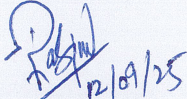

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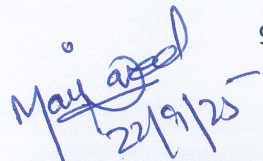

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4.	EE494	Final Year Project III	EE493	(0-3-3)	Final Year Design Project
5.	HU411	Civics and Community Engagements	---	(2-0-2)	Humanities
6.	XXX	Arts & Humanities Elective	---	(2-0-2)	Humanities
No. of Courses = 6		Credit Hours = 16	Contact Hours = 24		Labs = 4
No. of Courses = 47		Credit Hours = 138			Labs = 29/31


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Multi-Disciplinary Engineering (MDEE) Electives For Fall 2025 Intake and beyond

S. No.	Course Code	Courses	Pre-Requisite	Credit Hours
1.	MT371	Introduction to Bio-Mechatronics	---	(3-0-3)
2.	MT467	Applied Robotics	---	(3-0-3)
3.	MT473	Laser and its Applications	---	(3-0-3)
4.	MT481	Introduction to Fuzzy Logic	---	(3-0-3)
5.	MT485	System Reliability and Safety	---	(3-0-3)
6.	BM304	Biomedical Engineering Systems	---	(3-0-3)
7.	BM414	DNA Computing	---	(3-0-3)
8.	BM434	Medical Robotics	---	(3-0-3)
9.	BM435	Bioinformatics	---	(3-0-3)
10.	MT231	Thermodynamics	---	(3-0-3)
11.	CY104	Introduction to Cyber Security	---	(2-0-2)
	CY104L	Introduction to Cyber Security Lab	---	(0-1-1)
12.	SE100	Software Engineering	---	(3-0-3)
13.	EE318	Artificial Intelligence for Engineers	---	(2-0-2)
	EE318L	Artificial Intelligence for Engineers Lab	---	(0-1-1)

Arts & Humanities Electives For Fall 2025 Intake and beyond

S. No	Course Code	Courses	Pre-requisites	Credit Hours
1.	HU215	Ethics	---	(2-0-2)
2.	MT302	Professional Ethics	---	(2-0-2)
3.	EL106	Communication Skills	---	(2-0-2)
4.	EL301	Technical English	---	(2-0-2)
5.	MT201	Energy and Society	---	(2-0-2)
6.	FL200	Foreign Language: Arabic	---	(2-0-2)
7.	FL321	Foreign Language: French	---	(2-0-2)

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8.	FL322	Foreign Language: Chinese	---	(2-0-2)
9.	FL404	Foreign Language: German	---	(2-0-2)

Social Sciences Electives For Fall 2025 Intake and beyond

S. No	Course Code	Courses	Pre-requisites	Credit Hours
1.	PY115	Introduction to Psychology	---	(2-0-2)
2.	IRXXX	Contemporary International Relations	---	(2-0-2)
3.	BA334	Engineering Economics	---	(2-0-2)
4.	PYXXX	Social psychology	---	(2-0-2)
5.	BAXXX	Logic and Critical Thinking	---	(2-0-2)
6.	HRXXX	Human Resource Management	---	(2-0-2)
7.	BAXXX	Organizational Behavior	---	(2-0-2)
8.	ME455	Engineering Law	---	(2-0-2)
9.	AF254	Financial Management	---	(2-0-2)
10.	BAXXX	Marketing Management	---	(2-0-2)

Maths / Natural Science Electives For Fall 2025 Intake and beyond

S. No	Course Code	Courses	Pre-requisites	Credit Hours
1.	MA105	Multivariable Calculus	---	(3-0-3)
2.	MA204	Discrete Mathematics	---	(3-0-3)
3.	MA221	Numerical Analysis and Computation	---	(2-0-2)
	MA221L	Numerical Analysis and Computation Lab	---	(0-1-1)
4.	CH102	Applied Chemistry	---	(3-0-3)

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Flexible Engineering/ Non-Engineering Electives For Fall 2025 Intake and beyond

S. No	Course Code	Courses	Pre-requisites	Credit Hours
1.	EE383	Electrical Measurements and Instrumentation	---	(3-0-3) ✓
	EE383L	Electrical Measurements and Instrumentation Lab	---	(0-1-1) ✓
2.				
3.	CE352	Machine Learning	---	(3-0-3) ✓
	CE352L	Machine Learning Laboratory	---	(0-1-1) ✓
4.	EE400	Electric Vehicles	---	(3-0-3) ✓
	EE400L	Electric Vehicles Laboratory	---	(0-1-1) ✓
5.	CE430	Introduction to Internet of Things	---	(3-0-3) ✓
6.	EE429	FPGA Based Design	---	(3-0-3) ✓
	EE429L	FPGA-Based Design Laboratory	---	(0-1-1) ✓
7.	EE406	Linear Integrated Circuit Design	---	(3-0-3) ✓
	EE406L	Linear Integrated Circuit Design Laboratory	---	(0-1-1) ✓
8.	EE348	Power Generation Systems	EE241	(3-0-3) ✓
	EE348L	Power Generation Systems Laboratory	EE241	(0-1-1) ✓
9.	EE382	Power Electronics II	EE381	(3-0-3) ✓
	EE382L	Power Electronics II Laboratory	EE381	(0-1-1) ✓
10.	EE444	Power Transmission Systems	EE105	(3-0-3) ✓
	EE444L	Power Transmission Systems Laboratory	EE105	(0-1-1) ✓
11.	EE447	Power System Protection	---	(3-0-3) ✓
	EE447L	Power System Protection Laboratory	---	(0-1-1) ✓
12.	EE321	Industrial Electronics	---	(3-0-3)

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Minor in Electrical Engineering Electives For Fall 2025 Intake and beyond

S. No	Course Code	Courses	Pre-requisites	Credit Hours
1.	EE383	Electrical Measurements and Instrumentation	---	(3-0-3)
	EE383L	Electrical Measurements and Instrumentation Lab	---	(0-1-1)
2.	EE355	Control Systems	---	(3-0-3)
	EE355L	Control Systems Laboratory	---	(0-1-1)
3.	EE381	Power Electronics I	---	(3-0-3)
	EE381L	Power Electronics I Laboratory	---	(0-1-1)
4.	EE446	Power System Analysis	---	(3-0-3)
	EE446L	Power System Analysis Laboratory	---	(0-1-1)
5.	EE447	Power System Protection	---	(3-0-3)
	EE447L	Power System Protection Laboratory	---	(0-1-1)
6.	EE429	FPGA Based Design	---	(3-0-3)
	EE429L	FPGA-Based Design Laboratory	---	(0-1-1)

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