



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: 2021-22

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S. No.	Particulars	Page Numbers
1.	Number of Courses in all Programs Year-Wise for the Academic Year: 2021-22	2-26

List of courses offered across all programs during 2021-22

Program code	Program name	Course code	Course name	Year of offering the course
732	B.E- Civil Engineering	20MT C05	Calculus	2021-22
		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	
		20MT C08	Partial Differential Equations and Statistics	
		20CE C03	Surveying-I	
		20CE C04	Solid Mechanics	
		20CE C05	Fluid Mechanics	
		20CE C06	Building Construction Practices & Concrete Technology	
		20EG M03	Universal Human Values -II Understanding Harmony	
		20CE C07	Solid Mechanics Lab	
		20CE C08	Fluid Mechanics Lab	
		20CE I01	MOOCs/Training/ Internship	
		20CE C09	Hydraulic Engineering	
		20CE C10	Surveying II	
		20CE C11	Structural Analysis I	
		20CE C12	Reinforced Concrete Design - I	
		20CE C13	Hydraulic Engineering Lab	
		20CE C14	Surveying & Geomatics Lab	
		20CE C15	Computer Aided Drafting (CAD)	
		20EG M01	Indian Constitution & Fundamental Principles (MC)	
		20EE M01	Indian Traditional Knowledge (MC)	
		20CE E01	Green Building Technologies	
		20CE E02	Principles of Geographical information systems	
		20CE E03	Solid and Hazardous Waste Management	
		20CE E04	Ground Water Engineering	
		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			



Program code	Program name	Course code	Course name	Year of offering the course
	B.E- Civil Engineering	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	
		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	
		18CE C24	Construction Engineering and Management	
		18CE C25	Hydrology and Water Resources Engineering	
		18CE C26	Estimation, Specifications and Costing	
		18CE C27	Concrete Technology Lab	
		18CE C28	Computer Applications Lab	
		18CE C29	Project: Part 1	
		18CE E17	Design of Steel Structures-II	
		18CE E18	Airport Engineering	
		18CE E19	River Engineering	
		18CE E20	Water and Air Quality Modelling	
		18ME O07	Intellectual Property Rights	
		18EG O02	Gender Sensitization	
		18CS O01	Basics of Artificial Intelligence	
		18EE O04	Energy Conservation	
		18CE E21	Earthquake Resistant Design of Structures	
	18CE E22	Ground Improvement Techniques		
	18CE E23	Design of Hydraulic Structures/ Irrigation Engineering		
	18CE E24	Rural Water Supply and Onsite Sanitation Systems		
	18ME O06	Nano Materials and Technology		
	18IT O03	Principles of Internet of Things		
	18EE O05	Waste Management		
	18EC O08	Neural Networks and Fuzzy Logic		
	18CE C31	Project: Part 2		
	Mechanical Engineering	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	



Program code	Program name	Course code	Course name	Year of offering the course
736	B.E- Mech:	20EGC02	English lab	2021-22
		20PYC08	Mechanics and Materials Science Lab	
		20EEC02	Basic Electrical Engineering Lab	
		20MEC01	CAD and Drafting	
		20MBC02	Community Engagement	
		20MEC04	Material Science And Metallurgy	
		20MEC05	Strength of Materials	
		20MEC06	Manufacturing Processes	
		20MTC08	Partial Differential Equations And Statistics	
		20CSC06	Basics Of Data Structures	
		20EGM03	Universal Human Values II- Understanding Harmony	
		20CEM01	Environmental Science	
		20MEC07	Material Science and Metallurgy Lab	
		20MEC08	Strength of Materials Lab	
		20MEC09	Manufacturing Processes Lab	
		20CSC07	Basic data structures Lab	
		20MEC10	Kinematics of Machines	
		20MEC11	Thermodynamics	
		20MEC12	Fluid Principles and Hydraulic Machines	
		20MEC13	Metal Cutting and Machine Tool Engineering	
		20EGM01	Indian Constitution and Fundamental Principles	
		20EGM02	Indian Traditional Knowledge	
		20MEE01	Power Plant Engineering	
		20MEE02	Production and Operations Management	
		20MEE03	Entrepreneurship	
		20MEE04	Mechatronics and Automation	
		20MEC14	Fluid Principles and Hydraulic Machines Lab	
		20MEC15	Metal Cutting and Machine Tool Engineering 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 1	
	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 and Combustion		
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			
	B.E- Mechanical Engineering			

