

I YEAR B.Tech. (4YDC)
Common To All Branches (Admission year 2021 and Onwards)

Semester - A

S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	BSC	MA10001	Mathematics - I	4	1	-	4	-	70	30	-	-	100
2	BSC	PH10006	Physics	4	1	2	4	1	70	30	20	30	150
3	ESC	CE10003	Fundamentals of Civil Engineering & Applied Mechanics	4	-	2	3	1	70	30	20	30	150
4	ESC	ME10149	Engineering Graphics	3	-	4	2	2	70	30	40	60	200
5	ESC	EE10005	Fundamentals of Electrical Engineering	4	-	2	3	1	70	30	20	30	150
6	MC	HU	Induction Program	3 weeks in the beginning of I Year									
TOTAL				19	2	10	16	5	350	150	100	150	750

Semester - B

S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	BSC	MA10501	Mathematics – II	4	1	-	4	-	70	30	-	-	100
2	BSC	CH10506	Chemistry	4	1	2	4	1	70	30	20	30	150
3	HSMC	HU10651	Technical English	4	-	2	3	1	70	30	20	30	150
4	ESC	CO10504	Computer Programming	4	-	2	3	1	70	30	20	30	150
5	ESC	ME10652	Fundamentals of Mechanical Engineering	4	-	-	3	-	70	30	-	-	100
6	ESC	IP10581	Manufacturing Practices	-	1	4	-	3	-	-	40	60	100
7	MC	HU	Induction Program	3 weeks in the beginning of I Year									
TOTAL				20	3	10	17	6	350	150	100	150	750

II B.TECH.(4YDC) ELECTRONICS & TELECOMMUNICATIONS ENGINEERING

Semester: III

S. No.	Subject Category	Subject Code	Subject Name	Periods per Week			Credits		Max Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA25014	Mathematics-III	4	1	-	4	-	70	30	0	0	100
2	PCC	EC25016	Electronics Devices	4	-	2	3	1	70	30	40	60	200
3	PCC	EC25017	Signals and Systems	4	-	-	3	-	70	30	0	0	100
4	PCC	EE 25004	Network Theory & Analysis	4	-	2	3	1	70	30	40	60	200
5	PCC	EC25018	Digital System Design	4	-	2	3	1	70	30	40	60	200
6	HSMC	HU25005	Economics for Engineers	4	-	-	3	-	70	30	0	0	100
			Total	24	1	6	19	3	420	180	120	180	900

Semester: IV

S. No.	Subject Category	Subject Code	Subject Name	Periods per Week			Credits		Max Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA25563	Mathematics-IV	4	1	-	4	-	70	30	0	0	100
2	PCC	EC25564	Electromagnetic Waves	4	-	-	3	-	70	30	0	0	100
3	PCC	EC25565	Analog Circuits	4	-	2	3	1	70	30	40	60	200
4	BSC	EC25566	Probability Theory and Stochastic Processes	4	-	-	3	-	70	30	0	0	100
5	PCC	EC25567	Analog and Digital Communication	4	-	2	3	1	70	30	40	60	200
6	ESC	EC25568	Electronics Workshop	-	-	4	-	2	0	0	40	60	100
7	HSMC	HU25881	Values, Humanity and Professional Ethics	0	3	0	2	-	0	100	-	-	100
			Total	20	4	8	18	4	350	250	120	180	900

Internship 1	2-4 Weeks
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III B.Tech.(4YDC) ELECTRONICS & TELECOMMUNICATIONS ENGINEERING

SEMESTER - V

S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PCC	EC35008	Microprocessors and Microcontrollers	4	-	2	3	1	70	30	40	60	200
2	PCC	EC35009	Antenna and Wave Propagation	4	-	2	3	1	70	30	40	60	200
3	PCC	EC35010	VLSI Design	4	-	2	3	1	70	30	40	60	200
4	PCC	EC35011	Data Communication	4	-	-	3	-	70	30	-	-	100
5	PEC-1		Program Elective - I	4	-	2	3	1	70	30	40	60	200
6		EC35481	Evaluation of Internship-1	-	-	-	-	2	-	-	100	-	100
Total				20	0	8	15	6	350	150	260	240	1000

