## 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 (	Mec	chanical) - 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 (	Me	chanical)	- 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				
G				(Humanities-III)				
	Semester - VIII and XI			Semester - VII, IX, X and XII **				
	Inplant 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	Fundametals 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 Behaviour				
	Semester - VIII and XI		Semester - VII, IX, X and XII **					
	Inplant 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,					
1		1		k 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 (Electronic	s & '	Telecomi	nunication) - 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, X and XII **					
	Inplant 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.					