



REGULATIONS 2024

B. E – ELECTRICAL AND ELECTRONICS ENGINEERING

CHOICE-BASED CREDIT SYSTEM

CURRICULUM FOR I TO VIII SEMESTERS

SEMESTER I

S. NO	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDIT
				L	T	P		
1.		Induction Programme	-	-	-	-	-	0
THEORY								
2.	24EN1R001	Professional English – I	HSMC	2	0	2	4	3
3.	24MA1R001	Matrix and Calculus	BSC	3	1	0	4	4
4.	24PH1R001	Engineering Physics	BSC	3	0	0	3	3
5.	24GE1R001	Problem Solving and Programming in Python	ESC	3	0	0	3	3
6.	24TA1R001	Heritage of Tamils	HSMC	1	0	0	1	1
7.	24EC1R001	Introduction to Electronics	ESC	3	0	0	3	3
PRACTICALS								
8.	24GE1R002	Programming in Python Laboratory	ESC	0	0	3	3	1.5
9.	24PH1R003	Physics Laboratory	BSC	0	0	3	3	1.5
10.	24GE1R003	Engineering Practices Laboratory	ESC	0	0	4	4	2
TOTAL				15	1	12	28	22

SEMESTER II

S. NO	COURSE CODE	COURSE TITLE	CATE- GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDIT
				L	T	P		
THEORY								
1.	24EN2R002	Professional English – II	HSMC	2	0	2	4	3
2.	24MA2R002	Transforms and Partial Differential Equations	BSC	3	1	0	4	4
3.	24CY1R001	Engineering Chemistry	BSC	3	0	0	3	3
4.	24CS2R001	Programming in C	ESC	3	0	0	3	3
5.	24TA2R002	Tamils and Technology	HSMC	1	0	0	1	1
6.	24EE2R001	Electric Circuit Analysis	PCC	3	1	0	4	4
7.	24GE2R004	Engineering Graphics	ESC	2	0	4	6	4
PRACTICALS								
8.	24CS2R003	Programming in C Laboratory	ESC	0	0	3	3	1.5
9.	24CY1R002	Chemistry Laboratory	BSC	0	0	3	3	1.5
10.	24EE2R002	Electric Circuits Laboratory	PCC	0	0	4	4	2
TOTAL				17	2	16	35	27

SEMESTER III

S. NO	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDIT
				L	T	P		
THEORY								
1.	24MA2R003	Statistics and Numerical Methods	BSC	3	1	0	4	4
2.	24EE3R003	Electromagnetic Fields	PCC	3	1	0	4	4
3.	24EE3R004	Electrical Machines-I	PCC	3	1	0	4	3
4.	24EE3R005	Digital and Electronic Circuits	PCC	3	0	2	5	4
5.	24EE3R006	Measurement and Instrumentation	PCC	2	0	2	4	3
6.	24CS3R006	Data Structures	PCC	3	0	0	3	3
PRACTICALS								
7.	24EE3R007	Electronic Circuits Laboratory	PCC	0	0	3	3	1.5
8.	24EE3R008	Electrical Machines-I Laboratory	PCC	0	0	3	3	2
9.	24CS3R009	Data Structures Laboratory	PCC	0	0	3	3	1.5
TOTAL				17	3	13	33	26

SEMESTER IV

S. NO	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDIT
				L	T	P		
THEORY								
1.	24EE4R009	Control Systems	PCC	3	0	2	5	4
2.	24EE4R010	Electrical Machines-II	PCC	3	1	0	4	3
3.	24EE4R011	Linear Integrated Circuits	PCC	3	0	0	3	3
4.	24EE4R012	Transmission and Distribution	PCC	3	0	0	3	3
5.	24EE4R013	Microprocessor and Microcontroller	PCC	3	0	0	3	3
6.	24GE4R008	Environmental Sciences & Sustainability	BSC	2	0	0	3	2
PRACTICALS								
7.	24EE4R014	Electrical Machines-II Laboratory	PCC	0	0	3	3	2
8.	24EE4R015	Linear Integrated Circuits Laboratory	PCC	0	0	3	3	2
9.	24EE4R016	Microprocessor and Microcontroller Laboratory	PCC	0	0	4	4	2
TOTAL				17	1	12	31	24

SEMESTER V

S. NO	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDIT
				L	T	P		
THEORY								
1.	24EE5R017	Power System Analysis	PCC	3	0	0	3	3
2.	24EE5R018	Power Electronics	PCC	3	0	0	3	3
3.	24EE5R019	Power System Protection	PCC	3	0	0	3	3
4.		Professional Elective-I	PEC	3	0	0	3	3
5.		Professional Elective-II	PEC	3	0	0	3	3
6.		Open Elective-I	OEC	3	0	0	3	3
PRACTICALS								
7.	24EE5R020	Power Electronics Laboratory	PCC	0	0	3	3	1.5
8.	24EE5R021	Mini-Project	EEC	0	0	2	2	1.5
TOTAL				18	0	5	23	21

SEMESTER VI

S. NO	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDIT
				L	T	P		
THEORY								
	24EE6R021	Smart Grid	PCC	3	0	0	3	3
	24EE6E001	Management Elective	HSMC	3	0	0	3	3
		Professional Elective-III	PEC	3	0	0	3	3
		Professional Elective-IV	PEC	3	0	0	3	3
		Open Elective-II	OEC	3	0	0	3	3
		Mandatory Course-II	MC	2	0	0	2	0
PRACTICALS								
	24EE6R022	Power System Laboratory	PCC	0	0	3	3	1.5
	24EE6P002	Mini-Project	EEC	0	0	2	2	1.5
TOTAL				17	0	5	22	18

SEMESTER VII

S. NO	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDIT
				L	T	P		
THEORY								
1	24EE7R023	Grid Integration of Electric Vehicles	PCC	3	0	0	3	3
2	24GE7R001	Human Values and Ethics	HSMC	3	0	0	3	3
3		Professional Elective-V	PEC	3	0	0	3	3
4		Professional Elective-VI	PEC	3	0	0	3	3
5		Open Elective-III	OEC	3	0	0	3	3
6		Mandatory Course-II	MC	2	0	0	2	0
PRACTICALS								
7	24EE7I001	Internship	EEC	0	0	4	4	2
8	24EE7P003	Project Work-1	EEC	0	0	4	4	2
TOTAL				17	0	8	25	19

SEMESTER VIII

S. NO	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDIT
				L	T	P		
PRACTICALS								
1.	24EE8P004	Project Work-2	EEC	0	0	10	10	8
TOTAL				0	0	10	10	8

S.NO	SUBJECT AREA	CREDITS PER SEMESTER								TOTAL CREDIT
		I	II	III	IV	V	VI	VII	VIII	
1	HSMC	4	4				3	3		14
2	BSC	8.5	8.5	4	2					23
3	ESC	9.5	8.5							18
4	PCC		6	22	22	10.5	4.5	3		68
5	PEC					6	6	6		18
6	OEC					3	3	3		9
7	EEC					1.5	1.5	4	8	15
8	NC/ Mandatory									
TOTAL		22	27	26	24	21	18	19	8	165