

SCHEME : ELECTRONICS & COMMUNICATION ENGINEERING (I to VIII SEM) APPLICABLE FOR STUDENTS ADMITTED IN 2020-21 AND ONWARDS																
Year/Sem	Course Code	Subject Name	Type	CORE/ELECTIVE	Group	IC	DC	DE	Non-Graded	OC	Dep.Spec.	Minor.Spec.	Max Marks Internal	Max Marks External	Credit /Unit	Programme-Option
1 Sem.	MTL100	Engineering Mathematics-I	TH	CORE	1	Yes	No	No	No	No			50	100	4	A
1 Sem.	CSL100	Programming for Problem Solving	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
1 Sem.	CML101	Engineering Chemistry	TH	CORE	3	Yes	No	No	No	No			50	100	4	A
1 Sem.	MEL100	Basic Mechanical Engineering	TH	CORE	4	Yes	No	No	No	No			50	100	2	A
1 Sem.	HUN101	Human Values & Professional Ethics	TH	CORE	5	No	No	No	Yes	No			0	0	2	A
1 Sem.	CMP100	Engineering Chemistry Lab	PR	CORE	6	Yes	No	No	No	No			50	25	1	A
1 Sem.	MEP100	Basic Mechanical Engineering Lab	PR	CORE	7	Yes	No	No	No	No			50	25	1	A
1 Sem.	CEP102	Computer Aided Engineering Graphics	PR	CORE	8	Yes	No	No	No	No			50	25	1	A
1 Sem.	MEP101	Product Realization through Manufacturing	PR	CORE	9	Yes	No	No	No	No			50	25	1	A

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1 Sem.	HUN111	Human Values Lab	PR	CORE	10	No	No	No	Yes	No			0	0	1	A
1 Sem.	SAN101	Induction Program	PR	CORE	11	No	No	No	Yes	No			0	0	0.5	A
1 Sem.	CSP100	Programing Lab	PR	CORE	12	Yes	No	No	No	No			50	25	1	A
1 Sem.	SAA100	SODECA (Anandam)	PR	CORE	13	No	No	No	No	No			100	0	0.5	A
2 Sem.	MTL101	Engineering Mathematics-II	TH	CORE	1	Yes	No	No	No	No			50	100	4	A
2 Sem.	CSL101	Data Analysis & AI Using Python	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
2 Sem.	PYL100	Engineering Physics	TH	CORE	3	Yes	No	No	No	No			50	100	4	A
2 Sem.	CEL100	Basic Civil Engineering	TH	CORE	4	Yes	No	No	No	No			50	100	2	A
2 Sem.	HUN102	Communication Skills	TH	CORE	5	No	No	No	Yes	No			0	0	2	A

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2 Sem.	PYP100	Engineering Physics Lab	PR	CORE	6	Yes	No	No	No	No			50	25	1	A
2 Sem.	CEP100	Basic Civil Engineering Lab	PR	CORE	7	Yes	No	No	No	No			50	25	1	A
2 Sem.	MEP102	Computer Aided Machine Drawing	PR	CORE	8	Yes	No	No	No	No			50	25	1	A
2 Sem.	ECP200	Skill Development Laboratory	PR	CORE	9	Yes	No	No	No	No			50	25	1	A
2 Sem.	HUN112	Language Lab	PR	CORE	10	No	No	No	Yes	No			0	0	1	A
2 Sem.	TPN101	Club activity	PR	CORE	11	No	No	No	Yes	No			0	0	0.5	A
2 Sem.	CSP101	Python Lab	PR	CORE	12	Yes	No	No	No	No			50	25	1	A
2 Sem.	SAA100	SODECA (Anandam)	PR	CORE	13	No	No	No	No	No			100	0	0.5	A
3 Sem.	CEL 101	Environmental Science	TH	CORE	1	Yes	No	No	No	No			50	100	2	A