Program code	Program name	Course code	Course name	Year of offering the course
	B.E- Mechanical Engineering	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	
		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	
		18ME C22	Metrology and Instrumentation	
		18ME C23	Operations Research	
		18ME C24	Finite Element Analysis	
		18ME E21	Power Plant Engineering	
		18ME E22	Engineering Research Methodology	
		18ME E23	Data Analytics	
		18ME E24	Innovation and Intellectual Property Rights	
		18PE E12	Supply Chain Management	
		18IT O01	Object Oriented Programming using JAVA	
		18PY O01	History of Science & Technology	
		18EG O02	Gender Sensitization	
		18IT O03	Principles of Internet of Things	
		18CS O09	Basics of Artificial Intelligence	
		18ME C25	Metrology and Instrumentation Lab	
		18ME C26	Computer Aided Engineering Lab	
		18ME C27	Project: Part – 1	
		18EC O01	Remote Sensing and GIS	
		18MT O01	Decision Theory	
		18EE O03	Energy Auditing	
		18CS O04	Basics of Cyber Security	
		18EC O05	MEMS and its Applications	
		18EG O01	Technical Writing Skills	
18BT O01	Basics of Biology			
18CE O02	Disaster Mitigation and Management			
18EE O05	Waste Management			
18EC O07	Systems Automation & Control			
18ME C28	Technical Seminar			
18ME C29	Project Part - 2			
	onics 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	



Program code	Program name	Course code	Course name	Year of offering the course
734	B.E. - Electrical & Electr	20PY C09	Electromagnetic Theory and Quantum Mechanics Lab	2021-22
		20EE C02	Basic Electrical Engineering Lab	
		20ME C01	CAD and Drafting	
		20MB C02	Community Engagement	
		20EE C03	Core- 1: Electrical Circuit Analysis	
		20EE C04	Core- 2: Analog Electronic Circuits	
		20EE C05	Core- 3: Electrical Measurements and Instrumentation	
		20EE C06	Core- 4: Signals & Systems	
		20EE C07	AEC Lab	
		20EE C08	ECM Lab	
		20EEC09	Digital Electronics	
		20EEC10	Electrical Machines-I	
		20EEC11	Electromagnetic Fields	
		20EEC12	Power Electronics	
		20EEC13	Power Systems-I	
		20EEC14	Digital Electronics Lab	
		20EEC15	Electrical Machines-I Lab	
		20EEC16	Power Electronics Lab	
		18EEC14	Electrical Machines-II	
		18EEC15	Power Systems-II	
		18EEC16	Power Electronics	
	18EEE01	Wind and Solar Energy		
	18EEE02	Optimization Techniques		
	18EEE03	Electrical Engineering Materials		
	18EEE05	Simulation Techniques in Electrical Engineering		
	18EEE07	Industrial Electrical Systems		
	18EEE08	Electrical Estimation & Costing		
	18EEC17	Electrical Machines-II Lab		
	18EEC18	Power Systems-I Lab		
	18EEC19	Power Electronics Lab		
	18EEC20	Control Systems		
	18EEC21	Microprocessors and Microcontrollers		
	18EEC22	Power Systems Operation and Control		
	18EEE09	Power Quality		
	18EEE11	Electrical Distribution Systems		
	18EEE12	HVDC Transmission Systems		
	18EEE13	AI Techniques in Electrical Engineering		
	18EEE14	Electric Hybrid Vehicles		
	18EEO05	Waste Management		
	18EEC23	Control Systems Lab		
	18EEC24	Microprocessors Lab		
	18EEC25	Power System Protection		
	18EEC26	Electrical Drives		
18EEC27	Signals & Systems			
18EEE19	Electrical Machine Design			
18EEE20	High Voltage Engineering			
18EEO02	Energy Management Systems			
18EEO04	Energy Conservation			
18EEC28	Power Systems-II Lab			
18EEC29	Electrical Drives Lab			
18EEC30	Project: Part-1			
18EEE22	Digital Signal Processing			
18EEE23	Smart Grid			
	B.E. - Electrical & Electronics Engineering			

