JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
ANANTHAPURAMU- 515 002 (A.P) INDIA

Metric No: 1.1.3.

Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years

1.1.3.1. Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years.

HEI Inputs:

2021-22	2020-21	2019-20	2018-19	2017-18
1943	1861	1850	1743	1585

DVV Comment: Provide Syllabus Copy of the courses highlighting the focus on employability/ entrepreneurship/ skill development. Provide Reflection of mapping the courses to employability / entrepreneurship / skill development

HEI Response: Provided Syllabus Copy of the courses highlighting the focus on employability/ entrepreneurship/ skill development. Provided Reflection of mapping the courses to employability / entrepreneurship / skill development

REGISTRAR
J.N.T.U. Anantapur
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ANANTHAPURAMU- 515 002 (A.P) INDIA

1.1.3: Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years

Course Code	Name Of The Course	Year of introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development
21S03103	Advanced Biopharmaceutics & Pharmacokinetics	2021-22	Bioavailability - Drug distrubtion in the body parts
21S03104	Modern Pharmaceutics -I Lab	2021-22	Particle size on dissolution of tablets
20A05201 T	C-Programming & Data Structures	2020-21	Programming - To illustrate the basic concepts of C programming language,concepts of Functions, Arrays, Pointers and Structures
19A05101 T	Problem Solving And Programming	2019-20	programming - Illustrate the methodology for solving Computational problems
20A05202	It Workshop	2020-21	Practical - To make the students know about the internal parts of a computer, assembling and dissembling a computer
19A05101 P	Problem Solving And Programming Lab	2019-20	practical - Construct a Computer given its parts
19A02201 T	Basic Electrical & Electronics Engineering	2019-20	Research Work - To introduce basics of electric circuits.
19A54202	Probability And Statistics	2019-20	practical - To familiarize the students with the foundations of probability and statistical methods
20A05201 P	C-Programming & Data Structures Lab	2020-21	Practical - Basic concepts of C programming,programs using arrays, strings, pointers and structures,searching and sorting techniques
19A05201 T	Data Structures	2019-20	Programming - To teach the representation of solution to the problem using algorithm
19A05202	Computer Science And Engineering Workshop	2019-20	Practical - To provide Technical training to the students on Productivity tools like Word processors, Spreadsheets, Presentations
20A54202	Probability And Statistics	2020-21	Practical - To familiarize the students with the foundations of probability and statistical methods
19A02201 P	Basic Electrical & Electronics Engineering Lab	2019-20	Practical - To perform open circuit & Short Circuit test on 1- Phase Transformer.
19A05201 P	Data Structures Lab	2019-20	Practical - To elucidate how the data structure selection influences the algorithm complexity
19A54303	Mathematical Foundations Of Comphuter Science	2019-20	Survey - To demonstrate the application of basic methods of discrete mathematics in Computer Science problem solving
19A05301	Digital Logic Design	2020-21	Research work - Acquiring the skills to manipulate and examine Boolean algebraic expressions, logical operations, and Boolean functions
19A99304	Design Thinking	2020-21	internship - To bring awareness on idea generation
19A05302 T	Database Management Systems	2020-21	Programming - Enable students to model ER diagram for any customized application
19A05303 T	Object Oriented Programming Through Java	2020-21	programming - To implement the concept of packages, interfaces, exception handling and concurrency mechanism
19A05302 P	Database Management Systems Laboratory	2020-21	Practical - To implement the basic knowledge of SQL queries and relational algebra.
20A05101 T	Python Programming &	2020-21	programming - To learn the fundamentals of Python and Python libraries for Data Analysis and Data Visualization,To provide an overview of Deep

	Data Science		Learning and Data Science models
19A05303 P	Object Oriented Programming Through Java Lab	2020-21	Practical - To implement java programs for establishing interfaces
19A05304 P	Python Programming Laboratory	2020-21	practical - To understand the fundamentals of Python programming concepts and its applications
19A54401	Number Theory And Applications	2020-21	Research Work - This course enables the students to learn the concepts of number theory and its applications to information security
19A05401	Computer Organization	2020-21	Research Work - To learn the fundamentals of computer organization and its relevance to classical and modern problems of computer design
19A05402 T	Design And Analysis Of Algorithms	2020-21	Research Work - To introduce special classes of algorithms NP ,Äi completeness and the classes P and NP.
19A52401	Entrepreneurship	2020-21	Survey - To inculcate the Entrepreneurial qualities in students
19A05403 T	Operating Systems	2020-21	Research Work - Understand basic concepts and functions of operating systems
19A05404 T	Software Engineering	2020-21	Research work - To learn the basic concepts of software engineering and life cycle models
19A05403 P	Operating Systems Lab	2020-21	practical - To provide necessary skills for developing and debugging CPU Scheduling algorithms
19A05404 P	Software Engineering Lab	2020-21	practical - To Learn and implement the fundamental concepts of software Engineering.
19A05501	Formal Languages And Automata Theory	2020-21	survey - Introduce languages, grammars, and computational models
19A05502 T	Artificial Intelligence	2020-21	Research Work - Explore the searching and optimization techniques for problem solving
19A05503 T	Object-Oriented Analysis Design And Testing	2021-22	research work - Understand the basic concepts of object-oriented techniques
19A05504 T	Computer Networks	2021-22	Research Work - Understand the basic concepts of Computer Networks
19A05505 a	Data Warehousing And Data Mining	2021-22	Research Work - Investigate the kinds of patterns that can be discovered by association rule mining, classification and clustering.
19A05505 b	Web Technologies	2021-22	Programming - Understand different Client side Scripting
19A05505 C	Mobile Application Development	2021-22	internship - Help students to gain a basic understanding of Android application development
20A05101 P	Python Programming & Data Science Lab	2020-21	practical - the students in solving computational problems,fundamentals of Python programming concepts and its applications
19A03506 a	Introduction To Hybrid And Electric Vehicles	2021-22	Survey - To address the underlying concepts and methods behind power transmission in hybrid and electrical vehicles
19A27506 b	Computer Applications In Food Industry	2021-22	internship - Able to know about ,ÄúThe necessity of Software & their applications in Food Industries
19A05502 P	Artificial Intelligence Laboratory	2021-22	Practical - Explore the methods of implementing algorithms using artificial intelligence techniques
20A04304 T	Digital Electronics & Microprocessors	2021-22	Programming - To learn about Combinational Logic and Sequential Logic Circuits,logic circuits using Programmable Logic Devices
20A05301 T	Advanced Data Structures & Algorithms	2021-22	Programming - Learn asymptotic notations, and analyze the performance of different algorithms
15A52101	Functional English	2018-19	practical - To develop the listening skills of the students.
15A54101	Mathematics-1	2018-19	Survey - To develop the skill pertinent to the practice of the mathematical concepts
15A05101	Computer Programming	2018-19	Programming - Learn the features of C language

15A56101	Engineering Physics	2018-19	Survey - To evoke interest on applications of superposition effects like interference and diffraction
15A05102	Computer Programming Lab	2018-19	Practical - To make the student solve problems, implement algorithms using C language.
20A05302 T	Object Oriented Programming Through Java	2021-22	programming - To understand object oriented concepts and problem solving techniques,design the GUIs using applets and swing controls
20A05303	Computer Organization	2021-22	Research Work - To learn the fundamentals of computer organization and its relevance to classical and modern problems of computer design
20a04304P	Digital Electronics & Microprocessors Lab	2021-22	Programming - To understand all the concepts of Logic Gates and Boolean Functions,To learn Assembly Language Programming of 8086 and 8051.
20A05301 P	Advanced Data Structures And Algorithms Lab	2021-22	Practical - Learn data structures for various applications,Implement applications for backtracking algorithms using relevant data structures
20A05302 P	Object Oriented Programming Through Java Lab	2021-22	Practical - To introduce the concepts of Java.,To establish database connectivity in java and implement GUI applications
20A05304	Web Application Development	2021-22	internship - Learn website development using HTML, CSS, JavaScript,Make use of the JQueryjavascript library to provide interactiveness to the websites
20A99201	Environmental Science	2021-22	Survey - To understand the importance of protecting natural resources, ecosystems for future generations and pollution
20A54404	Deterministic & Stochastic Statistical Methods	2021-22	Research Work - This course provides a study of various Mathematical Methods and Statistical Methods which is needed for Artificial Intelligence, Machine Learning, and Data Science and also for Computer Science and engineering problems.
20A05401 T	Database Management Systems	2021-22	Programming - Train in the fundamental concepts of database management systems, database modeling and design, SQL, PL/SQL and system implementation techniques.
20A05402 T	Operating Systems	2021-22	Research Work - Understand basic concepts and functions of operating systems,Explore the concept of file-system and its implementation issues
20A05403 T	Software Engineering	2021-22	Research work - To explore the issues in software requirements specification and enable to write SRS documents for software development problems
20A52303	Business Environment	2021-22	Field Work - To make the student to understand about the business environment,To Encourage the student in knowing the structure of stock markets
20A05401 P	Database Management Systems Laboratory	2021-22	Practical - To implement the basic knowledge of SQL queries and relational algebra,design and implementation of a database for an organization
20A05402 P	Operating Systems Lab	2021-22	practical - To provide necessary skills for developing and debugging CPU Scheduling algorithms,To explain the working of an OS as a resource manager
20A05403 P	Software Engineering Lab	2021-22	practical - To learn and implement the fundamental concepts of Software Engineering.,To explore functional and non-functional requirements through SRS
20A05404	Exploratory Data Analytics With R	2021-22	programming - How to manipulate data within R and to create simple graphs and charts used in introductory statistics.,The given data using different distribution functions in R.
19A05504 P	Computer Networks Laboratory	2021-22	Practical - Understand the different types of networks
19A05503 P	Object-Oriented Analysis Design And Testing Lab	2016-17	Practical - Understand and define the context and the external interaction with the System,Familiarize with usage of open source UML Case tools
19A05601	Cryptography And Network Security	2021-22	Research Work - Introduce the basic categories of threats to computers and networks
15A05201	Data Structures	2018-19	Programming - Understand different Data Structures,Understand Searching and Sorting techniques
19A05602 T	Big Data Analytics	2021-22	Research Work - Understand the basic concepts and importance of Big Data
19A05602 T	Big Data Analytics	2021-22	Research Work - Understand the basic concepts and importance of Big Data
15A54101	Mathematics II	2018-19	RESEARCH WORK - To prepare students for lifelong learning and

