

School Name: School of Engineering

Department Name: Department of Electrical, Electronics & Communication

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

Scheme: 2019-2023

SEMESTER I						
S.No	Course Code	Course Title	L	T	P	C
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	4	1
10	BLE101	Psychology and Sociology	2	0	0	2
		Total				20
SEMESTER II						
Sl No	Course Codee	Name of the Course	L	T	P	C
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				
		Total				16

SEMESTER III						
SI No	Course Codee	Name of the Course	L	T	P	C
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-1	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						
SI No	Course Codee	Name of the Course	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-2 (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				23
SEMESTER V						
SI No	Course Codee	Name of the Course	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	*****	Program Elective-II	2	0	0	2
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	BEE01T3003	Database Management System	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				23

SEMESTER VI

Sl No	Course Codee	Name of the Course	L	T	P	C
1	SLBT3002	Campus to Corporate program	0	0	4	2
2	BEE02T3005	High Voltage Engineering	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-III	3	0	0	3
6	*****	Program Elective-IV	3	0	0	3
7	BTEE4013	Electrical Machine Design	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/JAP A1001/FREN1001	Foreign Language - 1 (German, Japanese, French) *any one	0	0	2	0
11	BEE02P3008	Machine Learning Using Python Programming	0	0	2	1
		Total				20

SEMESTER VII

Sl No	Course Codee	Name of the Course	L	T	P	C
1	BEEE4001	Smart Grid and Energy management	3	0	0	3
2	*****	Program Elective-V	3	0	0	3
3	*****	Program Elective-VI	3	0	0	3
4	*****	Open Elective-1	3	0	0	3
5	*****	Open Elective-2	3	0	0	3
6	BEE02T4001	Electrical Design, Estimation and Energy	3	0	0	3

		Audit				
7	BTEE3008	PLC/SCADA Lab	0	0	2	1
8	BEE03P4003	Industrial Internship	0	0	0	0
9	BEE02P4005	Technical Seminar	0	0	2	0
10	BEE02P4002	Capstone Design Phase-I	0	0	10	2
11	GERN/JAPA/F REN 1002	Foreign Language - 2 (German, Japanese, French) *Optional	0	0	2	0
		Total				21
SEMESTER VIII						
Sl No	Course Codee	Name of the Course	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