



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: 2019-20

INDEX

S. No.	Particulars	Page Numbers
1.	Number of Courses in all Programs Year-Wise for the Academic Year: 2019-20	2-18

List of courses offered across all programs during 2019-20

Program code	Program name	Course code	Course name	Year of offering the course
732	B.E- Civil Engineering	18MT C01	Mathematics-I	2019-20
		18PY C03	Introduction to Mechanics and Electromagnetic Theory	
		18CS C01	Programming for Problem Solving	
		18EG C01	English	
		18PY C06	Mechanics and Electromagnetic Lab	
		18CS C02	Programming for Problem Solving Lab	
		18ME C02	Workshop/Manufacturing Practice	
		18EG C02	English Lab	
		18MT C03	Mathematics-II	
		18CY C01	Chemistry	
		18CE C01	Engineering Mechanics	
		18ME C01	Engineering Graphics and Design	
		18EE C01	Basic Electrical Engineering	
		18EE C02	Basic Electrical Engineering Lab	
		18CY C02	Chemistry Lab	
		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	
		16CE C18	Reinforced Concrete Design-I	
		16CE C19	Soil Mechanics	
		16CE C20	Theory of structures-I	
		16CE C21	Concrete Technology	
		16CE C22	Fluid Mechanics-II	
		16CE C23	Fluid Mechanics Lab	
		16CE C24	Environmental Engineering Lab	
		16CE C25	Concrete Laboratory	
		16CE E01	Rock Mechanics	
		16CE E02	Advanced Surveying	
		16CE E03	Advanced Strength of Materials	
		16CE C 26	Theory of Structures-II	
		16CE C27	Reinforced Concrete Design-II	
		16CE C28	Water Resources Engineering-I	
		16CE C29	Foundation Engineering	
		16CE C30	Soil Mechanics Laboratory	
		16CE C31	Hydraulics and Hydraulic Machinery Lab	
16CE C32	Transportation Engineering Lab			
16CE E04	Finite Element Method			
16CE E05	GIS and Remote Sensing			
16CE E06	Artificial Neural Networks, Fuzzy Logic and Expert Systems			
16CE C33	Industrial Visit			
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
18MTC01	Mathematics -I
18PYC03	Introduction To Mechanics And Electromagnetic Theory
18CSC01	Programming for Problem Solving
18EGC01	English
18PYC06	Mechanics And Electromagnetic Lab
18CSC02	Programming for Problem Solving Lab
18MEC02	Workshop/Manufacturing Practice
18EGC02	English Lab
18MTC03	Mathematics -II
18CYC01	Chemistry
18CEC01	Engineering Mechanics
18MEC01N	Engineering Graphics and Design Lab
18EEC01	Basic Electrical Engineering
18EEC02	Basic Electrical Engineering Lab
18CYC02	Chemistry Lab
18MTC05	Mathematics -III
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
16ME C20	Dynamics of Machines
16ME C21	Applied Thermodynamics & Heat Transfer
16ME C22	Design of Machine Elements
16ME E01	Refrigeration and Air Conditioning
16ME E02	Mechanical Vibrations
16PE E02	Product Design and Process Planning
16PE E05	Principles of Industrial Engineering
16ME E03	Fuels, Combustion and Environment
16PE E03	Non Destructive Testing and Evaluation
16PE E04	Plastics, Ceramics and Composite Materials
16MT E04	Probability and Numerical Methods
16ME C23	Dynamics & Vibrations Lab
16ME C24	Applied Thermodynamics & Heat Transfer Lab
16EE C22	Electrical Machines & Microcontroller Applications Lab
16ME C25	Industrial Visit

B.E- Mechanical Engineering



B. E.- Mechanical Engineering

16ME C26	CAD and CAM
16ME C27	Metal Cutting and Machine Tool Engineering
16ME C28	Thermal Turbo Machines
16ME C29	Machine Design
16ME E05	Advanced IC Engines
16ME E06	Computational Fluid Dynamics
16ME E07	Automobile Engineering
16PE E10	Digital Manufacturing
16ME E08	Heat and Mass Transfer
16ME E09	Object Oriented Programming With C++
16PE E08	Modern Machining and Forming Methods
16PE E09	Surface Engineering
16ME C30	CAD and CAM Lab
16ME C31	Metal Cutting and Machine Tool Engineering Lab
16ME C32	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
18MTC01	Mathematics -I
18PYC04	Waves, Optics and Introduction To Quantum Mechanics
18CSC01	Programming for Problem Solving
18EGC01	English
18PYC07	Waves and Optics Laboratory
18CSC02	Programming and Problem Solving Lab
18MEC02	Workshop/Manufacturing Practice
18EGC02	English Lab
18MTC03	Mathematics -II
18CYC01	Chemistry
18CEC01	Engineering Mechanics
18MEC01	Engineering Graphics and Design
18EEC01	Basic Electrical Engineering
18EEC02	Basic Electrical Engineering Lab
18CYC02	Chemistry Lab
18MTC07	Applied mathematics
18EEC03	Analog Electronic Circuits
18EEC04	Electrical Measurements and Instrumentation
18EEC05	Electromagnetic Fields
18EEC06	Electrical Circuit Analysis
18EGM01	Indian constitution
18EEM01	Indian Traditional Knowledge
18EEC07	Analog Electronic Circuits Lab
18EEC08	Electrical Measurements and Instrumentation Lab



