

BE (Electrical and Electronics Engineering) Curriculum**Minimum Credits to be Earned: 165**

SEMESTER I								
SL.NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT HOURS	L	T	P	C
THEORY								
1	23SEN101	Heritage of Tamils	HS	1	1	0	0	1
2	23SEN103	Technical English – I	HS	4	3	1	0	4
3	23SMA101	Matrices and Calculus	BS	4	3	1	0	4
4	23SPH113	Physics for Electrical Sciences	BS	3	3	0	0	3
5	23EER101	Electric Circuits	ES	4	3	1	0	4
6	23CSR102	C Programming	ES	3	3	0	0	3
LABORATORY								
7	23CSR104	C Programming Laboratory	ES	2	0	0	2	1
8	23EER104	Electric Circuits Laboratory	ES	2	0	0	2	1
TOTAL				23	16	3	4	21

SEMESTER II								
SL.NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT HOURS	L	T	P	C
THEORY								
1	23SEN202	Tamils and Technology	HS	1	1	0	0	1
2	23SEN205	Technical English – II	HS	3	3	0	0	3
3	23SMA204	Transforms and its Applications	BS	4	3	1	0	4
4	23SCH115	Environmental Science for Engineers	BS	3	3	0	0	3
5	23ITR201	Fundamentals of Web Design	ES	3	3	0	0	3
6	23CSR203	Data Structures and Algorithms	ES	3	3	0	0	3
LABORATORY								
7	23SEN217	Communication Skills Laboratory	HS	2	0	0	2	1
8	23SPH122	Physical Sciences Laboratory	BS	2	0	0	2	1
9	23ITR203	Web Design Laboratory	ES	2	0	0	2	1
10	23CSR205	Data Structures and Algorithms Laboratory	ES	2	0	0	2	1
TOTAL				25	16	1	8	21

SEMESTER III								
SL.NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT HOURS	L	T	P	C
THEORY								
1	23SMA307	Numerical Methods	BS	4	3	1	0	4
2	23ECR302	Electron Devices and Circuits	ES	3	2	1	0	3
3	23EER301	Digital Electronics	PC	3	3	0	0	3
4	23XXXXXX	Professional Elective - I	PE	3	3	0	0	3
5	23XXXXXX	Professional Elective - II	PE	3	3	0	0	3
6	23XXXXXX	Professional Elective - III	PE	3	3	0	0	3
7	23MXC301	Indian Constitution	MC	1	1	0	0	-
LABORATORY								
8	23ECR304	Electron Devices and Circuits Laboratory	ES	2	0	0	2	1
9	23ECR311	Digital Electronics Laboratory	ES	2	0	0	2	1
10	23EXC301	Life Skills - I	EEC	2	0	0	2	1
TOTAL				26	18	2	6	22

SEMESTER IV								
SL.NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT HOURS	L	T	P	C
THEORY								
1	23SMA409	Probability and Statistics	BS	4	3	1	0	4
2	23ECR401	Microprocessors and Microcontrollers	PC	3	3	0	0	3
3	23EER402	DC and Synchronous Machines	PC	4	3	1	0	4
4	23EER403	Measurements and Instrumentation	PC	3	3	0	0	3
5	23XXXXXX	Professional Elective - IV	PE	3	3	0	0	3
6	23XXOXXX	Open Elective - I	OE	3	3	0	0	3
7	23EXC411	Design Thinking	EEC	1	1	0	0	1
8	23MXC402	Essence of Indian Traditional Knowledge	MC	1	1	0	0	-
LABORATORY								
9	23ECR412	Microprocessors and Microcontrollers Laboratory	PC	2	0	0	2	1
10	23EER412	DC and Synchronous Machines Laboratory	PC	2	0	0	2	1
11	23EER413	Measurements and Instrumentation Laboratory	PC	2	0	0	2	1
12	23EXC401	Life Skills – II	EEC	2	0	0	2	1
TOTAL				30	20	2	8	25

SEMESTER V								
SL.NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT HOURS	L	T	P	C
THEORY								
1	23EER504	Control Systems	PC	4	3	1	0	4
2	23EER505	Transformers and Induction Machines	PC	4	3	1	0	4
3	23EER506	Transmission and Distribution	PC	4	3	1	0	4
4	23EER507	Embedded Systems	PC	3	3	0	0	3
5	23XXXXXX	Professional Elective - V	PE	3	3	0	0	3
6	23XXOXXX	Open Elective - II	OE	3	3	0	0	3
LABORATORY								
7	23EER514	Control Systems Laboratory	PC	2	0	0	2	1
8	23EER515	Transformers and Induction Machines Laboratory	PC	2	0	0	2	1
9	23EER516	Embedded Systems Laboratory	PC	2	0	0	2	1
10	23EXCXXX	Internship – I/Mini Project - I	EEC	2	0	0	2	1
11	23EXC501	Life Skills - III	EEC	2	0	0	2	1
TOTAL				31	18	3	10	26

SEMESTER VI								
SL.NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT HOURS	L	T	P	C
THEORY								
1	23ECR606	Linear Integrated Circuits	PC	4	3	1	0	4
2	23EER608	Power Electronics	PC	3	3	0	0	3
3	23EER609	Power System Analysis and Stability	PC	4	3	1	0	4
4	23XXXXXX	Professional Elective - VI	PE	3	3	0	0	3
5	23XXOXXX	Open Elective - III	OE	3	3	0	0	3
6	23XXOXXX	Open Elective - IV	OE	3	3	0	0	3
LABORATORY								
7	23ECR613	Linear Integrated Circuits Laboratory	PC	2	0	0	2	1
8	23EER617	Power Electronics Laboratory	PC	2	0	0	2	1
9	23EER618	Power System Simulation Laboratory	PC	2	0	0	2	1
10	23EXCXXX	Internship – II/Mini Project - II	EEC	2	0	0	2	1
TOTAL				28	18	2	8	24

SEMESTER VII								
SL.NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT HOURS	L	T	P	C
THEORY								
1	23SGE713	Principles of Management and Engineering Ethics	HS	3	3	0	0	3
2	23EER710	Special Electrical Machines	PC	3	3	0	0	3
3	23EER711	Digital Power System Protection	PC	3	3	0	0	3
4	23XXRXXX	Professional Elective -VII	PE	3	3	0	0	3
5	23XXOXXX	Open Elective - V	OE	3	3	0	0	3
6	23XXOXXX	Open Elective - VI	OE	3	3	0	0	3
LABORATORY								
7	23EXC702	Project Work – Phase I	EEC	4	0	0	4	2
TOTAL				22	18	0	4	20

SEMESTER VIII								
SL.NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT HOURS	L	T	P	C
LABORATORY								
1	23EXC801	Project Work – Phase II	EEC	20	0	0	20	10
TOTAL				20	0	0	20	10

Total Credits	169
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