



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

(Autonomous)

Kokapet (Village), Gandipet, Hyderabad, Telangana – 500075

www.cbit.ac.in

EXTENDED PROFILE

3.1 Number of courses in all programs year-wise during last five years

HEI Input:

2021-22	2020-21	2019-20	2018-19	2017-18
1296	1296	1091	1053	1127

NUMBER OF COURSES IN ALL PROGRAMS YEAR-WISE FOR THE ACADEMIC YEAR: 2020-21

INDEX

S. No.	Particulars	Page Numbers
1.	Number of Courses in all Programs Year-Wise for the Academic Year: 2020-21	2-25

List of courses offered across all programs during 2020-21

Program code	Program name	Course code	Course name	Year of offering the course
732	B.E- Civil Engineering	20MT C05	Calculus	2020-21
		20CY C01	Chemistry	
		20CE C01	Engineering Mechanics – I	
		20CS C01	Programming For Problem Solving	
		20CY C02	Chemistry Lab	
		20CS C02	Programming For Problem Solving Lab	
		20ME C02	Workshop / Manufacturing Practice	
		20ME C03	Engineering Exploration	
		20MT C06	Vector Calculus And Differential Equations	
		20 EG C01	English	
		20PY C05	Mechanics And Materials Science	
		20CE C02	Engineering Mechanics - Ii	
		20EEC01	Basic Electrical Engineering	
		20EG C02	English Lab	
		20PY C08	Mechanics And Materials Sciencelab	
		20EE C02	Basic Electrical Engineering Lab	
		20MBC02	Community Engagement	
		18CE 02	Building Construction Practice	
		18CE 03	Solid Mechanics	
		18CE 04	Surveying and Geomatics	
		18CE 05	Fluid Mechanics	
		18EG M01	Indian Constitution	
		18EE A01	Indian Traditional Knowledge	
		18CE 06	Surveying and Geomatics Lab	
		18CE 07	Fluid Mechanics Lab	
		18CS C05	Basic Data Structures	
		18CE C08	Hydraulic Engineering	
		18CE C09	Reinforced Concrete Design-I	
		18CE C10	Structural Analysis-I	
		18MEC09	Principles of Management	
		18CE M01	Environmental Science	
		18CS C06	Basics of Data Structures Lab	
		18CE C11	Solid Mechanics Lab	
		18CE C12	Hydraulic Engineering Lab	
		18EG C03	Soft Skills Lab	
		18CE C13	Transportation Engineering	
		18CE C14	Geotechnical Engineering	
		18CE C15	Structural Analysis-II	
		18MB C01	Engineering Economics and Accountancy	
		18CE C16	Transportation Engineering Lab	
		18CE C17	Geotechnical Engineering Lab	
		18CE C18	Auto CAD Lab	
		18CE E01	Prestressed Concrete	
		18CE E02	Green Building Technologies	
		18CE E03	Principles of Geographical Information Systems	
18CE E04	Masonry Structures			
18CE E05	Solid and Hazardous Waste Management			
18CE E06	Mechanics of Materials			
18CE E07	Repair and Rehabilitation of Structures			
18CE E08	Concrete Technology			
18CE C 19	Design of Steel Structures-I			
18CE C20	Environmental Engineering			
18CE C21	Engineering Geology			
18CE C22	Environmental Engineering Lab			
18CE C23	Engineering Geology lab			



Program code	Program name	Course code	Course name	Year of offering the course
	B.E- Civil Engineering	18CE E09	Advanced Structural Analysis	
		18CE E10	Foundation Engineering	
		18CE E11	Water Shed Management	
		18CE E12	Urban Transportation Planning	
		18CE E13	Finite Element Methods	
		18CE E14	Reinforced Concrete Design-II	
		18CE E15	Railway Engineering	
		18CE E16	Ground Water	
		18CS O06	Fundamentals of DBMS	
		18ME O04	Entrepreneurship	
		18EG O01	Technical Writing Skills	
		18EE O04	Energy Management Systems	
		16CE C34	Water Resources Engineering-II	
		16CE C35	Design of Steel structures-I	
		16CE C36	Estimation and Specifications	
		16CE C37	Computer Applications Lab	
		16CE C38	Project Seminar	
		16CE E07	Advanced Reinforced Concrete Design	
		16CE E08	Advanced Environmental Engineering	
		16CE E09	Ground Improvement Techniques	
		16CE E10	Elements of Earthquake Engineering	
		16CE E11	Advanced Transportation Engineering	
		16CE E12	Design and Detailing of Irrigation Structures	
		16CS O06	Fundamentals of DBMS	
		16ME O01	Entrepreneurship	
		16EG O01	Technical Writing Skills	
		16EE O02	Energy Management Systems	
		16CE C39	Seminar	
		16CE C40	Project	
		16CE E13	Design of Steel structures-II	
		16CE E14	Advanced steel Design	
		16CE E15	Industrial Structures	
		16ME O04	Intellectual Property Rights	
		16EG O02	Gender Sensitization	
		16CS O09	Basics of Artificial Intelligence	
	16EE O05	Waste Management		
	16CE E16	Health Monitoring and Retrofitting of Structures		
	16CE E17	Ground Water Hydrology		
	16CE E18	Pre-stressed Concrete		
		20MTC05	Calculus	
		20CYC01	Chemistry	
		20CEC01	Engineering Mechanics-I	
		20CSC01	Programming for Problem Solving	
		20CYC02	Chemistry Lab	
		20CSC02	Programming for Problem Solving Lab	
		20MEC02	Workshop / Manufacturing Practice	
		20MEC03	Engineering Exploration	
		20MTC06	Vector Calculus and Differential Equations	
		20EGC01	English	
		20PYC05	Mechanics and Materials Science	
		20EEC01	Basic Electrical Engineering	
		20EGC02	English lab	
		20PYC08	Mechanics and Materials Science Lab	
		20EEC02	Basic Electrical Engineering Lab	
		20MEC01	CAD and Drafting	
		20MBC02	Community Engagement	



Program code	Program name	Course code	Course name	Year of offering the course
736	B.E- Mechanical Engineering	18MTC05	Mathematics -III	2020-21
		18MB C01	ENGINEERING ECONOMICS AND ACCOUNTANCY	
		18ME C03	MATERIAL SCIENCE AND METALLURGY	
		18ME C04	MECHANICS OF MATERIALS	
		18PE C01	MANUFACTURING PROCESSES	
		18EG M01	INDIAN CONSTITUTION AND FUNDAMENTAL PRINCIPLES	
		18EE A01	INDIAN TRADITIONAL KNOWLEDGE	
		18ME C05	MATERIAL SCIENCE AND METALLURGY LAB	
		18ME C06	MECHANICS OF MATERIALS LAB	
		18PE C02	MANUFACTURING PROCESSES LAB	
		18CS C05	BASICS OF DATA STRUCTURES	
		18ME C07	KINEMATICS OF MACHINES	
		18ME C08	THERMO DYNAMICS	
		18ME C09	PRINCIPLES OF MANAGEMENT	
		18ME C10	FLUID PRINCIPLES AND HYDRAULIC MACHINES	
		18CE M01	ENVIRONMENTAL SCIENCE	
		18CS C08	BASICS OF DATA STRUCTURES LAB	
		18EG C03	SOFT SKILLS LAB	
		18ME C11	FLUID PRINCIPLES AND HYDRAULIC MACHINES LAB	
		18ME C12	Dynamics of Machines	
		18ME C13	Applied Thermodynamics and Heat Transfer	
		18ME C14	Design of Machine Elements	
		18PE C07	Metal Cutting and Machine Tool Engineering	
		18ME E01	Refrigeration and Air Conditioning I	
		18ME E02	Values, Ethics and Society	
		18PE E01	Plastics, Ceramics and Composite Materials	
		18PE E02	Product Design and Process Planning	
		18ME E03	Mechanical Vibrations	
		18ME E04	Automobile Engineering	
		18ME E05	Nano Science and Technology	
		18ME E06	Rights, Duties and Legislation	
		18PE E04	Non Destructive Testing and Evaluation	
		18ME E07	Fuels, Combustion and Environment	
		18ME C15	Dynamics and Vibrations Lab	
		18ME C16	Applied Thermodynamics and Heat Transfer Lab	
		18PE C08	Metal Cutting and Machine Tool Engineering Lab	
		18ME C17	CAD/CAM	
		18ME C18	Machine Design	
		18ME C19	Thermal Turbo Machines	
		18ME E08	Object Oriented Programming with C++	
18ME E09	Mechanics of Composite Materials			
18ME E10	Robotic Engineering			
18PE E06	Production and Operations Management			
18ME E11	Advanced IC Engines			
18ME E12	Computational Fluid Dynamics			
18ME E13	Principles of Entrepreneurship			
18PE E08	Modern Machining and Forming Methods			
18ME E14	Heat and Mass Transfer			
18ME E15	Blockchain Technology			