18CSC05	Basics of Data Structures
18EEC09	Digital Electronics
18EEC10	Electrical Machines-1
18EEC11	Power Systems-I
18ME C09	Principles of Management
18CEM01	Environmental Science
18CSC06	Basics of Data Structures lab
18EEC12	Digital Electronics Lab
18EEC13	Electrical Machines-1 Lab
16EEC15	Power Systems – II
16EEC16	Electrical Machinery – II
16EEC17	Power Electronics
16EEC18	Linear Control Systems
16EE E01	Non Conventional Energy Sources
16MT E01	Statistical and Numerical Methods
16EEC19	Electrical Machinery – II Lab
16EEC20	Power Electronics Lab
16EEC21	Linear Control Systems Lab
16EEC23	Electrical Machinery – III
16EEC24	Switchgear and Protection
16EEC25	Power Semiconductor Drives
16EEC26	Microprocessor and Microcontrollers
16EEE06	Artificial Intelligence Techniques in Electrical
16EEE08	Optimization Techniques
16EEE11	High Voltage DC Transmission
16EEE12	Simulation Techniques for Electrical Engineering
16EEC27	Microprocessor and Microcontrollers Lab
16EEC28	Power Systems Lab
16EEC29	Mini Project
16EE C31	Power System Operation and control
16EE C32	Utilization of Electrical Energy
16EE C33	DSP and Embedded Systems
16EEE15	Computer methods in power systems
16EEE16	Power Quality Engineering
16EEE17	Special Electrical Machines
16CE O02	Disaster Mitigation and Management
16CS O10	Machine Learning Using Phyton
16ME O01	Entrepreneurship
16EE C34	Power Systems Simulation Lab
16EE C35	Digital Signal Processor and Embedded Systems Lab
16EE C36	Project Seminar
16EE E19	Flexible AC Transmission Systems(FACTS)
16EE E25	Electrical Estimation and Costing(EEC)
16EG O01	Technical Writing Skills
16 ME O08	Industrial Administration and Financial Management
16EE C37	Seminar
16EE C38	Project
18MT C01	Mathematics-I
18CY C01	Chemistry
18CE C01	Engineering Mechanics
18ME C01	Engineering Graphics and Design
18EE C01	Basic Electrical Engineering
18EE C02	Basic Electrical Engineering Lab
18CY C02	Chemistry laboratory
18MT C02	Mathematics-II
18PY C01	Optics and Semiconductor Physics
18CS C01	Programming for problem Solving
18EG C01	English
18PY C02	Optics and Semiconductor Physics Laboratory
18CS C02	Programming for problem Solving Lab
18ME C02	Workshop/Manufacturing Practise
18EG C02	English Lab
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
16EC C18	Digital Communication
16EC C19	Integrated Circuits and Applications
16EC C20	Microprocessors and Microcontrollers
16EC C21	Control Systems
16EC E01	Computer Organization and Architecture
16EC E02	Engineering Material Science
16EE E04	Electrical Technology
16EE E13	Industrial Electronics
16ECC22	Digital Communication Lab
16ECC23	Integrated Circuits and Applications Lab
16EC C24	Microprocessors and Microcontrollers Lab
16EC C25	Embedded System Design
16EC C26	Digital Signal Processing
16EC C27	Microwave Engineering
16EC C28	Wireless Mobile Communication
16EC E03	Analog and Mixed Signal Design
16EC E04	Coding Theory and Techniques
16IT E27	Data Structures
16MT E03	Numerical methods for Scientific and Engineering Computation
16IT E25	Java Programming
16IT E26	Python Programming
16EC E05	CPLD and FPGA Architectures
16EC E06	Digital Control Systems
16EC E07	Optical Fiber Communication
16EC C29	Embedded System Design Lab
16EC C30	Digital Signal Processing Lab
16EC C31	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 001	Entrepreneurship
16EG 002	Gender Sensitization
16PY 001	History of Science and Technology
16ME 002	Robotics
16CE 002	Disaster Mitigation and Management
16CS 006	Fundamentals of DBMS

