Program Structure for B.Tech.(ECE)-Batch2025

Semester I

Course Type	Course Code	Course Title	L	T	P/S	Credits
BSC1	MTLBS101	Engineering Mathematics-I	3	1	0	4
BSC2	BTLBS101	Applied Chemistry	3	0	0	3
BSC2	BTPBS101	Applied Chemistry Lab	0	0	2	1
ESC1	CSLES101	Introduction to C Programming	3	0	0	3
ESC1	CSPES101	C Programming Lab	0	0	2	1
ESC2	EELES101	Fundamental of Electrical Engineering	3	0	0	3
ESC2	EEPES101	Fundamental of Electrical Engineering Lab	0	0	2	1
SEC1	MEMSE101	Engineering Workshop	1	0	2	2
AEC1/VAC 1		Ability Enhancement/Value Added Course				2
		Total Credits				**20**

Semester II

Course Type	Course Code	Course Title	L	T	P/S	Credits
BSC3	MTLBS102	Engineering Mathematics-II	3	1	0	4
BSC4	PHLBS102	Engineering Physics	3	0	0	3
BSC4	PHP BS102	Engineering Physics Lab	0	0	2	1
DCC1	ECLDC106	Solid State Devices	3	0	0	3
DCC1	ECPDC106	Solid State Devices Lab	0	0	2	1
DCC2	ECLDC104	Network Analysis & Synthesis	3	1	0	4
SEC2	MEMSE102	Engineering Graphics with CAD	1	0	2	2
AEC2		Ability Enhancement Course				2
VAC2		Value Added Course				2
MAC1	PCN MA102	Universal Human Values-II	2	0	0	0
		Total Credits				**22**

Semester III

Course Type	Course Code	Course Title	L	T	P/S	Credits
BSC5	BTLBS201	Introduction to Biology for Engineers	3	0	0	3
ESC3	ECLES201	Numerical Methods	3	0	0	3
ESC3	ECPES201	Numerical Methods Lab	0	0	2	1
DCC3	ECLDC203	Digital Electronics	3	0	0	3
DCC3	ECPDC203	Digital Electronics Lab.	0	0	2	1
DCC4	ECLDC205	Electronics Devices and Circuits	3	0	0	3
DCC4	ECPDC205	Electronic Device and Circuits Lab	0	0	2	1
DCC5	ECLDC210	Signals & Systems	3	1	0	4
SEC3	ECMSE201	MATLAB Programming	1	0	2	2
PR	ECIPR201	Summer Internship-I				1
VAC3		Value Added Course				2
		Total Credits				**24**

Semester IV

Course Type	Course Code	Course Title	L	T	P/S	Credits
DCC6	ECLDC202	Linear Integrated Circuits Applications	3	0	0	3
DCC6	ECPDC202	Linear Integrated Circuits Applications Lab	0	0	2	1
DCC7	ECLDC204	Analog Communication	3	0	0	3
DCC7	ECPDC204	Analog Communication Lab	0	0	2	1
DCC8	ECLDC206	Microprocessor and Interfacing	3	0	0	3
DCC8	ECPDC206	Microprocessor and Interfacing lab	0	0	2	1
DCC9	ECLDC208	Control Systems	3	0	0	3
DCC9	ECPDC208	Control Systems Lab	0	0	2	1
DCC10	ECLDC207	Electromagnetic Field Theory	3	1	0	4
VAC4	BTLVA202	Environmental Science& Education	2	0	0	2
		Total Credits				**22**

Semester V

Course Type	Course Code	Course Title	L	T	P/S	Credits
DCC11	ECLDC301	Digital Communication Engineering	3	0	0	3
DCC11	ECPDC301	Digital Communication Lab	0	0	2	1
DCC12	ECLDC303	Digital Signal Processing	3	0	0	3
DCC12	ECPDC303	Digital Signal Processing Lab	0	0	2	1
DCC13	ECLDC305	VLSI Design	3	0	0	3
DCC13	ECPDC305	VLSI Lab	0	0	2	1
DEC1		School Elective–I	3	1/0	0/2	4
DEC2/GEC1		School Elective–II/Generic Elective-I	3	1/0	0/2	4
PR	ECIPR301	Summer Internship-II				1
DCC	ECDPR301	ProjectWork-1				2
		Total Credits				23

Semester VI

Course Type	Course Code	Course Title	L	T	P/S	Credits
DCC14	ECLDC302	Microwave Engineering	3	0	0	3
DCC14	ECPDC302	Microwave Engineering Lab	0	0	2	1
DCC15	ECLDC304	AI&ML in Electronics Engineering	3	0	0	3
DCC15	ECPDC304	AI&ML Lab	0	0	2	1
DEC3	ECXDEXXX	School Elective-III	3	1/0	0/2	4
DEC4/ GEC2	ECXDEXXX/ ECX GEXXX	School Elective–IV/Generic Elective-II	3	1/0	0/2	4
AEC		Management/ Entrepreneurship/Economy	3	0	0	3
DCC	ECDPR302	Project Work–II				2
MAC2	PCN MA302	Indian Knowledge System	2	0	0	NC
		Total Credits				**21**

Semester VII

Course Type	Course Code	Course Title	L	T	P/S	Credits
DCC16	ECLDC401	Mobile Communication	3	1	0	4
DEC5	ECXDEXXX	School Elective–V	3	1/0	0/2	4
DEC6/ GEC3	ECXDEXXX/ ECX GEXXX	School Elective–VI/Generic Elective–III	3	1/0	0/2	4
PR	ECIPR401	Summer Internship– III				2
DCC/PR	ECDPR401	Project Work –III				4
		Total Credits				**18**

Semester VIII

Course Type	Course Code	Course Title	L	T	P/S	Credits
DCC/PR	ECDPR402/ ECIPR402	Major Project/Internship(Industrial or In-house Project)				10
		Total Credits				10

Major Specialization to be offered by SoECE

Basket1: VLSI Design

Basket2: Microwave and Millimeter Wave Technology

Basket 3: Multimedia Technology

Basket 4: Embedded Systems & Networks

Minor Specialization

Basket1: VLSI Design (Only for EE, M.Sc. Physics, B.Sc. Physics 4 Year UG)

Basket2: Minor Specialization:-Multimedia Technologies (for Sciences/Maths/MBA/ Econ/BBA students)

Basket3: Embedded Systems &Networks

Basket4: Microwave and Millimeter Wave Technology