Program code	Program name	Course code	Course name	Year of offering the course
		18EEEC31	Technical Seminar	
		18EEEC32	Project: Part-2	
		18EEO05	Waste Management	
		18EEO03	Energy Auditing	
	B.E- Electronics & Communication Engineering	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	
		20EEEC01	Basic Electrical Engineering	
		20EGC02	English lab	
		20PYC09	Electromagnetic Theory and Quantum Mechanics Lab	
		20EEEC02	Basic Electrical Engineering Lab	
		20MEC01	CAD and Drafting	
		20MBC02	Community Engagement	
		20MTC07	Applied Mathematics	
		20CSC06	Basics of Data Structures	
		20ECC01	Electromagnetic Theory and Transmission Lines	
		20ECC02	Electronic Devices	
		20ECC03	Network Theory	
		20ECC04	Signals and Systems	
		20CEM01	Environmental Science	
		20CSC07	Basics of Data Structures Lab	
		20ECC05	Electronic Devices Lab	
		20ECC06	Electronic Workshop and Networks Lab	
		20ECI01	MOOCs/Training/Internship	
		20ECC07	Analog Circuits	
		20ECC08	Analog Communication	
		20ECC09	Antennas and Wave Propagation	
		20ECC10	Control Systems	
		20ECC11	Digital Systems Design	
		20EGC03	Universal Human Values2: Understanding Harmony	
		20EGM01	Indian Constitution and Fundamental Principles	
		20EGM02	Indian Traditional Knowledge	
		20ECC12	Analog Circuits Lab	
		20ECC13	Analog Communication Lab	
		20ECC14	Digital Systems Design Lab	
		18EC C15	Computer Architecture and Microprocessors	
		18EC C16	Digital Communication	
	18EC C17	Linear and Digital Integrated Circuits		
	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		



Program code	Program name	Course code	Course name	Year of offering the course
735	B.E- Electronics & Communication Engineering	18ME O07	Intellectual Property Rights	2021-22
		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	
		18EC C26	Computer Networks	
		18EC C27	VLSI Design	
		18EC E15	Cryptography and Blockchain Technology	
		18EC E16	DSP Processors and Architectures	
		18EC E17	Principles of Computational Electromagnetics	
		18EC E18	Semiconductor Memory Design and Testing	
		18EC E19	Speech Processing	
		18EC E20	CMOS RF IC Design	
		18EC E21	Digital Image Processing	
		18EC E22	Embedded Systems	
		18EC E23	Software Defined Radio	
		18EC E24	5G Communications	
		18CE O02	Disaster Mitigation and Management	
		18ME O04	Entrepreneurship	
		18CS O06	Fundamentals of DBMS	
		18IT O02	Python Programming	
		18EG O01	Technical Writing Skills	
		18EC C28	Computer Networks Lab	
18EC C29	Electronic Design and Automation Lab			
18EC C30	Electronics Measurement and Simulation Lab			
18EC C31	Project: Part A- 1			
18EC C32	Industrial Visit			
18EC E25	Applications of IoT in ECE			
18EC E26	Principles of GNSS			
18EC E27	Principles of Wireless Sensor Networks			
18EC E28	Real Time Operating Systems			
18CS O07	Basics of Cyber Security			
18EG O02	Gender Sensitization			
18PY O01	History of Science and Technology			
18CS O10	Machine Learning using Python			
18ME O01	Robotics			



Program code	Program name	Course code	Course name	Year of offering the course
		18EC C33	Technical Seminar	
		18EC C34	Project: Part- 2	
		20MT C01	Linear Algebra & Calculus	2021-22
		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	
		20EEC01	Basic Electrical Engineering	
		20ECC35	Basic Electronics	
		20CSC08	Data Structures	
		20CSC09	Discrete Mathematics	
		20CSC10	Digital Logic Design	
		20EGM02	Indian Traditional Knowledge	
		20EEC02	Basic Electrical Engineering Lab	
		20ECC36	Basic Electronics Lab	
		20CSC11	Data Structures Lab	
		20CSI01	MOOCs / Training / Internship	
		20ACT	Activity Points	
		20MTC13	Mathematical Foundation for Data Science & Security	
		20CSC12	Design and Analysis of Algorithms	
		20CSC13	Computer Architecture and Microprocessor	
		20CSC14	Data Base Management Systems	
		20CSC15	Internet & Web Technologies	
		20MBC01	Engineering Economics & Accountancy	
		20MTC14	Mathematical Foundation for Data Science & Security Lab	
		20CSC16	Design and Analysis of Algorithms Lab	
		20CSC17	Data Base Management Systems Lab	
		20CSC18	Internet & Web Technologies Lab	
		20ACT	Activity Points	
		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	



