

R20 -AICTE Model Curriculum

M.E (Communication Engineering) Program

Program Elective Courses

S.No.	Subject Code	Subject Name
1	20EC E101	Data and Optical Networks
2	20EC E102	DSP Architecture
3	20EC E103	Global Navigation Satellite Systems
4	20EC E104	High Performance Networks
5	20EC E105	Information Theory and Coding Techniqu
6	20EC E106	Internet of Things
7	20EC E107	Microwave and Satellite Communication
8	20EC E108	MIMO Wireless Communications
9	20EC E207	Network Security and Cryptography
10	20EC E109	Pattern Recognition and Machine Learning
11	20EC E110	Remote Sensing
12	20EC E111	Signal Intelligence Systems
13	20EC E112	Software Defined and Cognitive Radio
14	20EC E113	Statistical Decision and Estimation Theory
15	20EC E114	Wireless Sensor Networks

Open Electives Courses

S.No.	Subject Code	Subject Name
1	20CS O101	Business Analytics
2	20ME O103	Composite Materials
3	20CE O101	Cost Management of Engineering Projects
4	20ME O101	Industrial Safety
5	20ME O102	Introduction to Optimization Techniques
6	20EE O101	Waste to Energy

M.E (Embedded Systems and VLSI Design) Program

S.No.	Subject Code	Subject Name
1	20EC E201	Advanced Computer Organization
2	20EC E202	Communication Buses and Interfaces
3	20EC E203	Data Acquisition System Design
4	20EC E204	FPGA & CPLD Architectures
5	20EC E205	Low Power VLSI Design
6	20EC E206	Nano-materials and Nanotechnology
7	20EC E207	Network Security and Cryptography
8	20EC E109	Pattern Recognition and Machine Learning
9	20EC E208	Programming Languages for Embedded Software
10	20EC E209	RF IC Design
11	20EC E210	SoC Design
12	20EC E211	System Design with Embedded Linux
13	20EC E212	VLSI Signal Processing
14	20EC E213	VLSI Technology and Physical Design Automation
15	20ECE114	Wireless Sensor Networks

Open Elective Courses

S.No.	Subject Code	Subject Name
1	20CS O101	Business Analytics
2	20ME O103	Composite Materials
3	20CE O101	Cost Management of Engineering Projects
4	20ME O101	Industrial Safety
5	20ME O102	Introduction to Optimization Techniques
6	20EE O101	Waste to Energy.

R23 -AICTE Model Curriculum**M.E (Communication Engineering) Program****Program Elective-I Courses**

S.No.	Subject Code	Subject Name
1	23ECE101	Data and Optical Networks
2	23ECE102	GNSS and Augmentation Systems
3	23ECE103	Radiating Systems for RF Communication

Program Elective-II Courses

4	23ECE104	High Performance Networks
5	23ECE105	MIMO Wireless Communications
6	23ECE106	Statistical Decision and Estimation Theory

Program Elective-III Courses

7	23ECE107	Information Theory and Coding Techniques
8	23ECE108	Markov Chain and Queuing Systems
9	23ECE109	Network Security and Cryptography

Program Elective-IV Courses

10	23ECE110	Machine Learning for Next Generation Communication Systems
11	23ECE111	Signal Intelligence Systems
12	23ECE112	Wireless Sensor Networks and Protocols

Program Elective-V Courses

13	23ECE113	Cognitive Radio
14	23ECE114	Deep Learning Techniques for Signal Processing
15	23ECE115	Programmable Networks – SDN, NFV

Open Electives Courses

S.No.	Subject Code	Subject Name
1	23CSO101	Business Analytics
2	23MEO103	Composite Materials
3	23CEO101	Cost Management of Engineering Projects
4	23MEO101	Industrial Safety
5	23MEO102	Introduction To Optimization Techniques
6	23EEO101	Waste to Energy

M.E (Embedded Systems and VLSI Design) Program**Program Elective-I Courses**

S.No.	Subject Code	Subject Name
1	23ECE201	Low Power VLSI
2	23ECE202	MEMS and Applications
3	23ECE203	Programming Languages for Embedded Software

Program Elective-II Courses

4	23ECE204	Advanced Computer Organization
5	23ECE205	Algorithms for VLSI Design
6	23ECE206	System Design with Embedded Linux

Program Elective-III Courses

7	23ECE207	Industrial Internet of Things
8	23ECE208	Semiconductor Device Modeling
9	23ECE209	VLSI Signal Processing

Program Elective-IV Courses

10	23ECE210	Memory Technologies
11	23ECE211	Physical Design Automation
12	23ECE212	SoC Design

Program Elective-V Courses

13	23ECE213	Nanomaterials and Nanotechnology
14	23ECE214	Reconfigurable Computing Systems
15	23ECE215	Unix & Scripting Languages

Open Elective Courses

S.No.	Subject Code	Subject Name
1	23CSO101	Business Analytics
2	23MEO103	Composite Materials
3	23CEO101	Cost Management of Engineering Projects
4	23MEO101	Industrial Safety
5	23MEO102	Introduction to Optimization Techniques
6	23EEO101	Waste to Energy.