16ME 004	Intellectual Property Rights
16CS 005	Fundamentals of Virtual Reality
16EG 001	Technical Writing Skills
16EC C39	Seminar
16EC C40	Project
18MT C01	Mathematics -I
18CY C01	Chemistry
18CEC01N*	Engineering Mechanics
18CS C01	Programming for Problem Solving
18MEC01N*	Engineering Graphics and Design
18CS C02	Programming for Problem Solving Lab
18CY C02	Chemistry Lab
18MT C03	Mathematics -II
18PY C01	Optics and Semiconductor Physics
18CS C03	Object-Oriented Programming
18EG C01	English
18PY C02	Optics and Semiconductor Physics Laboratory
18CS C04	Object-Oriented Programming Lab
18ME C02	Workshop/ Manufacturing Practice
18EG C02	English Lab
18EEC01	Basic Electrical Engineering
18CSC07	Basic Electrical Engineering
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
18CSC11	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)
16CSC17	Design and Analysis of Algorithms
16CSC18	Automata Languages and Computation
16CSC19	Operating Systems
16CSC20	Data Communication and Computer Networks
16CSC21	Software Engineering
16CSE 04/05/06	Elective - II
16CSC22	Operating Systems Lab
16CSC23	Data Communication and Computer Networks Lab
16CSC24	Data Communication and Computer Networks Lab
16CSC25	Compiler Construction
16CSC26	Artificial Intelligence
16CSC27	Mobile Computing
16CSC28	Information and Network Security
16CSC29	Internet of Things
16CSE 07/08/09	Elective-III
16CSC30	Information and Network security Lab
16CSC31	Internet of Things Lab
16CSC32	Mini Project-II
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	ML Lab
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
16CSC 40	Seminar
16CSC 41	Project

18CSC01	Programming and Problem solving
18CSC02	Programming and Problem solving lab
18ITC01	OOP through C++
18ITC02	OOP through C++ lab
18ITC04	Data Structures and Algorithms
18ITC05	Discrete Mathematics and Applications
18ECC34	Basic Electronics
18MEC09	Principles of Management
18EEC01	Basic Electrical Engineering
18CEM01	Environmental Science
18ITC06	Data Structures and Algorithms Lab
18ITC08	Mini Project-I
18ECC35	Basic Electronics Lab
18EGC03	Soft Skills
18EEC02	Basic Electrical Engineering Lab
16ITC16	Principles of Operating Systems
16ITC17	Database Systems
16ITC18	Software Engineering
16ITC19	Web Technology
16ITC20	Theory of Automata
16ITE01	Python Programming
16ITE02	Unix and Shell Programming
16ITE03	Scripting Languages
16ITC31	Embedded Systems and Internet of Things
16ITC32	Distributed Systems
16ITC33	Information Security
16ITC34	Big Data Analytics
16ITE10	Human Computer Interaction
16ITE13	Natural Language Processing(L-303)
16ITE15	Business Intelligence
16ITC35	Big Data Analytics Lab
16ITC36	Embedded Systems and Internet of Things Lab
16ITC37	Project Seminar
18ITC03	Digital Logic And Computer Architecture
18ITC09	Data Base Management Systems
18ITC10	Java Programming
18ITC11	Design and Analysis of Algorithms
18MTC09	Probability and Statistics
18EGM01	Indian Constitution
18ITC07	IT WORKSHOP
18ITC12	Data Base Systems Lab
18ITC 13	Java Programming Lab
18ITC14	Mini Project Lab - II
16ITC24	Computer Networks & Socket Programming
16ITC25	Data Ware housing &Data Mining
16ITC26	Artificial Intelligence
16ITC27	Principals of Compiler Design
16ITE06	OOSD using UML
16ITE07	Digital Image Processing (L-303)/
16ITE08	Information Retrieval Systems

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B.E- Information Technology

2019-20



16ITE09	E-Commerce
16ITC28	Network Programming Lab
16ITC29	Data Mining Lab
16ITC30	Mini Project Lab - IV
16ITE17	Social Media Analytics
16ME006	Research methodologies
16ME007	Introduction to Operations research
16EG002	General Sensitization
16CE002	Disaster Mitigation and Management
16ME001	Entrepreneurship
16ITC38	Seminars
16ITC39	Project
19MTC101	Computational Number Theory
19ITC101	Cryptography and Network Security
19ITE106	Ethical hacking
19ITE113	Data Science
19MEC103	Research methodology and IPR
19ITC104	Cryptography and Network Security LAB
19ITE119	Data Science Lab
19ITC101	Cryptography & Network security
19ITC102	Adhoc Sensor networks
19ITE101	Biometric Security
19ITE113	Data Science
19ITC104	Cryptography and Network Security LAB
19ITE119	Data Science Lab
19ITC106	MP LAB with Seminars
18MTC01	Mathematics -I
18PYC03	Introduction To Mechanics And Electromagnetic Theory
18CSC01	Programming for Problem Solving
18EGC01	English
18PYC06	Mechanics And Electromagnetic Lab
18CSC02	Programming for Problem Solving Lab
18MEC02	Workshop/Manufacturing Practice
18EGC02	English Lab
18MTC03	Mathematics -II
18CYC01	Chemistry
18CEC01	Engineering Mechanics
18MEC01	Engineering Graphics and Design
18EEC01	Basic Electrical Engineering
18EEC02	Basic Electrical Engineering Lab
18CYC02	Chemistry Lab
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
16ME C20	Dynamics of Machines
16ME C21	Applied Thermodynamics & Heat Transfer
16ME C22	Design of Machine Elements
16ME E01	Refrigeration and Air Conditioning
16ME E02	Mechanical Vibrations
16PE E02	Product Design and Process Planning
16PE E01	Powder Processing