SEMESTER:VI

S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PCC	EE35510	Control Systems	4	-	-	3	-	70	30	-	-	100
2	PCC	EC35511	Mobile Communication	4	-	-	3	-	70	30	-	-	100
3	PCC	EC35513	Computer Networks	4	-	2	3	1	70	30	40	60	200
4	PCC	EC35514	Applied Digital Signal Processing	4	-	2	3	1	70	30	40	60	200
5	PEC-2		Program Elective-II	4	-	2	3	1	70	30	40	60	200
6	ESC	EC35881	Electronics design & Simulation Workshop	-	-	4	-	2	-	-	40	60	100
Total				20	0	10	15	5	350	150	160	240	900

Internship 2 2-4 Weeks

* 1 Period = 50 Minutes

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Elective I			SEMESTER - V
S.No.	Subject Category	Subject Code	Subject
1	PEC-I	CO35251	Data Structure & Operating system
2	PEC-I	EC35252	Electronics Measurement

Elective II			SEMESTER - VI
S.No.	Subject Category	Subject Code	Subject
1	PEC-II	EC35661	Embedded Systems
2	PEC-II	IT35662	Intelligent systems

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SEMESTER - VII

S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PCC	EC45009	Wireless and Mobile Networks	4	-	-	3	-	70	30	-	-	100
2	PEC-3		Program Elective-III	4	-	2	3	1	70	30	40	60	200
3	PEC-4		Program Elective-IV	4	-	-	3	-	70	30	-	-	100
4	OEC-1		Open Elective - I	4	-	-	3	-	70	30	-	-	100
	HSMC	IP45010	Industrial Engineering & Management	4	-	-	3	-	70	30	-	-	100
5		EC45481	Evaluation of Internship-2	-	-	6	-	2	-	-	100	-	100
6		EC45498	Major Project Phase-I (AB group)	-	-	8	-	4	-	-	40	60	100
7		EC45998	Major Project Phase-II (BA group)	-	-	8	-	4	-	-	40	60	100
Total			For AB Group	20	0	16	15	7	350	150	180	120	800
			For BA Group	20	0	16	15	7	350	150	180	120	800

SEMESTER - VIII

S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PEC-5		Program Elective-V	4	-	-	3	-	70	30	-	-	100
2	OEC-2		Open Elective - II	4	-	-	3	-	70	30	-	-	100
3		EC45882	Evaluation of Internship-3	-	2	4	-	4	-	-	100	-	100
4	PROJ	EC45998	Major Project Phase-II (AB group)	-	-	8	-	4	-	-	40	60	100
5	PROJ	EC45498	Major Project Phase-I (BA group)	-	-	8	-	4	-	-	40	60	100
Total			For AB Group	8	2	12	6	8	140	60	180	120	400
			For BA Group	8	2	12	6	8	140	60	140	60	400

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List of Electives

Program Elective-III			SEMESTER VII
S.No.	Subject Category	Subject Code	Subject
1		EC45207	Microwave Devices and Circuits
2		EC45208	Optical Communication
3			

Program Elective-IV			SEMESTER VII
S.No.	Subject Category	Subject Code	Subject
1		CO45251	Data Science
2		EI45252	VLSI Technology
3		BM45253	Digital Image Processing
4			Moocs/Swayam Online Courses

Open Elective - I			SEMESTER VII
S.No.	Subject Category	Subject Code	Subject
1		EC45301	Internet of Things
2		EC45302	Advanced Digital Signal Processing
3			Moocs/Swayam Online Courses

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List of Electives

Program Elective-V			SEMESTER VIII
S.No.	Subject Category	Subject Code	Subject
1		EE	Industrial and Power Electronics
2		EC45602	Optical Networks
3			Moocs/Swayam Online Courses*

Open Elective - II			SEMESTER VIII
S.No.	Subject Category	Subject Code	Subject
1		EC45759	Satellite and Radar Communication
2		EC	Game Theory in Wireless Communication
3		EC	Introduction to Cryptography
4			Moocs/Swayam Online Courses*