

**School Name: School of Engineering**

**Department Name: Department of Electrical, Electronics & Communication**

**Engineering Program Name: B.Tech. (Electrical Engineering)**

**Scheme: 2017-2021**

<b>SEMESTER I</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	BEEE1001	Introduction to Electrical & Electronics Engineering	0	0	2	1
2	BCSE1002	Computer Programming and Problem Solving	0	0	4	2
3	MATH1001	Multivariable Calculus	3	0	0	3
4	MATH1002	Exploration with CAS-I	0	0	2	1
5	PHYS1001	Engineering Physics	3	0	0	3
6	PHYS1002	Engineering Physics Lab	0	0	2	1
7	ENVS1001	Environmental Science	2	0	0	2
8	BTME1003	Product Manufacturing	0	0	2	1
9	BEEE1002	Basic Electrical and Electronics Engineering	2	1	0	3
10	BEEE1003	Basic Electrical and Electronics Engineering Lab	0	0	2	1
11	SLBT1001	Basic English	0	0	4	2
12	PSSO1001	Psychology and Sociology	2	0	0	2
13	JAPA1001	Japanese-I	0	0	2	1
	FREN1001	French-I				
	GERN1001	German-I				
		TOTAL				22
<b>SEMESTER II</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	BCSE1003	Application Oriented Programming using Python	0	0	4	2
2	CHEM1001	General Chemistry	3	0	0	3
3	CHEM1002	General Chemistry Lab	0	0	2	1
4	MATH1003	Matrices and Differential Equations	3	0	0	3
5	MATH1004	Exploration with CAS-II	0	0	2	1
6	PHYS1004	Physics of Semiconductor Devices	3	0	0	3
7	PHYS1005	Advanced Physics Lab	0	0	2	1
8	BTME1002	Product Design using Graphics	0	0	4	2
9	UHVE1001	Universal Human Values and Ethics	0	0	4	2
10	SLBT1002	English Proficiency and Aptitude Building-1	0	0	4	2
11	JAPA1002	Japanese-I	0	0	2	1

	FREN1002	French-I				
	GERN1002	German-I				
		TOTAL				23
<b>SEMESTER III</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	MATH2001	Functions of complex variables and transforms	3	0	0	3
2	BEEE2001	Electrical Measurement and Instrumentation	3	0	0	3
3	BECE2010	Digital Electronics	3	0	0	3
4	BECE2002	Network Analysis and Systems	3	0	0	3
5	BECE2003	Network Analysis and Systems Lab	0	0	2	1
6	BECE2016	Signal and systems	3	0	0	3
7	BTME2001	Engineering Mechanics	3	0	0	3
8	BTEE2005	Electrical and Electronics Engineering Project Based Learning -1	0	0	2	1
9	SLBT2001	English Proficiency and Aptitude Building-2	0	0	4	2
						22
<b>SEMESTER IV</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BECE2020	Digital Signal Processing	3	0	0	3
2	BTEE2006	Electrical Machine-I	3	0	0	3
3	BECE2012	Electromagnetic Field Theory	3	0	0	3
4	BTME2002	Engineering Thermodynamics	3	0	0	3
5	MATH2004	Probability and Stochastic Processes	3	0	0	3
6	BTEE2009	EE Project Based Learning - II	0	0	2	1
7	BTEE2007	Electrical Machine-I lab	0	0	2	1
8	SLBT2002	Soft Skill - 4 (English Proficiency and Aptitude Building - 3)	0	0	4	2
9	BTEE5001	Electrical Engineering Materials	3	0	0	3
						22
<b>SEMESTER V</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BTEE2008	Fundamentals of Power System	3	0	0	3
2	BEEE3002	Control Systems	3	0	0	3
3	BTEE3003	Instrumentation and Control Systems Lab	0	0	2	1
4	BTEE3004	Electrical Machine-II	3	0	0	3
5	BTEE3005	Electrical Machine-II lab	0	0	2	1
6	BTEE3006	EE Project Based Learning-3	0	0	2	1
7	SLBT3001	English Proficiency and Aptitude Building - 4	0	0	4	2
8	BTEE3015	Power Plant Engineering	3	0	0	3
9	BEEE3008	PLC and SCADA (ITS-1)	0	0	4	2
10	BTMG3001	Enterpreneurship	3	0	0	3

11	BTEE9002	Data Base Management System	0	0	2	0
						21
<b>SEMESTER VI</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BTEE3009	Power System Analysis	3	0	0	3
2	BEEE9004	Minor Project	0	0	2	1
3	BECE3022	Embedded and Iot Systems	3	0	0	3
4	BECE3023	Embedded and Iot Systems Lab	0	0	2	1
5	BEEE3011	Power Electronics	3	0	0	3
6	BEEE9001	Disruptive Technologies	3	0	0	3
7	SLBT3002	Campus to Corporate	0	0	4	2
8	BEEE6002	Non Conventional Energy Resources-P elect	3	0	0	3
9	BCSE9006	AI and ML using Python Lab	0	0	2	1
10	BTEE3019	Advanced Control System-P-Elect	3	0	0	3
11	BEEE3014	ITS-2 (Simulation using MATLAB )	0	0	2	1
<b>SEMESTER VII</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BTEE4001	Electric Drives	2	0	0	3
2	BEEE4002	Power Electronics and Drives Lab	0	0	2	1
3	BTEE3013	Power system protection and Switchgear	3	0	0	3
4	BTEE4004	Power System and Switchgear lab	0	0	2	1
5	BEEE9998	Capstone Design-1	0	0	6	3
6	BEE02T5003	Electrical and Hybrid Vehicle	3	0	0	3
7	BTEE4011	Energy Assessment and Audit(PE5)	3	0	0	3
8	BEE03P4003	Industrial Internship	0	0	2	1
9	BTMG4001	Principles of Marketing	3	0	0	3
						21
<b>SEMESTER VIII</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BTEE9999	Capstone Design-2	0	0	18	9
2	BTEE4008	Comprehensive Examination	0	0	2	0