			successful careers using mathematical concepts of differential and Integral calculus, ordinary differential equations and vector calculus
19A05603 a	Compiler Design	2021-22	Programming - Understand the System Programming concepts viz. assemblers, loaders, linkers and editors
15A05202	Data Structures Lab	2018-19	Practical - To strengthen the ability to identify and apply the suitable data structure for the given real world problem
15A01101	Environmental Studies	2018-19	RESEARCH WORK - To make the students to get awareness on environment
19A05603 b	Introduction To Machine Learning	2021-22	internship - Understand the basic theory underlying machine learning
15A52102	English Language Communication Skills (Elcs) Lab	2018-19	PRACTICAL - To enable students to learn better pronunciation through stress on word accent, intonation, and rhythm,To help the second language learners to acquire fluency in spoken English and neutralize mother tongue influence
19A05603 c	Real Time Systems	2021-22	internship - Understand the requirements of Real Time Operating Systems
19A05603 d	Advanced Computer Architecture	2021-22	Research Work - Impart the concepts and principles of parallel and advanced computer architectures
19A05603 e	Computer Vision	2021-22	Research Work - Understand shape and region analysis
15A04511	Computer Organization	2020-21	RESEARCH WORK - Identify functional units, bus structure and addressing modes ,Design the hardwired and micro-programmed control units.
15A05301	Database Management Systems	2018-19	Research Work - To understand the basic concepts and the applications of database systems
15A99301	Basic Electrical And Electronics Engineering	2018-19	Research Work - Basic Electrical Engineering contains basic Circuits, Network theorems, two port networks, DC generators & motors, Transformers, Induction motors. The objective is to study their performance aspects
15A04501	Antennas & Wave Propagation	2020-21	RESEARCH WORK - Design of antenna arrays: principle of pattern multiplication, broadside and end fire arrays
15A04306	Digital Logic Design	2018-19	Survey - Basic Definitions, Axiomatic Definition of Boolean Algebra, Basic Theorems and properties of Boolean Algebra
15A04502	Digital Communication Systems	2020-21	RESEARCH WORK - The students to be able to understand, analyze, and design fundamental digital communication systems
15A04301	Electronic Devices And Circuits	2019-20	RESEARCH WORK - Analyze the operating principles of major electronic devices, its characteristics and applications
15A05303	Database Management Systems Laboratory	2018-19	Practical - To create a database and query it using SQL, design forms and generate reports,Understand the significance of integrity constraints, referential integrity constraints, triggers, assertions.
15A04503	Linear Integrated Circuits And Applications	2020-21	RESEARCH WORK - Design of OPAMPS, Classification of OPAMPs,To study and design various linear applications of OPAMPs.
15A04302	Switching Theory And Logic Design	2019-20	REASEARCH WORK - To introduce basic postulates of Boolean algebra and the methods for simplifying Boolean expressions
15A04701	Optical Fibre Communication	2021-22	REASEARCH WORK - Analyze the performance of both digital and analog optical fiber systems,Calculate the system bandwidth, noise, probability of error and maximum usable bit rate of a digital fiber system
15A99302	Basic Electrical And Electronics Laboratory	2018-19	Practical - Practical verification of Superposition and Thevenin theorem,Experimental determination of O.C. and S.C. parameters .
15A04303	Signals And Systems	2019-20	REASEARCH WORK - For integro-differential equations, the students will have the knowledge to make use of Laplace transforms
15A54401	Probability And Statistics	2018-19	Survey - To help the students in getting a thorough understanding of the fundamentals of probability and usage of statistical techniques.
15A04304	Probability Theory & Stochastic Processes	2019-20	REASEARCH WORK - A student will able to determine the temporal and spectral characteristics of random signal response of a given linear system.
15A04504	Digital System Design	2020-21	RESEARCH WORK - To be able to use computer-aided design tools for development of complex digital logic circuits
15A04702	Embedded Systems	2021-22	RESEARCH WORK - Design of embedded systems leading to 32-bit

			application development,Understand hardware-interfacing concepts to connect digital as well as analog sensors while ensuring low power considerations.
15A05401	Software Engineering	2018-19	Research work - To understand the software life cycle models,To understand the software requirements and SRS document
15A02306	Electrical Technology	2019-20	RESEARCH WORK - Electrical Technology contains Single phase transformers, Induction motors, Synchronous Machines, DC generators and motors.
15A04703	Microwave Engineering	2021-22	RESEARCH WORK - Ability to analyze micro-wave circuits incorporating hollow, dielectric and planar waveguides, transmission lines
15A04505	Linux Programming & Scripting	2020-21	PROGRAMMING - The goal of the course is the study of scripting languages such as PERL, TCL/TK
15A05102	Computer Programming Lab	2018-19	PRACTICAL - Learn C Programming language,To make the student solve problems, implement algorithms using C language.
15A05402	Computer Organization	2018-19	Research Work - To learn the fundamentals of computer organization and its relevance to classical and modern problems of computer design
15A04407	Microprocessors & Interfacing	2018-19	programming - Study the instruction set of 8086 microprocessor and its architecture Learn assembly language programming using 8086 microprocessor Interfacing 8051, 8255, 8237, and 8259
15A04704	Data Communications & Networking	2021-22	Research Work - To Learn The Osi Model Layers,Tcp\Ip Models.
15A04506	Mems & Micro Systems	2020-21	RESEARCH WORK - to learn the objectives of micro systems and micro machines and applications
15A52201	English For Professional Communication	2018-19	PRACTICAL - To develop confidence in the students to use English in everyday situations.,To enable the students to read different discourses so that they appreciate English for science and technologies..
15A04705	Radar Systems	2021-22	REASEARCH WORK - Understand radar fundamentals and analysis of the radar signals., Understand various radar transmitters and receivers.
19A52602 c	Business Ethics And Corporate Governance	2021-22	survey - To make the student understand the principles of business ethics
15A02307	Electrical Technology And Basic Simulation Laboratory	2019-20	Practical - To Learn The Objectives Of Machines And Their Functions
15A04507	Ic Applications Laboratory	2020-21	PRACTICAL - :Design a second order butterworth band-pass filter for the given higher and lower cut-off frequencies, Design and test a high-Q Band pass self-tuned filter for a given center frequency.
15A04706	Adaptive Signal Processing	2021-22	RESEARCH WORK - Get complete knowledge regarding adaptive systems, Design various linear optimum filters by employing different techniques
15A04401	Electronic Circuit Analysis	2019-20	RESEARCH WORK - Analyze the frequency response of the BJT amplifiers at low and high frequencies
15A04508	Digital Communications Systems Laboratory	2020-21	PRACTICAL - After completion of the course the students will be able to experience real time behavior of different digital modulation
15A54201	Mathematics III	2018-19	RESEARCH WORK - Our emphasis will be more on conceptual understanding and application of Fourier series
19A52602 e	Supply Chain Management	2021-22	survey - To provide Knowledge on logistics and supply chain management
15A04707	Fpga Design	2021-22	RESEARCH WORK - Get complete knowledge regarding FPGA systems, RIS Behavioral synthesis
15A04201	Network Ananlysis	2018-19	REASEARCH WORK - To help students develop an understanding on analyzing electrical circuits using various techniques
15A04402	Analog Communication Systems	2019-20	RESEARCH WORK - Acquire knowledge on the basic concepts of Analog Communication Systems, Analyze the analog modulated and demodulated systems.
15A99501	Social Values & Ethics (Audit Course)	2020-21	Field Work - Understanding Of Fundamental Rights, Awareness On Sports
19A05602	Big Data Analytics	2021-22	Practical - Get familiar with Hadoop distributions, configuring Hadoop and

P	Laboratory		performing File management tasks
15A56101	Engineering Physics	2018-19	RESEARCH WORK - The different realms of physics and their applications in both scientific and technological systems are achieved through the study of physical optics, lasers and fibre optics.
15A04403	Electromagnetic Theory & Transmission Lines	2019-20	RESEARCH WORK - Analyze and solve the problems of electric and magnetic fields that vary with three dimensional spatial co-ordinates as well as with time
15A04708	Digital Image Processing	2021-22	RESEARCH WORK - Able to apply the Image processing concept for various fields of engineering and real life to process
15A52301	Managerial Economics And Financial Analysis	2020-21	RESEARCH WORK - :The objective of this course is to equip the student with the basic inputs of Managerial Economics and Economic
15A05403	Object Oriented Programming Using Java	2018-19	programming - Study the syntax, semantics and features of Java Programming Language,Learn the method of creating Multi-threaded
15A05201	Data Structures	2018-19	PROGRAMMING - Understand different Data Structures AND Understand Searching and Sorting techniques
15A04709	Cellular & Mobile Communication	2021-22	RESEARCH WORK - ÔÇ∑The student will be able to understand impairments due to multipath fading channel.,Understand the fundamental techniques to overcome the different fading effects.
15A05404	Formal Languages And Automata Theory	2018-19	Survey - Understand formal definitions of machine models. Classify machines by their power to recognize languages
15A04202	Network Analysis Lab	2018-19	PRACTICAL - to learn these lab how to do the theroms
15A04710	Real Time Systems	2021-22	REASEARCH WORK - Know about the basic concepts of embedded systems ,Understand the different architectural features of embedded systems
15A04408	Micro Processors & Interfacing Lab	2018-19	Practical - To become skilled in 8086 Assembly Language programming
19A52601 P	English Language Skills Lab	2021-22	practical - Students will be exposed to a variety of self instructional, learner friendly modes of language learning
15A04602	Electronic Measurements And Instrumentation	2020-21	RESEARCH WORK - Studies on various analyzers and signal generators and can analyze the frequency component of a wave
15A56102	Engineering Physics Laboratory	2018-19	PRACTICAL - Would recognize the important of optical phenomenon like Interference and diffraction
15A04404	Electronic Circuit Analysis Laboratory	2019-20	PRACTICAL - The ability to analyze and design single and multistage amplifiers at low, mid and high frequencies,Designing and analyzing the transistor at high frequencies.
15A04711	Microwave & Optical Communications Laboratory	2021-22	PRACTICAL - Capable of Applying microwave Concepts/ Microwave components and test them , Able to design and analyse an optical fiber communications link
15A05405	Java Programming Laboratory	2018-19	Practical - Learn to use object orientation to solve problems and use java language to implement va programming
15A04405	Analog Communication Systems Laboratory	2019-20	PRACTICAL - To experience real time behavior of different analog modulation schemes, Technically visualize spectra of different analog modulation schemes
15A04603	Digital Signal Processing	2020-21	RESERACH WORK - Program a DSP chip to filter signals using either assembly language or a C compiler for the chip. , Analyze and compare different signal processing strategies
15A04712	Vlsi & Embedded Systems Laboratory	2021-22	PRACTICAL - Design and draw the internal structure of the various digital integrated circuits ,Develop VHDL/Verilog HDL
15A04604	Vlsi Design	2020-21	RESEARCH WORK - To understand VLSI circuit design processes,To have an overview of Low power VLSI
15A04801	Advanced Digital Signal Processing-Multirate & Wavelet	2021-22	RESEARCH WORK - Get complete knowledge regarding various algorithms associated with Digital signal processing and multi rate signal processing ,
15A04605	Matlab Programming	2020-21	PRACTICAL - Understand the MATLAB
19A05701	Internet Of Things	2021-22	Practical - Introduce the fundamental concepts of IoT and physical computing

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15A05501	Operating Systems	2018-19	Research Work - To make the students understand the basic operating system concepts
15A04802	Low Power Vlsi Circuits And Systems	2021-22	RESEARCH WORK - Under stand the concepts of velocity saturation, Impact Ionization and Hot Electron Effect.
15A04606	Industrial Electronics	2020-21	INTERNSHIP - Understand the characteristics of AC to DC converters. ÔÇ∑ Understand about the practical applications Electronics in industries
15A05502	Computer Networks	2018-19	Research Work - Study the evolution of computer networks and future directions.
15A52102	English Language Communication Skills (Elcs) Lab	2018-19	Practical - To help the second language learners to acquire fluency in spoken English and neutralize mother tongue influence,
19A05702 T	Software Testing	2021-22	Research work - Acquire knowledge on distinct types of testing methodologies..
15A05503	Object Oriented Analysis & Design	2018-19	programming - To understand how to solve complex problems
15A05504	Principles Of Programming Languages	2018-19	Research work - To study various programming paradigms.
19A05703 a	Cloud Computing	2021-22	Employability - Demonstrate design the architecture for new cloud application
15A04803	Pattern Recognition & Applications	2021-22	REASEARCH WORK - Understand the concepts of statistical pattern recognition, linear discriminant functions, dimensionality patterns.
15A01608	Intellectual Property Rights (Cbcc ,Äì I)	2020-21	RESEARCH WORK - This course introduces the student to the basics of Intellectual Property Rights
15A05505	Software Testing	2018-19	Research work - Fundamentals for various testing methodologies
19A05703 b	Natural Language Processing	2021-22	Research Work - Explain and apply fundamental algorithms and techniques in the area of natural language processing (NLP)
15A04607	Microprocessors And Microcontrollers Laboratory	2020-21	Practical - To Write Programs For Different Aspects
19A05703 c	Agile Methodologies	2021-22	internship - Understand how an iterative, incremental development process leads to faster delivery of more useful software
15A05506	Introduction To Big Data	2018-19	programming - To understand Big Data Analytics for different systems like Hadoop..
15A05507	R-Programming	2018-19	Programming - Understand the fundamentals of 'R' programming ÔÇ∑ Learn how to carry out a range of commonly
19A01704 a	Air Pollution And Control	2021-22	Field Work - To identify the sources of air pollution ,Ä¢ To know the composition and structure of atmosphere
15A05508	Introduction To Operations Management	2018-19	Field Work - Study key aspects of business operations and lean management including capacity, productivity, quality, and supply chain.
15A05509	Object Oriented Analysis And Design & Software Testing Laboratory	2018-19	Practical - Practice the notation for representing various UML diagrams
19A01704 b	Basics Of Civil Engineering	2021-22	Research Work - To identify the traditional materials that are used for building constructions
15A05510	Operating Systems Laboratory	2018-19	Practical - To understand the design aspects of operating system ÔÇ∑ To solve various synchronization problems
19A02704 a	Renewable Energy Systems	2021-22	Field work - Identify various sources of Energy and the need of Renewable Energy Systems
15A05601	Compiler Design	2018-19	Programming - This course is a de facto capstone course in Computer ScienceLearn how a compiler
15A05602	Data Warehousing & Mining	2018-19	Research Work - To know the basic concepts and principles of data warehousing and data
19A02704 b	Electric Vehicle Engineering	2021-22	Survey - To get exposed to new technologies of battery electric vehicles, fuel cell electric vehicles