16ME E04	Hydraulic Machines
16PE E03	Non Destructive Testing and Evaluation
16PE E04	Plastics, Ceramics and Composite Materials
16MT E04	Probability and Numerical Methods
16ME C23	Dynamics & Vibrations Lab
16ME C24	Applied Thermodynamics & Heat Transfer Lab
16EE C22	Electrical Machines & Microcontroller Applications Lab
16PE C05	Industrial Visit
16ME C26	CAD and CAM
16PE C06	Machine Tool Engineering
16PE C07	Additive Manufacturing
16ME C29	Machine Design
16PE E06	Work System Design
16ME E06	Computational Fluid Dynamics
16ME E07	Automobile Engineering
16PE E07	Quality and Reliability Engineering
16ME E10	Turbo Machines
16ME E09	Object Oriented Programming With C++
16PE E08	Modern Machining and Forming Methods
16PE E09	Surface Engineering
16ME C30	CAD and CAM Lab
16PE C08	Machine Tool Engineering Lab
16PE C09	Additive Manufacturing 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
18MT C 01	Engineering Mathematics - I
18PY C 05	Physics
18CS C 01	Programming for problem solving
18EG C 01	English
18PY C 08	Physics Lab
18CS C 02	Programming for Problem Solving Lab
18ME C 02	Workshop/ Manufacturing Practice
18EG C 02	English Lab
18MT C 03	Mathematics - II
18CY C 01	Chemistry
18CE C 01	Engineering Mechanics
18ME C 01	Engineering Graphics and Design
18EE C 01	Basic Electrical Engineering
18EE C 02	Basic Electrical Engineering Lab
18CY C 02	Chemistry Lab
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
16CH C 11	Chemical Reaction Engineering - II
16CH C 12	Mass Transfer Operations - I
16CH C 13	Process Instrumentation
16CH E 02	Surface Coating Technology
16CH E 03	Technology of Vegetable Oils and Fats
16CH E 04	Corrosion Engineering
16CH E 05	Mineral Processing Technology
16CH C 14	Mechanical Unit Operations Lab
16CH C 15	Process Heat Transfer Laboratory
16CH E 06	Surface Coating Technology Lab
16CH E 07	Technology Of Vegetable Oils And Fats Lab.
16CH C 16	Bio Chemical Engineering
16CH C 17	Chemical Engineering Thermodynamics - II
16CH C 18	Chemical Process Safety
16CH C 19	Process Dynamics and Control
16CH C 20	Process Modeling Simulation And Optimization
16CH E 08	Energy Engineering.
16CH E 09	Fluidization Engineering
16CH E 10	Pharmaceutical Technology
16CH C 21	Chemical Reaction Engineering Laboratory
16CH C 22	Process Dynamics And Control Laboratory
16CH C 23	Process Modeling Simulation Laboratory
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
18MT C02 / 18	Engg. Mathematics - I/ Basics of Biology-
18PY C05	Physics
18CS C01	Programming for Problem Solving
18EG C01	English
18PY C08	Physics Lab
18CS C02	Programming for Problem Solving Lab -

18ME C02	Workshop/ Manufacturing Practice
18EG C02	English Lab
18MT C04/ 18E	Engg. Mathematics -II/ Basics of Biology-II
18CY C01	Chemistry
18CE C01	Engineering Mechanics
18ME C01	Engineering Graphics and Design
18EE C01	Basic Electrical Engineering
18EE C02	Basic Electrical Engineering Lab
18CY C02	Chemistry Lab
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
18BT C08	Biochemistry Lab
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
16MT C08	Biostatistics
16BT C19	Fluid Mechanics and Heat Transfer
16BT C20	Protein Engineering and Enzyme Technology
16BT C21	Genetic Engineering and rDNA Technology
16BT E22	Environmental Biotechnology
16BT E23	Food Biotechnology
16MT E02	Computational Numerical Methods
18CS E02	Python for Bioinformatics
16BT E24	Virology
16BT E25	Metabolic Engineering
16BT C26	Fluid Mechanics and Heat Transfer Lab
16BT C27	Enzyme Technology Lab
16BT C28	Genetic Engineering Lab
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 & Clinical Trials
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
16EG O01	Technical Writing Skills
16CS O03	IOT and Applications
16CS O04	Basics of Data Science Using R
16ME O01	Entrepreneurship
16BT C55	Seminar
16BT C56	Project

PG COURSES

19MB C101	Management and Organization Behaviour
19MB C102	Managerial Economics
19MB C103	Financial Accounting for Management