Program code	Program name	Course code	Course name	Year of offering the course
733	B.E- Computer Science & Engineering	18CSE02	GUI Programming	2021-22
		18CSE03	Image Processing	
		18CSE04	Mobile Application Development	
		18CSE XX	Decision Theory	
		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 Network	
		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	
		18BTO01	Basics of Biology	
18CSC28	Compiler Design			
18CSE XX	Professional Elective-IV			
18CSE XX	Professional Elective-V			
18XX OXX	Open Elective-II			
18CSC29	Compiler Design Lab			
18CSC30	Project : PART-1			
18CSE17	Data Science and Big Data Analytics			
18CSE18	Machine Learning			
18CSE19	Virtual Reality			
18CSE20	Cyber Security			
18CSE21	Software defined Networks			
18CSE22	Human Computer Interaction			
18CSE23	Neural Networks and Deep Learning			
18CSE24	Devops			
18CSE25	Nature Inspired Algorithms			
18ECO 01	Remote Sensing and GIS			
18ECO 03	Design of Fault Tolerant Systems			
18ECO 04	Basics of DSP			
18CEO 02	Disaster Mitigation and Management			
18EGO 01	Technical Writing Skills			
18CSE26	Data Science and Big data Analytics Lab			
18CSE27	Machine Learning Lab			
18CSE28	Virtual Reality Lab			
18CSE29	Cyber Security Lab			



Program code	Program name	Course code	Course name	Year of offering the course
		18CSE 30/31 /3	Professional Elective-VI	
		18XX O XX	Open Elective-III	
		18CSC31	Technical Seminar	
		18CSC32	Project : PART-2	
		18CSE30	Bioinformatics	
		18CSE31	Speech and Natural Language Processing	
		18CSE32	Social Networking and its Impact	
		18CSE33	Blockchain Technology	
		18PYO01	History of Science and Technology	
		18MEO01	Robotics	
		18MEO03	Research Methodologies	
		18MEO04	Entrepreneurship	
18MEO12	3D Printing			
748	Computer Science & Engineering (Artificial Intelligence and Machine Learning)	20MT C01	Linear Algebra & Calculus	2021-22
		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	
		20EEC01	Basic Electrical Engineering	
		20ECC35	Basic Electronics	
		20CSC08	Data Structures	
		20CSC09	Discrete Mathematics	
		20CSC10	Digital Logic Design	
		20CAC01	Fundamentals of Data Science	
		20EEC02	Basic Electrical Engineering Lab	
		20ECC36	Basic Electronics Lab	
		20CSC11	Data Structures Lab	
		20CAC02	Fundamentals of Data Science Lab	
		20CAI01	MOOCs / Training / Internship	
		20ACT	Activity Points	
		20MTC13	Mathematical Foundation for Data Science & Security	
		20CSC13	Computer Architecture and Microprocessor	
		20CSC14	Data Base Management System	
		20CSC15	Internet and Web Technologies	
20CAC03	Artificial Intelligence			
20MBC01	Engineering Economics & Accountancy			
20MTC14	Mathematical Foundation for Data Science & Security Lab			
20CSC17	Data Base Management Systems Lab			



Program code	Program name	Course code	Course name	Year of offering the course
	B.E.-	20CSC18	Internet and Web Technologies Lab	
		20ACT	Activity Points	
749	B.E.- Computer Science & Engineering (Internet of Things and Cyber Security Including Block Chain Technology)	20MT C01	Linear Algebra & Calculus	2021-22
		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	
		20EEC01	Basic Electrical Engineering	
		20ECC35	Basic Electronics	
		20CSC08	Data Structures	
		20CSC09	Discrete Mathematics	
		20CSC10	Digital Logic Design	
		20CIC01	Fundamentals of Cyber Security and Tools	
		20EEC02	Basic Electrical Engineering Lab	
		20CSC11	Data Structures Lab	
		20CIC02	Fundamentals of Cyber Security and Tools Lab	
		20CII01	MOOCs / Training / Internship	
		20ACT	Activity Points	
		20MTC13	Mathematical Foundation for Data Science & Security	
		20CSC13	Computer Architecture and Microprocessor	
		20CSC14	Data Base Management Systems	
		20CSC15	Internet & Web Technologies	
		20CSC36	Introduction to AI Tools, Techniques and Applications	
		20MBC01	Engineering Economics & Accountancy	
		20MTC14	Mathematical Foundation for Data Science & Security Lab	
		20CSC17	Data Base Management Systems Lab	
		20CSC18	Internet & Web Technologies Lab	
		20CSC37	Introduction to AI Tools, Techniques and Applications Lab	
20ACT	Activity Points			
770	ce and Machine Learning	20MT C01	Linear Algebra & Calculus	2021-22
		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	