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3 Sem.	HUL201	General Studies	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
3 Sem.	ECL101	Digital System Design	TH	CORE	3	No	Yes	No	No	No			50	100	3	A
3 Sem.	ECL102	Electronics Measurement & Instrumentation	TH	CORE	4	No	Yes	No	No	No			50	100	3	A
3 Sem.	ECL103	Network Theory	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
3 Sem.	ECL104	Electronics Devices	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
3 Sem.	ECP104	Electronics Devices Lab	PR	CORE	7	No	Yes	No	No	No			50	25	1	A
3 Sem.	ECP101	Digital System Design Lab	PR	CORE	8	No	Yes	No	No	No			50	25	1	A
3 Sem.	ECP102	Electronics Measurement & Instrumentation Lab	PR	CORE	9	No	Yes	No	No	No			50	25	1	A
3 Sem.	ECP108	Computer Programming & Data Structure Lab	PR	CORE	10	No	Yes	No	No	No			50	25	1	A

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3 Sem.	TPN102	Soft Skill Development -1	PR	CORE	11	No	No	No	Yes	No			0	0	1	A
3 Sem.	SAA100	SODECA (Anandam)	PR	CORE	12	No	No	No	No	No			100	0	0.5	A
4 Sem.	MTL208	Advanced Mathematics (EC)	TH	CORE	1	Yes	No	No	No	No			50	100	4	A
4 Sem.	HUL202	Economics and Financial Management	TH	CORE	2	Yes	No	No	No	No			50	100	3	A
4 Sem.	ECL201	Analog Circuits	TH	CORE	3	No	Yes	No	No	No			50	100	3	A
4 Sem.	ECL202	Signal & Systems	TH	CORE	4	No	Yes	No	No	No			50	100	3	A
4 Sem.	ECL203	Microcontrollers	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
4 Sem.	ECL204	Analog and Digital Communication	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
4 Sem.	ECL241	Digital System Design	TH	ELECTIVE	7	No	No	No	No	Yes			50	100	3	A

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4 Sem.	ECL242	Control System	TH	ELECTIVE	7	No	No	No	No	Yes			50	100	3	A
4 Sem.	ECL243	CONSUMER ELECTRONICS	TH	ELECTIVE	7	No	No	No	No	Yes			50	100	3	A
4 Sem.	ECP204	Analog and Digital Communication Lab	PR	CORE	8	No	Yes	No	No	No			50	25	1	A
4 Sem.	ECP201	Analog Circuits Lab	PR	CORE	9	No	Yes	No	No	No			50	25	1	A
4 Sem.	ECP203	Microcontrollers Lab	PR	CORE	10	No	Yes	No	No	No			50	25	1	A
4 Sem.	ECP202	Signal Processing Lab	PR	CORE	11	No	Yes	No	No	No			50	25	1	A
4 Sem.	TPN103	Soft Skill Development -2	PR	CORE	12	No	No	No	Yes	No			0	0	1	A
4 Sem.	SAA100	SODECA (Anandam)	PR	CORE	13	No	No	No	No	No			100	0	0.5	A

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4 Sem.	ECL294	Pattern Recognition & Machine Learning	TH	CORE	14	No	No	No	No	No	Digital Communication		50	100	3	A
4 Sem.	ECP294	Pattern Recognition & Machine Learning Lab	PR	CORE	15	No	No	No	No	No	Digital Communication		50	25	1	A
4 Sem.	ECL291	Communication Systems	TH	ELECTIVE	16	No	No	No	No	No		Electronics & Communication Engineering (For Circuit Branches)	50	100	3	A

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4 Sem.	ECL292	Control Systems	TH	ELECTIVE	16	No	No	No	No	No		Electronics & Communication Engineering (For Circuit Branches)	50	100	3	A
4 Sem.	ECP291	Communication Lab	PR	ELECTIVE	17	No	No	No	No	No		Electronics & Communication Engineering (For Circuit Branches)	50	25	1	A
4 Sem.	ECP292	Control Lab	PR	ELECTIVE	17	No	No	No	No	No		Electronics & Communication Engineering (For Circuit Branches)	50	25	1	A