15A05603	Design Patterns	2018-19	Programming - To understand design patterns and their underlying object oriented concepts
19A03704 a	Finite Element Methods	2021-22	Survey - Familiarize basic principles of finite element analysis procedure
15A05604	Design And Analysis Of Algorithms	2018-19	Research Work - To know the importance of the complexity of a given algorithm
19A03704 b	Product Marketing	2021-22	Employability - Introduce the basic concepts of Product marketing
15A05605	Web And Internet Technologies	2018-19	Programming - To introduce client side scripting with Javascript and DHTML
15A04804	Rf Integrated Circuits	2021-22	REASEARCH WORK - Understand the concepts of RF systems ,MOS device physics, RF Power Amplifiers.
15A05606	Artificial Intelligence	2018-19	Research Work - To learn the basics of designing intelligent agents that can solve general purpose problems
15A04608	Digital Signal Processing Laboratory	2020-21	PRACTICAL - Able to design real time DSP systems and real world applications.
19A04704 a	Introduction To Microcontrollers & Applications	2021-22	Survey - Describe theArchitecture of 8051 Microcontroller and Interfacing of 8051 to external memory
15A05607	Linux Environment System	2018-19	programming - Understand the Multiuser, Multiprocessing, Multitasking, and multiprogramming environment
15A52602	Advanced English Language Communication Skills (Aelcs) Lab (Audit Course)	2020-21	PRACTICAL - To improve the students, fluency in English, through a well-developed vocabulary and enable them to listen to English
15A05608	System Applications & Product (Sap)	2018-19	employability - Understand the role of enterprise systems in supporting business processes.
19A04704 b	Principles Of Digital Signal Processing	2021-22	Survey - To explain about signals and perform various operations on it.
15A05609	Web And Internet Technologies Laboratory	2018-19	practical - To introduce client side scripting with Javascript and DHTML
19A27704 a	Corporate Governance In Food Industries	2021-22	Field Work - To understand the concepts of corporate governance in view of food industry
15A05610	Data Warehousing & Mining Laboratory	2018-19	Practical - Learn how to build a data warehouse and query it (using open source tools like Pentaho Data Integration and Pentaho Business Analytics),
19A27704 b	Process Technology For Convenience & Rte Foods	2021-22	survey - To understand the importance and demand for convenience foods in present day scenario
19A54704 a	Numerical Methods For Engineers	2021-22	Research Work - This course aims at providing the student with the knowledge on various numerical methods
19A51704 a	Chemistry Of Nanomaterials And Applications	2021-22	Practical - To understand synthetic principles of Nanomaterials by various methods
19A52701 a	Organisational Behaviour	2021-22	survey - To make the student understand about the organizational behavior
15A52601	Management Science	2018-19	Field Work - The objective of the course is to equip the student the fundamental knowledge of management science
15A54201	Mathematics ,Äì Ii	2018-19	Research work - Application of Fourier series, Fourier, Z and Laplace transforms and solution of partial differential equations
19A54101	Algebra & Calculus	2019-20	Research work - This course will illuminate the students in the concepts of calculus and linear algebra
19A52701 b	Management Science	2021-22	Survey - To provide fundamental knowledge on Management, Administration, Organization & its concepts
15A05701	Grid And Cloud Computing	2018-19	programming - Understand how Grid computing helps in solving large scale scientific problems.
15A05702	Information Security	2018-19	internship - Extensive, thorough and significant understanding of the

			concepts, issues
19A52701 c	Business Environment	2021-22	Field Work - To make the student understand about the business environment
15A05703	Mobile Application Development	2018-19	internship - To understand fundamentals of android operating systems. ÔÇ∑ Illustrate the various components, layouts and views in creating android applications ÔÇ∑ To understand fundamentals of android programming
19A56101 T	Applied Physics	2019-20	Research work - To identify the importance of the optical phenomenon i.e. interference, diffraction and polarization related to its Engineering applications.
15A51101	Engineering Chemistry	2018-19	Research work - The extension of fundamentals of electrochemistry to energy storage devices such as commercial batteries and fuel cells is one such example
19A52701 d	Strategic Management	2021-22	Employability - To introduce the concepts of strategic management and understand its nature in
15A05704	Software Architecture	2018-19	Research work - Introduction to the fundamentals of software architecture.
15A01101	Environmental Studies	2018-19	Research work - To make the students to get awareness on environment
15A05705	Computer Graphics	2018-19	Programming - To provide students with an understanding of the algorithms and theories that form the basis of computer graphics and modeling. ÔÇ∑ To give students skills necessary in the production of 2D &3D models
19A52701 e	E-Business	2021-22	Field Work - To provide knowledge on emerging concept on E-Business related aspect
15A05706	Machine Learning	2018-19	internship - To understand the basic theory underlying machine learning.
19A52101 T	Communicative English I	2019-20	Research work - Facilitate effective listening skills for better comprehension of academic lectures and English spoken by native speakers
19A05702 P	Software Testing Lab	2021-22	practical - Understand the fundamentals for various testing methodologies
15A05707	Software Project Management	2018-19	Research work - The main goal of software development projects is to create a software system with a predetermined functionality and quality in a given time frame and with given costs.
15A05708	Distributed Systems	2018-19	Research work - Understand the issues involved in studying process and resource management
19A05701 P	Internet Of Things Laboratory	2021-22	Practical - Select any one development board (Eg., Arduino or Raspberry Pi) and control LED using the board
15A05710	Grid And Cloud Computing Laboratory	2018-19	Practical - The student should be made to: Be familiar with developing web services/Applications in grid framework.
19A05801 a	Dev Ops	2021-22	Programming - Adapt the software Engineering practices that combine Software Development and IT operations for Quality Software
15A05711	Mobile Application Development Laboratory	2018-19	Practical - To understand fundamentals of android operating systems. Illustrate the various components, layouts and views in creating android applications
15A05801	Data Analytics	2018-19	Research Work - To introduce the terminology, technology and its
19A05801 b	Deep Learning	2021-22	Research Work - Demonstrate the major technology trends driving Deep Learning
15A05802	Mobile Computing	2018-19	Research Work - Understand mobile ad hoc networks, design and implementation issues, and available solutions.
19A05801 c	Ad Hoc And Sensor Networks	2021-22	Research Work - Introduce the concepts of Adhoc and Sensor Networks. ‚Ä¢ Explain Routing algorithms suitable for Adhoc Networks.
15A05803	Innovations And It Management	2018-19	Survey - Understand the rule of information technology in businesses, in state or central government departments and in remote parts of India.
15A05804	Building Large Scale Software Systems	2018-19	Programming - To introduce the architecture of large c programs.
19A01802 a	Disaster Mangement	2021-22	Survey - Develop an understanding of why and how the modern disaster manager is involved with pre-disaster and post-disaster activities
15A05805	ENABLING TECHNOLOGIES FOR DATA SCIENCE & ANALYTICS: Iot	2018-19	Internship - Students will be explored to the interconnection and integration of the physical world and the cyber space. They are also able to design & develop IoT Devices.

19A01802 b	Global Warming And Climate Changes	2021-22	Survey - To know the basics, importance of global warming
15A05806	Cyber Security	2018-19	Research Work - Appraise the current structure of cyber security roles across the DoD enterprise, including the roles and responsibilities of the relevant organizations
19A02802 a	Iot APPLICATIONS IN ELECTRICAL ENGINEERING	2021-22	Survey - To learn about a few applications of Internet of Things
19A02802 b	Smart Electric Grid	2021-22	survey - To learn about recent trends in grids as smart grid
19A03802 a	Energy Conservation And Management	2021-22	Field Work - Familiarize present energy scenario, and energy auditing methods
19A03802 b	Non-Destructive Testing	2021-22	Field Work - Introduce basic concepts of non destructive testing
15A02201	Electrical Circuits - I	2018-19	Research work - Basic characteristics of R,L,C parameters
19A02101	Electrical & Electronics Engineering Workshop	2019-20	Practical - To know about different tools, abbreviations and symbols in Electrical Engineering
15A51102	Engineering Chemistry Lab	2018-19	Practical - Will learn practical understanding of the redox reaction
19A04802 a	Introduction To Image Processing	2021-22	internship - To interpret fundamental concepts of digital image processing
19A56101 P	Applied Physics Lab	2019-20	Practical - Understands the concepts of interference and diffraction and their applications.
15A02202	Electrical Circuits Lab	2018-19	Research work - Experimental verification of theorems ‚Ä¢ Experimental verification of Resonance phenomenon ‚Ä¢ Drawing current locus diagrams ‚Ä¢ Practical determination of two port network parameters
19A04802 b	Principles Of Cellular And Mobile Communications	2021-22	internship - To understand the concepts and operation of cellular systems
15A54301	Mathematics-Iii	2019-20	Research work - This course aims at providing the student with the concepts of Matrices, Numerical Techniques and Curve fitting.
19A04802 c	Industrial Electronics	2021-22	Survey - Describe semi-conductor devices (such as PN junction diode & Transistor) and their switching characteristics
15A02301	Electrical Circuits- Ii	2019-20	Research work - The analysis of three phase balanced and unbalanced circuits ,
19A52101 P	Communicative English I Lab	2019-20	Practical - To expose the students to variety of self instructional, learner friendly modes of language learning
19A01201 T	Basic Civil & Mechanical Engineering	2019-20	Research work - Impart basic principles of stress, strain, shear force, bending moment and torsion.
19A04802 d	Electronic Instrumentation	2021-22	Survey - To introduce various measuring instruments and their functionality
15A02302	Electrical Machines - I	2019-20	Research work - The phenomena of armature reaction and commutation ‚Ä¢ Characteristics of generators and parallel operation of generators ‚Ä¢ Methods for speed control of DC motors and applications of DC motors, Testing of DC motors
15A02303	Control Systems Engineering	2019-20	Research work - The use of block diagram algebra and Mason‚Äôs gain formula to find the effective transfer function between two nodes ‚Ä¢ Transient and steady state responses , time domain specifications ‚Ä¢ The concept of Root loci
19A54201	Differential Equations And Vector Calculus	2019-20	Research work - To enlighten the learners in the concept of differential equations and multivariable calculus.
19A27802 a	Food Plant Utilities & Services	2021-22	Field Work - To give brief idea about the utilities that are required/used in food industry and their sources and importance
15A02305	Electric Circuits Simulation Laboratory	2019-20	Practical - To know performance of RLC series and parallel circuits through simulation studies ,