19MB C104	Marketing Management
19MB C105	Statistics for Management
19MB C106	Digital Technology
19MB C107	Business Communication Lab
19MB C108	Statistics Lab
19MB O101	Business Environment
19MB O102	Corporate Social Responsibility
19MB O103	Business Law and Ethics
19MB C109	Human Resource Management
19MB C110	Financial Management
19MB C111	Business Research Methods
19MB C112	Operations Research
19MB C113	Operations Management
19MB C114	Business Analytics
19MB C115	Logistics and Supply Chain Management
19MB C116	Comprehensive Viva
19MB O104	E-Business
19MB O105	Banking Management
19MB O106	Customer Relationship Management
19MBSD01	Personality Development
19MBC117	Strategic Management
19MBE101	Investment Management
19MBE102	Financial Markets and Services
19MBE103	Performance and Compensation Management
19MBE104	Training and Development
19MBE105	Product and Brand Management
19MBE106	Integrated Marketing Communications and Digital Marketing
19MBE107	Business Data Mining
19MBE108	R-Programming
19MBE109	Transport Management
19MBE110	Distribution and Warehouse Management
19MBSD102	Career Guidance
19MBC118	Internship
19MBC119	Entrepreneurship Development
19MBE111	Financial Risk Management
19MBE112	Project Appraisal and Financing
19MBE113	Leadership and Team Management
19MBE114	International Human Resource Management
19MBE115	Consumer Behaviour
19MBE116	Services and Retail Marketing
19MBE117	Machine Learning and Artificial Intelligence
19MBE118	Cloud Computing
19MBE119	E-Commerce Logistics
19MBE120	International Logistics
19MBC120	Project Work
19MBC121	Comprehensive Viva Voce- II
16MCC101	Discrete Mathematics
16MCC102	Computer Programming and Problem Solving
16MCC103	Elements Of Information Technology
16EGC101	Professional Communication in English
16MBC128	Managerial Economics and Financial Analysis
16MCC104	Computer Programming Lab Using C
16MCC105	Elements of Information Technology Lab
16EGC102	Professional Communication Lab
16MCC106	Object Oriented Programming(OOP)
16MCC107	Computer Organization
16MCC108	Software Engineering
16MCC109	Data Structures Using C++
16MCC110	Operations Research
16MTC102	Probability and Statistics
16MCC111	Object Oriented Programming Lab Using Java
16MCC112	Data Structures Lab Using C++
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