Program code	Program name	Course code	Course name	Year of offering the course			
	B.E- Mechanical Engineering	18ME E17	Renewable Energy Sources				
		18ME E18	Control Systems Theory				
		18ME E19	Artificial Intelligence				
		18ME E20	Industrial Administration and Financial Management				
		18PE E11	Principles and Applications of Additive Manufacturing				
		18ME C20	CAD/CAM LAB				
		18ME C21	Thermal Engineering Lab				
		16ME C33	Metrology and Instrumentation				
		16ME C34	Operations Research				
		16PE C10	Production Drawing				
		16PE C11	Production and Operations Management				
		16ME C35	Finite Element Analysis				
		16ME E10	Renewable Energy Sources				
		16ME E11	Energy Conservation, Management and Audit				
		16ME E12	Engineering Research Methodology				
		16ME E13	Environmental Pollution				
		16ME C36	Metrology and Instrumentation Lab				
		16ME C37	Computer Aided Engineering Lab				
		16ME C38	Project Seminar				
		16ME E15	Power Plant Engineering				
		16ME E16	Principles of Entrepreneurship				
		16ME E17	Innovations, Protection and Legal Aspects				
		16PE E11	Supply Chain Management				
		16ME E18	Nano Science and Technology				
		16CE O02	Disaster Mitigation and Management				
		16IT O02	Principles of Internet of Things				
		16EE O03	Energy Auditing				
		16EC O07	System Automation and Control				
		16CS O09	Basics of Artificial Intelligence				
		16IT O01	Object Oriented Programming using JAVA				
		16PY O01	History of Science and Technology				
		16EE O05	Waste Management				
		16EC O05	MEMS and its Applications				
		16CS O07	Basics of Cyber Security				
		16ME C39	Seminar				
		16ME C40	Project				
			- Electrical & Electronics Engineering		20MT C05	Calculus	
					20CY C01	Chemistry	
					20CE C01	Engineering Mechanics-I	
					20CS C01	Programming for Problem Solving	
20CY C02	Chemistry Lab						
20CS C02	Programming for Problem Solving Lab						
20ME C02	Workshop/ Manufacturing Practice						
20ME C03	Engineering Exploration						
20MT C06	Vector Calculus and Differential Equations						
20EG C01	English						
20PY C06	Electromagnetic Theory and Quantum Mechanics						
20EE C01	Basic Electrical Engineering						
20EG C02	English lab						
20PY C09	Electromagnetic Theory and Quantum Mechanics Lab						
20EE C02	Basic Electrical Engineering Lab						



Program code	Program name	Course code	Course name	Year of offering the course
734	B.E.	20ME C01	CAD and Drafting	2020-21
		20MB C02	Community Engagement	
		18MTC07	Applied mathematics	
		18EEEC03	Analog Electronic Circuits	
		18EEEC04	Electrical Measurements and Instrumentation	
		18EEEC05	Electromagnetic Fields	
		18EEEC06	Electrical Circuit Analysis	
		18EGM01	Indian constitution	
		18EEM01	Indian Traditional Knowledge	
		18EEEC07	Analog Electronic Circuits Lab	
		18EEEC08	Electrical Measurements and Instrumentation Lab	
		B.E. - Electrical & Electronics Engineering	18CSC05	
	18EEEC09		Digital Electronics	
	18EEEC10		Electrical Machines-1	
	18EEEC11		Power Systems-I	
	18ME C09		Principles of Management	
	18CEM01		Environmental Science	
	18CSC06		Basics of Data Structures lab	
	18EEEC12		Digital Electronics Lab	
	18EEEC13		Electrical Machines-1 Lab	
	18EGC03		Soft Skills Lab	
	18EEEC14		Electrical Machines-II	
	18EEEC15		Power Systems-II	
	18EEEC16		Power Electronics	
	18MBC01		Engineering Economics and Accountancy	
	18EEEE01		Wind and Solar Energy	
	18EEEE02		Optimization Techniques	
	18EEEE03		Electrical Engineering Materials	
	18EEEE05		Simulation Techniques in Electrical Engineering	
	18EEEE07		Industrial Electrical Systems	
	18EEEC17		Electrical Machines-II Lab	
	18EEEC18		Power Systems-I Lab	
	18EEEC19		Power Electronics Lab	
	18EEEC20		Control Systems	
	18EEEC21		Microprocessors and Microcontrollers	
	18EEEC22		Power Systems Operation and control	
	18EEEE09		Power Quality	
	18EEEE11		Electrical Distribution Systems	
	18EEEE12		HVDC Transmission Systems	
	18EEEE13		AI Techniques In Electrical Engineering	
18EEEE14	Electric Hybrid Vehicles			
18EEEE16	Special Electrical Machines			
18CSO 07	Basics of Cyber Security			
18 PYO 01	History of Science and Technology			
18EEEC23	Control Systems Lab			
18EEEC24	Microprocessors Lab			
16EE C31	Power System Operation and control			
16EE C32	Utilization of Electrical Energy			
16EE C33	DSP and Embedded Systems			
16EEEE16	Power Quality Engineering			
16EEEE17	Special Electrical Machines			
16CE O02	Disaster Mitigation and Management			
16CS O10	Machine Learning Using Phyton			



Program code	Program name	Course code	Course name	Year of offering the course
		16ME O01	Entrepreneurship	
		16EE C34	Power Systems Simulation Lab	
		16EE C35	Digital Signal Processor and Embedded Systems Lab`	
		16EE C36	Project Seminar	
		16EE E18	Electrical Machine Design	
		16EE E19	Flexible AC Transmission Systems	
		16EE E21	Smart Grid	
		16EE E23	Advanced Power System Protection	
		16EE E25	Electrical Estimation and Costing	
		16EG O01	Technical Writing Skills	
		16 ME O08	Industrial Administration and Financial Management	
		16CS O03	IOT and Applications	
		16EE C37	Seminar	
		16EE C38	Project	
		20MTC05	Calculus	
		20CYC01	Chemistry	
		20CEC01	Engineering Mechanics-I	
		20CSC01	Programming for Problem Solving	
		20CYC02	Chemistry Lab	
		20CSC02	Programming for Problem Solving Lab	
		20MEC02	Workshop/ Manufacturing Practice	
		20MEC03	Engineering Exploration	
		20MTC06	Vector Calculus and Differential Equations	
		20EGC01	English	
		20PYC06	Electromagnetic Theory and Quantum Mechanics	
		20EEC01	Basic Electrical Engineering	
		20EGC02	English lab	
		20PYC09	Electromagnetic Theory and Quantum Mechanics I	
		20EEC02	Basic Electrical Engineering Lab	
		20MEC01	CAD and Drafting	
		20MBC02	Community Engagement	
		18MT C07	Applied Mathematics	
		18CS C05	Basics of Data Structures	
		18EC C01	Electromagnetic Theory and Transmission Lines	
		18EC C02	Electronic Devices	
		18EC C03	Network Theory	
		18EC C04	Signals and Systems	
		18CE M01	Environmental Science	
		18CS C06	Basics of Data Structures Lab	
		18EC C05	Electronic Devices Lab	
		18EC C06	Electronic Workshop and Networks Lab	
		18EG C03	Soft Skills	
		18EC C07	Analog Circuits	
		18EC C08	Analog Communication	
		18EC C09	Antennas and Wave Propagation	
		18EC C10	Control Systems	
		18EC C11	Digital Systems Design	
		18EG M01	Indian Constitution and Fundamental Principles	
		18EE M01	Indian Traditional Knowledge	
		18EC C12	Analog Circuits Lab	
		18EC C13	Analog Communication Lab	
		18EC C14	Digital Systems Design Lab	
		18EC C15	Computer Architecture and Microprocessors	
		18EC C16	Digital Communication	