Program code	Program name	Course code	Course name	Year of offering the course
	B.E- Artificial Intelligence	20MT C03	Differential Equations & Transform Theory	2021-22
		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	
	B.E- Information Technology	20MT C01	Linear Algebra & Calculus	2021-22
		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	
		20ITC06	Discrete Mathematics and Applications	
		20ITC07	Java Programming & Enterprise Frameworks	
		20ITC08	Database Management Systems	
		20EGM01	Indian Constitution and Fundamental Principles	
		20EGM02	Indian Traditional Knowledge	
		20ITC09	Java Programming & Enterprise Frameworks Lab	
		20ITC10	DBMS Lab	
		20ITC11	IT Workshop	
		20ITC12	Mini Project-1	
		20ITI01	MOOCs/Training/Internship	
		20MTC12	Probability and Queueing Theory	
		20ITC13	Software Engineering	
20ITC14	Automata Theory and Compiler Design			
20ITC15	Design and Analysis of Algorithms			
20MBC01	Engineering Economics & Accountancy			
20CEM01	Environmental Science			
20ITC16	Software Engineering Lab			
20ITC17	Design and Analysis of Algorithms Lab			
20ADC03	Artificial Intelligence & Machine Learning Tools, Techniques and Applications			
20ITC18	Mini Project – II			



Program code	Program name	Course code	Course name	Year of offering the course
	B.E- Information Technology	20ITE01	Digital Image Processing	
		20ITE02	Mobile Application Development with Android and Kotlin	
		20ADE01	Data Analysis and Visualization	
		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 E01	Data Warehousing and Data Mining	
		18IT E04	UNIX and Shell Programming	
		18IT E05	Predictive Analytics with 'R'	
		18IT E06	Web Technologies	
		18IT C22	Artificial Intelligence	
		18IT C23	Information Security	
		18IT E09	Social Media Analytics	
		18IT E12	Mobile Commerce	
		18IT E13	Data Science with Python	
		18IT E16	Cyber Security	
		18MB C01	Engineering Economics and Accountancy	
		18EG O02	Gender Sensitization	
		18EE M01	Indian Traditional Knowledge	
		18IT C24	Artificial Intelligence Lab	
		18IT C25	Information Security Lab	
		18IT C26	Mini Project - IV	
		18IT C27	Big Data Analytics	
		18IT C28	Embedded Systems	
		18IT C29	Internet of Things	
		18IT C30	Distributed Systems	
		18IT E17	Cloud Computing	
		18IT C31	Big Data Analytics Lab	
		18IT C32	Embedded Systems and IoT Lab	
		18IT C33	Distributed Systems Lab	
		18IT C34	Project Part - 1	
		18IT E20	Block Chain Technology	
	18ME O07	Intellectual Property Rights		
	18ME O04	Entrepreneurship		
	18EG O01	Technical Writing Skills		
	18IT C35	Technical Seminar		
	18IT C36	Project Part - 2		
		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	



Program code	Program name	Course code	Course name	Year of offering the course
771	B.E- Artificial Intelligence and Data Science	20CY C01	Chemistry	2021-22
		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	
		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	
		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	
		18PE E04	Non Destructive Testing and Evaluation	
		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			



Program code	Program name	Course code	Course name	Year of offering the course
738	B.E. - Production Engineering	18ME C18	Machine Design	2021-22
		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	
		18ME C22	Metrology and Instrumentation	
		18ME C23	Operations Research	
		18PE C11	Additive Manufacturing Technologies	
		18ME E21	Power Plant Engineering	
		18ME E22	Engineering Research Methodology	
		18ME E23	Data Analytics	
		18ME E24	Innovation and Intellectual Property Rights	
		18PE E12	Supply Chain Management	
		18IT O01	Object Oriented Programming using JAVA	
		18PY O01	History of Science & Technology	
		18EG O02	Gender Sensitization	
		18IT O03	Principles of Internet of Things	
		18CS O09	Basics of Artificial Intelligence	
		18ME C25	Metrology and Instrumentation Lab	
		18PE C12	Additive Manufacturing Lab	
		18PE C13	Project: Part - 1	
		18EC O01	Remote Sensing and GIS	
		18MT O01	Applied Operations Research	
		18EE O03	Energy Auditing	
		18CS O04	Basics of Cyber Security	
		18EC O05	MEMS and its Applications	
		18EG O01	Technical Writing Skills	
		18BT O01	Basics of Biology	
18CE O02	Disaster Mitigation and Management			
18EE O05	Waste Management			
18EC O07	Systems Automation & Control			
18PE C14	Project)			
18PE C15	Project Part - 2			
		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	