862	MCA (Master of Comp)	<table border="1"> <tr><td>16MCC117</td><td>Database Management Systems Lab</td></tr> <tr><td>16MCC118</td><td>Web Technologies Lab</td></tr> <tr><td>16MCC119</td><td>Operating Systems Lab</td></tr> <tr><td>16MCC120</td><td>Computer Networks</td></tr> <tr><td>16MCC121</td><td>Data warehousing and Data Mining</td></tr> <tr><td>16MCC122</td><td>Advanced Java Programming</td></tr> <tr><td>16MCE102</td><td>Software Testing</td></tr> <tr><td>16MCE103</td><td>Artificial Neural Networks</td></tr> <tr><td>16MCE106</td><td>Cloud Computing</td></tr> <tr><td>16MCE107</td><td>Software Project Management</td></tr> <tr><td>16MCC123</td><td>Computer Networks Lab</td></tr> <tr><td>16MCC124</td><td>Data warehousing and Data Mining Lab</td></tr> <tr><td>16MCC125</td><td>Mini Projects</td></tr> <tr><td>16MCC126</td><td>Object Oriented System Development(OOSD)</td></tr> <tr><td>16MCC127</td><td>Machine Learning</td></tr> <tr><td>16MCC128</td><td>Cryptography & Network Security</td></tr> <tr><td>16MC E110</td><td>Internet of Things</td></tr> <tr><td>16MC E111</td><td>Business Intelligence and Analytics</td></tr> <tr><td>16MC E113</td><td>Big Data Analytics</td></tr> <tr><td>16MC E114</td><td>E-Commerce</td></tr> <tr><td>16MCC129</td><td>Object Oriented System Development Lab</td></tr> <tr><td>16MCC130</td><td>Machine Learning Lab using Python</td></tr> <tr><td>16MCC131</td><td>Seminar</td></tr> <tr><td>16MCC132</td><td>Major Project Work</td></tr> </table>	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	2019-20				
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741	ME – Structural Engineering (CIVIL)	<table border="1"> <tr><td>19CEC105</td><td>Finite Element Methods in Structural Engineering</td></tr> <tr><td>19CEC106</td><td>Structural Dynamics</td></tr> <tr><td>19CEE106</td><td>Advanced Steel Design</td></tr> <tr><td>19CEE107</td><td>Repair & Retrofitting of Structures</td></tr> <tr><td>19CEE110</td><td>Design of Advanced Concrete Structures</td></tr> <tr><td>19CEE111</td><td>Advanced Foundation Engineering</td></tr> <tr><td>19CEA101</td><td>Disaster Mitigation & Management</td></tr> <tr><td>19CEC107</td><td>Model Testing Lab</td></tr> <tr><td>19CEC108</td><td>Numerical Analysis Lab</td></tr> <tr><td>19CEC109</td><td>Mini Project with Seminars</td></tr> <tr><td>19CE C101</td><td>Adv. Structural Analysis</td></tr> <tr><td>19CE C102</td><td>Adv. Solid Mechanics</td></tr> <tr><td>19CE E102</td><td>Theory & Applications of CementComposites</td></tr> <tr><td>19CE E104</td><td>Structural Health Monitoring</td></tr> <tr><td>19ME C103</td><td>Research Methodology & IPR</td></tr> <tr><td>19EGA101</td><td>English for Research paper writing</td></tr> <tr><td>19CE C103</td><td>Structural Design Lab</td></tr> <tr><td>19CE C104</td><td>Adv. Concrete Lab</td></tr> </table>	19CEC105	Finite Element Methods in Structural Engineering	19CEC106	Structural Dynamics	19CEE106	Advanced Steel Design	19CEE107	Repair & Retrofitting of Structures	19CEE110	Design of Advanced Concrete Structures	19CEE111	Advanced Foundation Engineering	19CEA101	Disaster Mitigation & Management	19CEC107	Model Testing Lab	19CEC108	Numerical Analysis Lab	19CEC109	Mini Project with Seminars	19CE C101	Adv. Structural Analysis	19CE C102	Adv. Solid Mechanics	19CE E102	Theory & Applications of CementComposites	19CE E104	Structural Health Monitoring	19ME C103	Research Methodology & IPR	19EGA101	English for Research paper writing	19CE C103	Structural Design Lab	19CE C104	Adv. Concrete Lab	2019-20																
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765	ME – CAD / CAM (MECH)	<table border="1"> <tr><td>19MEC 101</td><td>Computer Aided Modeling and Design</td></tr> <tr><td>19MEC 102</td><td>Computer Integrated Manufacturing</td></tr> <tr><td>19MEC 103</td><td>Research Methodology and IPR</td></tr> <tr><td>19MEE 101</td><td>Advanced Machine Design</td></tr> <tr><td>19MEE 102</td><td>Advanced Vibrations and Acoustics</td></tr> <tr><td>19MEE 103</td><td>Optimization Techniques</td></tr> <tr><td>19MEE 104</td><td>Automation</td></tr> <tr><td>19MEE 105</td><td>Design for Manufacturing and Assembly</td></tr> <tr><td>19MEE 106</td><td>Industrial Robotics</td></tr> <tr><td>19MEC 104</td><td>Integrated Design and Manufacturing Lab</td></tr> <tr><td>19MEC 105</td><td>Vibrations and Acoustics Lab</td></tr> <tr><td>19ECA 101</td><td>Value Education</td></tr> <tr><td>19ITA 101</td><td>Pedagogy Studies</td></tr> <tr><td>19CEA 101</td><td>Disaster Mitigation and Management</td></tr> <tr><td>19EEA 101</td><td>Sanskrit for Technical Knowledge</td></tr> <tr><td>19MEC 106</td><td>Finite Element Techniques</td></tr> <tr><td>19MEC 107</td><td>Mechanical Design and Analysis</td></tr> <tr><td>19MEE 206</td><td>Computational Fluid Dynamics</td></tr> <tr><td>19MEE 107</td><td>Mechanics of Composite Materials</td></tr> <tr><td>19MEE 108</td><td>Fracture Mechanics</td></tr> <tr><td>19MEE 109</td><td>Multibody Dynamics</td></tr> <tr><td>19MEE 110</td><td>Tribology in Design</td></tr> <tr><td>19MEE 111</td><td>Failure Analysis and Design</td></tr> <tr><td>19MEC 108</td><td>Computer Aided Engineering Lab</td></tr> <tr><td>19MEC 206</td><td>Computational Fluid Dynamics Lab</td></tr> <tr><td>19MEC 109</td><td>Mini Project with Seminar</td></tr> </table>	19MEC 101	Computer Aided Modeling and Design	19MEC 102	Computer Integrated Manufacturing	19MEC 103	Research Methodology and IPR	19MEE 101	Advanced Machine Design	19MEE 102	Advanced Vibrations and Acoustics	19MEE 103	Optimization Techniques	19MEE 104	Automation	19MEE 105	Design for Manufacturing and Assembly	19MEE 106	Industrial Robotics	19MEC 104	Integrated Design and Manufacturing Lab	19MEC 105	Vibrations and Acoustics Lab	19ECA 101	Value Education	19ITA 101	Pedagogy Studies	19CEA 101	Disaster Mitigation and Management	19EEA 101	Sanskrit for Technical Knowledge	19MEC 106	Finite Element Techniques	19MEC 107	Mechanical Design and Analysis	19MEE 206	Computational Fluid Dynamics	19MEE 107	Mechanics of Composite Materials	19MEE 108	Fracture Mechanics	19MEE 109	Multibody Dynamics	19MEE 110	Tribology in Design	19MEE 111	Failure Analysis and Design	19MEC 108	Computer Aided Engineering Lab	19MEC 206	Computational Fluid Dynamics Lab	19MEC 109	Mini Project with Seminar	2019-20
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		19EGA 101	English for Research Paper Writing	
		19EGA 102	Indian Constitution and Fundamental Rights	
		19EGA 103	Stress Management by Yoga	
		19EGA 104	Personality Development through Life's Enlightenment Skills	
		16MEC111	Project Seminar	
		16MEC112	Project work	
		19CSC 101	mathematical Foundation of Computer Science	
		19CSC 102	Advanced Data Structures	
		19CSE101	Machine Learning	
		19CSE102	Internet of Things	
		19CSE103	Introduction to Intelligent Systems	
		19CSE104	Data Preparation and Analysis	
		19CSE105	Secure Software Design & Enterprise Computing (SSDEC)	
		19CSE106	Computer Vision	
		19CSE113	Data Science & Big Data Analytics	
		19CSE114	Distributed Database Systems	
		19CSE115	Advanced Wireless and Mobile Networks	
		19CSE116	Human and Computer Interaction	
		19CSE117	GPU Computing	
		19CSE118	Digital Forensics	
		19CSE119	Mobile Applications and Services	
		19CSE120	Compiler for HPC	
		19CSE121	Open Source Technologies	
		19MEC 103	Research Methodology and IPR	
		19XXXXXX	Audit Courses-1	
742-001	M.TECH – CSE	19CSC 103	Laboratory 1 (Advanced Data Structures)	2019-20
		19CSEXXX	Laboratory 2 (Based on Elective-I,III)	
		19CSE107	Machine Learning Lab	
		19CSE108	Internet of Things Lab	
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		19CSE110	Data Preparation and Analysis Lab	
		19CSE111	SSDE Lab	
		19CSE112	Computer Vision Lab	
		19CSC 104	Advanced Algorithms	
		19CSC 105	Soft Computing	
		19CSEXXX	Elective -III	
		19CSEXXX	Elective -IV	
		19XXXXXX	Audit Course 2	
		19EGA101	English for research paper writing	
		19CEA101	Disaster mitigation and management	
		19EEA101	Sanskrit for technical knowledge	
		19ECA101	Value education	
		19EGA102	Indian constitution & fundamental rights	
		19ITA101	Pedagogy studies	
		19EGA103	Stress Management by Yoga	
		19 EGA104	Personality Development through Life Enlightenment Skills.	
		16CS C301	Project Seminar	
		16CSC 401	Project Work and Dissertation	
		19EC C102	Advanced Digital Signal Processing	
		19EC C104	Wireless and Mobile Communication	
		19EC E103	Global Navigation Satellite Systems	
		19EC E107	Microwave and Satellite Communication	
		19EC E110	Remote Sensing	
		19EC E101	Data and Optical Networks	
		19EC E102	DSP Architecture	
		19EC E106	Internet of Things	
		19ME M103	Research Methodology and IPR	
		19CE A101	Disaster Management	
		19EG A101	English for Research Paper Writing	
		19EG A102	Indian Constitution and Fundamental Rights	
		19IT A101	Pedagogy Studies	
		19EG A104	Personality Development through Life Enlightenment Skills	

