



REGULATIONS 2024
B. E ELECTRONICS AND COMMUNICATION ENGINEERING
CHOICE BASED CREDIT SYSTEM
CURRICULUM FOR I TO VIII SEMESTERS

SEMESTER I

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.		Induction Programme	-	-	-	-	-	0
THEORY								
2.	24EN1R001	Professional English - I	HSMC	4	2	0	2	3
3.	24MA1R001	Matrices and Calculus	BSC	4	3	1	0	4
4.	24PH1R001	Engineering Physics	BSC	3	3	0	0	3
5.	24GE1R001	Problem Solving and Programming in Python	ESC	3	3	0	0	3
6.	24TA1R001	Heritage of Tamils	HSMC	1	1	0	0	1
7.	24EC1R001	Introduction to Electronics	PCC	3	3	0	0	3
PRACTICALS								
8.	24GE1R002	Programming in Python Laboratory	ESC	3	0	0	3	1.5
9.	24PH1R003	Physics Laboratory	BSC	3	0	0	3	1.5
10.	24GE1R003	Engineering Practices Laboratory	ESC	4	0	0	4	2
Total				28	15	1	12	22

SEMESTER II

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

SEMESTER III

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	24MA3R006	Probability and Random Processes	BSC	4	3	1	0	4
2.	24EC3R003	Analog Electronics	PCC	3	3	0	0	3
3.	24EC3R004	Digital Signal Processing	PCC	5	3	0	2	4
4.	24EC3R005	Digital Systems Design	PCC	3	3	0	0	3
5.	24EC3R006	Analog Communication System	PCC	3	3	0	0	3
6.	24EC3R007	Electromagnetic Fields	PCC	3	3	0	0	3
PRACTICALS								
7.	24EC3R008	Analog Electronics Laboratory	PCC	3	0	0	3	1.5
8.	24EC3R009	Digital Circuits Lab	PCC	3	0	0	3	1.5
Total				27	18	1	8	23

SEMESTER IV

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	24EC4R010	Integrated Circuits	PCC	3	3	0	0	3
2.	24EC4R011	Embedded Systems	PCC	3	3	0	0	3
3.	24EC4R012	Control systems	PCC	3	2	1	0	3
4.	24EC4R013	Digital Communication	PCC	3	3	0	0	3
5.	24EC4R014	Transmission lines and RF Systems	PCC	3	3	0	0	3
6.	24EC4R017	IOT and Applications	PCC	3	3	0	0	3
7.	24GE4R008	Environmental Sciences & Sustainability	BSC	2	2	0	0	2
PRACTICALS								
8.	24EC4R015	Communication Systems Laboratory	PCC	3	0	0	3	1.5
9.	24EC4R016	Linear Integrated Circuits Laboratory	PCC	3	0	0	3	1.5
10.	24EC4R019	Embedded and IoT lab	PCC	3	0	0	3	1.5
Total				29	19	01	9	24.5

SEMESTER V

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective – I	PEC	3	3	0	0	3
2.		Professional Elective – II	PEC	3	3	0	0	3
3.		Open Elective – I	OEC	3	3	0	0	3
4.	24EC5R020	VLSI and Chip Design	PCC	5	3	0	2	4
5.	24EC5R021	Satellite Communication	PCC	3	3	0	0	3
6.	24EC5R022	Wireless Communication	PCC	3	3	0	0	3
7.		Mandatory Course-I	MC	3	3	0	0	0
PRACTICALS								
8.	24EC5R023	VLSI Laboratory	PCC	3	0	0	3	1.5
9.	24EC5R024	Wireless Communication Laboratory	PCC	3	0	0	3	1.5
10.	24EC5P001	Mini-Project	EEC					1
Total				29	21	0	8	23

SEMESTER VI

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective III	PEC	3	3	0	0	3
2.		Professional Elective IV	PEC	3	3	0	0	3
3.		Open Elective–II	OEC	3	3	0	0	3
4.	24EC6R025	Antennas and Microwave Engineering	PCC	3	3	0	0	3
5.	24CS6R024	Artificial Intelligence and Machine Learning	EEC	5	3	0	2	4
6.		Elective: Management	HSMC	3	3	0	0	3
7.		Mandatory Course-II	MC	3	3	0	0	0
PRACTICALS								
8.	24EC6R026	Microwave Lab	PCC	3	0	0	3	1.5
9.	24EC6P002	Mini-Project	EEC	2	0	0	2	1
Total				28	21	0	7	21.5

SEMESTER VII

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective V	PEC	3	3	0	0	3
2.		Professional Elective VI	PEC	3	3	0	0	3
3.		Open Elective–III	OEC	3	3	0	0	3
4.		Open Elective–IV	OEC	3	3	0	0	3
5.	24GE3R007	Human Values & Ethics	HSMC	3	3	0	0	3
PRACTICALS								
6.	24EC7I001	Internship	EEC	0		0	0	2
7.	24EC7P003	Project Phase-1	EEC	4		0	4	2
Total				19	15	0	4	19

SEMESTER VIII

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
PRACTICALS								
1.	24EC8P004	Project	EEC	16	0	0	16	8
Total				16	0	0	16	8

Sl. No.	SUBJECT AREA	CREDITS PER SEMESTER								TOTAL CREDITS
		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	6.5	14.5	-	-	-	-	-	-	21
4.	PCC	3	-	19	22.5	13	4.5	-	-	62
5.	PEC	-	-	-	-	6	6	6	-	18
6.	OEC	-	-	-	-	3	3	6	-	12
7.	EEC	-	-	-	-	1	5	4	8	18
Total		22	27	23	24.5	23	21.5	19	8	168