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4 Sem.	ECL293	Electronics Devices	TH	CORE	18	No	No	No	No	No		Electronics & Communication Engineering (For Non-Circuit Branches)	50	100	3	A
4 Sem.	ECP293	Electronics Devices Lab	PR	CORE	19	No	No	No	No	No		Electronics & Communication Engineering (For Non-Circuit Branches)	50	25	1	A
5 Sem.	HUL203	Indian Constitution	TH	CORE	1	Yes	No	No	No	No			50	100	2	A
5 Sem.	ECL301	Electromagnetics Waves	TH	CORE	2	No	Yes	No	No	No			50	100	3	A
5 Sem.	ECL302	Control system	TH	CORE	3	No	Yes	No	No	No			50	100	3	A

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5 Sem.	ECL303	Digital Signal Processing	TH	CORE	4	No	Yes	No	No	No			50	100	3	A
5 Sem.	ECL304	Microwave Theory & Techniques	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
5 Sem.	ECL351	Bio-Medical Electronics	TH	ELECTIVE	6	No	No	Yes	No	No			50	100	3	A
5 Sem.	ECL352	Embedded Systems	TH	ELECTIVE	6	No	No	Yes	No	No			50	100	3	A
5 Sem.	ECL353	Probability Theory & Stochastic Process	TH	ELECTIVE	6	No	No	Yes	No	No			50	100	3	A
5 Sem.	ECL354	Satellite Communication	TH	ELECTIVE	6	No	No	Yes	No	No			50	100	3	A
5 Sem.	ECL355	Computer Architecture	TH	ELECTIVE	6	No	No	Yes	No	No			50	100	3	A
5 Sem.	ECL356	Telecommunication Engineering	TH	ELECTIVE	7	No	No	No	No	Yes			50	100	3	A
5 Sem.	ECL357	Industrial Electronic System Design	TH	ELECTIVE	7	No	No	No	No	Yes			50	100	3	A

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5 Sem.	ECL358	Electronics in Agriculture	TH	ELECTIVE	7	No	No	No	No	Yes			50	100	3	A
5 Sem.	ECP310	RF Simulation Lab	PR	CORE	8	No	Yes	No	No	No			50	25	2	A
5 Sem.	ECP303	Digital Signal Processing Lab	PR	CORE	9	No	Yes	No	No	No			50	25	1	A
5 Sem.	ECP304	Microwave Lab	PR	CORE	10	No	Yes	No	No	No			50	25	1	A
5 Sem.	ECN201	Seminar-1	PR	CORE	11	No	No	No	Yes	No			0	0	1	A
5 Sem.	ECT301	Industrial training (45 days)	PR	CORE	12	No	No	No	No	No			50	25	2	A
5 Sem.	SAA100	SODECA (Anandam)	PR	CORE	13	No	No	No	No	No			100	0	0.5	A

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5 Sem.	ECL395	Analog Modeling and Simulation with SPICE	TH	CORE	14	No	No	No	No	No	Digital Communication		50	100	3	A
5 Sem.	ECP395	Analog Modeling and Simulation Lab	PR	CORE	15	No	No	No	No	No	Digital Communication		50	25	1	A
5 Sem.	ECL391	Digital Signal Processing	TH	CORE	16	No	No	No	No	No		Electronics & Communication Engineering (For Circuit Branches)	50	100	3	A

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5 Sem.	ECP391	Digital Signal Processing Lab	PR	CORE	17	No	No	No	No	No		Electronics & Communication Engineering (For Circuit Branches)	50	25	1	A
5 Sem.	ECL393	Digital System Design	TH	CORE	18	No	No	No	No	No		Electronics & Communication Engineering (For Non-Circuit Branches)	50	100	3	A
5 Sem.	ECP393	Digital System Design Lab	PR	CORE	19	No	No	No	No	No		Electronics & Communication Engineering (For Non-Circuit Branches)	50	25	1	A