Program code	Program name	Course code	Course name	Year of offering the course
735	B. E.- Electronics & Communication Engineering	18EC C17	Linear and Digital Integrated Circuits	2020-21
		18ME C09	Principles of Management	
		18EC E01	Electronic Measurements and Instrumentation	
		18EC E02	Industrial Electronics	
		18EC E03	Optical Communication	
		18EC E04	Telecommunication Switching Systems	
		18BT O01	Basics of Biology	
		18CS O05	Fundamentals of Virtual Reality	
		18ME O07	Intellectual Property Rights	
		18IT O01	Object Oriented Programming Using Java	
		18MT O04	Quantum Computing	
		18EC C18	Digital Communication Lab	
		18EC C19	Linear and Digital Integrated Circuits Lab	
		18EC C20	Digital Signal Processing	
		18EC C21	Microcontrollers	
		18EC C22	Microwave and Radar Engineering	
		18EC E05	Analog and Mixed Signal Design	
		18EC E06	Mobile Cellular Communication	
		18EC E07	Principles and Applications of AI	
		18EC E08	Principles of Optimization Techniques	
		18EC E09	System Automation and Control Engineering	
		18EC E10	Coding Theory and Techniques	
		18EC E11	CPLD and FPGA Architectures	
		18EC E12	Data Analytics for signal processing	
		18EC E13	Satellite Communication	
		18EC E14	Spread Spectrum Communication	
		18MB C01	Engineering Economics and Accountancy	
		18EC C23	Digital Signal Processing Lab	
		18EC C24	Microcontrollers Lab	
		18EC C25	Microwave Engineering Lab	
		16EC C32	Data Communication and Computer Networks	
		16EC C33	Principles of GNSS	
		16EC C34	Radar and Satellite Communication	
		16EC C35	VLSI Design	
		16EC E08	Principles of Computational Electromagnetics	
		16EC E09	Real Time Operating Systems	
		16EC E10	Speech Processing	
		16EC E11	Spread Spectrum Communication	
		16EC E12	Applications of IoT in ECE	
		16EC E13	Digital Image Processing	
		16EC E14	Principles of Optimization Techniques	
		16EC E15	Principles of Wireless Sensor Networks	
		16EC C36	Advanced Simulation Lab	
16EC C37	Electronic Design and Automation Lab			
16EC C38	Project Seminar			
16EC E16	DSP Processors and Architectures			
16EC E17	Software Defined Radio			
16EC E18	VLSI Technology			
16EC E19	Voice over IP			
16CS 010	Machine Learning Using Python			
16ME O01	Entrepreneurship			
16EG O02	Gender Sensitization			
16PY O01	History of Science and Technology			
16ME O02	Robotics			
16CE O02	Disaster Mitigation and Management			
16CS O06	Fundamentals of DBMS			



Program code	Program name	Course code	Course name	Year of offering the course
		16ME O04	Intellectual Property Rights	
		16CS O05	Fundamentals of Virtual Reality	
		16EG O01	Technical Writing Skills	
		16EC C39	Seminar	
		16EC C40	Project	
		20MT C01	Linear Algebra & Calculus	
		20EG C01	English	
		20PY C01	Optics and Semiconductor Physics	
		20CS C01	Programming for Problem Solving	
		20MT C02	Linear Algebra & Calculus Lab	
		20EG C02	English lab	
		20PY C03	Optics and Semiconductor Physics Lab	
		20CS C02	Programming for problem Solving Lab	
		20ME C01	CAD AND DRAFTING	
		20MB C02	Community Engagement	
		20MT C03	Differential Equations & Transform Theory	
		20CYC01	Chemistry	
		20CS C05	Industry 4.0	
		20CS C03	Object Oriented Programming	
		20MT C04	Differential Equations & Transform Theory Lab	
		20CYC02 C	Chemistry Lab	
		20CSC04	Object Oriented Programming Lab	
		20ME C02	Workshop / Manufacturing Practice	
		20ME C03	Engineering Exploration	
		18EEC01	Basic Electrical Engineering	
		18CSC07	Data Structures	
		18CSC08	Discrete Mathematics	
		18CSC09	Digital Electronics and Logic Design	
		18MEC09	Principles of Management	
		18CEM01	Environmental Science	
		18EEC02	Basic Electrical Engineering Lab	
		18CSC10	Data Structures Lab	
		18CSC11	Digital Electronics and Logic Design Lab	
		18EGC03	Soft Skills	
		18ECC34	Basic Electronics	
		18MTC09	Probability and Statistics	
		18CSC12	Computer Architecture and Micro Processor	
		18CSC13	Data Base Management Systems	
		18EGM01	Indian Constitution and Fundamental Principles	
		18ECC35	Basic Electronics Lab	
		18CSC14	Computer Architecture and Micro Processor Lab	
		18CSC15	Data Base Management Systems Lab	
		18CSC16	IT Workshop (Latex/Scilab)	
		18CSC17	Formal Language and Automata Theory	
		18CSC18	Operating System	
		18CSC19	Design and Analysis of Algorithms	
		18CSE XX	Professional Elective-I	
		18MTO XX	Open Elective-I	
		18CSC20	Operating System Lab	
		18CSC21	Design and Analysis of Algorithms Lab	
		18CSE XX	Professional Elective-I Lab	
		18CSC22	Mini Project	
		18CSE01	Web and Internet Technologies	
		18CSE02	GUI Programming	
		18CSE03	Image Processing	
		18CSE04	Mobile Application Development	

B.E- Computer Science & Engineering



Program code	Program name	Course code	Course name	Year of offering the course
733	B.E- Computer Science & Engineering	18MTO 01	Decision Theory	2020-21
		18MTO 02	Graph Theory	
		18MTO 03	Number Theory and Cryptography	
		18MTO 04	Quantum Computing	
		18CSE05	Web and Internet Technologies Lab	
		18CSE06	GUI Programming Lab	
		18CSE07	Image Processing Lab	
		18CSE08	Mobile Application Development Lab	
		18CSC23	Data Communication and Computer Networks	
		18CSC24	Software Engineering	
		18CSC25	Artificial Intelligence	
		18CSE XX	Professional Elective-II	
		18CSE XX	Professional Elective-III	
		18MBC 01	Engineering Economics and Accountancy	
		18EEM 01	Indian Traditional Knowledge	
		18CSC26	Data Communication and Computer Networks Lab	
		18CSC27	Case Study	
		18CSE09	Internet of Things	
		18CSE10	Parallel and Distributed Algorithms	
		18CSE11	Cloud Computing	
		18CSE12	Computer Vision	
		18CSE13	Soft Computing	
		18CSE14	Network and System Administration	
		18CSE15	Mobile Computing	
		18CSE16	Free and Open-Source Software	
		16CSC 33	Data Science and Big Data Analytics	
		16CSC 34	Free and Open Source Software	
		16CSC 35	Distributed and Cloud Computing	
		16CSC 36	Machine Learning	
		16CSC 37	DSBDA Lab	
		16CSC 38	16CSC 39	
		16CSC 39	Project Seminar	
		16CSE 10	Deep Learning	
		16CSE 11	Design Patterns	
		16CSE 12	Nature Inspired Algorithm	
		16CSE 13	System and Network Administration	
		16CEO 02	Disaster Mitigation and Management	
		16MEO 01	Entrepreneurship	
		16MEO 06	Research Methodologies	
		16EGO 02	Gender Sensitization	
		16CSE 14	Cyber Security	
		16CSE 15	Optimization Techniques	
		16CSE 16	Natural Language Processing	
		16CSE 17	Virtual Reality	
		16CSE 18	Bioinformatics	
16CSE 19	Human Computer Interaction			
16CSE 20	Social Networking and its Impact			
16CSE 21	Blockchain Technology			
16MTO 04	Quantum Computing			
16MEO 02	Robotics			
16MEO 04	Intellectual Property Rights			
16PYO 01	History of Science and Technology			
Artificial g)		20MT C01	Linear Algebra & Calculus	
		20EG C01	English	
		20PY C01	Optics and Semiconductor Physics	
		20CS C01	Programming for Problem Solving	



