

Unified BEE Curriculum with Common 1st Year – 50th ACM –

28th December, 2017

S. No.	Course Code	Subjects	CHs Teaching	CHs Labs	Semester
1	HU-100	English	2	0	1 st
2	CS-114	Fundamentals of Programming	2	1	
3	HU-107	Pakistan Studies	2	0	
4	MATH-101	Calculus and Analytical Geometry	3	0	
5	ME-105	Workshop Practice	0	1	
6	PHY-102	Applied Physics	2	1	
7	*EE-111	Linear Circuit Analysis	3	1	
Total CHs			14	4	18
8	*CS- 212	Object Oriented Programming (OOP)	3	1	2 nd
9	HU-101	Islamic Studies	2	0	
10	MATH-121	Linear Algebra and ODEs	3	0	
11	ME -109	Engineering Drawing	0	2	
12	HU-109	Communication Skills	2	0	
13	*EE-211	Electrical Network Analysis	3	1	
Total CHs			13	4	17
14	MATH-232	Complex Variables and Transforms	3	0	3 rd
15	ME-102	Thermodynamics	2	0	
16	EE-221	Digital Logic Design	3	1	
17	EE-215	Electronic Devices and Circuits	3	1	
18	ME-100	Engineering Mechanics	3	0	
Total CHs			14	2	16
20	EE-232	Signals and Systems	3	1	4 th
21	MATH-243	Vector Calculus	3	0	
22	EE-241	Electromagnetic Field Theory	3	0	
23	EE-222	Microprocessor Systems	3	1	
24	EE-313	Electronic Circuit Design	3	1	
Total CHs			15	3	18
25	EE-330	Digital Signal Processing	3	1	5 th
26	EE-260	Electrical Machines	3	1	
27	MATH-361	Probability & Statistics	3	0	
28	HU-212	Technical & Business Writing	2	0	
29	EE-351	Communication Systems	3	1	

Total CHs			14	3	17
30	MATH-351	Numerical Methods	3	0	6th
31	EE-371	Linear Control Systems	3	1	
32	EE - 383	Instrumentation and Measurements	3	1	
33	EC/EE - XXX	<u>Elective-I</u>	3	X	
34	EC/EE - XXX	<u>Elective-II</u>	3	X	
Total CHs			15	2+X	17+X
35	OTM-455	Engineering Project Management	2	0	7th
36	ECO-130	Engineering Economics	2	0	
37	EE-498	Senior Design Project-I	0	2	
38	EC/EE - XXX	<u>Elective - III</u>	3	X	
39	EC/EE - XXX	<u>Elective-IV</u>	3	X	
Total CHs			10	2+X	12+X
40	HU-222	Professional Ethics	2	0	8th
41	EE-499	Senior Design Project-II	0	4	
42	XX-XXX	<u>University Elective</u>	3	X	
43	EC/EE - XXX	<u>Elective-V</u>	3	X	
44	MGT-271	Entrepreneurship	2	0	
Total CHs			10	4+X	14+X
Overall CHs			105	24+X	
Grand Total (Credit Hours)			(129+X)**		

* Program specific 3 courses in the first year.

** The labs and other courses should be offered in such a way that the total number of credit hours should remain in between 129-135 as per PEC requirements.