

B.Tech. in Very Large Scale Integration (VLSI)

Program Electives Subjects:

Sl. No.	Name of Subject
1.	Electromagnetic Theory
2.	Network Analysis and Synthesis
3.	OOPs with C++
4.	Internet of Things
5.	Computer Organization and Architecture
6.	Computer Networks
7.	Electronic Instruments and Measurements
8.	Data Structure
9.	Advanced Electronic Devices
10.	FPGA Architecture
11.	Digital Signal Processing
12.	VLSI Physical Design
13.	JAVA
14.	Database Management System
15.	Advanced Semiconductor Devices and Flexible Electronics
16.	Linear and Digital Control Systems
17.	Information Theory and Coding
18.	MEMS and NEMS
19.	Advance VLSI and SoC Design
20.	Semiconductor Device Modelling
21.	Machine Learning

Open Elective Subjects/ Minor:

Sl. No.	Name of Subject
1.	Introduction to Complex Variables
2.	Computer Organization and Architecture
3.	Python Programming
4.	Mathematics for Communication Engineering
5.	Signal Processing for Communication
6.	Semiconductor Devices and Circuits
7.	Sensors and Actuators
8.	Advanced Antenna Design
9.	Optimization Technique
10.	Solid State Devices
11.	IOT Gateways and Edge Computing
12.	Advanced Digital Communication
13.	Pattern Recognition
14.	Nano Electronic Devices and Materials
15.	Communication Pathways between Cloud and IoT
16.	Modern Wireless Communication System
17.	Time Frequency Analysis
18.	Adv. VLSI Design and Applications
19.	Artificial Intelligence and Machine Learning
20.	Coding for MIMO Communication

21.	Advance Digital Signal Processing
22.	ASIC Design
23.	Data Centre and Cloud Computing
24.	5G Mobile Communication