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744-001	ME – COMMUNICATION ENGG.(EC)	19EE A101	Sanskrit for Technical Knowledge	2019-20			
		19EG A103	Stress Management by Yoga				
		19EC A101	Value Education				
		19EC C106	Advanced Digital Signal Processing Lab				
		19EC C108	Wireless and Mobile Communication Lab				
		19EC C101	Advanced Communication Networks				
		19EC C103	Antennas and Radiating Systems				
		19EC E105	Information Theory and Coding Techniques				
		19EC E111	Signal Intelligence Systems				
		19EC E113	Statistical Decision and Estimation Theory				
		19EC E207	Network Security and Cryptography				
		19EC E109	Pattern Recognition and Machine Learning				
		19EC E112	Software Defined and Cognitive Radio				
		19CE A101	Disaster Management				
		19EG A101	English for Research Paper Writing				
		19EG A102	Indian Constitution and Fundamental Rights				
		19IT A101	Pedagogy Studies				
		19EG A104	Personality Development through Life Enlightenment Skills				
		19EE A101	Sanskrit for Technical Knowledge				
		19EG A103	Stress Management by Yoga				
		19EC A101	Value Education				
		19EC C105	Advanced Communication Networks Lab				
		19EC C107	Antennas and Radiating Systems Lab				
		19EC C109	Mini Project with Seminar				
		16EC C112	Project Work-Project Seminar				
		16ECC113	Project Work and Dissertation				
		766	M.E. - Power System & Power Electronics		19EE C101	Power System Analysis	2019-20
					19EE C102	Power Electronics Converter	
					19ME C103	Research Methodology & IPR	
					19EE E110	Power Quality	
					19EE E106	High Voltage DC	
					19EG A101	English for Research Paper Writing	
					19EE C103	Power Systems Lab	
19EE C104	Power Electronics Simulation Lab						
19EE C105	Power System Dynamics						
19EE C106	Advanced Power Electronic Circuits						
19EEE113	Energy Auditing & Management						
19EEE114	Smart Grid						
19CEA101	Disaster Mitigation and Management						
19EEC107	Power Electronics Lab						
19EEC108	Power Systems Simulation Lab						
19EEC109	Mini Project with Seminar						
19EEE116	Electric Hybrid Vehicles						
19MEO102	Introduction to Optimization Techniques						
19EEE110	Dissertation / Phase- I						
19EEE111	Dissertation / Phase- II						
744-401	SYSTEMS AND VLSI DESIGN (ECE)			19ECC201	Analog and Digital CMOS VLSI Design	2019-20	
				19ECC203	Microcontrollers and Programmable Digital Signal Processors		
				19EC E201	Advanced Computer Organization		
		19EC E202	Communication Buses and Interfaces				
		19EC E203	Data Acquisition System Design				
		19EC E208	Programming Languages for Embedded Software				
		19EC E212	VLSI Signal Processing				
		19EC E213	VLSI Technology and Physical Design Automation				
		19ME M103	Research Methodology and IPR				
		19CE A101	Disaster Management				
		19EG A101	English for Research Paper Writing				
		19EG A102	Indian Constitution and Fundamental Rights				
		19IT A101	Pedagogy Studies				
		19EG A104	Personality Development through Life Enlightenment Skills				
		19EE A101	Sanskrit for Technical Knowledge				
		19EG A103	Stress Management by Yoga				
		19EC A101	Value Education				
		19ECC205	Analog and Digital CMOS VLSI Design Lab				
		19ECC206	Microcontrollers and Programmable Digital Signal Processors Lab				
		19ECC202	Embedded System Design Using RTOS				
		19ECC204	VLSI Design Verification and Testing				
19EC E205	Low Power VLSI Design						