Program code	Program name	Course code	Course name	Year of offering the course
748	B.E- Computer Science & Engineering (Intelligence and Machine Learning)	20MT C02	Linear Algebra & Calculus Lab	2020-21
		20EG C02	English lab	
		20PY C03	Optics and Semiconductor Physics Lab	
		20CS C02	Programming for problem Solving Lab	
		20ME C01	CAD AND DRAFTING	
		20MB C02	Community Engagement	
		20MT C03	Differential Equations & Transform Theory	
		20CYC01	Chemistry	
		20CS C05	Industry 4.0	
		20CS C03	Object Oriented Programming	
		20MT C04	Differential Equations & Transform Theory Lab	
		20CYC02 C	Chemistry Lab	
		20CSC04	Object Oriented Programming Lab	
		20ME C02	Workshop / Manufacturing Practice	
		20ME C03	Engineering Exploration	
749	B.E- Computer Science & Engineering (Internet of Things and Cyber Security Including Block Chain Technology)	20MT C01	Linear Algebra & Calculus	2020-21
		20EG C01	English	
		20PY C01	Optics and Semiconductor Physics	
		20CS C01	Programming for Problem Solving	
		20MT C02	Linear Algebra & Calculus Lab	
		20EG C02	English lab	
		20PY C03	Optics and Semiconductor Physics Lab	
		20CS C02	Programming for problem Solving Lab	
		20ME C01	CAD AND DRAFTING	
		20MB C02	Community Engagement	
		20MT C03	Differential Equations & Transform Theory	
		20CYC01	Chemistry	
		20CS C05	Industry 4.0	
		20CS C03	Object Oriented Programming	
		20MT C04	Differential Equations & Transform Theory Lab	
20CYC02 C	Chemistry Lab			
20CSC04	Object Oriented Programming Lab			
20ME C02	Workshop / Manufacturing Practice			
20ME C03	Engineering Exploration			
		20MT C01	Linear Algebra & Calculus	
		20EG C01	English	
		20PY C01	Optics and Semiconductor Physics	
		20CS C01	Programming for Problem Solving	
		20MT C02	Linear Algebra & Calculus Lab	
		20EG C02	English lab	
		20PY C03	Optics and Semiconductor Physics Lab	
		20CS C02	Programming for problem Solving Lab	
		20ME C01	CAD and Drafting	
		20MB C02	Community Engagement	
		20MT C03	Differential Equations & Transform Theory	
		20CY C01	Chemistry	
		20IT C01	Data Structures and Algorithms	
		20IT C02	Object Oriented Programming using Python	
		20MT C04	Differential Equations & Transform Theory Lab	
		20CYC02	Chemistry Lab	
		20IT C03	Data Structures and Algorithms Lab	
		20IT C04	Object Oriented Programming using Python Lab	
		20ME C02	Workshop / Manufacturing Practice	
		20ME C03	Engineering Exploration	
18ITC04	Data Structures and Algorithms			
18IT C05	Discrete Mathematics and Applications			



Program code	Program name	Course code	Course name	Year of offering the course
737	B.E- Information Technology	18EC C34	Basic Electronics	2020-21
		18ME C09	Principles of Management	
		18EE C01	Basic Electrical Engineering	
		18CE M01	Environmental Science	
		18IT C06	Data Structures and Algorithms Lab	
		18IT C08	Mini Project – I	
		18EC C35	Basic Electronics Lab	
		18EG C03	Soft Skills	
		18EE C02	Basic Electrical Engineering Lab	
		18IT C03	Digital Logic and Computer Architecture	
		18IT C09	Database Management Systems	
		18IT C10	Java Programming	
		18IT C11	Design and Analysis of Algorithms	
		18MT C09	Probability and Statistics	
		18EG M01	Indian Constitution	
		18IT C07	IT Workshop	
		18IT C12	Database Management Systems Lab	
		18IT C13	Java Programming Lab	
		18IT C14	Mini Project - II	
		18IT C15	Operating Systems	
		18IT C16	Theory of Automata	
		18IT C17	Computer Networks	
		18IT C18	Software Engineering	
		18IT C19	Operating Systems and Computer Networks Lab	
		18IT C20	Software Engineering Lab	
		18IT C21	Mini Project - III	
		18IT C22	Artificial Intelligence	
		18IT C23	Information Security	
		18MB C01	Engineering Economics and Accountancy	
		18EE M01	Indian Traditional Knowledge	
		18IT C24	Artificial Intelligence Lab	
		18IT C25	Information Security Lab	
		18IT C26	Mini Project - IV	
		16IT C31	Embedded Systems & Internet of Things	
		16IT C32	Distributed Systems	
		16IT C33	Information Security	
		16IT C34	Big Data Analytics	
		16IT C35	Big Data Analytics Lab	
		16IT C36	Embedded Systems & Internet of Things Lab	
		16IT C37	Project Seminar	
		16IT C38	Seminar	
		16IT C39	Project	
		18IT E01	Data Warehousing and Data Mining	
		18IT E02	Computer Graphics	
		18IT E03	Principles of Programming Languages	
18IT E04	UNIX and Shell Programming			
18IT E05	Predictive Analytics with R			
18IT E06	Web Technologies			
18IT E07	Information Retrieval Systems			
18IT E08	Compiler Design			
18IT E09	Social Media Analytics			
18IT E10	Virtual Reality			



Program code	Program name	Course code	Course name	Year of offering the course			
		18IT E11	Soft Computing				
		18IT E12	Mobile Commerce				
		18IT E13	Data Science with Python				
		18IT E14	Digital Image Processing and Analysis				
		18IT E15	Artificial Neural Networks and Deep Learning				
		18IT E16	Cyber Security				
		18BT O01	Basics of Biology				
		18BT O02	Gender Sensitization				
		18BT O03	Research Methodologies				
		18BT O04	Graph Theory				
		16IT E10	Human Computer Interaction				
		16IT E11	Soft Computing				
		16IT E12	VLSI Technology				
		16IT E13	Natural Language Processing				
		16IT E14	Mobile Computing				
		16IT E15	Business Intelligence				
		16ITE 16	Virtual Reality				
		16ITE 17	Social Media Analytics				
		16ITE 18	Cloud Computing				
		16MEO 02	Robotics				
		16MEO 04	Intellectual Property Rights				
		16MEO 06	Research Methodologies				
		16MEO 07	Introduction to Operations Research				
		16MEO 01	Entrepreneurship				
		16MEO 03	Human Rights and Legislature Procedures				
		16CEO 02	Disaster Mitigation and Management				
		16EGO 02	Gender Sensitization				
		771	B.E- Artificial Intelligence and Data Science		20MT C01	Linear Algebra & Calculus	2020-21
					20EG C01	English	
					20PY C01	Optics and Semiconductor Physics	
20CS C01	Programming for Problem Solving						
20MT C02	Linear Algebra & Calculus Lab						
20EG C02	English lab						
20PY C03	Optics and Semiconductor Physics Lab						
20CS C02	Programming for problem Solving Lab						
20ME C01	CAD and Drafting						
20MB C02	Community Engagement						
20MT C03	Differential Equations & Transform Theory						
20CY C01	Chemistry						
20IT C01	Data Structures and Algorithms						
20IT C02	Object Oriented Programming using Python						
20MT C04	Differential Equations & Transform Theory Lab						
20CYC02	Chemistry Lab						
20IT C03	Data Structures and Algorithms Lab						
20IT C04	Object Oriented Programming using Python Lab						
20ME C02	Workshop / Manufacturing Practice						
20ME C03	Engineering Exploration						
20ECC34	DC Circuits, Sensors and Transducers						
20ITC05	Digital Logic and Computer Architecture						
20MTC09	Probability and Statistics						
20ADC01	Java Programming						
20ITC08	Database Management Systems						