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6 Sem.	ECL311	Power Electronics	TH	CORE	1	No	Yes	No	No	No			50	100	2	A
6 Sem.	ECL312	Computer Network	TH	CORE	2	No	Yes	No	No	No			50	100	3	A
6 Sem.	ECL313	Fiber Optics Communications	TH	CORE	3	No	Yes	No	No	No			50	100	2	A
6 Sem.	ECL314	Antennas and Propagation	TH	CORE	4	No	Yes	No	No	No			50	100	3	A
6 Sem.	ECL315	Information theory and coding	TH	CORE	5	No	Yes	No	No	No			50	100	4	A
6 Sem.	ECL361	Introduction to MEMS	TH	ELECTIVE	6	No	No	Yes	No	No			50	100	4	A
6 Sem.	ECL362	Nano Electronics	TH	ELECTIVE	6	No	No	Yes	No	No			50	100	4	A
6 Sem.	ECL363	Neural Network And Fuzzy Logic Controller	TH	ELECTIVE	6	No	No	Yes	No	No			50	100	4	A
6 Sem.	ECL364	High Speed Electronics	TH	ELECTIVE	6	No	No	Yes	No	No			50	100	4	A

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6 Sem.	ECL366	Digital Signal Processing	TH	ELECTIVE	7	No	No	No	No	Yes			50	100	4	A
6 Sem.	ECL367	Digital Image and Video Processing	TH	ELECTIVE	7	No	No	No	No	Yes			50	100	4	A
6 Sem.	ECL368	Communication Systems	TH	ELECTIVE	7	No	No	No	No	Yes			50	100	4	A
6 Sem.	ECP312	Computer Network Lab	PR	CORE	8	No	Yes	No	No	No			50	25	2	A
6 Sem.	ECP314	Antenna and wave propagation Lab	PR	CORE	9	No	Yes	No	No	No			50	25	1	A
6 Sem.	ECP319	Electronics Design Lab	PR	CORE	10	No	Yes	No	No	No			50	25	2	A
6 Sem.	ECP311	Power Electronics Lab	PR	CORE	11	No	Yes	No	No	No			50	25	1	A
6 Sem.	ECN202	Seminar-2	PR	CORE	12	No	No	No	Yes	No			0	0	1	A
6 Sem.	SAA100	SODECA (Anandam)	PR	CORE	13	No	No	No	No	No			100	0	0.5	A

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6 Sem.	ECL396	Antenna Theory & Techniques	TH	CORE	14	No	No	No	No	No	Digital Communication		50	100	3	A
6 Sem.	ECP396	Antennas and Radiating Systems lab	PR	CORE	15	No	No	No	No	No	Digital Communication		50	25	1	A
6 Sem.	ECL392	RF & Microwave Engineering	TH	CORE	16	No	No	No	No	No		Electronics & Communication Engineering (For Circuit Branches)	50	100	3	A



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6 Sem.	ECP392	Microwave Lab	PR	CORE	17	No	No	No	No	No		Electronics & Communication Engineering (For Circuit Branches)	50	25	1	A
6 Sem.	ECL394	Digital Signal Processing	TH	CORE	18	No	No	No	No	No		Electronics & Communication Engineering (For Non-Circuit Branches)	50	100	3	A
6 Sem.	ECP394	Digital Signal Processing Lab	PR	CORE	19	No	No	No	No	No		Electronics & Communication Engineering (For Non-Circuit Branches)	50	25	1	A

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7 Sem.	ECL401	VLSI Design	TH	CORE	1	No	Yes	No	No	No			50	100	4	A
7 Sem.	ECL402	Digital Image and Video Processing	TH	CORE	2	No	Yes	No	No	No			50	100	3	A
7 Sem.	ECL471	Mobile Communication and Network	TH	ELECTIVE	3	No	No	Yes	No	No			50	100	4	A
7 Sem.	ECL472	Mixed Signal Design	TH	ELECTIVE	3	No	No	Yes	No	No			50	100	4	A
7 Sem.	ECL473	Error Correcting Codes	TH	ELECTIVE	3	No	No	Yes	No	No			50	100	4	A
7 Sem.	ECL474	Wireless Sensor Network	TH	ELECTIVE	4	No	No	Yes	No	No			50	100	4	A
7 Sem.	ECL475	Wavelets	TH	ELECTIVE	4	No	No	Yes	No	No			50	100	4	A
7 Sem.	ECL476	Embedded System	TH	ELECTIVE	5	No	No	No	No	Yes			50	100	4	A
7 Sem.	ECL477	Digital System Design with FPGA	TH	ELECTIVE	5	No	No	No	No	Yes			50	100	4	A

