

Course Scheme of Studies Batches 2020 Till 2022:

FIRST YEAR FALL SEMESTER					
Course Code		Course Title	Credit Hours		
			Th	Lab	Total
HS114	NE	Functional English	3	0	3
MS111	NE	Calculus and Analytical Geometry	3	0	3
MS114	NE	Applied Physics	3	1	4
IE114	E	Engineering Drawing	0	1	1
IE115	E	Engineering Materials & Workshop	1	1	2
IE116	E	Linear Circuit Analysis	3	1	4
HSK1	-	Chinese Language	-	-	NC
-	-	Sub Total =	13	4	17

FIRST YEAR SPRING SEMESTER					
Course Code		Course Title	Credit Hours		
			Th	Lab	Total
HS121	NE	Communication Skills	3	0	3
HS122 HS123	NE	Islamic Studies (For Muslims) Ethical Behavior (For Non-Muslims)	2	0	2
MS121	NE	Differential Equations	3	0	3
IE121	E	Basic Electronics	3	1	4
IE122	E	Fabrication Workshop	0	1	1
IE238	E	Introduction To Computer & Programming	3	1	4
HSK2	-	Chinese Language	-	-	NC
-	-	Sub Total =	14	3	17

SECOND YEAR FALL SEMESTER					
Course Code		Course Title	Credit Hours		
			Th	Lab	Total
HS231	NE	Pakistan Studies	2	0	2
MS231	NE	Complex Variables & Transforms	3	0	3
IE234	E	PCB Manufacturing	1	1	2
IE235	E	Electronic Circuit Design	3	1	4
IE366	E	Object Oriented Programming	3	1	4
IE239	E	Electromagnetic Field Theory	3	0	3
-	-	Sub Total =	15	3	18

SECOND YEAR SPRING SEMESTER					
Course Code		Course Title	Credit Hours		
			Th	Lab	Total
MS241	NE	Linear Algebra	3	0	3
IE245	E	Digital Logic Design	3	1	4
IE246	E	Instrumentation & Measurements	3	1	4
IE247	E	Basic Mechanical Engineering	2	0	2
IE248	E	Electrical Network Analysis	3	1	4
HS200	NE	Community Services	-	-	NC
-	-	Sub Total =	14	3	17

**THIRD YEAR
FALL SEMESTER**

Course Code		Course Title	Credit Hours		
			Th	Lab	Total
HS351	NE	Technical Report Writing & Professional Skills	2	0	2
IE352	E	Integrated Circuits	3	1	4
IE355	E	Microprocessor Architecture & Programming	3	1	4
IE357	E	Electrical Machines	3	1	4
IE356	E	Signals & Systems	3	1	4
-	-	Sub Total =	14	4	18

**THIRD YEAR
SPRING SEMESTER**

Course Code		Course Title	Credit Hours		
			Th	Lab	Total
MS361	NE	Probability & Statistics	3	0	3
IE361	E	Feedback Control System	3	1	4
IE362		Power Electronics	3	1	4
IE484	E	Communication Systems	3	1	4
IE363	E	Embedded Systems	2	1	3
-	-	Sub Total =	14	4	18

**FOURTH YEAR
FALL SEMESTER**

Course Code		Course Title	Credit Hours		
			Th	Lab	Total
MS484	NE	Entrepreneurship	2	0	2
IE471	E	Digital Signal Processing	3	1	4
EL47X		Elective 1 (Engineering)	3	1	4
IE473	E	Industrial Process control	2	1	3
IE485	E	Final Year Design Project	0	3	3
-	-	Sub Total =	10	6	16

**FOURTH YEAR
SPRING SEMESTER**

Course Code		Course Title	Credit Hours		
			Th	Lab	Total
EL48X	NE	Elective II (Non Engineering)	3	0	3
MS483	NE	Engineering Economics & Management	3	0	3
MS471	NE	Numerical Methods	3	0	3
IE482	E	Industrial Instrumentation Systems	2	1	
IE485	E	Final Year Design Project	0	3	3
-	-	Sub Total =	11	4	15

Elective I (Engineering)

EL471 Electronic Motor Drives (3+1)

EL472 Digital System Design (3+1)

EL473 Digital Control Systems (3+1)

EL475 Artificial Intelligence (3+1)

Elective II (Non- Engineering)

EL481 Organizational Behavior (3+0)

EL482 Professional Ethics (3+0)

EL483 Sociology for Engineers (3+0)

Map of Pre-Requisite Courses for BE (Industrial Electronics Engineering) Applicable on Batches 2019 till 2022.