Program code	Program name	Course code	Course name	Year of offering the course
	B.E- Artificial Intelligence and Data Science	20EGM01	Indian Constitution and Fundamental Principles	
		20EGM02	Indian Traditional Knowledge	
		20ADC02	Java Programming	
		20ITC10	DBMS Lab	
		20ADC03	Artificial Intelligence & Machine Learning Tools, Techniques and Applications	
		20ITC12	Mini Project-1	
		20ADI01	MOOCs/Training/Internship	
		20MTC10	Stochastic Process and Queueing Theory	
		20ITC06	Discrete Mathematics and Applications	
		20ITC15	Design and Analysis of Algorithms	
		20ADC 04	Machine Learning	
		20ADE01	Data Analysis and Visualization	
		20ITE02	Mobile Application Development with Android and Kotlin	
		20MBC01	Engineering Economics and Accountancy	
		20CEM01	Environmental Science	
		20MTC11	Stochastic Process and Queueing Theory	
		20ITC17	Design and Analysis of Algorithms Lab	
		20ADC 05	Machine Learning Lab	
20ITC18	Mini Project – II			
		18MTC05	Mathematics -III	
		18MB C01	ENGINEERING ECONOMICS AND ACCOUNTANCY	
		18ME C03	MATERIAL SCIENCE AND METALLURGY	
		18ME C04	MECHANICS OF MATERIALS	
		18ME C10	Fluid Principles and Hydraulic Machines	
		18EG M01	INDIAN CONSTITUTION AND FUNDAMENTAL PRINCIPLES	
		18EE A01	INDIAN TRADITIONAL KNOWLEDGE	
		18ME C05	MATERIAL SCIENCE AND METALLURGY LAB	
		18ME C06	MECHANICS OF MATERIALS LAB	
		18ME C11	Fluid Principles and Hydraulic Machines Lab	
		18CS C05	BASICS OF DATA STRUCTURES	
		18ME C07	KINEMATICS OF MACHINES	
		18ME C08	THERMO DYNAMICS	
		18ME C09	PRINCIPLES OF MANAGEMENT	
		18PE C03	Metal Casting and Welding	
		18CE M01	ENVIRONMENTAL SCIENCE	
		18CS C08	BASICS OF DATA STRUCTURES LAB	
		18EG C03	SOFT SKILLS LAB	
		18PE C04	Metal Casting and Welding Lab	
		18ME C12	Dynamics of Machines	
		18ME C13	Applied Thermodynamics and Heat Transfer	
		18ME C14	Design of Machine Elements	
		18PE C05	Metal Forming Technology	
		18ME E01	Refrigeration and Air Conditioning 1	
		18ME E02	Values, Ethics and Society	
		18PE E01	Plastics, Ceramics and Composite Materials	
		18PE E02	Product Design and Process Planning	
		18PE E03	Powder Processing	
		18ME E04	Automobile Engineering	
		18ME E05	Nano Science and Technology	
		18ME E06	Rights, Duties and Legislation	



Program code	Program name	Course code	Course name	Year of offering the course
738	B.E. - Production Engineering	18PE E04	Non Destructive Testing and Evaluation	2020-21
		18PE E05	Surface Engineering	
		18ME C15	Dynamics and Vibrations Lab	
		18ME C16	Applied Thermodynamics and Heat Transfer Lab	
		18PE C06	Metal Forming Technology Lab	
		18ME C17	CAD/CAM	
		18ME C18	Machine Design	
		18PE C09	Machine Tool Engineering	
		18ME E08	Object Oriented Programming with C++	
		18ME E09	Mechanics of Composite Materials	
		18ME E10	Robotic Engineering	
		18PE E06	Production and Operations Management	
		18PE E07	Principles of Industrial Engineering	
		18ME E12	Computational Fluid Dynamics	
		18ME E13	Principles of Entrepreneurship	
		18PE E08	Modern Machining and Forming Methods	
		18ME E16	Finite Element Methods	
		18ME E15	Blockchain Technology	
		18ME E17	Renewable Energy Sources	
		18ME E18	Control Systems Theory	
		18ME E19	Artificial Intelligence	
		18ME E20	Industrial Administration and Financial Management	
		18PE E10	Total Quality Management	
		18ME C20	CAD/CAM LAB	
		18PE C10	Machine Tool Engineering Lab	
		16ME C33	Metrology and Instrumentation	
		16ME C34	Operations Research	
		16PE C10	Production Drawing	
		16PE C11	Production and Operations Management	
		16PE C12	Tool Engineering	
		16ME E10	Renewable Energy Sources	
		16ME E11	Energy Conservation, Management and Audit	
		16ME E12	Engineering Research Methodology	
		16ME E14	Finite Element Methods	
		16ME C36	Metrology and Instrumentation Lab	
		16PE C13	Manufacturing Engineering Lab	
		16PE C14	Project Seminar	
		16ME E15	Power Plant Engineering	
		16ME E16	Principles of Entrepreneurship	
		16ME E17	Innovations, Protection and Legal Aspects	
		16PE E11	Supply Chain Management	
		16PE E12	Total Quality Management	
		16CE O02	Disaster Mitigation and Management	
		16IT O02	Principles of Internet of Things	
		16EE O03	Energy Auditing	
		16EC O07	System Automation and Control	
16CS O09	Basics of Artificial Intelligence			
16IT O01	Object Oriented Programming using JAVA			
16PY O01	History of Science and Technology			
16EE O05	Waste Management			
16EC O05	MEMS and its Applications			
16CS O07	Basics of Cyber Security			
16PE C15	Seminar			
16PE C16	Project			



Program code	Program name	Course code	Course name	Year of offering the course
		20MTC05	Calculus	
		20CYC01	Chemistry	
		20CE C01	Engineering Mechanics-I	
		20CS C01	Programming for Problem Solving	
		20CYC02	Chemistry Lab	
		20CS C02	Programming for Problem Solving Lab	
		20MEC02	Workshop/ Manufacturing Practice	
		20MEC03	Engineering Exploration	
		20MT C06	Vector Calculus and Differential Equations	
		20EG C01	English	
		20PY C07	Physics	
		20EEC01	Basic Electrical Engineering	
		20EG C02	English lab	
		20PY C10	Physics Lab	
		20EEC02	Basic Electrical Engineering Lab	
		20ME C01	CAD and Drafting	
		20MB C02	Community Engagement	
		18MT C 05	Mathematics -III	
		18CH C 01	Technology of Surface Coatings and Oils	
		18CH C 02	Chemical Engineering Thermodynamics - I	
		18CH C 03	Numerical Methods in Chemical Engineering	
		18CH C 04	Material and Energy Balance Computations	
		18EG M 01	Indian constitution	
		18EE M 01	Indian Traditional Knowledge	
		18CH C 05	Numerical methods in Chemical Engineering Lab	
		18CH C 06	Technology of Surface Coatings and Oils Lab	
		18CS C 05	Basics of Data Structures	
		18CH C 07	Chemical Engineering Thermodynamics - II	
		18CH C 08	Fluid Mechanics	
		18CH C 09	Material Science	
		18ME C 09	Principles of Management	
		18CE M 01	Environment science	
		18EG C 03	Soft skills lab	
		18CS C 06	Basics of Data structures Lab	
		18CH C 10	Chemical Reaction Engineering I	
		18CH C 11	Mass Transfer I	
		18CH C 12	Heat Transfer	
		18CH C 13	Particle and Fluid Particle Processing	
		18CH E 01	Water Conservation and Management	
		18CH E 02	Renewable Energy	
		18CH E 03	Experimental and Analytical Techniques	
		18CH E 04	Polymer Science and Technology	
		18CH E 05	Green Technology	
		18CH E 06	Catalysis	
		18CH C 14	Chemical Engineering Lab IA - MUO	
		18CH C 15	Chemical Engineering Lab IB - FM and HT	
		18CH C 16	Chemical Reaction Engineering II	
		18CH C 17	Mass Transfer II	
		18CH C 18	Process Control	
		18CH E 07	Fluidization Engineering	
		18CH E 08	Petrochemical Technology	
		18CH E 09	Biochemical Engineering	
		18CH E 10	Sugar Technology	
		18CH E 11	Pulp and Paper Technology	
		18CH E 12	Food Technology	