ME-EMBEDDED SYS	19EC E206	Nano-materials and Nanotechnology			
	19EC E109	Pattern Recognition and Machine Learning			
	19EC E207	Network Security and Cryptography			
	19EC E209	RF IC Design			
	19EC E210	SoC Design			
	19CE A101	Disaster Management			
	19EG A101	English for Research Paper Writing			
	19EG A102	Indian Constitution and Fundamental Rights			
	19IT A101	Pedagogy Studies			
	19EG A104	Personality Development through Life Enlightenment Skills			
	19EE A101	Sanskrit for Technical Knowledge			
	19EG A103	Stress Management by Yoga			
	19EC A101	Value Education			
	19ECC207	RTL Simulation and Synthesis with PLDs Lab			
	19ECC208	RTOS and VLSI Design Verification Lab			
	19ECC209	Mini Project with Seminar			
	16EC C212	Project work -Project Seminar			
	16EC C213	Project work and Dissertation			
	745	ME-THERMAL ENGINEERING (MECH)	19MEC 201	Thermodynamics and Combustion	
			19MEC 202	Advanced Fluid Dynamics	
			19MEC 103	Research Methodology and IPR	
			19MEE 201	Thermal and Nuclear Power Plants	
			19MEE 202	Environmental Engineering and Pollution Control	
			19MEE 103	Optimization Techniques	
			19MEE 203	Air Conditioning System Design	
			19MEE 204	Energy Conservation and Management	
			19MEE 205	Design of Solar and Wind Systems	
			19MEC 203	Thermal Systems Lab	
			19MEC 204	Design of Solar and Wind Systems Lab	
19CEA 101			Disaster Mitigation and Management		
19EEA 101			Sanskrit for Technical Knowledge		
19ECA 101			Value Education		
19ITA 101			Pedagogy Studies		
19EGA 101			English for Research Paper Writing		
19EGA 102			Indian Constitution and Fundamental Rights		
19EGA 103			Stress Management by Yoga		
19EGA 104			Personality Development through Life's Enlightenment Skills		
19MEC 106			Finite Element Techniques		
19MEC 205			Advanced Heat and Mass Transfer		
19MEE 206			Computational Fluid Dynamics		
19MEE 207			Refrigeration and Cryogenics		
19MEE 208			Design of Heat Exchangers		
19MEE 209			Turbo Machines		
19MEE 210			Gas Turbines		
19MEE 211			Power Plant Control and Instrumentation		
19MEC 108			Computer Aided Engineering Lab		
19MEC 206			Computational Fluid Dynamics Lab		
19CEA 101			Disaster Mitigation and Management		
19EEA 101			Sanskrit for Technical Knowledge		
19ECA 101			Value Education		
19ITA 101			Pedagogy Studies		
19EGA 101			English for Research Paper Writing		
19EGA 102			Indian Constitution and Fundamental Rights		
19EGA 103			Stress Management by Yoga		
19EGA 104			Personality Development through Life's Enlightenment Skills		
19MEE 212			Advances in IC Engines		
19MEE 213			Convective Heat Transfer		
19MEE 214			Heat Pipe		
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 208			Dissertation Phase - I		
19MEC 209			Dissertation Phase - II		
19MTC101			Computational Number Theory		
19ITC101			Cryptography and Network Security		
19ITE106			Ethical hacking		

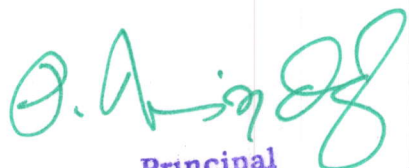


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Computer Networks and Information Security

19ITE113	Data Science
19MEC103	Research methodology and IPR
19ITC104	Cryptography and Network Security LAB
19ITE119	Data Science Lab
19ITC101	Cryptography and Network Security
19ITC102	Adhoc and Sensor Networks
19ITE101	Biometric Security
19ITE113	Data Science
19CE A01	Disaster Mitigation and Management
19ITC104	Cryptography and Network Security Lab
19ITE119	Data Science Lab
19ITC106	Mini Project with Seminar
19IT E107	Intrusion Detection (Program Elective-V)
19CSO101	Business Analytics (Open Elective)
19IT C107	Dissertation Phase-I
19IT C108	Dissertation/Phase-II

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Principal

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