

**School Name: School of Engineering**

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

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

**Scheme: 2019-2023**

<b>SEMESTER I</b>						
<b>S.No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	BMA101	Mathematics-1 (Multivariable Calculus)	3	1	0	3
2	BMA151	Exploration with CAS-I	0	0	2	1
3	FENG1005	Functional English	2	0	0	2
4	BCS101	Fundamentals of Computer Programing	3	0	0	3
5	BCS151	Fundamentals of Computer Programing Lab - 1	0	0	2	1
6	BPH101	Engineering Physics	3	0	0	3
7	BPH151	Engineering Physics Lab	0	0	2	1
8	BME101	Elements of Mechanical Engineering	3	0	0	3
9	BME151	Workshop Practice	0	0	2	1
10	BLE101	Psychlogy and scoiology	2	0	0	2
		Total				20
<b>SEMESTER II</b>						
<b>S.No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	BMA201	Linear Algebra and Differential Equations	3	1	0	3
2	BMA251	Exploration with CAS-II	0	0	2	1
3	BHS251	Professional Communication Lab	0	0	2	1
4	BCS251	Application of Programming using Python	0	0	2	1
5	BCH102	Engineering Science	3	0	0	3
6	BCH153	Engineering Science Lab	0	0	2	1
7	BEC101	Basic Electrical and Electronics Engineering	3	0	0	3
8	BEC151	Basic Electrical and Electronics Engineering Lab	0	0	2	1
9	Bcs901	Disruptive Technology	0	0	2	1
10	BOC253	Design and Innovation	0	0	2	1
11	BME152	Engineering Graphics	0	0	4	2
		Total				
<b>SEMESTER III</b>						
<b>S.No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>

1	BECE2010	Digital Electronics	3	0	0	3
2	MATH2001	Functions of complex variables and Transforms	3	0	0	3
3	BECE2012	Electromagnetic Field Theory	3	0	0	3
4	BTEE2006	Electrical Machine-1	3	0	0	3
5	BTEE2002	Network Analysis and Synthesis	3	0	0	3
6	BECE2016	Signals and Systems	3	0	0	3
7	BEE02T2003	Design and Engineering	2	0	0	2
8	BTEE2003	Network Analysis and Synthesis Lab	0	0	2	1
9	BEE02P2003	Engineering Clinic-2	0	0	2	1
10	SLBT2021	English Proficiency and Aptitude Building - 3	0	0	4	2
11	BTEE2007	Electrical Machine Lab-1	0	0	2	1
12	ENVS1004	Environmental Science and Engineering (Mandatory Audit Course)	2	0	0	0
		Total				25

### SEMESTER IV

S.No	Course Code	Course Title	L	T	P	C
1	MATH2004	Probability and Stochastic Processes	3	0	0	3
2	BEEE3002	Control Systems	3	0	0	3
3	BECE2015	Electronic Devices and Circuits	3	0	0	3
4	BTEE2008	Fundamentals of Power Systems	3	0	0	3
5	BTEE3015	Power Plant Engineering	3	0	0	3
6	BEEE2001	Electrical Measurement and Instrumentation	3	0	0	3
7	BEE02P2007	Engineering Clinic-3( IOT based Tinker CAD)	0	0	2	1
8	BEE02P2010	Electronic Devices and Circuits Lab	0	0	2	1
9	BEE02P2009	Measurement and Control Systems Lab	0	0	2	1
10	SLBT2022	English Proficiency and Aptitude Building-IV	0	0	4	2
		Total				22

### SEMESTER V

S.No	Course Code	Course Title	L	T	P	C
1	BECE3004	Microcontroller and Embedded system	3	0	0	3
2	BTEE3004	Electrical Machine-2	3	0	0	3
3	BTEE3009	Power System Analysis	3	0	0	3
4	BTEE3011	Power Electronics	3	0	0	3
5	*****	Program Elective-I	3	0	0	3
6	BEE03T3001	Engineering Economics and Management	3	0	0	3

7	BEE02P3001	Engineering Clinic-3(Industrial Internship)	0	0	2	1
8	BEE02P3002	Effective Leadership and Decision Making Skills	0	0	2	1
9	BECE3005	Microcontroller and Embedded Systems Lab	0	0	2	1
10	BTEE3002	Power Electronics Lab	0	0	2	1
11	BEE02T3004	Finance for Electrical Engineers	2	0	0	1
12	BTEE3005	Electrical Machine Lab-2	0	0	2	1
		Total				

### SEMESTER VI

S.No	Course Code	Course Title	L	T	P	C
1	SLBT3002	Campus to Corporate program	0	0	4	2
2	BECE3020	Digital Signal Processing	3	0	0	3
3	BEE02T3006	Power System protection	3	0	0	3
4	BTEE4005	Professional Ethics and Values	2	0	0	0
5	*****	Program Elective-II	3	0	0	3
6	*****	Program Elective-III	3	0	0	3
7	*****	Open Elective -1	3	0	0	3
8	BEE02P3008	Design and Innovation Project	0	0	2	1
9	BEE02P3007	Power System protection Lab	0	0	2	1
10	GERN1001/J APA1001/FR EN1001	Foreign Language - 1 (German, Japanese, French) *any one	0	0	2	0
		Total				20

### Semester VII

S.No	Course Code	Course Title	L	T	P	C
1	BEEE4001	Smart Grid and Energy management	3	0	0	3
2	*****	Program Elective-IV	3	0	0	3
3	*****	Program Elective-V	3	0	0	3
4	BEEE2018	Non-Conventional Energy Resources	3	0	0	3
5	*****	Open Elective-2	3	0	0	3
	BTEE4001	Electric Drive	3	0	0	3
6	BTEE3008	PLC/SCADA Lab	0	0	2	1
7	BEE03P4003	Industrial Internship	0	0	0	0
8	BEE02P4005	Technical Seminar	0	0	2	0
9	BEE02P4002	Capstone Design Phase-I	0	0	10	2
10	GERN/JAP A/FREN 1002	Foreign Language - 2 (German, Japanese, French) *Optional	0	0	2	0

		Total				21
<b>Semester VIII</b>						
S.No	Course Code	Course Title	L	T	P	C
1	BEE02P4003	Capstone Design phase - II	0	0	18	6
2	BEE02P4004	Industrial Internship & Technical Seminar	0	0	0	6
		Total				12