802

B.Tech. - Chemical Engineering

2020-21



Program code	Program name	Course code	Course name	Year of offering the course
		18EE O 05	Waste Management	
		18ME O 04	Enterpreneurship	
		18CS O 09	Basics Of Artificial Intelligence	
		18ME O 06	Nanomaterials and Technology	
		18ME O 07	Intellectual Property Rights	
		18CH C 19	Chemical Engineering Lab IIA - CRE	
		18CH C 20	Chemical Engineering Lab IIB - MTO and TD	
		16CH C 24	Mass Transfer Operations –II	
		16CH C 25	Petrochemical Engineering	
		16CH C 26	Process Equipment Design	
		16CH C 27	Transport Phenomena	
		16CH E 11	Polymer Technology	
		16CH E 12	Pulp and Paper Technology	
		16CH E 13	Pollution Control in Process Industries	
		16CE O 02	Disaster Mitigation and Management	
		16ME O 01	Entrepreneurship	
		16ME O 04	Intellectual Property Rights	
		16EG O 01	Technical Writing Skills	
		16CH C 28	Equipment Design and Drawing Lab	
		16CH C 29	Mass Transfer Operations Lab	
		16CH C 30	Seminar	
		16CH C 31	Plant Design Economics	
		16CH E 14	Membrane Separation Technology	
		16CH E 15	Sugar Technology	
		16CH E 16	Food Technology	
		16ME O 05	Nano Materials and Technology	
		16CS O 03	IoT and application	
		16PY O 01	History of Science and Technology	
		16EG O 02	Gender Sensitization	
		16CH C 32	Project Seminar	
		16CH C 33	Project	
		20MT C21/20	20MT C21/ 20BT C01 Mathematics-I/ Basics of Bi	
		20 EG C01	20 EG C01 English	
		20PY C02	20PY C02 Physics	
		20CS C01	20CS C01 Programming for Problem Solving	
		20PY C04	20PY C04 Physics lab	
		20EG C02	20EG C02 English lab	
		20CS C02	20CS C02 Programming for Problem Solving lab	
		20ME C01	CAD & Drafting	
		20MBC02	Community Engagement	
		20MT C22/20	Mathematics –II/ Basics Of Biology-II	
		20CY C01	Chemistry	
		20EE C01	Basic Electrical Engineering	
		20BT C03	Process Principles and Reaction Engineering	
		20CY C02	Chemistry lab	
		20EE C02	Basic Electrical Engineering lab	
		20ME C02	Workshop/Manufacturing Practices	
		20ME C03	Engineering Exploration	
		18MTC06	Engineering Mathematics-III	
		18BT C03	Cell and Molecular Biology	
		18BT C04	Biochemistry	
		18BT C05	Microbiology and Industrial Biotechnology	
		18BT C06	Process Principles and Reaction Engineering	
		18BT C07	Genetics	
		18EG M01	Indian Constitution	
		18EE M01	Indian Traditional Knowledge	



Program code	Program name	Course code	Course name	Year of offering the course
805	B.Tech. - Biotechnology	18BT C08	Biochemistry Lab	2020-21
		18BT C09	Microbiology Lab	
		18CS C05	Basics of Data Structures	
		18BT C10	Immunology	
		18BT C11	Instrumental Methods in Biotechnology	
		18BT C12	Chemical and Biochemical Thermodynamics	
		18ME C09	Principles of Management	
		18CE M01	Environmental Science	
		18CS C06	Basics of Data Structures	
		18BT C13	Immunology Lab	
		18BT C14	Instrumentation Lab	
		18EG C03	Soft Skills Lab	
		18BT C15	Fluid Mechanics and Heat Transfer	
		18BT C16	Enzyme Technology	
		18BT C17	Genetic Engineering and rDNA Technology	
		18MB C01	Engineering Economics and Accountancy	
		18BT C18	Fluid Mechanics and Heat Transfer Lab	
		18BT C19	Enzyme Technology Lab	
		18BT C20	Genetic Engineering Lab	
		18BT E01	Virology	
		18BT E02	Phytochemicals and Herbal Products	
		18BT E03	Introduction to Anatomy and Physiology of Human	
		18BT E04	Environmental Biotechnology	
		18BT E05	Developmental Biology	
		18BT E06	Metabolic Engineering	
		18BT C21	Fermentation Technology	
		18BT C22	Bioinformatics	
		18BT C23	Mass Transfer Operations	
		18BT C24	Fermentation Lab	
		18BT C25	Bioinformatics Lab	
		18BT E07	Medical Biotechnology	
		18BT E08	Food Biotechnology	
		18BT E09	Bioprocess Dynamics and Control	
		18BT E10	Artificial Intelligence in Biology	
		18BT E11	Pharmaceutical Biotechnology	
		18BT E12	Intellectual Property Rights Regulatory Affairs And	
		18BT E13	Nanobiotechnology	
		18MT O01B	Numerical Methods	
		18EC O02	Biomedical Instrumentation	
		18ME O03	Research Methodologies	
		16BT C41	Down Stream Processing	
		16BT C42	Plant Biotechnology	
		16BT C43	Animal Biotechnology	
		16BT C44	Bioprocess Dynamics & Control	
		16BT C45	Computer Applications in Bioprocess Industries	
16BT E46	Genomics & Proteomics			
16BT E47	Cancer Biology			
16BT E48	Intellectual Property Rights Regulatory Affairs & C			
16BT C49	Down Stream Processing Lab			
16BT C50	Tissue Culture Lab			
16BT C51	Project Seminar			
16BT E52	Tissue Engineering			
16BT E53	Immunodiagnosics			
16BT E54	Molecular Modeling & Drug Design			
16ME O06	Research Methodologies			
16EC O02	Biomedical Instrumentation			



Program code	Program name	Course code	Course name	Year of offering the course
		16EG 001	Technical Writing Skills	
		16CS 003	IOT and Applications	
		16CS 004	Basics of Data Science Using R	
		16ME 001	Entrepreneurship	
		16BT C55	Seminar	
		16BT C56	Project	
PG COURSES				
672	MBA (Master of Business Administration)	20MBC101	Management and Organization Behaviour	2020-21
		20MBC102	Managerial Economics	
		20MBC103	Financial Accounting for Management	
		20MBC104	Marketing Management	
		20MBC105	Statistics for Management	
		20MBC106	Digital Technology	
		20MBC107	Business Communication Lab	
		20MBC108	Statistics Lab	
		20MBO101	Business Environment	
		20MBO102	Corporate Social Responsibility	
		20MBO103	Business Law and Ethics	
		20MBC201	Human Resource Management	
		20MBC202	Financial Management	
		20MBC203	Business Research Methods	
		20MBC204	Operations Research	
		20MBC205	Operations Management	
		20MBC206	Business Analytics	
		20MBC207	Logistics and Supply Chain Management	
		20MBC208	Comprehensive Viva Voce- I	
		20MBSD201	Personality Development and Career Guidance	
		20MBO201	E-Business	
		20MBO202	Banking Management	
		20MBO203	Customer Relationship Management	
		20MBC301	Strategic Management	
		20MBC302	Internship	
		20MBE301	Investment Management	
		20MBE302	Financial Markets and Services	
		20MBE303	Performance and Compensation Management	
		20MBE304	Training and Development	
		20MBE305	Product and Brand Management	
		20MBE306	Integrated Marketing Communications and Digital M	
		20MBE307	Business Data Mining	
		20MBE308	Python Programming	
		20MBE309	Transport Management	
		20MBE310	Distribution and Warehouse Management	
		20MBC401	Entrepreneurship Development	
		20MBC402	Project Work	
		20MBC403	Comprehensive Viva Voce- II	
		20MBE401	Financial Risk Management	
		20MBE402	Project Appraisal and Financing	
		20MBE403	Industrial Relations and Labour Laws	
		20MBE404	Strategic Human Resource Management	
		20MBE405	Consumer Behaviour	
		20MBE406	Services and Retail Marketing	
		20MBE407	Machine Learning and Artificial Intelligence	
		20MBE408	Cloud Computing	
		20MBE409	E-Commerce Logistics	
		20MBE410	International Logistics	
		20MCC101	Computer Programming using 'C'	



