

5-year Integrated M. Tech. degree Course ECE w.e.f. 2020-21
Batch

FIRST SEMESTER

S.No.	Course		Contact Hours				Credits
	Course Code	Title	L	T	P	Total	
1	15B11MA111	Mathematics-1	3	1	-	4	4
2	15B11PH111	Physics-1	3	1	-	4	4
3	15B11CI111	Software Development Fundamentals-I	3	1	-	4	4
4	15B11HS112	English	1		2	3	2
5	15B17PH171	Physics Lab-1	-	-	2	2	1
6	15B17CI171	Software Development Lab-I	-	-	4	4	2
7	18B15GE112	Workshop	3		3	3	1.5
		TOTAL				24	18.5

SECOND SEMESTER

S.No	Course		Contact Hours				Credits
	Course Code	Title	L	T	P	Total	
1	15B11MA211	Mathematics-2	3	1	-	4	4
2	15B11PH211	Physics-2	3	1	-	4	4
3	15B11EC111	Electrical Science-I	3	1	-	4	4
4	15B11CI211	Software Development Fundamentals-II	3	1	-	4	4
5	15B17PH271	Physics Lab-2	-	-	2	2	1
6	15B17EC171	Electrical Science Lab-I	-	-	2	2	1
7	15B17CI271	Software Development Lab-II	-	-	2	2	1
8	22B12HS111	Life Skills & Professional Communication Lab			2	2	0
9	18B15GE111	Engineering Drawing & Design			3	3	1.5
		TOTAL				27	20.5

THIRD SEMESTER

Sr.No.	Course		Contact Hours				Credits
	Course Code	Title	L	T	P	Total	
1	15B11MA301	Probability and Random Processes	3	1	-	4	4
2	18B11EC214	Signals & Systems	3	1	-	4	4
3	18B11EC215	Digital Circuit Design	3	1	-	4	4
4	15B11EC211	Electrical Science-II	3	1	-	4	4
5	15B11HS211	Economics	2	1	-	3	3
6	19B13BT211	Environmental Studies	3	-	-	3	Qualifying
7	18B15EC214	Signals & Systems Lab	-	-	2	2	1
8	18B15EC215	Digital Circuit Design Lab	-	-	2	2	1
9	15B17EC271	Electrical Science Lab-II	-	-	2	2	1
		TOTAL				28	22

FOURTH SEMESTER

S.No	Course		Contact Hours				Credits
	Course Code	Title	L	T	P	Total	
1	Xxxxx	HSS Elective – 1	2	1	-	3	3
2	15B11EC411	Analogue Electronics	3	1		4	4
3	18B11EC212	Analog and Digital Communication	3	1	-	4	4
4	15B11EC413	Digital Signal Processing	3	1	-	4	4
5	15B17EC471	Analogue Electronics Lab			2	2	1
6	18B15EC212	Analog and Digital Communication Lab	-	-	2	2	1
7	15B17EC473	Digital Signal Processing Lab	-	-	2	2	1
8	Xxxxx	Universal Human Values (UHV)	2	1	-	3	3
		TOTAL				24	21

FIFTH SEMESTER

S.No	Course		Contact Hours				Credits
	Course Code	Title	L	T	P	Total	
1.	Xxxxx	HSS Elective-2	3		-	3	3
2.	15B11CI518	Data Structures and Algorithms	3		-	3	3
3.	Xxxxx	Discipline Elective -1	3	-	-	3	3
4.	Xxxxx	Science Elective	3	-	-	3	3
5.	15B19EC591	Minor Project – 1				4	2
6.	15B17CI578	Data Structures and Algorithms Lab	-	-	2	2	1
7.	18B15EC312	Electromagnetic Field Theory Lab	-	-	2	2	1
8.	18B15EC314	Python for Signal Processing & Communication	-	-	2	2	1
9	18B11EC312	Electromagnetic Field Theory	3	1	-	4	4
10	18B15EC313	Embedded Systems/IOT Lab	-	-	2	2	1
11	18B12HS311	Indian Constitution & Traditional Knowledge	3	-	-	3	Qualifying
		TOTAL				31	22

