

Course Scheme of B.E Industrial Electronics Engineering Applicable from IIEE Batch 2025

FIRST YEAR OF ENGINEERING									
FE (IE) Fall Semester					FE (IE) Spring Semester				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Theo	Lab	Total			Theo	Lab	Total
HS115	Functional English	2	0	2	HS124	Communication & Presentation Skills	2	0	2
MS111	Calculus and Analytical Geometry	3	0	3	HS122	Islamic Studies (Muslims)	2	0	2
MS115	Applied Physics	2	1	3	HS123	Ethical Behaviour (Non-Muslims)			
IE114	Engineering Drawing	0	1	1	HS231	Pakistan Studies	2	0	2
IE115	Engineering Materials & Workshop	1	1	2	MS121	Differential Equations	3	0	3
IE116	Linear Circuit Analysis	3	1	4	IE121	Basic Electronics	3	1	4
CS111	Application of ICT	2	1	3	IE122	Fabrication Workshop	0	1	1
CY100	Chemistry	-	-	NC	IE125	Computer Programming	3	1	4
Total =		13	5	18	Total =		15	3	18
SECOND YEAR OF ENGINEERING									
SE (IE) Fall Semester					SE (IE) Spring Semester				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Theo	Lab	Total			Theo	Lab	Total
HS232	Ideology & Constitution of Pakistan	2	0	2	MS241	Linear Algebra	3	0	3
MS231	Complex Variables & Transforms	3	0	3	IE245	Digital Logic Design	3	1	4
IE232	PCB Designing	0	1	1	IE246	Instrumentation & Measurements	3	1	4
IE235	Electronic Circuit Design	3	1	4	IE247	Basic Mechanical Engineering	2	0	2
IE231	Electromagnetic Field Theory	2	0	2	IE248	Electrical Network Analysis	3	1	4
IE357	Electrical Machines	3	1	4	HS241	Occupational Health & Safety	1	0	1
HS233	Civic & Community Engagement	2	0	2	HS200	Community Service	-	-	NC
Total =		15	3	18	Total =		15	3	18
THIRD YEAR OF ENGINEERING									
TE (IE) Fall Semester					TE (IE) Spring Semester				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Theo	Lab	Total			Theo	Lab	Total
IE359	Probability & Statistics for Engineers	2	0	2	HS361	Expository Writing	3	0	3
IE352	Integrated Circuits	3	1	4	EL46X	Elective (Non Engineering)	2	0	2
IE358	Microprocessors and Microcontrollers	3	1	4	IE361	Feedback Control Systems	3	1	4
IE356	Signals & Systems	3	1	4	IE364	Embedded Systems	2	1	3
IE362	Power Electronics	3	1	4	IE484	Communication Systems	3	1	4
					HSXXX	Foreign Language I	-	-	NC
Total =		14	4	18	Total =		13	3	16
FOURTH YEAR OF ENGINEERING									
BE (IE) Fall Semester					BE (IE) Spring Semester				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Theo	Lab	Total			Theo	Lab	Total
MS484	Entrepreneurship	2	0	2	MS471	Numerical Methods	3	0	3
IE475	Artificial Intelligence	3	1	4	MS483	Engineering Economics & Management	3	0	3
EL471	Digital Signal Processing	3	1	4	EL47X	Elective (Engineering)	3	1	4
IE473	Industrial Process Control	2	1	3	IE483	Industrial Instrumentation Systems	2	1	3
IE485	Final Year Design Project	0	3	3	IE485	Final Year Design Project	0	3	3
HSXXX	Foreign Language II	-	-	NC					
Total =		10	6	16	Total =		11	5	16
GRAND TOTAL:= 138 Credit Hours									