Program code	Program name	Course code	Course name	Year of offering the course
862	MCA (Master of Computer Applications)	20MCC102	Computer Organization and Architecture	2020-21
		20MCC103	Software Engineering	
		20MCC104	Mathematical Foundations for Computer Applications	
		20MCC105	Probability & Statistics	
		20MCC105	Computer Programming Lab using 'C'	
		20MCC106	Python Programming Lab	
		20EG101	Professional Communication in English Lab	
		20MCC107	Data Structures and Algorithms	
		20MCC108	Artificial Intelligence	
		20MCC109	Object Oriented Programming using Java	
		20MCC110	Database Management Systems	
		20MCE102	Entrepreneurship	
		20MCE103	Business Intelligence & Analytics	
		20MCC111	Data Structures Lab using C++	
		20MCC112	Object Oriented Programming Lab using Java	
		20MCC113	Database Management Systems Lab	
		16MCC113	Database Management Systems	
		16MCC114	Web Technologies	
		16MCC115	Design and Analysis of Algorithms	
		16MCC116	Operating Systems	
		16CE C03	Human Values and Professional Ethics	
		16ME E20	Entrepreneurship	
		16MCC117	Database Management Systems Lab	
		16MCC118	Web Technologies Lab	
		16MCC119	Operating Systems Lab	
		16MCC120	Computer Networks	
		16MCC121	Data warehousing and Data Mining	
		16MCC122	Advanced Java Programming	
		16MCE102	Software Testing	
		16MCE103	Artificial Neural Networks	
		16MCE106	Cloud Computing	
		16MCE107	Software Project Management	
		16MCC123	Computer Networks Lab	
		16MCC124	Data warehousing and Data Mining Lab	
		16MCC125	Mini Projects	
		16MCC126	Object Oriented System Development(OOSD)	
		16MCC127	Machine Learning	
		16MCC128	Cryptography & Network Security	
		16MC E110	Internet of Things	
		16MC E111	Business Intelligence and Analytics	
		16MC E113	Big Data Analytics	
		16MC E114	E-Commerce	
		16MCC129	Object Oriented System Development Lab	
16MCC130	Machine Learning Lab using Python			
16MCC131	Seminar			
16MCC132	Major Project Work			
20CE C101	Structural Dynamics			
20CE C102	Finite Element Method in Structural Engineering			
20CE E104	Advanced Structural Analysis			
20CE E104	Structural Health Monitoring			
19ME 103	Research Methodology and IPR			



Program code	Program name	Course code	Course name	Year of offering the course
741	ME – Structural Engineering (CIVIL)	19EG A101	English for Research Paper Writing	2020-21
		20CE C103	Structural Design Lab	
		20CE C104	Advanced Structural Concrete Lab	
		20CEC105	Design of High Rise Structures	
		20CEC106	Advanced Solid mechanics	
		20CEC107	Repair and Retrofitting of Structures	
		20CEE110	Advanced Foundation Design	
		20CEA101	Disaster Mitigation and Management	
		20CEC107	Model Testing Lab	
		20CEC108	Numerical Analysis Lab	
		20CEC109	Mini Project With Seminar	
		19CE E114	Design of Prestressed Concrete Structures (DoPCS)	
		19EE O103	Waste to Energy(WTE)	
		19CE C110	PROJECT PRESENTATION	
765	ME – CAD / CAM (MECH)	20ME C101	Computer Aided Modeling and Design	2020-21
		20ME C102	Computer Integrated Manufacturing	
		20ME E102	Advanced Vibrations and Acoustics	
		20ME E104	Automation	
		20MEC 103	Research Methodology and IPR	
		20 ECA 101	Value Education	
		20ME C 104	Integrated Design and Manufacturing Lab	
		20ME C105	Vibrations and Acoustics Lab	
		20MEC 106	Finite Element Techniques	
		20MEC 107	Mechanical Design and Analysis	
		20ME E107	Mechanics of Composite Materials	
		20ME E111	Failure Analysis and Design	
		20EC A 101	Value Education	
		20MEC 108	Computer Aided Engineering Lab	
		20MEC 206	Computational Fluid Dynamics Lab	
		20MEC109	Mini Project with Seminar	
		19MEE 113	Product Design and Process Planning	
		19MEE 114	Theory of Elasticity and Plasticity	
		19MEO 101	Industrial Safety	
		19MEO 102	Introduction to Optimization Techniques	
		19MEO 103	Composite Materials	
		19CEO 101	Cost Management of Engineering Projects	
		19EEO 101	Waste to Energy	
		19MEC 110	Dissertation Phase - I	
19MEC 111	DISSERTATION PHASE - II			
		20CSC 101	Mathematical Foundations Of Computer Science	
		20CSC 102	Advanced Data Structures	
		20CSE101	Machine Learning Elective-I	
		20CSE102	Internet Of Things Elective-I	
		20CSE103	Introduction To Intelligent Systems Elective-I	
		20CSE113	Data Science And Big Data Analytics Elective-II	
		20CSE114	Distributed Database Systems Elective-II	
		20CSE115	Advanced Wireless And Mobile Networks Elective-II	
		20CSE104	Data Preparation And Analysis Elective-III	
		20CSE105	Secure Software Design And Enterprise Computing Elective-III	
		20CSE106	Computer Vision Elective-III	
		20CSE116	Human And Computer Interaction Elective-IV	
		20CSE117	GPU Computing Elective-IV	



Program code	Program name	Course code	Course name	Year of offering the course
742-001	M.TECH – CSE	20CSE118	Digital Forensics Elective-IV	2020-21
		20CSE119	Mobile Applications And Services Elective-V	
		20CSE120	Compiler For HPC Elective-V	
		20CSE121	Open Source Technologies Elective-V	
		20CSE107	Machine Learning Lab Elective-I	
		20CSE108	Internet Of Things Lab Elective-I	
		20CSE109	Introduction To Intelligent Systems Lab Elective-I	
		20CSE110	Data Preparation And Analysis Lab Elective-III	
		20CSE111	Secure Software Design And Enterprise Computing Lab Elective-III	
		20CSE112	Computer Vision Lab Elective-III	
		20CSC 103	Advanced Data Structures Lab	
		20CSC 104	Advanced Algorithms	
		20CSC 105	Soft Computing	
		20CSC 106	Advanced Algorithm And Soft Computing Lab	
		20MEC103	Research Methodology And IPR	
		20EGA101	English For Research Paper Writing	
		20CEA101	Disaster Mitigation And Management	
		20EEA101	Sanskrit For Technical Knowledge	
		20ECA101	Value Education	
		20EGA102	Indian constitution & Fundamental Rights	
		20ITA101	Pedagogy Studies	
		20EGA103	Stress Management By Yoga	
		20 EGA104	Personality Development Through Life's Enlightenment Skills	
		19CSE119	Mobile Applications and Services	
		19CSE120	Compiler for HPC	
		19CSE121	Open Source Technologies	
		19CSO 101	Business Analytics	
		19MEO 101	Industrial Safety	
		19MEO 102	Introduction to Optimization Techniques	
		19CEO101	Cost Management of Engineering Projects	
		19MEO103	Composite Materials	
		19EEO101	Waste to Energy	
		19PYO 01	History of Science and Technology	
		19CSC 108	Dissertation Phase – I	
19CSC 109	Dissertation Phase – II			
ME – Communication Engineering (ECE)		20EC C102	Advanced Digital Signal Processing	
		20EC C104	Wireless and Mobile Communication	
		20EC E103	Global Navigation Satellite Systems	
		20EC E107	Microwave and Satellite Communication	
		20EC E110	Remote Sensing	
		20EC E101	Data and Optical Networks	
		20EC E102	DSP Architecture	
		20EC E106	Internet of Things	
		20ME M103	Research Methodology and IPR	
		20CE A101	Disaster Management	
		20EG A101	English for Research Paper Writing	
		20EG A102	Indian Constitution and Fundamental Rights	
		20IT A101	Pedagogy Studies	
		20EG A104	Personality Development through Life Enlightenment	
		20EE A101	Sanskrit for Technical Knowledge	
		20EG A103	Stress Management by Yoga	
		20EC A101	Value Education	
		20EC C106	Advanced Digital Signal Processing Lab	