15A04305	Electronic Devices And Circuits Laboratory	2019-20	Practical - Students able to learn electrical model for various semiconductor devices and learns the practical applications of the semiconductor devices
19A03102	Engineering Graphics Lab	2019-20	Practical - Bring awareness that Engineering Drawing is the Language of Engineers.
15A54402	MATHEMATICS ,Äiiv	2019-20	Research work - To enable the students to understand the mathematical concepts of special functions & complex variables and their applications in science and engineering.
19A01201 P	Basic Civil & Mechanical Engineering Lab	2019-20	Practical - Understand the functioning and performance of I.C. Engines
15A52301	Managerial Economics And Financial Analysis	2019-20	Research work - The objective of this course is to equip the student with the basic inputs of Managerial Economics and Economic Environment of business and to impart analytical skills in helping them take sound financial decisions for achieving higher organizational productivity.
19A54302	Complex Variables And Transforms	2019-20	Research work - This course aims at providing the student to acquire the knowledge on the calculus of functions of complex variables. The student develops the idea of using continuous/discrete transforms.
15A02401	Electrical Machines ,Äì Ii	2019-20	Research work - Parallel operation of transformers ,
19A02301 T	Basic Electrical Circuits	2019-20	Research work - To make the student learn about Basic characteristics of R, L, C parameters, their Voltage and Current Relations and Various combinations of these parameters
19A27802 b	Nutraceuticals And Functional Foods	2021-22	survey - To understand the interrelationship between nutraceuticals and health maintenance
15A02402	Electrical Power Generating Systems	2019-20	Research work - Selection of site for hydro power generation
19A02302	Power System Architecture	2019-20	Research work - To make the student learn about: The block diagram and operation of Conventional Power generating systems and their components.
19A54802 a	Mathematical Modeling & Simulation	2021-22	Research Work - This course focuses on what is needed to build simulation software environments, and not just building simulations using pre existing packages
19A02303 T	Dc Machines & Transformers	2019-20	Research work - At the end of this course, students will demonstrate the ability to Understand the concepts of magnetic circuits.
19A04306 T	Semiconductor Devices And Circuits	2019-20	Research work - To study the characteristics of various types of semiconductor devices.
19A51802 a	Green Chemistry And Catalysis For Sustainable Environment	2021-22	Research Work - Learn an interdisciplinary approach to the scientific and societal issues arising from industrial chemical production,
15A02403	Electromagnetic Fields	2019-20	Research work - The equations concerned with static magnetic fields ,Ä¢ The difference between the behaviors of conductors and dielectrics in electric fields ,Ä¢ The energy stored and energy density in (i) static electric field (ii) magnetic field ,Ä¢ Electric dipole and dipole moment, magnetic dipole and dipole moment
19A02303 P	Dc Machines & Transformers Lab	2019-20	Practical - To conduct various experiments on ÔÇ∑ DC motors and DC Generators ÔÇ∑ The speed control techniques of DC motors. ÔÇ∑ To conduct various experiments for testing on 1-phase transformers
19A04306 P	Semiconductor Devices And Circuits Lab	2019-20	Practical - At the end of the course, students will be able to .Remember, understand and apply various theorems and verify practically.
19A02301 P	Basic Electrical Circuits Lab	2019-20	Practical - At the end of the course, students will be able to CO1: Remember, understand and apply various theorems and verify practically. CO2: Understand and analyze active, reactive power measurements in three phase balanced & un balanced circuits.
15A04409	Analog Electronic Circuits	2019-20	Research work - Method of calculating cutoff frequencies and to determine bandwidth. ,Ä¢ Design and analyse different Oscillator circuits. ,Ä¢ Design of circuits for linear wave shaping and Multi-vibrators.
15A02404	Electrical Machines Laboratory - I	2019-20	Practical - No load and load characteristics of DC generators ÔÉ∂ Various tests on DC motors ÔÉ∂ The speed control techniques of DC motors

19A99302	Biology For Engineers	2019-20	Research work - To provide basic understanding about life and life Process. Animal an plant systems. To understand what bimolecules, are, their structures are functions. Application of certain bimolecules in Industry. ÔÇ∑ Brief introduction about human physiology and bioengineering. ÔÇ∑ To understand hereditary units, i.e. DNA (genes) and RNA and their synthesis in living organism. ÔÇ∑ How biology Principles can be applied in our daily life using different technologies. ÔÇ∑ Brief introduction to the production of transgenic microbes, Plants and animals.
15A02405	Control Systems And Simulation Laboratory	2019-20	Practical - The effects of feedback on system performance ,Ä¢ Determination of transfer function of DC Machine. ,Ä¢ The design of controllers/compensators to achieve desired specifications. ,Ä¢ The characteristics of servo mechanisms used in automatic control applications.
19A54304	Numerical Methods And Probability Theory	2019-20	Research work - This course aims at providing the student with the knowledge on ÔÇ∑ Various numerical methods for solving equations, interpolating the polynomials, evaluation of integral equations and solution of differential equations. ÔÇ∑ The theory of Probability and random variables.
15A02501	Electrical Measurements	2020-21	Research work - The basic principles of different types of electrical instruments for the Measurement of voltage, current, power factor, power and energy. ,Ä¢ The measurement of R, L, and C parameters using bridge circuits. ,Ä¢ The principles of magnetic measurements. ,Ä¢ The principle of working of CRO and its applications.
19A02401 T	Electrical Circuit Analysis	2019-20	Research work - To know the analysis of three phase balanced and unbalanced circuits and to measure active and reactive powers in three phase circuits. ÔÇ∑ Knowing how to determine the transient response of R-L, R-C, R-L-C series circuits for D.C and A.C excitations. ÔÇ∑ To know the applications of Fourier transforms to electrical circuits excited by nonsinusoidal sources. ÔÇ∑ Study of Different types of filters, equalizers.
15A04509	Linear & Digital Ic Applications	2020-21	Research work - To be able to use computer-aided design tools for development of complex digital logic circuits ,Ä¢ To be able to model, simulate, verify, analyze, and synthesize with hardware description languages
15A02502	Electrical Power Transmission Systems	2020-21	Research work - The various factors that affect the performance of Transmission lines ,Ä¢ The Travelling wave phenomenon on transmission lines. ,Ä¢ Underground cables: construction, types, and grading
19A02402	Engineering Electromagnetics	2019-20	Research work - To understand the basic principles of electrostatics ÔÇ∑ To understand the basic principles of magneto statics for time invariant and time varying fields ÔÇ∑ To understand the principles of dielectrics, conductors and magnetic potentials
15A02503	Power Electronics	2020-21	Research work - The applications of Power electronic conversion to domestic, industrial, aerospace, commercial and utility systems etc. ,Ä¢ the equipment used for DC to AC, AC to DC, DC to Variable DC, and AC to Variable frequency AC conversions.
19A02403	Power Electronics	2019-20	Research work - The student will be able to: 1. Understand the differences between signal level and power level devices. 2. Analyze controlled rectifier circuits. 3. Analyze the operation of DC-DC choppers. 4. Analyze the operation of voltage source inverters.
15A02504	Electrical Machines ,Äì Iii	2020-21	Research work - The performance characteristics of synchronous motors and their use as synchronous condensers for power factor improvement. ,Ä¢ different types of single phase motors and special motors used in house hold appliances and control systems.
15A04510	Digital Circuits And Systems	2020-21	Research work - Be able to manipulate numeric information in different forms, e.g. different bases, signed integers, various codes such as ASCII, Gray, and BCD. ,Ä¢ Be able to manipulate simple Boolean expressions using the theorems and postulates of Boolean algebra and to minimize combinational functions.
19A04405	Analog Electronic Circuits	2019-20	Research work - List various types of feedback amplifiers, oscillators and large signal Amplifiers. ÔÇ∑ Explain the operation of various electronic circuits and linear ICs. ÔÇ∑ Apply various types of electronic circuits to solve engineering problems ÔÇ∑ Analyse various electronic circuits and regulated power supplies for proper understanding ÔÇ∑ Justify choice of transistor configuration in a cascade amplifier. ÔÇ∑ Design electronic circuits for a given specification.
19A05304	Python	2019-20	Programming - To learn the fundamentals of Python 2. To elucidate problem-

T	Programming		solving using a Python programming language 3. To introduce a function-oriented programming paradigm through python 4. To get training in the development of solutions using modular concepts 5. To introduce the programming constructs of python
19A52301	Universal Human Values 2: Understanding Harmony	2019-20	Research work - The objective of the course is four fold: ÔÇ∑ Development of a holistic perspective based on self-exploration about themselves (human being), family, society and nature/existence. ÔÇ∑ Understanding (or developing clarity) of the harmony in the human being, family, society and nature/existence ÔÇ∑ Strengthening of self-reflection. ÔÇ∑ Development of commitment and courage to act.
15A02506	Electrical Machines Laboratory ‚Äì Ii	2020-21	Practical - To experiment in detail on Transformers, Induction Motors, Alternators and Synchronous Motors, and evaluate their performance characteristics.
15A02507	Electrical Measurements Laboratory	2020-21	Practical - Calibration of various electrical measuring/recording instruments. ‚Ä¢ Accurate determination of resistance, inductance and capacitance using D.C and A.C Bridges
19A02401 P	Electrical Circuit Analysis Lab	2019-20	Practical - Understand and experimentally verify various resonance phenomenon 2. Understand and analyze various current locus diagrams. 3. Apply and experimentally analyze two port network parameters 4. Simulation of various circuits using PSPICE software.
15A52601	Management Science	2020-21	Research work - The objective of the course is to equip the student the fundamental knowledge of management science and its application for effective management of human resource, materials and operation of an organization
19A04406	Electronic Circuits Lab	2019-20	Practical - To learn basic techniques for the design of analog circuits, digital circuits and fundamental concepts used in the design of systems. ÔÇ∑ To design and analyze multistage amplifiers, feedback amplifiers and OP AMP based circuits. ÔÇ∑ To implement simple logical operations using combinational logic circuits ÔÇ∑ To design combinational logic circuits, sequential logic circuits.
15A02601	Power Semiconductor Drives	2020-21	Research work - The stable steady-state operation and transient dynamics of a motor-load system. ‚Ä¢ The operation of the chopper fed DC drive. ‚Ä¢ The distinguishing features of synchronous motor drives and induction motor drives.
19A99301	Environmental Science	2019-20	Research work - To make the students to get awareness on environment ÔÇ∑ To understand the importance of protecting natural resources, ecosystems for future generations and pollution causes due to the day to day activities of human life ÔÇ∑ To save earth from the inventions by the engineers.
15A02602	Power System Protection	2020-21	Research work - The protection of Generators ‚Ä¢ The protection of Transformers ‚Ä¢ The protection of feeders and lines
15A04601	Microprocessors And Microcontrollers	2020-21	Research work - Do programming with 8086 microprocessors 2. Understand concepts of Intel x86 series of processors
19A02501 T	Ac Machines	2019-20	Research work - The students will be able to Understand the fundamentals of AC machines, know equivalent circuit performance characteristics. Understand the methods of starting of Induction motors and Understand the methods of starting of Synchronous motors. ÔÇ∑ Understand the parallel operation of Alternators.
19A02502	Control Systems	2019-20	Research work - To make the students learn about: ÔÇ∑ ÔÇ∑ Merits and demerits of open loop and closed loop systems; the effect of feedback ÔÇ∑ ÔÇ∑ The use of block diagram algebra and Mason‚Äôs gain formula to find the overall transfer function ÔÇ∑ ÔÇ∑ Transient and steady state response, time domain specifications and the concept of Root loci ÔÇ∑ ÔÇ∑ Frequency domain specifications, Bode diagrams and Nyquist plots ÔÇ∑ ÔÇ∑ State space modelling of Control system
19A52601 T	English Language Skills	2019-20	Research work - Facilitate active listening to enable inferential learning through expert lectures and talks ÔÇ∑ Impart critical reading strategies for comprehension of complex texts ÔÇ∑ Provide training and opportunities to develop fluency in English through participation in formal group discussions and presentations using audio-visual aids ÔÇ∑ Demonstrate good writing skills for effective paraphrasing, argumentative essays and formal correspondence ÔÇ∑ Encourage use of a wide range of grammatical

