

(Applicable from the batch admitted during 2020-21 academic year and onwards)

I Year I Semester

I Year II Semester

S. No.	Course Code	Course	Hours/Week				
			L	T	P/D	J	C
1	BS	Mathematics II	3	1	-	-	4
2	ES	IT Workshop I	-	-	4	-	2
3	ES	Problem Solving with Programming	2	-	2	-	3
4	ES	Smart System Design	3	-	-	-	3
5	HS	English Language Lab	-	-	2	-	1
6	ES	Graphics & Design Modelling	-	-	6	-	3
7	BS	Applied Physics	3	-	2	-	4
Total							20

S. No.	Course Code	Course	Hours/Week				
			L	T	P/D	J	C
1	HS	Business Communication	2	-	-	-	2
2	BS	Random process and statistics	3	-	-	-	3
3	PC	Analog Circuit Analysis	4	-	-	-	4
4	PC	Signals and Systems	3	-	-	-	3
5	PC	Network Analysis	3	-	-	-	3
6	PC	Analog Circuit Analysis Lab	-	-	2	-	1
7	PC	Basic Signals and Circuits Simulation Lab	-	-	2	-	1
8	PC	PCB Layout Lab			2	-	1
9	BS	Environmental Studies Lab	-	-	-	-	1
Total							19

S. No.	Course Code	Course	Hours/Week				
			L	T	P/D	J	C
1	BS	Advanced Engineering Mathematics	3	-	-	-	3
2	ES	Data Structures	3	-	-	-	3
3	OE	Open Elective I	3	-	-	-	3
4	PC	Introduction to IoT	-	-	-	3	3
5	PC	Digital Electronics	3	-	-	-	3
6	PC	Electromagnetic Waves and Transmission Lines	3	-	-	-	3
7	ES	Data Structures Lab	-	-	2	-	1
8	PC	Linear and Digital Circuits Lab	-	-	2	-	1
9	AC	Gender Sensitization	-	-	-	-	-
Total							20

S. No.	Course Code	Course	Hours/Week				
			L	T	P/D	J	C
1	HS	General Aptitude	-	-	2	-	1
2	OE	Open Elective II	3	-	-	-	3
3	PE	Professional Elective I	3	-	-	-	3
4	PC	Analog and Digital Communications	4	-	-	-	4
5	PC	Programming for IoT	-	-	-	4	4
6	PC	Microcontrollers for embedded systems	3	-	-	-	3
7	PC	Analog and Digital Communication Lab	-	-	2	-	1
8	PC	Microcontrollers for embedded systems Lab	-	-	2	-	1
Total							20

S. No.	Course Code	Course	Hours/Week				
			L	T	P/D	J	C
1	HS	Employability Skills	-	-	2	-	1
2	HS	Finance for Engineers	3	-	-	-	3
3	HS	Technical Writing	2	-	-	-	2
4	OE	Open Elective III	3	-	-	-	3
5	HS	Professional Elective II	3	-	-	-	3
6	PC	Distributed IoT	3	-	-	-	3
7	PC	Distributed IoT Lab	-	-	2	-	1
8	PROJ	Mini Project/Internship/Certification	-	-	-	-	2
Total							18

IV Year I Semester

S. No.	Course Code	Course	Hours/Week				
			L	T	P/D	J	C
1	PE	Professional Elective III	3	-	-	-	3
2	PE	Professional Elective IV	3	-	-	-	3
3	PC	VLSI Design and Technology	3		-	-	3
4	PC	Data Communications and Networks	3	-	-	-	3
5	PC	Embedded Linux	-	-	-	3	3
6	PC	VLSI Design and Technology Lab	-	-	2	-	1
7	PC	Computer networks Lab	-	-	2	-	1
8	PROJ	Capstone Phase I	-	-	-	-	3
Total							20

IV Year II Semester

S. No.	Course Code	Course	Hours/Week				
			L	T	P/D	J	C
1	OE	Open Elective IV	3	-	-	-	3
2	PE	Professional Elective V	3	-	-	-	3
3	PE	Professional Elective VI	3	-	-	-	3
4	PROJ	Capstone Phase II/Practice School	-	-	-	-	8
Total							17

LIST OF PROFESSIONAL ELECTIVES

S.No.	Title of the Elective
1.	Control Systems
2.	Artificial Neural Networks
3.	Computer organisation
4.	Antenna and Wave Propagation
5.	Cloud Computing
6.	Edge Computing
7.	Fog Computing
8.	IoT wireless & cloud computing emerging technologies
9.	Security in IoT
10.	Cloud security
11.	Network Security
12.	Applications of IoT and Multimedia Technology
13.	CAO
14.	Fuzzy Logic for Machine learning
15.	Digital Design through HDL
16.	RISC Processor Design Using HDL
17.	Advanced Wireless Technologies
18.	Applied Machine learning in Python
19.	Digital Signal Processors and Architectures
20.	Electronic Measurement and Instrumentation
21.	Wireless Sensor Networks
22.	Information Theory and Coding
23.	Graphics and Mobile Gaming
24.	Biomedical Instrumentation