Program code	Program name	Course code	Course name	Year of offering the course
802	B.Tech. - Chemical Engineering	20MEC02	Workshop/ Manufacturing Practice	2021-22
		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	
		20MTC08	Mathematics III(PDE & S)	
		20CSC06	Basics of Data Structures	
		20CHC01	Chemical Engineering Thermodynamics I	
		20CHC02	Fluid Mechanics	
		20CHC03	Material and Energy Balance Calculations	
		20CHC04	Mechanical Unit Operations	
		20CSC07	Basics of Data Structures Lab	
		20CHC05	Fluid Mechanics Lab	
		20CHC06	Mechanical Unit Operations Lab	
		20CHI01	Internship	
		20CHC07	Chemical Reaction Engineering I	
		20CHC08	Chemical Technology	
		20CHC09	Heat Transfer	
		20CHC10	Mass Transfer Operations I	
		20EGM01	Indian Constitution & Fundamental Principles	
		20EEM01	Indian Traditional Knowledge	
		20CEM01	Environmental Science	
		20CHE01	Energy Engineering	
		20CHE02	Food Processing Technology	
		20CHE03	Material Science for Chemical Engineers	
		20CHE04	Pulp and Paper Technology	
		20CHC11	Chemical Reaction Engineering Lab	
		20CHC12	Heat Transfer 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			



Program code	Program name	Course code	Course name	Year of offering the course
	B.Tech. - Chemical	18CH E 11	Pulp and Paper Technology	
		18CH E 12	Food Technology	
		18EE O 05	Waste Management	
		18ME O 04	Entrepreneurship	
		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	
		18CH C 21	Transport Phenomena	
		18CH C 22	Process Technology and Economics	
		18CH C 23	Process Instrumentation	
		18CH E 13	Mineral Processing Technology	
		18CH E 14	Corrosion Engineering	
		18CH E 15	Scale-up Methods	
		18ME O 11	Modern Manufacturing Processes	
		18EE O 02	Energy Management Systems	
		18ME O 03	Research Methodologies	
		18CE O 02	Disaster Mitigation and Management	
		18CS O 10	Machine Learning using Python	
		18CH C 24	Process Instrumentation and Control Lab	
		18CH C 25	Process Modeling and Simulation Lab	
		18CH C 26	Project: Part I	
		18CH E 16	Chemical Process Safety	
		18CH E 17	Fertilizer Technology	
		18CH E 18	Chemical Process Synthesis	
		18PYO 01	Histories of Science and Technology	
18EG O 02	Gender Sensitization			
18EG O 01	Technical writing skills			
18CSO 03	IoT and Applications			
18CSO 04	Basics of Data Science using R			
18CH C 27	Technical Seminar			
	B.Tech. - Biotechnology	20MT C21/ 20E	20MT C21/ 20BT C01 Mathematics-I/ Basics of Biology-I	
		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/ 20E	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	
		20CSC34	OOPS using Python	
		20BTC04	20BTC04 Biochemistry	
		20BTC05	Microbiology	
		20BTC06	Thermodynamics for Biotechnologists	



Program code	Program name	Course code	Course name	Year of offering the course
805	B.Tech. - Biotechnology	20BTC07	Cell and Molecular Biology	2021-22
		20BTC08	Genetics	
		20EGM01 I	Indian Constitution and Fundamental Principles	
		20CSC35	OOPS using Python Lab	
		20BTC09	Biochemistry Lab	
		20BTC10	Microbiology Lab	
		20BTI01	MOOCs/Training/ Internship I	
		20MTC23	20MTC23 Engineering Mathematics for Biotechnologists	
		20BTC12	Bioprocess Engineering	
		20BTC13	Immunology & Immunotechnology	
		20BTC14	Instrumental Methods in Biotechnology	
		20EGM03	Universal Human ValuesII: Understanding Harmony	
		20CEM01	Environmental Science	
		20BTC15	Bioprocess Engineering Lab	
		20BTC16	Immunology Lab	
		20BTC17	Instrumentation 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 Humans	
		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 Clinica	
		18BT E13	Nanobiotechnology	
18MT O01B	Numerical Methods			
18EC O02	Biomedical Instrumentation			
18ME O03	Research Methodologies			
18BT C26	Downstream Processing			
18BT C27	Plant Biotechnology			
18MT C08	Biostatistics			
18BT C28	Downstream Processing Lab			
18BT C29	Tissue Culture Lab			
18BT C30	Project Part 1			
18BT E14	Animal Biotechnology			
18BT E15	Cancer Biology			
18BT E16	Computer Applications in Bioprocess			