				structures and vocabulary in speech and writing
15A02603	Power System Analysis	2020-21		Research work - Y bus and Z bus of a Power System network ‚Ä¢ Power flow studies by various methods. ‚Ä¢ Short circuit analysis of power systems. ‚Ä¢ Swing equation and its solution ‚Ä¢ Equal area criterion and its applications
19A02504	Electrical Machine Design	2019-20		Research work - The student will be able to: ÔÇ∑ Know about various principles of design factors, ratings based on heating and cooling of electrical machines ÔÇ∑ Know about designing of DC machines along with windings ÔÇ∑ Understand about overall designing of 1-œï transformer ÔÇ∑ Be able to know about designing of Induction machine along with winding configurations ÔÇ∑ Able to know about designing of Synchronous machines
15A02604	Neural Networks & Fuzzy Logic	2020-21		Research work - Importance of AI techniques in engineering applications ÔÉò Artificial Neural network and Biological Neural Network concepts ÔÉò ANN approach in various Electrical Engineering problems ÔÉò Fuzzy Logic and Its use in various Electrical Engineering Applications
19A02503 a	Hvdc And Facts	2019-20		Research work - To get the student exposed to: ÔÇ∑ High voltage DC transmission systems ÔÇ∑ Flexible AC transmission systems ÔÇ∑ Various configurations of the above, Principle of operation, Characteristics of various FACTS devices
15A02607	Power Electronics And Simulation Laboratory	2020-21		Practical - The characteristics of power electronic devices with gate firing circuits ‚Ä¢ Various forced commutation techniques ‚Ä¢ The operation of single-phase voltage controller, converters and Inverters circuits with R and RL loads
19A02503 b	Dc Drives	2019-20		Research work - To understand the basic concepts of DC Motor fundamentals and mechanical systems. ÔÇ∑ To understand the concept of converter control ÔÇ∑ To design various chopper control techniques. ÔÇ∑ To understand the concept of closed loop control of DC Drives ÔÇ∑ To design digital control of DC Drives.
15A02701	Electrical Distribution Systems	2021-22		Research work - The classification of distribution systems ‚Ä¢ The technical aspects and design considerations in DC and AC distribution systems and their comparison
19A02503 c	Programmable Logic Controllers	2019-20		Research work - The student will be able to: ÔÇ∑ Understand the basic functions and types of PLCs ÔÇ∑ Get exposure of Easy Veep software, its applications ÔÇ∑ Classification of PLCs and applications ÔÇ∑ Programming using PLCs ÔÇ∑ Troubleshooting aspects using PLCs
15A04603	Digital Signal Processing	2021-22		Research work - Formulate engineering problems in terms of DSP tasks. ‚Ä¢ Apply engineering problems solving strategies to DSP problems. ‚Ä¢ Design and test DSP algorithms. ‚Ä¢ Analyze digital and analog signals and systems.
15A02702	Power System Operation And Control	2021-22		Research work - Optimum generation allocation ‚Ä¢ Hydrothermal scheduling ‚Ä¢ Modeling of turbines and generators ‚Ä¢ Load frequency control in single area and two area systems
19A02503 d	Analog And Digital Ic Applications	2019-20		Research work - To introduce the basic building blocks of linear integrated circuits. ÔÇ∑ To teach the linear and non-linear applications of operational amplifiers. ÔÇ∑ To introduce the theory and applications of PLL. ÔÇ∑ To introduce the concepts of waveform generation and introduce some special function ICs. ÔÇ∑ Exposure to digital IC‚Äôs
15A02703	Utilization Of Electrical Energy	2021-22		Research work - The laws of illumination and their application for various lighting schemes ‚Ä¢ Principles and methods for electric heating and welding. ‚Ä¢ Systems of electric traction, study of traction equipment, mechanics of train movement and associated calculations.
15A02704	Modern Control Theory	2021-22		Research work - Importance of controllability and observability concepts. ‚Ä¢ Pole placement, state estimation using observers ‚Ä¢ Lyapunov criterion for stability analysis
15A02705	Switched Mode Power Converters	2021-22		Research work - The concepts of modern power electronic converters and their applications in electric power utility. ‚Ä¢ Analyzing and control of various power converter circuits
15A02706	Energy Auditing & Demand Side Management	2021-22		Research work - To learn about energy consumption and situation in India ‚Ä¢ To learn about Energy Auditing. ‚Ä¢ To learn about Energy Measuring Instruments.
15A02707	Smart Grid	2021-22		Research work - Switching techniques and different means for data communication ‚Ä¢ Standards for information exchange and smart metering ‚Ä¢ Methods used for information security on smart grid ‚Ä¢ Smart metering,

			and protocols for smart metering
15A02708	Flexible Ac Transmission Systems	2021-22	Research work - The basic concepts, different types, and applications of FACTS controllers in power transmission. ,Ä¢ The basic concepts of static shunt and series converters ,Ä¢ The working principle, structure and control of UPFC.
19A03506 b	Rapid Prototyping	2019-20	Research work - Familiarize techniques for processing of CAD models for rapid prototyping. ,óè Explain fundamentals of rapid prototyping techniques. ,óè Demonstrate appropriate tooling for rapid prototyping process. ,óè Focus Rapid prototyping techniques for reverse engineering. ,óè Train Various Pre ,Äì Processing, Processing and Post Processing errors in RP Processes.
15A02709	Power Quality	2021-22	Research work - Power quality issues and standards. ,Ä¢ The sources of power quality disturbances and power transients that occur in power systems. ,Ä¢ The sources of harmonics, harmonic indices, Devices for controlling harmonic distortion.
15A04608	Digital Signal Processing Laboratory	2021-22	Practical - Able to design real time DSP systems and real world applications. ,Ä¢ Able to implement DSP algorithms using both fixed and floating point processors.
15A02710	Power Systems And Simulation Laboratory	2021-22	Programming - Conducting experiments to analyze LG, LL, LLG, LLLG faults ,Ä¢ The equivalent circuit of three winding transformer by conducting a suitable experiment.
15A02801	Instrumentation	2021-22	Research Work - Common errors that occur in measurement systems, and their classification ,Ä¢ Characteristics of signals, their representation, and signal modulation techniques ,Ä¢ Methods of Data transmission, telemetry, and Data acquisition.
15A02802	Power System Dynamics And Control	2021-22	Research Work - The kinds of power stability problems ,Ä¢ The basic concepts of modelling and analysis of dynamical systems. ,Ä¢ Modelling of power system components - generators, transmission lines, excitation and prime mover controllers.
15A02803	Industrial Automation & Control	2021-22	Research Work - Sensors and types of measurement systems ,Ä¢ Process control and sequence control of different controllers ,Ä¢ Operation of actuators
15A02804	Hvdc Transmission	2021-22	Research Work - Technical and economic aspects of HVAC and HVDC transmission and their comparison. ,Ä¢ Static power converters ,Ä¢ Control of HVDC converter systems
15A02805	Energy Resources & Technology	2021-22	Research Work - Production of quality of energy ,Ä¢ Types of generation plants and their principle of operation ,Ä¢ Methods of energy storage ,Ä¢ Economics of generation
20A27301	Food Chemistry	2021-22	Skilled Course - To impart knowledge to the students on the Techniques in food analysis ÔÇ∑ To read them with the Analytical techniques in Quality control laboratory.
20A27302 T	Processing Of Cereals, Pulses And Oilseeds	2021-22	Skilled Course - To learn about the processing of major cereals and pulses. ÔÇ∑ To gain knowledge about grain storage structure and handling devices
20A27303 T	Fluid Flow In Food Processing	2021-22	Skilled Course - The basic concepts of fluid types and fluid-flow phenomena ÔÇ∑ To enable the students to understand the concept and importance of friction factor by usingÔÇ∑ To understand the application of friction losses through pipesÔÇ∑ To classify and select the pumps depending on suitability and acquire knowledge on power requirements in pumps
20A27304	Principles Of Food Engineering	2021-22	Skilled Course - To familiarize the importance and usage of units.ÔÇ∑ To interpret the fundamental laws and principles and its application
20A27305	Food Analysis Lab	2021-22	Practical - To expertise the students to analyze the proximate composition and other important constituents present in the food.
20A27302 P	Processing Of Cereals, Pulses And Oilseeds Lab	2021-22	Practical - Determination of parameters by qualitative and quantitative methodsÔÇ∑ Study on some important unit operations used for some grainsÔÇ∑ Preparation of standard food products.
20A27303 P	Fluid Flow In Food Processing Lab	2021-22	Practical - ÔÇ∑ To impart knowledge on coefficient of discharge, friction factor, pressure drop on different fluids. ÔÇ∑ Importance of pipe fittings and application of various pumps in food industry.
20A27306	Skill Oriented Course ,Äì I Principles Of Food	2021-22	Skill Development - Emphasis on importance of food technology into reduce the spoilage and improve the quality ÔÇ∑ To explore the various preservation methods.

		Preservation		
20A27401	Food Biochemistry And Nutrition	2021-22	Skilled Course - At the end of this course, the student will have an idea about the various constituents of foods, sources, energy and nutritional requirements and their functions.
20A27402 T	Processing Of Fruits And Vegetables, Spices And Plantation Crops	2021-22	Advance Course - At the end of this course the students get an outline about ÔÇ∑ Various methods intended for preserving fruits and vegetables. ÔÇ∑ Different operations inferred in processing fruits and vegetables ÔÇ∑ Technology behind intermediate moisture and minimally processed fruit and vegetable.
20A27403 T	Heat And Mass Transfer	2021-22	Advance Course - To impart knowledge to students on different modes of heat transfer through extended surfaces, study of heat exchanges and evaporators. Basic concepts of mass transfer and mechanism of mass transfer operations like distillation, extraction, leaching, crystallization and drying.
20A27402 P	Processing Of Fruits And Vegetables, Spices And Plantation Crops Lab	2021-22	Practical - Estimation of preservatives like benzoic acid and SO2, different processed products from fruit and vegetables and each operation importance.
20A27403 P	Heat And Mass Transfer Lab	2021-22	Practical - This course enables the students to under the heat transfer operations that takes place in food industry in better way. It also helps to study the mass transfer operations and their principles in more realistic approach.
20A27404	Skill Oriented Course ‚Äì I Basic Microbiology	2021-22	Skill Development - ÔÇ∑ To learn the basic microbiological classification and microbial techniques. ÔÇ∑ To enable students to gain knowledge on various microbial cultures and their growth factors.
20A99301	Nss/Ncc/Nso Activities	2021-22	Entrepreneurship - Positive impact on students‚Äô academic learningÔÇ∑ Improves students‚Äô ability to apply what they have learned in ‚Äúthe real world‚ÄùÔÇ∑ Positive impact on academic outcomes such as demonstrated complexity of understanding, problem analysis, problem-solving, critical thinking, and cognitive developmentÔÇ∑ Improved ability to understand complexity and ambiguity
19A27201	Food Technology Workshop	2019-20	Skilled Course - To create basic awareness on traditional processing methods and their importance in processing of foods
19A05506 a	Free And Open Sources Systems	2021-22	Research Work - Motivate the students to contribute in FOSS projects, Familiarize with programming languages like Python, Perl, Ruby, Elucidate the important FOSS tools and techniques
19A05506 b	COMPUTER GRAPHICS And MULTIMEDIA ANIMATION	2021-22	Programming - Understand the basic principles of 3- 3-dimensional computer graphics. ‚Ä¢ Provide insites on how to scan, convert the basic geometrical primitives, how to transform the shapes to fit them as per the picture definition. ‚Ä¢ Provide an understanding of mapping from world coordinates to device coordinates, clipping, and projections
19A27301 T	Food Chemistry	2019-20	Skilled Course - To impart knowledge to the students on the Techniques in food analysis
19A27302 T	Processing Of Cereals, Pulses & Oilseeds	2019-20	Skilled Course - To gain knowledge about grain storage structure and handling devices.
19A27506 a	Brewing Technology	2021-22	Research work - To understand the Beer manufacturing, ingredients and their roles,To understand overall view of a brewing industry
19A02501 P	Ac Machines Lab	2021-22	Practical - Predetermine regulation of a three-phase alternator by synchronous impedance & m.m.f methods. ‚Ä¢ Predetermine the regulation of Alternator by Zero Power Factor method Xd and Xq determination of salient pole synchronous machine. ‚Ä¢ Evaluate and analyze V and inverted V curves of 3 phase synchronous motor
20A56201 T	Applied Physics	2020-21	Research work - To make a bridge between the physics in school and engineering courses,To explain the significant concepts of dielectric and magnetic materials that leads to potential applications in the emerging micro devices.
19A52601 P	English Language Skills Lab	2021-22	Practical - students will learn better pronunciation through stress, intonation and rhythm ‚Ä¢ students will be trained to use language effectively to face interviews, group discussions, public speaking ‚Ä¢ students will be initiated into greater use of the computer in resume preparation, report writing, format

