

Course Structure for Batch admitted in 2020-21
B. Tech. Integrated (Mechanical)

First Year (Common for All Branches)					
Semester - I			Semester - II		
Sr. No.	Name of the Subject		Sr. No.	Name of the Subject	
1	Mathematics-I		1	Mathematics-II	
2	Fundamentals of Physics		2	Applied Physics	
3	Chemistry		3	Engineering Drawing-II	
4	Engineering Drawing-I		4	Elements of Electrical Engineering	
5	Communication Skills		5	Programming for Problem Solving	
6	Workshop-I		6	Workshop-II	
B. Tech. Integrated (Mechanical) - Second Year					
Semester - III			Semester - IV		
Sr. No.	Name of the Subject		Sr. No.	Name of the Subject	
1	Engineering Mathematics-I		1	Engineering Mathematics-II	
2	Manufacturing Processes-I		2	Machine Drawing and Computer Graphics	
3	Engineering Thermodynamics		3	Strength of Materials	
4	Engineering Mechanics		4	Manufacturing Processes-II	
5	Constitution of India (Humanities-I)		5	Environmental Studies (Humanities -II)	
6	Machine Shop-I		6	Machine Shop-II	
B. Tech. Integrated (Mechanical) - Third Year					
Semester -V			Semester - VI		
Sr. No.	Name of the Subject		Sr. No.	Name of the Subject	
1	Engineering Mathematics-III		1	Statistics and Numerical Methods	
2	Kinematics of Machinery		2	Dynamics of Machinery	
3	Materials Engineering		3	Design of Machine Elements-I	
4	Fluid Mechanics		4	Mechanical Measurements and Metrology	
5	Industrial Electronics		5	Fluid Machinery	
6	Principles of Economics and Management		6	Thermal Engineering	
			7	Professional Ethics and Legal Aspects (Humanities-III)	
Semester - VIII and XI			Semester - VII, IX and XII		
	Implant Training		•	Artificial Intelligence and Automation :Machine Learning, Robotics & Automation, Automation System Design, Nanotechnology in Automation, IOT-Internet of Things, Industry 4.0, Sensors & Transducers, Microprocessors & Microcontroller	
			•	Design & Manufacturing : Product Design & Development, Additive Manufacturing (3D-Printing), Mechanical Systems Design, Micro & Nano Manufacturing, Electrical & Hybrid Automotive Technologies, Industry 4.0, Design HVAC (Heating, Ventiletting, Air Conditioning) Systems	

Course Structure for Batch admitted in 2020-21
B. Tech. Integrated (Computer)

First Year (Common for All Branches)					
Semester - I			Semester - II		
Sr. No.	Name of the Subject		Sr. No.	Name of the Subject	
1	Mathematics-I		1	Mathematics-II	
2	Fundamentals of Physics		2	Applied Physics	
3	Chemistry		3	Engineering Drawing-II	
4	Engineering Drawing-I		4	Elements of Electrical Engineering	
5	Communication Skills		5	Programming for Problem Solving	
6	Workshop-I		6	Workshop-II	
B. Tech. Integrated (Computer) - Second Year					
Semester - III			Semester - IV		
Sr. No.	Name of the Subject		Sr. No.	Name of the Subject	
1	Engineering Mathematics - I		1	Engineering Mathematics - II	
2	Basic Electronics		2	Digital Logic Design	
3	Basic Data Structures		3	Advanced Data Structures	
4	Object Oriented Programming		4	Computer Organization and Architecture	
5	Fundamentals of Website Designing		5	Programming Laboratory - I	
6	Environmental Studies		6	Professional Ethics	
7	Constitution of India				
B. Tech. Integrated (Computer) - Third Year					
Semester - V			Semester - VI		
Sr. No.	Name of the Subject		Sr. No.	Name of the Subject	
1	Engineering Mathematics - III		1	Engineering Mathematics - IV	
2	Discrete Mathematics		2	Design and Analysis of Algorithms	
3	Principles of Operating System		3	Database Management Systems	
4	Fundamentals of Computer Networks		4	Microprocessor	
5	Computer Organization and Architecture		5	Digital Logic Design	
6	Fundamentals of Website Designing		6	Web Technologies	
7	Implementation of Technology		7	Professional Ethics	
8	Programming Laboratory		8	Organizational Behavior	
Semester - VIII and XI			Semester - VII, IX and XII		
	Implant Training		•	Artificial Intelligence : Introduction to AI, Machine Learning, Types of machine learning, Python basics, Python advanced, Linear regression, Hypothesis Testing, Supervised Algorithm, Unsupervised learning, Principal component Analysis, Reinforcement Learning, Neural Networking, Deep Learning	
			•	System Security : Computer Network, Network Ethics, Information Security, Cyber Security, Network Security & database vulnerabilities	

Course Structure for Batch admitted in 2020-21
B. Tech. Integrated (Electronics & Telecommunication)

First Year (Common for All Branches)					
Semester - I				Semester - II	
Sr. No.	Name of the Subject			Sr. No.	Name of the Subject
1	Mathematics-I			1	Mathematics-II
2	Fundamentals of Physics			2	Applied Physics
3	Chemistry			3	Engineering Drawing-II
4	Engineering Drawing-I			4	Elements of Electrical Engineering
5	Communication Skills			5	Programming for Problem Solving
6	Workshop-I			6	Workshop-II
B. Tech. Integrated (Electronics & Telecommunication) - Second Year					
Semester - III				Semester - IV	
Sr. No.	Name of the Subject			Sr. No.	Name of the Subject
1	Computer Programming-II			1	Object Oriented Programming
2	Electrical Technology			2	Electronic Circuit Analysis and Design
3	Electronic Materials and Components			3	Environmental Studies
4	Basic Electronics			4	Engineering Mathematics-II
5	Engineering Mathematics-I			5	Engineering Physics
6	Constitution of India			6	Numerical Techniques
B. Tech. Integrated (Electronics & Telecommunication) - Third Year					
Semester - V				Semester - VI	
Sr. No.	Name of the Subject			Sr. No.	Name of the Subject
1	Electronic Circuit Analysis and Design			1	Discrete Mathematics
2	Analog Integrated Circuits and Applications			2	Microprocessor and Microcontroller
3	Digital System Design			3	Database Management Systems
4	Signals and Systems			4	Control System Engineering
5	Circuit and Network Theory			5	Analog and Digital Communication
6	Electromagnetic Field Theory			6	Object Oriented Programming
Semester - VIII and XI				Semester - VII, IX and XII	
	Implant Training		•	Internet of Things : IOT System Architecture, IOT and Cloud Computing, Mobile App Development for IOT, IOT and Augmented Reality Emerging Technologies, Embedded systems, Robotics and IOT, etc	
			•	Network Security : Operating System and Security, Computer Network and Internet Architecture, Mobile Computing Security, Advanced Data Science for Security Analytics, etc.	