Program code	Program name	Course code	Course name	Year of offering the course
		18BT E17	Principles of data analytics	
		18 CS O13	Block chain technologies	
		18CS O04	Basics of Data Science Using R	
		18EG O01	Technical Writing	
		18BT C31	Technical Seminar (On the latest trends and other than proje	
		18BT C32	Project Part II	
		18BT E18	Tissue Engineering	
		18BT E19	Immunodiagnostics	
		18BT E20	Genomics and Proteomics	
		18ME O04	Entrepreneurship	
		18CS O08	Open Source Technology	
		18CS O01	Python for Bioinformatics	
PG COURSES				
672	MBA (Master of Business Administration)	20MBC101	Management and Organization Behaviour	2021-22
		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 Marketin	
		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			



Program code	Program name	Course code	Course name	Year of offering the course
		20MBE405	Consumer Behaviour	
		20MBE406	Services and Retail Marketing	
		20MBE407	Machine Learning and Artificial Intelligence	
		20MBE408	Cloud Computing	
		20MBE409	E-Commerce Logistics	
		20MBE410	International Logistics	
862	MCA (Master of Computer Applications)	20MCC101	Computer Programming using 'C'	2021-22
		20MCC102	Computer Organization and Architecture	
		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	
		20MCE104	Software Project Management	
		20MCC111	Data Structures Lab using C++	
		20MCC112	Object Oriented Programming Lab using Java	
		20MCC113	Database Management Systems Lab	
		20MCC114	Data Communications and Computer Networks	
		20MCC115	Data Science and Machine Learning	
		20MCC116	Operating Systems	
		20MCC117	Web Technologies	
		20MCE105	Cloud Computing	
		20MCA101	Intellectual Property Rights and Professional Ethics	
		20MCC118	Object Oriented System Development Lab	
		20MCC119	Machine Learning Lab using Python	
		20MCC120	Web Technologies Lab	
		20MCE109	Cyber Security	
		20MCE112	Deep Learning	
		20MCE115	Internet of Things	
		20MCE116	Natural Language Processing	
		20MCC121	Major Project Work	
		16MCC126	Object Oriented System Development(OOSD)	
16MCC127	Machine Learning			
16MCC128	Cryptography & Network Security			
16MCE110	Internet of Things			
16MCE111	Business Intelligence and Analytics			
16MCE113	Big Data Analytics			



Program code	Program name	Course code	Course name	Year of offering the course
		16MC E114	E-Commerce	
		16MCC129	Object Oriented System Development Lab	
		16MCC130	Machine Learning Lab using Python	
		16MCC131	Seminar	
		16MCC132	Major Project Work	
741	ME – Structural Engineering (CIVIL)	20CE C101	Structural Dynamics	2021-22
		20CE C102	Finite Element Method in Structural Engineering	
		20CE E102	Advanced Structural Analysis	
		20CE E104	Structural Health Monitoring	
		20ME103	Research Methodology and IPR	
		20EG A101	English for Research Paper Writing	
		20CE C103	Structural Design Lab	
		20CE C104	Advanced Concrete Lab	
		20CE C105	Design of High Rise Structure	
		20CE C106	Advanced Solid Mechanics	
		20CE E107	Repair and Retrofitting of Structure	
		20CE E109	Design of Advanced Concrete Structure	
		20CE A101	Disaster Mitigation and Management	
		20CE C107	Modal Testing Lab	
		20CE C108	Numerical Analysis Lab	
		20CE C109	Mini Project and Seminar	
		20CEE115	Design of Bridges	
		20CS O101	Business Analytics	
		20EE O103	Waste to Energy	
765	ME – CAD / CAM (MECH)	20ME C101	Computer Aided Modeling and Design	2021-22
		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	
		20ME E112	Advanced Finite Element Method	
		20ME E113	Digital Manufacturing and Design	
		20EE O101	Waste to Energy	
		20ME E114	Theory of Elasticity and Plasticity	
		20CE O101	Cost Management of Engineering Projects	
		20MEC 110	Industrial Project / Dissertation Phase - I	
		20ME C111	Dissertation Phase - II	
		20CSC 101	Mathematical Foundations Of Computer Science	
		20CSC 102	Advanced Data Structures	
		20CSE101	Machine Learning Elective-I	