				making etc
19A02506	Power Electronics And Simulation Lab	2021-22		Programming - Analyze the operation of single-phase half & fully-controlled converters and inverters with different types of loads. ,Ä¢ Analyze the operation of DC-DC converters, single-phase AC Voltage controllers, cyclo converters with different loads. ,Ä¢ Create and analyze various power electronic converters using PSPICE software.
20A02101 T	Fundamentals Of Electrical Circuits	2020-21		Research Work - Basic characteristics of R, L, C parameters, their Voltage and Current Relations and Various combinations of these parameters. ÔÇ∑ The Single Phase AC circuits and concepts of real power, reactive power, complex power, phase angle and phase difference ÔÇ∑ Series and parallel resonances, bandwidth, current locus diagrams
19A99601	Research Methodology	2021-22		Research Work - To make the students understand various testing tools in research ,Ä¢ To make the student learn how to write a research report ,Ä¢ To create awareness on ethical issues n research
19A04301	Signals And Systems	2021-22		Research Work - To present Fourier tools through the analogy between vectors and signals. ,Ä¢ To teach concept of sampling and reconstruction of signals. ,Ä¢ To analyze characteristics of linear systems in time and frequency domains.
20A56201 P	Applied Physics Lab	2020-21		Practical - Understands the concepts of interference, diffraction and their applications. ÔÇ∑ Understand the role of optical fiber parameters in communication. ÔÇ∑ Recognize the importance of energy gap in the study of conductivity and Hall Effect in a semiconductor
19A02601 T	Digital Compute Platforms	2021-22		Research Work - Understand the Interfacing of 8086 with various advanced communication devices ,Ä¢ Designing of 8051 Microcontroller with Assembling language programming and interfacing with various modules ,Ä¢ To know about Assembly Language Programs for the Digital Signal Processors and usage of Interrupts
19A02602	Power System Analysis	2021-22		Research Work - The use of per unit values and graph theory concepts, solving a problem using computer. ,Ä¢ Formation of Ybus and Zbus of a Power System network, power flow studies by various methods. ,Ä¢ Different types of faults and power system analysis for symmetrical and also unsymmetrical faults.
20A02101 P	Fundamentals Of Electrical Circuits Lab	2020-21		Research Work - Remember, understand and apply various theorems and verify practically. ÔÇ∑ Understand and analyze active, reactive power measurements in three phase balanced & un balanced circuits.
20A54201	Differential Equations And Vector Calculus	2020-21		Research Work - To enlighten the learners in the concept of differential equations and multivariable calculus. ÔÇ∑ To furnish the learners with basic concepts and techniques at plus two level to lead them into advanced level by handling various real world applications.
19A27303 T	Fluid Mechanics For Food Processing	2019-20		Skilled Course - The basic concepts and fluid-flow phenomena and the kinematics of flow
20A04101 T	Electronic Devices & Circuits	2020-21		Research Work - To understand the basic principles of all semiconductor devices. ÔÇ∑ To be able to solve problems related to diode circuits, and amplifier circuits. ÔÇ∑ To analyze diode circuits, various biasing and small signal equivalent circuits of amplifiers
19A01504	Structural Analysis-Ii	2021-22		Research work - To enable the student to undergo the analysis of matrix methods. To inculcate the knowledge of plastic analysis to the student.
19A57301	Basic Microbiology	2019-20		Skilled Course - To enable students to gain knowledge on various microbial cultures and their growth factors
19A27304	Principles Of Food Preservation	2019-20		Skilled Course - Emphasis on importance of food technology into reduce the spoilage and improve the quality
20A51101 P	Chemistry Lab	2020-21		Practical - Verify the fundamental concepts with experiments
19A27301 P	Food Chemistry Lab	2019-20		Practical - To expertise the students to analyze the proximate composition and other important constituents present in the food.
20A04101 P	Electronic Devices & Circuits Lab	2020-21		Practical - ÔÇ∑ To verify the theoretical concepts practically from all the experiments. ÔÇ∑ To analyse the characteristics of Diodes, BJT, MOSFET, UJT. ÔÇ∑ To design the amplifier circuits from the given specifications.
20A99201	Environmental Science	2020-21		Research Work - ÔÇ∑ To make the students to get awareness on environment ÔÇ∑ To understand the importance of protecting natural resources, ecosystems for future generations and pollution causes due to the day to day

			activities of human life
19A27302 P	Processing Of Cereals, Pulses And Oil Seeds Lab	2019-20	Practical - Determination of parameters by qualitative and quantitative methods
19A27303 P	Fluid Mechanics For Food Processing Lab	2019-20	Practical - To impart knowledge on coefficient of discharge, friction factor, pressure drop on different fluids
20A54302	Complex Variables And Transforms	2021-22	Research work - This course aims at providing the student to acquire the knowledge on the calculus of functions of complex variables. The student develops the idea of using continuous/discrete transforms.
20A02301 T	Electrical Circuit Analysis	2021-22	Research Work - To know the analysis of three phase balanced and unbalanced circuits and to measure active and reactive powers in three phase circuits. ÔÇ∑ Knowing how to determine the transient response of R-L, R-C, R-L-C series circuits for D.C and A.C excitations. ÔÇ∑ To know the applications of Fourier transforms to electrical circuits excited by non sinusoidal sources.
20A02302 T	Dc Machines & Transformers	2021-22	Research Work - Student will be able to ÔÇ∑ Study magnetic materials, electromechanical energy conversions, principle and operation of DC machines and transformers and starters. ÔÇ∑ understand the constructional details of DC machines and Transformers ÔÇ∑ Analyze the performance characteristics of DC machines and transformer
19A01502	Water Resource Engineering	2021-22	Research work - To Illustrate hydrologic cycle and its relevance to Civil engineering . To teach students understand physical processes in hydrology & components of the hydrogical cycle
20A04303 T	Digital Logic Design	2021-22	Research Work - To familiarize with the concepts of different number systems and Boolean algebra. ÔÇ∑ To introduce the design techniques of combinational, sequential logic circuits. ÔÇ∑ To model combinational and sequential circuits using HDLs.
19A04604 a	Basics Of Vlsi	2021-22	Research work - ,Ä¢ Understand and Experience VLSI Design Flow ,Ä¢ Learn Transistor-Level CMOS Logic Design ,Ä¢ Understand VLSI Fabrication and Experience CMOS Physical Design
19A27401 T	Processing Of Fruit And Vegetables	2019-20	Skilled Course - Various methods used for preserving fruits and vegetables
20A52301	Managerial Economics And Financial Analysis	2021-22	Research Work - To inculcate the basic knowledge of micro economics and financial accounting ÔÇ∑ To make the students learn how demand is estimated for different products, input-output relationship for optimizing production and cost ÔÇ∑ To Know the Various types of market structure and pricing methods and strategy ÔÇ∑ To give an overview on investment appraisal methods to promote the students to learn how to plan long-term investment decisions
19A05604 a	Fundamentals Of Vr/Ar/Mr	2021-22	Research Work - Learn Virtual reality animation and 3D Art optimization ,Ä¢ Demonstrate Virtual reality ,Ä¢ Introduce to the design of visualization tools
19A27402 T	Mechanical Operations And Material Handling	2019-20	Skilled Course - To impart knowledge to the students on principles, operation and maintenance of various food processing equipment namely mixing, forming, size reduction, cutting and grinding equipment. centrifugation, filtration material handling equipment like belt, screw and pneumatic conveyors, bucket elevator.
20A02301 P	Electrical Circuit Analysis Lab	2021-22	Practical - Understand and experimentally verify various resonance phenomenon. ÔÇ∑ Understand and analyze various current locus diagrams. ÔÇ∑ Apply and experimentally analyze two port network parameters
19A27604 b	Food Toxicology	2021-22	Research Work - ,Ä¢ To know the various toxins and their evaluation. ,Ä¢ To understand their tolerance and control measures.
19A27403	Principles Of Food Engineering	2019-20	Skilled Course - To familiarize the importance and usage of units
20A02302 P	Dc Machines & Transformers Lab	2021-22	Practical - To conduct various experiments on ÔÇ∑ DC motors and DC Generators ÔÇ∑ The speed control techniques of DC motors. ÔÇ∑ To conduct various experiments for testing on 1-phase transformers
19A27604 b	Food Plant Equipment Design	2021-22	Research Work - To understand the material properties and codes used. ,Ä¢ To know the design considerations. ,Ä¢ To study the design of evaporators, dryers, crystallizers and etc.
20A04303 P	Digital Logic Design Lab	2021-22	Programming - To understand various pin configurations of the Digital ICs used in the laboratory ÔÇ∑ To conduct the experiments and verify the truth

