

# Curriculum

## Electronics & Communication Engineering

Semester	Subjects	Credits
1	Mathematics I	3
	Applied Chemistry	4
	Basic Electronics	3
	Introduction to C programming	4
	Drawing	3
	Innovative and Design thinking	1
	Chemistry Lab	1
	C Programming Lab	1
	CAED Lab	1
2	Mathematics II	3
	Applied Physics (Integrated)	4
	Elements of Electrical Engineering	4
	Introduction to a Python Programming	3
	Introduction to Embedded Systems	3
	Communicative English	1
	Sanskrutika Kannada / Balake Kannada	1
3	Transforms, Complex Variables and Special Functions	3
	Analog Electronic Circuits	4
	Design and Analysis of Digital Circuits-	4
	Network Analysis	3
	OOP using C++	3
	Sensors and Instrumentation	3
	Digital Systems Design Lab	1
4	Advanced Linear Algebra and Probability	3
	Principles of Communication Systems	4
	Control Systems	4
	Signal and Systems	3
	Data Structure using C++	3
	Verilog HDL , HDL Lab	4
5	Engineering Economics and Management	3
	Digital Communication Systems	4
	Digital Signal Processing	4
	Digital Signal Processing Lab	1
	Professional Elective I	3
	Mini Project	2
	Research Methodology and IPR	3
	Environmental Studies	0
	National Service Scheme	0
	Physical Education (PE) (Sports and Athletics)	0
	Yoga	0
6	Embedded System	4
	CMOS VLSI Design	4
	Professional Elective II	3
	Open Elective Course - I / Major Project Phase I	3
	CMOS VLSI Design lab	1
	Skill Development Course	1
	National Service Scheme	1
	Physical Education (PE) (Sports and Athletics)	1
	Yoga	0
	Indian Knowledge System , Universal Human Values	0
7	Computer Communication Networks	4
	Antenna and Wave Propagation	4
	Cryptography	4
	Program Elective- 3	3
	Open Elective- II	3
	Major Project Phase-II	6
8	Professional Elective -IV (Online Courses)	3
	Open Elective - III (Online Courses)	3
	Internship (Industry/Research) (14 - 20 weeks)	10

Electives	
Professional Electives	Open Electives
Programming in Java	Communication Engg. Systems
Operating Systems	Micro electro Mechanical Systems
Engineering Electromagnetic	Electronics Circuits with Verilog
Satellite Communication	Introduction to DIP
Digital Image Processing	Wireless and mobile Network
Machine learning With Python	Automotive Electronics
ITC	Smart Sensors and instrumentation
Micro Wave and Radar	Multimedia Communication
Advanced VLSI	BOS Recommended Course
High Performance Computer Network	
Optical Fiber communication	
Biomedical signal Processing	
BOS Recommended Course	