Program code	Program name	Course code	Course name	Year of offering the course
744-001	ME - Communication Engineering (ECE)	20EC C108	Wireless and Mobile Communication Lab	2020-21
		20EC C101	Advanced Communication Networks	
		20EC C103	Antennas and Radiating Systems	
		20EC E105	Information Theory and Coding Techniques	
		20EC E111	Signal Intelligence Systems	
		20EC E113	Statistical Decision and Estimation Theory	
		20EC E207	Network Security and Cryptography	
		20EC E109	Pattern Recognition and Machine Learning	
		20EC E112	Software Defined and Cognitive Radio	
		20CE A101	Disaster Management	
		20EG A101	English for Research Paper Writing	
		20EG A102	Indian Constitution and Fundamental Rights	
		20IT A101	Pedagogy Studies	
		20EG A104	Personality Development through Life Enlightenment	
		20EE A101	Sanskrit for Technical Knowledge	
		20EG A103	Stress Management by Yoga	
		20EC A101	Value Education	
		20EC C105	Advanced Communication Networks Lab	
		20EC C107	Antennas and Radiating Systems Lab	
		20EC C109	Mini Project with Seminar	
		19EC E104	High Performance Networks	
		19EC E108	MIMO Wireless Communications	
		19EC E114	Wireless Sensor Networks	
		19CS O101	Business Analytics	
		19ME O103	Composite Materials	
		19CE O101	Cost Management of Engineering Projects	
		19ME O101	Industrial Safety	
		19ME O102	Introduction to Optimization Techniques	
		19EE O101	Waste to Energy	
		19EC C110	Industrial Project /Dissertation Phase I	
19EC C111	Industrial Project /Dissertation Phase II			
766	M.E. - Power System & Power Electronics	20EE C101	Real Time Applications for Power Systems	2020-21
		20EE C102	Power Electronic Converters	
		20ME C103	Research Methodology and IPR	
		20EE E110	Power Quality	
		20EE E111	FACTS and Custom power devices	
		20EGA 101	English for Research Paper Writing	
		20EE C103	Power Systems Lab	
		20EE C104	Power Electronics Simulation Lab	
		20EEEC105	Power System Dynamics	
		20EEEC106	Advanced Power Electronic Circuits	
		20EEE107	Renewable Energy System	
		20EEE113	Energy Auditing & Management	
		20CE A101	Disaster Mitigation and Management	
		20EEEC107	Power Electronics Lab	
		20EEEC108	Power Systems Simulation Lab	
		20EEEC109	Mini Project with Seminar	
		19EE E116	Electric and Hybrid Vehicles	
		19EE C110	Dissertation / Phase- I	
		19EE C111	Dissertation / Phase- II	
		19MEO 102	Introduction to Optimisation Techniques	
		20ECC201	Analog and Digital CMOS VLSI Design	
		20ECC203	Microcontrollers and Programmable Digital Signal	
		20EC E201	Advanced Computer Organization	
		20EC E202	Communication Buses and Interfaces	
		20EC E203	Data Acquisition System Design	



Program code	Program name	Course code	Course name	Year of offering the course
744-401	ME-EMBEDDED SYSTEMS AND VLSI DESIGN (ECE)	20EC E208	Programming Languages for Embedded Software	2020-21
		20EC E212	VLSI Signal Processing	
		20EC E213	VLSI Technology and Physical Design Automation	
		20ME M103	Research Methodology and IPR	
		20CE A101	Disaster Management	
		20EG A101	English for Research Paper Writing	
		20EG A102	Indian Constitution and Fundamental Rights	
		20IT A101	Pedagogy Studies	
		20EG A104	Personality Development through Life Enlightenment	
		20EE A101	Sanskrit for Technical Knowledge	
		20EG A103	Stress Management by Yoga	
		20EC A101	Value Education	
		20ECC205	Analog and Digital CMOS VLSI Design Lab	
		20ECC206	Microcontrollers and Programmable Digital Signal	
		20ECC202	Embedded System Design Using RTOS	
		20ECC204	VLSI Design Verification and Testing	
		20EC E205	Low Power VLSI Design	
		20EC E206	Nano-materials and Nanotechnology	
		20EC E109	Pattern Recognition and Machine Learning	
		20EC E207	Network Security and Cryptography	
		20EC E209	RF IC Design	
		20EC E210	SoC Design	
		20CE A101	Disaster Management	
		20EG A101	English for Research Paper Writing	
		20EG A102	Indian Constitution and Fundamental Rights	
		20IT A101	Pedagogy Studies	
		20EG A104	Personality Development through Life Enlightenment	
		20EE A101	Sanskrit for Technical Knowledge	
		20EG A103	Stress Management by Yoga	
		20EC A101	Value Education	
		20ECC207	RTL Simulation and Synthesis with PLDs Lab	
		20ECC208	RTOS and VLSI Design Verification Lab	
		20ECC209	Mini Project with Seminar	
		19EC E204	FPGA & CPLD Architectures	
		19EC E211	System Design with Embedded Linux	
		19ECE114	Wireless Sensor Networks	
		19CS O101	Business Analytics	
		19ME O103	Composite Materials	
		19CE O101	Cost Management of Engineering Projects	
		19ME O101	Industrial Safety	
		19ME O102	Introduction to Optimization Techniques	
		19EE O101	Waste to Energy	
		19ECC210	Industrial Project /Dissertation Phase I	
19ECC211	Industrial Project /Dissertation Phase II			
		20ME C201	Thermodynamics and Combustion	
		20ME C202	Advanced Fluid Dynamics	
		20ME M103	Research Methodology and IPR	
		20ME E201	Thermal and Nuclear Power Plants	
		20ME E202	Environmental Engineering and Pollution Control	
		20ME E103	Optimization Techniques	
		20ME E203	Air Conditioning System Design	
		20ME E204	Energy Conservation and Management	
		20ME E205	Design of Solar and Wind Systems	
		20ME C203	Thermal Systems Lab	
		20ME C204	Design of Solar and Wind Systems Lab	
		20CE A101	Disaster Mitigation and Management	



Program code	Program name	Course code	Course name	Year of offering the course
745	ME-THERMAL ENGINEERING (MECH)	20EE A101	Sanskrit for Technical Knowledge	2020-21
		20EC A101	Value Education	
		20IT A101	Pedagogy Studies	
		20EG A101	English for Research Paper Writing	
		20EG A102	Indian Constitution and Fundamental Rights	
		20EG A103	Stress Management by Yoga	
		20EG A104	Personality Development through Life's Enlightenment	
		20ME C106	Finite Element Techniques	
		20ME C205	Advanced Heat and Mass Transfer	
		20ME E206	Computational Fluid Dynamics	
		20ME E207	Refrigeration and Cryogenics	
		20ME E208	Design of Heat Exchangers	
		20ME E209	Turbo Machines	
		20ME E210	Gas Turbines	
		20ME E211	Power Plant Control and Instrumentation	
		20ME C108	Computer Aided Engineering Lab	
		20ME C206	Computational Fluid Dynamics Lab	
		20ME C207	Mini Project with Seminar	
		20CE A101	Disaster Mitigation and Management	
		20EE A101	Sanskrit for Technical Knowledge	
		20EC A101	Value Education	
		20IT A101	Pedagogy Studies	
		20EG A101	English for Research Paper Writing	
		20EG A102	Indian Constitution and Fundamental Rights	
		20EG A103	Stress Management by Yoga	
		20EG A104	Personality Development through Life's Enlightenment	
		20ME E212	Experimental Methods in Thermal Engineering	
		20ME E213	Fluid Power Systems	
		20ME E214	Engine Emissions and Pollution Control	
		20CE O101	Cost Management of Engineering Projects	
		20EE O101	Waste to Energy	
		20CS O101	Business Analytics	
		20ME C208	Industrial Project / Dissertation Phase - I	
20ME C111	Industrial Project / Dissertation Phase - II			
768	M.Tech - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	20MTC101	Mathematical Foundations of Data Science	2020-21
		20ITC101	Artificial Intelligence	
		20ITE105	Social Network Analytics	
		20ITE112	Digital Image Processing and Analysis	
		20MEM103	Research Methodology and IPR	
		20EGA101	English for Research Paper Writing	
		20MTC102	Mathematical Foundations of Data Science Lab	
		20ITC104	Artificial Intelligence Lab	
		20ITE122	Digital Image Processing and Analysis Lab	
		20ITC102	Introduction to data science	
		20ITC103	Machine Learning	
		20ITE105	Social Network Analytics	
		20ITE114	Big Data Analytics	
		20ECA101	Value Education	
		20ITC105	Introduction to data science Lab	
		20ITC106	Machine Learning Lab	
		20ITE124	Big Data Analytics Lab	
		20ITC107	Mini Project with Seminar	
		20ITE106	Block Chain Technology	
		20ITC105	Business Analytics	
20ITC108	Dissertation Phase-I			
20ITC109	Dissertation/Phase-II			



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Principal

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