			tables of various logic circuits. ÔÇ∑ To analyze the logic circuits ÔÇ∑ To design sequential and combinational logic circuits and verify their properties. ÔÇ∑ To design of any sequential/combinational circuit using Hardware Description Language
19A51604 a	Chemistry Of Polymers And Its Applications	2021-22	Research work - To impart knowledge to the students about fundamental concepts of Hydro gels of polymer networks, surface phenomenon by micelles ,Ä¢ To enumerate the applications of polymers in engineering
20A05305	Application Development With Python	2021-22	Research work - Students should be able to ÔÇ∑ Identify the issues in software requirements specification and enable to write SRS documents for software development problems ÔÇ∑ Explore the use of Object oriented concepts to solve Real-life problems ÔÇ∑ Design database for any real-world problem ÔÇ∑ Solve mathematical problems using Python programming language
19A27404	Processing Of Fish And Marine Products	2019-20	Skilled Course - To impart knowledge on fisheries and other marine foods, their nutritional composition and processing technologies
20A04404 T	Analog Electronic Circuits	2021-22	Research work - List various types of feedback amplifiers, oscillators and large signal Amplifiers. ÔÇ∑ Explain the operation of various electronic circuits and linear ICs. ÔÇ∑ Apply various types of electronic circuits to solve engineering problems ÔÇ∑ Analyse various electronic circuits and regulated power supplies for proper understanding ÔÇ∑ Justify choice of transistor configuration in a cascade amplifier.
19A52602 d	Enterprise Resource Planning	2021-22	Research Work - Business organizations in achieving a multidimensional growth. ,Ä¢ Impart knowledge about the historical background of BPR ,Ä¢ To aim at preparing the students, technologically competitive and make them ready to self-upgrade with the higher technical skills.
19A27405	Processing Of Spices And Plantation Crops And Medicinal Herbs	2019-20	Skilled Course - To impart knowledge about spice processing and their marketable standards, plantation crops and their importance in Indian economy, post-harvest technology of spices, value added products of spices, packaging of processed spices, food, medicinal and pharmaceutical uses of different spices
20A02401 T	Power Electronics	2021-22	Research Work - The student will be able to: ÔÇ∑ Understand the differences between signal level and power level devices. ÔÇ∑ Analyze controlled rectifier circuits. ÔÇ∑ Analyze the operation of DC-DC choppers. ÔÇ∑ Analyze the operation of voltage source inverters.
19A02605	Control Systems & Simulation Lab	2021-22	Practical - To provide knowledge in the analysis and design of controllers and compensators. ,Ä¢ The characteristics of servo mechanisms which are helpful in automatic control systems. ,Ä¢ To know the stability analysis using MATLAB.
19A02601 P	Digital Compute Platforms Lab	2021-22	Programming - Interfacing of various devices with 8086 ,Ä¢ MASAM Programming ,Ä¢ Interfacing 8051 Microcontroller with its peripheral devices.
20A02402 T	Ac Machines	2021-22	Research work - The students will be able to: ÔÇ∑ Understand the fundamentals of AC machines, know equivalent circuit performance characteristics. ÔÇ∑ Understand the methods of starting of Induction motors. ÔÇ∑ Understand the methods of starting of Synchronous motors. ÔÇ∑ Understand the parallel operation of Alternators.
19A01505 b	Subsurface Investigation And Instrumentation Professional Electives-I	2021-22	Internship - To narrate various exploration techniques . To describe soil sampling techniques
20A02403 T	Electromagnetic Field Theory	2021-22	Research Work - To understand the basic principles of electrostatics ÔÇ∑ To understand the basic principles of magneto statics for time invariant and time varying fields ÔÇ∑ To understand the principles of dielectrics, conductors and magnetic potentials
19A27401 P	Processing Of Fruit And Vegetables Lab	2019-20	Practical - Estimation of preservatives like benzoic acid and SO2, different processed products from fruit and vegetables and each operation importance
20A04404 P	Analog Electronic Circuits Lab	2021-22	Practical - To learn basic techniques for the design of analog circuits and fundamental concepts used in the design of systems. ÔÇ∑ Todesignandanalyzemultistageamplifiers,feedbackamplifiersandOPAMPbase

			dcircuits. ÔÇ∑ To implement simple logical operations using combinational logic circuits
19A01505 c	Environmental Pollution And Control Professional Elective-I	2021-22	Internship - Introduce sanitation methods essential for protection of community health. . Provide basic knowledge on sustainable development.
20A02401 P	Power Electronics Lab	2021-22	Practical - Understand and analyze various characteristics of power electronic devices with gate firing circuits and forced commutation techniques. ÔÇ∑ Analyze the operation of single-phase half &fully-controlled converters and inverters with different types of loads.
19A27402 P	Mechanical Operations & Material Handling Lab	2019-20	Practical - To impart practical orientation of usage of different mills, concept of terminal and settling velocity.
20A02402 P	Ac Machines Lab	2021-22	Practical - Analyze and apply load test, no-load and blocked-rotor tests for construction of circle diagram and equivalent circuit determination in a single phase induction motor. ÔÇ∑ Predetermine regulation of a three-phase alternator by synchronous impedance &m.m.f methods. ÔÇ∑ Predetermine the regulation of Alternator by Zero Power Factor method Xd and Xq determination of salient pole synchronous machine.
20A02404	Circuits Simulation And Analysis Using Pspice	2021-22	Programming - Simulation of various circuits using PSPICE software. ÔÇ∑ Simulation of single-phase half & fully-controlled converters, and inverters ÔÇ∑ Simulation of single-phase AC Voltage controllers with different loads
15A27301	Principles Of Food Engineering-I	2019-20	Skill Course - To familiarize the importance and usage of units. To understand the fundamental laws and principles and its application
15A27302	Food Microbiology	2019-20	Practical - To understand the role of beneficial micro organisms in food processing and preservation, To list the major food spoilage microorganisms
15A27303	Post Harvest Engineering	2019-20	Skill Course - To explore the post harvest technologyTo acquire the knowledge on reduction post harvest lossesTo understand the working principles of equipment used for processing
15A27304	Food Biochemistry & Nutrition	2019-20	Advance Course - At the end of this course, the student will have an idea about the various constituents of foods, sources, energy and nutritional requirements and their functions.
15A27305	Principles Of Food Processing & Preservation	2019-20	Skill Course - Emphasis on importance of food technology into reduce the spoilage and improve the quality
15A27306	Cereals, Pulses & Oilseeds Processing Technology	2019-20	Skill Course - To learn about the processing of major cereals and pulses. To gain knowledge about grain storage structure and handling devices.
15A27307	Food Microbiology Lab	2019-20	Practical - This lab gives idea about counting microorganisms by various techniques in selected foods and identification of specific microorganisms in different foods
15A27308	Food Product Lab-I (Cereals, Pulses & Oilseeds)	2019-20	Practical - Determination of parameters by qualitative and quantitative methods, Study on some important unit operations used for some grains
15A27401	Principles Of Food Engineering-II	2019-20	Skill Course - To impart knowledge to the students on basic concepts and applications ofPsychrometric chart, humidifiers and dehumidifiers. Problems on material and energy balance, importance of dimensional analysis and engineering properties of foods.
15A27402	Fluid Mechanics In Food Process Engineering	2019-20	Skill Course - The subject covers properties of fluids and its flow characteristics, flow through pipes. Importance of dimensional analysis and its applicability. Types and Selection of pumps.
15A27403	Food Chemistry	2019-20	Skilled Course - To impart knowledge to the students on the chemistry of macronutrients and its application in food industry.
15A27404	Fruit And Vegetable Processing	2019-20	Skilled Course - Various methods used for preserving fruits and vegetables. Different operations involved in processing fruits and vegetables
15A27405	Mechanical Operations & Material Handling	2019-20	Skill Course - To impart knowledge to the students on principles, operation and maintenance of various food processing equipment namely mixing, forming, size reduction,cutting and grinding equipment. centrifugation, filtration material handling equipment like belt, screw and pneumatic conveyors, bucket elevator.

15A27406	Fluid Mechanics Lab	2019-20	Practical - To impart knowledge on coefficient of discharge, friction factor, pressure drop on different fluids. Importance of pipe fittings and application of various pumps in food industry.
15A27407	Mechanical Operations & Milling Lab	2019-20	Practical - To impart practical orientation of usage of different mills, concept of terminal and settling velocity. Calculation of filter cake resistances.
15A27501	Heat Transfer Operations	2020-21	Advance Course - To impart knowledge to students on different modes of heat transfer through extended surfaces, study of heat exchanges and evaporators.
15A27502	Dairy & Dairy Products	2020-21	Skilled Course - To impart knowledge to the students on milk and milk products processing, manufacturing of indigenous milk products, packaging and storage of milk and milk products
15A27503	Processing Of Spices & Plantation Crops	2020-21	Advance Course - To impart knowledge about spice processing and their marketable standards, plantation crops and their importance in Indian economy, post-harvest technology of spices, value added products of spices, packaging of processed spices, food, medicinal and pharmaceutical uses of different spices.
15A27504	Industrial Microbiology	2020-21	Advance Course - To impart the knowledge to students about a) Fermentation technology and its application in Food industry, b) Industrially important Microorganisms and their application in food industry
15A27505	Food Analysis	2020-21	Advance Course - To impart knowledge to the students on the Techniques in food analysis . To ready them with the Analytical techniques in Quality control laboratory.
15A27506	Food Business Management	2020-21	Entrepreneurship development - To impart knowledge to the students on different managements and their functions and activities.
15A27507	Heat Transfer Operations Lab	2020-21	Practical - To determine the thermal conductivity of different materials and heat transfer coefficient of heat exchangers.
15A27508	Food Product Lab-II (Fruits And Vegetables)	2020-21	Practical - Estimation of preservatives like benzoic acid and SO2, different processed products from fruit and vegetables and each operation importance.
15A27601	Food Quality & Sensory Evaluation Of Food Products	2020-21	Skilled Course - To enhance the knowledge on quality of foods and safety concerns in all stages of food distribution system, evaluation of sensory attributes by different qualitative and quantitative tests
15A27602	Instrumentation And Process Control	2020-21	Advance Course - understand the different instruments used in different operations of food industries, know about working principles of different instruments used in different operations
15A27603	Mass Transfer	2020-21	Advance Course - Basic concepts of mass transferand mechanism of mass transfer operations like distillation, extraction, leaching, crystallization and drying.
15A27604	Meat & Poultry Products	2020-21	Skilled Course - To enable the students to learn about national and international prospects of Meat industry along with processing and preservation technology of Meat, Egg and Poultry Products.
15A27605	Fish And Marine Products	2020-21	Skilled Course - To impart knowledge on fisheries and other marine foods, their nutritional composition and processing technologies
15A27606	Food Refrigeration & Cold Chain	2020-21	Advance Course - To know the equipment available to store perishable items for a long time, To understand to increase the storage life of food items
15A27607	Thermal Operations	2020-21	Advance Course - To impart the knowledge on thermal operations and advances in thermal processing.
15A27608	Frozen Food Technology	2020-21	Advance Course - The principles involved in freezing, properties of frozen foods, calculation of freezing time, selection of freezer and emerging technologies for frozen foods
15A27609	Mass Transfer Lab	2020-21	Practical - To learn the separation factor for all mass transfer operations like distillation, absorption, solid-liquid and liquid-liquid extraction.
15A27610	Food Product Lab-Iii (Meat, Poultry & Fish)	2020-21	Practical - To learn the different preservation methods for meat, poultry and fish and preparation of value added products.
15A27701	Food Safety And Standards	2021-22	Advance Course - Importance of Food safety and standards, Various laws and regulations in India and rest of the world, Implementation Protocol
15A27702	Byproduct Utilization And Waste Management	2021-22	Advance Course - To impart knowledge to the student on the food industry byproducts like Fruits and vegetables by-products, Cereal byproducts utilization, byproducts from Sugar industry, byproducts from alcoholic