SIXTH SEMESTER

S.No.	Course		Contact Hours				Credits
	Course Code	Title	L	T	P	Total	
1.	15B11EC611	Telecommunication Networks	3		-	3	3
2.	Xxxxx	Discipline Elective – 2	3	-	-	3	3
3.	Xxxxx	Discipline Elective - 3	3	-	-	3	3
4.	Xxxxx	Open Elective - 1	3			3	3
		Selected Value Added Course	2			2	Audit
5.	15B17EC671	Telecommunication Networks Lab	-	-	2	2	1
6.	15B19EC691	Minor Project-2	-	-		4	2
7	18B11EC315	VLSI Design	3	1	-	4	4
8	18B15EC315	VLSI Design Lab-11	-	-	2	2	1
9	Xxxxx	HSS Elective - 3	2	1	-	3	3
		TOTAL				27/29	23

The students have to opt for M.Tech Specialization in which they wish to have their M.Tech Degree

SEVENTH SEMESTER

Sr. No.	Course		Contact Hours				Credits
	Course Code	Title	L	T	P	Total	
1.	Xxxxx	Discipline Elective – 4	3			3	3
2.	Xxxxx	Discipline Elective – 5	3			3	3
3.	Xxxxx	Discipline Elective – 6	3	-	-	3	3
4.	Xxxxx	Open Elective – 2	3		-	3	3
5.	15B19EC791	Major Project Part-1	-	-		8	4
6	15B19EC793	Summer Training Viva	-	-	-	-	Qualif Ying
7.	17M11EC118	Advanced Digital Signal Processing	3			3	3
8.	20M51EC121 /20M31EC11 3/20M41EC1 17	Flexicore Introduction to IoT System Design Introduction to Machine Learning Advanced Digital Communication Systems	3			3	3
		TOTAL				26	22

EIGHTH SEMESTER

Sr. No.	Course		Contact Hours				Credits
	Course Code	Title	L	T	P	Total	
1.	Xxxxx	Open Elective -3	3			3	3
2.	15B19E C891	Major Project Part-2	-	-		16	8
3.	Xxxxxx	M.Tech II Sem Core Course	3			3	3
4.	Xxxxxx	M.Tech II Sem Core Course	3			3	3
5.	Xxxxxx	DE-III(M.Tech)	3			3	3
6.	Xxxxxx	DE-1V(M.Tech)	3			3	3
7.	Xxxxxx	DE-V(M.Tech)	3			3	3
8.	Xxxxxx	M. Tech. Audit – I					Qualifying
						34	26

NINTH SEMESTER(Summer)

Sr. No.	Course		Contact Hours				Credits
	Course Code	Title	L	T	P	Total	
1.	Xxxxx	Discipline Elective – 7	3			3	3
2.	Xxxxx	Discipline Elective – 8	3			3	3
3.	Xxxxx	Research Methodology and Intellectual Property Rights	2	-	-	2	2
4.	Xxxxx	M.Tech Lab-II				6	3
		TOTAL				16	11

TENTH SEMESTER

Sr. No.	Course		Contact Hours				Credits
	Course Code	Title	L	T	P	Total	
1.	Xxxxx	M.Tech Open Elective	3			3	3
2.	Xxxxxx	DE-VI(M.Tech)	3			3	3
3.	Xxxxxx	DE-VII(M.Tech)	3			3	3
4.	17M17EC129	PBL-II				4	4
5.	Xxxxxx	Seminar & Term Paper etc				4	4
6.	Xxxxxx	M.Tech Lab-I				6	3
7.	Xxxxxx	M. Tech. Audit – I					Qualifying
						23	20

ELEVENTH SEMESTER

Sr. No.	Course		Contact Hours				Credits
	Course Code	Title	L	T	P	Total	
1.	Xxxxx	Dissertation/ Industrial project/ Entrepreneurial project					20
2.	17M11EC120	PBL-I					2
						23	22

Total Credits: 127 + 22 + 26+ 11 + 20 + 22 = 228 Credits