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7 Sem.	ECL478	Micro-Nano System	TH	ELECTIVE	5	No	No	No	No	Yes			50	100	4	A
7 Sem.	ECP401	VLSI Design Lab	PR	CORE	6	No	Yes	No	No	No			50	25	1	A
7 Sem.	ECD411	Project Part-1	PR	CORE	7	No	Yes	No	No	No			50	25	4	A
7 Sem.	ECT302	Industrial training (60 days)	PR	CORE	8	No	No	No	No	No			50	25	3	A
7 Sem.	SAA100	SODECA (Anandam)	PR	CORE	9	No	No	No	No	No			100	0	0.5	A
7 Sem.	ECL494	VLSI Physical Design	TH	CORE	10	No	No	No	No	No	Digital Communication		50	100	3	A

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7 Sem.	ECP494	VLSI Physical Design Lab	PR	CORE	11	No	No	No	No	No	Digital Communication		50	25	1	A
7 Sem.	ECL491	VLSI Design	TH	CORE	12	No	No	No	No	No		Electronics & Communication Engineering (For Circuit Branches)	50	100	3	A
7 Sem.	ECP491	VLSI Design Lab	PR	CORE	13	No	No	No	No	No		Electronics & Communication Engineering (For Circuit Branches)	50	25	1	A

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7 Sem.	ECL491	VLSI Design	TH	CORE	14	No	No	No	No	No		Electronics & Communication Engineering (For Non-Circuit Branches)	50	100	3	A
7 Sem.	ECP491	VLSI Design Lab	PR	CORE	15	No	No	No	No	No		Electronics & Communication Engineering (For Non-Circuit Branches)	50	25	1	A
7 Sem.	ECD413	Minor project	PR	CORE	16	No	No	No	No	No	Digital Communication		50	25	4	A

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7 Sem.	ECD414	Minor project	PR	CORE	17	No	No	No	No	No		Electronics & Communication Engineering (For Circuit Branches)	50	25	4	A
7 Sem.	ECD415	Minor project	PR	CORE	18	No	No	No	No	No		Electronics & Communication Engineering (For Non-Circuit Branches)	50	25	4	A
7 Sem.																
8 Sem.	HUL204	Innovation & Entrepreneurship	TH	CORE	1	Yes	No	No	No	No			50	100	3	A
8 Sem.	ECL481	Speech and audio processing	TH	ELECTIVE	2	No	No	Yes	No	No			50	100	3	A
8 Sem.	ECL482	Adaptive Signal Processing	TH	ELECTIVE	2	No	No	Yes	No	No			50	100	3	A

SCHEME : ELECTRONICS & COMMUNICATION ENGINEERING (I to VIII SEM) APPLICABLE FOR STUDENTS ADMITTED IN 2020-21 AND ONWARDS																
Year/Sem	Course Code	Subject Name	Type	CORE/ELECTIVE	Group	IC	DC	DE	Non-Graded	OC	Dep.Spec.	Minor.Spec.	Max Marks Internal	Max Marks External	Credit /Unit	Programme-Option
8 Sem.	ECD412	Project Part-2	PR	CORE	3	No	Yes	No	No	No			50	25	6	A
8 Sem.	SAA100	SODECA (Anandam)	PR	CORE	4	No	No	No	No	No			100	0	0.5	A
8 Sem.	HUL204	EQUIVALENT MOOC OF Innovation & Entrepreneurship	TH	CORE	5	Yes	No	No	No	No			50	100	3	B
8 Sem.	SAA100	SODECA(Anandam)	PR	CORE	6	No	No	No	No	No			100	0	0.5	B
8 Sem.	ECD413	INTERNSHIP	PR	CORE	7	No	Yes	No	No	No			50	25	10	B