Program code	Program name	Course code	Course name	Year of offering the course
742-001	M.TECH – CSE	20CSE102	Internet Of Things Elective-I	2021-22
		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	
		20CSE118	Digital Forensics Elective-IV	
		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 Engagement	
		20CSO 101	Business Analytics (Open Elective)	
		20MEO 101	Industrial Safety (Open Elective)	
		20MEO102	Introduction To Optimization Techniques (Open Elective)	
		20CEO101	Cost Management Of Engineering Projects (Open Elective)	
		20MEO103	Composite Materials (Open Elective)	
		20EEO 101	Waste To Energy (Open Elective)	
		20PYO101	History Of Science And Technology (Open Elective)	
		20CSC 107	Mini Project With Seminar	
		20CSC 108	Dissertation Phase-I	
		20CSC 109	Dissertation Phase-II	
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			



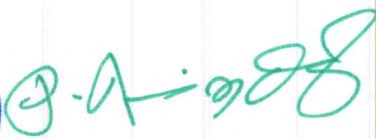
Program code	Program name	Course code	Course name	Year of offering the course
744-001	ME – Communication Engineering (ECE)	20ME M103	Research Methodology and IPR	2021-22
		20CE A101	Disaster Management	
		20EG A101	English for Research Paper Writing	
		20EG A102	Indian Constitution and Fundamental Rights	
		20IT A101	Pedagogy Studies	
		20EG A104	Personality Development through Life Enlightenment Skills	
		20EE A101	Sanskrit for Technical Knowledge	
		20EG A103	Stress Management by Yoga	
		20EC A101	Value Education	
		20EC C106	Advanced Digital Signal Processing Lab	
		20EC C108	Wireless and Mobile Communication Lab	
		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 Skills	
		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	
		20EC E104	High Performance Networks	
		20EC E108	MIMO Wireless Communications	
		20EC E114	Wireless Sensor Networks	
		20CS O101	Business Analytics	
		20ME O103	Composite Materials	
		20CE O101	Cost Management of Engineering Projects	
		20ME O101	Industrial Safety	
		20ME O102	Introduction to Optimization Techniques	
		20EE O101	Waste to Energy	
		20EC C110	Industrial Project /Dissertation Phase I	
		20EC C111	Industrial Project /Dissertation Phase II	
766	Power System & Power Electronics	20EEEC101	Real Time Applications for Power Systems	2021-22
		20EEEC102	Power Electronic Converters	
		20EEEE108	Artificial Intelligence Techniques for Power Systems	
		20EEEE110	Power Quality	
		20MEEC103	Research Methodology and IPR	
		20EGA 101	English for Research Paper Writing	
		20EEEC105	Power System Dynamics	
		20EEEC106	Advanced Power Electronic Circuits	
		20EEEE107	Renewable Energy System	
		20EEEE113	Energy Auditing & Management	
		20EEEC107	Power Electronics Lab	
		20EEEC108	Power Systems Simulation Lab	

Program code	Program name	Course code	Course name	Year of offering the course	
744-401	M.E. - Pow	20EEC109	Mini Project with Seminar	2021-22	
		20EEE116	Electric and Hybrid Vehicles		
		20MEO102	Introduction to Optimization Techniques		
		20EEC110	Dissertation Phase-I		
		20EEC111	Dissertation Phase-II		
	ME-EMBEDDED SYSTEMS AND VLSI DESIGN (ECE)		20ECC201		Analog and Digital CMOS VLSI Design
			20ECC203		Microcontrollers and Programmable Digital Signal Process
			20EC E201		Advanced Computer Organization
			20EC E202		Communication Buses and Interfaces
			20EC E203		Data Acquisition System Design
			20EC E208		Programming Languages for Embedded Software
			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 Skills
			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 Process		
		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 Skills		
		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		
		20EC E204	FPGA & CPLD Architectures		
		20EC E211	System Design with Embedded Linux		
	20ECE114	Wireless Sensor Networks			
	20CS O101	Business Analytics			
	20ME O103	Composite Materials			
	20CE O101	Cost Management of Engineering Projects			
	20ME O101	Industrial Safety			
	20ME O102	Introduction to Optimization Techniques			
	20EE O101	Waste to Energy			
	20ECC210	Industrial Project /Dissertation Phase I			



Program code	Program name	Course code	Course name	Year of offering the course
745	ME- THERMAL ENGINEERING (MECH)	20ME C201	Thermodynamics and Combustion	2021-22
		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	
		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 Skills	
		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 Skills			
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			




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