	In Food Industries		beverages, byproducts from dairy industry.
15A27703	Food Plant Utilities & Energy Conservation	2021-22	Skilled Course - To give brief idea about the utilities that are required/used in food industry and their sources and importance.
15A27704	Food Packaging Technology	2021-22	Skilled Course - The need for Optimum Packaging of foods, and About different packaging materials, and machinery used to protect food products and increase their shelf life
15A27705	Food Extrusion Technology	2021-22	Advance Course - To impart knowledge to the students about extrusion technology, principle of working, classification of extruders according to process and construction, extruded products and their processing.
15A27706	Bakery, Confectionery & Snack Products	2021-22	Skilled Course - To train the students in Bakery & Confectionery and to impart knowledge about different raw materials used and their role.To impart knowledge on different equipment, processing of different Products and their packaging & Quality maintenance.
15A27707	Technology Of Traditional Foods	2021-22	Skilled Course - To know the all indigenous foods and their significance, Various methods of processing
15A27708	Technology Of Beverages	2021-22	Advance Course - This subject taught the different types of beverages and its commercial application, processing and quality control in beverage industry. Equipment used and sanitation methods for cleaning equipment.
15A27709	Flavor Technology	2021-22	Skilled Course - To expose the students to flavor technology, in that the sources of flavours and methods of extraction. Flavor compound present in different foods and specifications for flavours by BIS/FSSAI.
15A27710	Specialty Foods: Nutraceuticals And Functional Foods	2021-22	Skilled Course - To understand the interrelationship between nutraceuticals and health maintenance. To explain the metabolic consequences of nutraceuticals and functional foods.
15A27711	Food Analysis Lab	2021-22	Practical - To expertise the students to analyze the proximate composition and other important constituents present in the food.
15A27712	Packaging Lab	2021-22	Practical - To learn the identification of various packaging materials and testing of packaging material quality, shelf life related calculations.
15A27801	Plant Design And Process Economics	2021-22	Entrepreneurship Development - To impart knowledge on food plant layout and design of food industries and it‚Äôs considering factors, cost economics and etc.
15A27802	Food Plant Sanitation & Hygiene	2021-22	Advance Course - To explore the knowledge on types of sanitizers and methods to eradicate the pests and good hygienic practices by individual and organization.
19A27501 T	Heat Transfer	2019-20	Advance Course - To impart knowledge to students on different modes of heat transfer through extended surfaces, study of heat exchanges and evaporators
20A56101 T	Engineering Physics	2020-21	Research work - To make a bridge between the physics in school and engineering courses. To identify the importance of the optical phenomenon i.e. interference, diffraction and polarization related to its Engineering applications.
20A56101 P	Engineering Physics Lab	2020-21	Pratical - Understand the role of Optical fiber parameters in engineering applications. Recognize the significance of laser by studying its characteristics and its application in finding the particle size.
20A54201	Differential Equations And Vector Calculus	2020-21	Research work - To enlighten the learners in the concept of differential equations and multivariable calculus. To furnish the learners with basic concepts and techniques at plus two level to lead them into advanced level by handling various real world applications.
20A51201 T	Engineering Chemistry	2020-21	Pratical - To familiarize engineering chemistry and its applications. To impart the concept of soft and hard waters, softening methods of hard water
20A01201 T	Strength Of Materials	2020-21	Research work - To make the student understand how to resolve forces and moments in a given system . To demonstrate the student to determine the centroid and second moment of area
20A51201 P	Engineering Chemistry Lab	2020-21	Pratical - To Verify the fundamental concepts with experiments
20A01201 P	Strength Of Materials Lab	2020-21	Pratical - Tension test. Bending test on (Steel/Wood) Cantilever beam.
19A27502 T	Processing Of Milk Of Milk Products	2020-21	Skilled Course - To impart knowledge to the students on milk and milk products processing, manufacturing of indigenous milk products, packaging and storage of milk and milk products

19A27503	Food Biochemistry & Nutrition	2020-21	Skilled Course - At the end of this course, the student will have an idea about the various constituents of foods, sources, energy and nutritional requirements and their functions.
19A27504 a	Food Nano Technology	2020-21	Advance Course - To understand functional materials in food nanotechnology, Nano-nutraceuticals and Nano functional foods.
19A27504 b	Food Refrigeration And Cold Chain	2020-21	Advance Course - To know the equipment available to store perishable items for a long time
19A27504 c	Food Safety Management System	2020-21	Advance Course - To study the importance of implementing Food safety managements systems in industries
19A27504 d	Marketing Management & International Trade	2020-21	enterpreneurship - To understand advantage of advertising and other sources
19A27504 e	Energy Audit & Conservation	2021-22	Advance Course - To understand the no. of technologies used for energy conservation
19A27501 P	Heat Transfer Lab	2019-20	Practical - To determine the thermal conductivity of different materials and heat transfer coefficient of heat exchangers
19A27502 P	Processing Of Milk Of Milk Products Lab	2019-20	Practical - To conduct various quality tests for milk and different products prepared from milk.
20A99201	Environmental Science	2020-21	Research work - To make the students to get awareness on environment. To understand the importance of protecting natural resources, ecosystems for future generations and pollution causes due to the day to day activities of human life
20A54301	Probability And Statistics For Civil Engineering	2021-22	Research work - The theory of Probability and random variables. Usage of statistical techniques like testing of hypothesis, testing of significance, chi-square test and basic concepts of Least square methods
20A01301	Advanced Strength Of Materials	2021-22	Research work - To enable the student to undergo analysis procedure using slope deflection method and moment distribution method. To enable the student to analyze the two hinged and three hinged arches
20A01302 T	Fluid Mechanics And Hydraulic Machines	2021-22	Pratical - To Introduce concepts of uniform and non-uniform flows through open channel. To impart knowledge on design of turbines and pumps.
20A01303 T	Surveying	2021-22	survey - To make the student to use angular measuring instruments for horizontal and vertical control. To enable the student to set simple horizontal curves.
Pre-requisite	Common To All Branches Of Engineering	2021-22	survey - To inculcate the basic knowledge of micro economics and financial accounting . To make the students learn how demand is estimated for different products, input-output relationship for optimizing production and cost
20A01304	Basic Civil Engineering Laboratory	2021-22	Pratical - developing general manual and machining skills in the students. understand the basic properties of materials
20A01302 P	Fluid Mechanics And Hydraulic Machines Lab	2021-22	Pratical - By performing this laboratory, the student will be able to know the fluid flow measurements by considering different types flow measurement devices and working principles of various pumps and motors.
20A01303 P	Surveying Lab	2021-22	Pratical - By performing this laboratory, the student will be able to know the usage of various surveying equipment‚Äôs and their practical applicability
20A54401	Mathematical Modeling & Optimization Techniques	2021-22	Research work - This course enables the students to classify and formulate real-life problem for modeling as optimization problem
20A01401 T	Engineering Geology	2021-22	Research work - To understand weathering process and mass movement . To distinguish geological formations
20A01402	Structural Analysis - I	2021-22	Research work - To enable the student analyze indeterminate trusses. To make the student to understand the analysis procedures for analyzing fixed and Continuous beams.
20A01403 T	Concrete Technology	2021-22	Research work - To develop fundamental knowledge in the fresh and hardened properties of concrete . To inculcate the testing methodology to evaluate the properties of concrete during fresh and hardened stage
20A01404 T	Environmental Engineering - I	2021-22	Internship - To teach requirements of water and its treatment. To impart knowledge on sewage treatment methodologies.

20A01401 P	Engineering Geology Lab	2021-22	Pratical - The object of the course is to enable the students to identify the physical characteristics various rocks
20A01405	Concrete Materials Lab	2021-22	Pratical - To find the various physical characteristics of cement, coarse and fine aggregates. To find the various properties of green and hardened concrete.
20A01404 P	Environmental Engineering Lab	2021-22	Pratical - The object of the course is to enable the students to identify the characteristics of water sample
20A52401	Soft Skills	2021-22	Programming - To encourage all round development of the students by focusing on soft skills. To make the students aware of critical thinking and problem-solving skills
15A56101	Engineering Physics	2018-19	Research work - To enlighten the periodic arrangement of atoms in crystals, direction of Bragg planes, crystal structure determination by Xrays and non-destructive evaluation using ultrasonic techniques. To get an insight into the microscopic meaning of conductivity , classical and quantum free electron model, the effect of periodic potential on electron motion, evolution of band theory to distinguish materials and to understand electron transport mechanism in solids.
19A27601 T	Food And Industrial Microbiology	2021-22	Advance Course - To understand the role of beneficial micro-organisms in food processing and preservation.
19A27602	Plant Design & Process Economics	2020-21	Entrepreneurship - To impart knowledge on food plant layout and design of food industries and it‚Äôs considering factors, cost economics and etc.
19A27603 T	Processing Of Meat And Poultry Products	2020-21	Skilled Course - To enable the students to learn about national and international prospects of Meat industry along with processing and preservation technology of Meat, Egg and Poultry Products.
19A27605 a	Thermal Operations In Food Process Engineering	2021-22	Advance Course - To enable the students to learn about thermal operations in food
19A27605 b	Thermal Processing Of Foods	2021-22	Advance Course - To enable the students to learn about thermal processing in food
19A27605 c	Food Engineering	2021-22	Advance Course - To enable the students to learn about engineering properties of food
19A27605 d	Novel Technologies For Food Processing And Shelf Life Extension	2021-22	Advance Course - To enable the students to learn about novel technologies in food processing
19A27605 e	Dairy And Food Process And Products Technology	2021-22	Advance Course - To impart knowledge on dairy food plant layout and design of food industries
19A27601 T	Food And Industrial Microbiology Lab	2021-22	Practical - To provide a contemporary and forward-looking on the theory
19A27603 P	Processing Of Meat And Poultry Products	2021-22	Skilled Course - To provide Knowledge on logistics and supply chain management
19A27606	Socially Relevant Project	2021-22	Internship - This lab gives idea about counting microorganisms by various techniques in selected foods and identification of specific microorganisms in different foods
15A56102)	Engineering Physics Laboratory	2018-19	Pratical - Will recognize the important of optical phenomenon like Interference and diffraction. Will understand the role of optical fiber parameters and signal losses in communication.
15A01201	Engineering Mechanics	2018-19	Research work - This course will serve as a basic course by introducing the concepts of basic mechanics which will help as a foundation to various courses
15A01202	Applied Mechanics Lab	2018-19	Pratical - This lab is aimed at making the student understand the concepts of Engineering Mechanics through demonstrable experiments
15A01301	Electrical & Mechanical Technology	2019-20	Research work - Electrical Technology contains basic Circuits, DC generators & motors, Transformers, Induction motors. The objective is to study their performance aspects. Mechanical Technology contains basic welding process, steam engines & turbines and their performance aspects will be studied.
15A01302	Building Materials & Construction	2019-20	Research work - To give the students a basic idea about the traditional and modern construction materials a brief knowledge on building components and its construction methodologies.

15A01303	Strength Of Materials - I	2019-20	Research work - The subject provide the knowledge of simple stresses and strains, flexural stresses in members, shear stresses and deflection in beams so that the concepts can be applied to the Engineering problems.
15A01304	Surveying ‚Äì I	2019-20	survey - To ensure that the student develops knowledge of the basic and conventional surveying instruments, principles behind them, working of the instruments, plotting of the area from the field measurements, determination of the area and the theory behind curves.
15A01305	Fluid Mechanics	2019-20	Research work - This subject introduces the basic concepts of fluids, their behavioural properties, analyzing the fluid flows using primary equations. This subject further deals with various flow measuring devices and concepts of boundary layer flows.
15A01306	Surveying Laboratory -I	2019-20	Pratical - To impart the practical knowledge in the field, it is essential to introduce in curriculum. Drawing of Plans and Maps and determining the area are pre requisites before taking up any Civil Engineering works.
15A01307	Strength Of Materials Laboratory	2019-20	Pratical - The object of the course to make the student to understand the behavior of materials under different types of loading for different types structures.
15A01401	Strength Of Materials ‚Äì Ii	2019-20	Research work - Study of the subject provides the understanding of principal stress, strains, springs, columns and structures.
15A01402	Surveying ‚Äì Ii	2019-20	survey - To ensure that the student develops knowledge in the working of advanced instruments, setting out of curves from the field measurements and basic knowledge on remote sensing
15A01403	Structural Analysis ‚Äì I	2019-20	Research work - To make the students to understand the principles of analysis of structures of static and moving loads by various methods.
15A01404	Hydraulics And Hyraulic Machinery	2019-20	Research work - The main objective of this course is to deal with the concepts of flow through open channels and their applications and the principles of hydraulic machines and hydraulic models.
15A01405	Fluid Mechanics And Hydraulic Machinery Laboratory	2019-20	Pratical - The object of the course to make the students understand the fluid flow concepts and get familiarity with flow measuring devices.
15A01406	Surveying Laboratory ‚Äì Ii	2019-20	Pratical - To impart the practical knowledge in the field, it is essential to introduce in curriculum. Drawing of Plans and Maps and determining the area are pre requisites before taking up any Civil Engineering works.
15A01501	Design & Drawing Of Rcc Structures	2020-21	Research work - To teach and familiarize the students with the design of various RCC structural elements and to draw them so that they can be implemented in field
15A01502	Estimation, Costing And Valuation	2020-21	Research work - The objective of the course is to make the student to understand about estimation of quantities and valuations of different types of structures as per standard schedule of rates.
15A01503	Geotechnical Engineering ‚Äì I	2020-21	Research work - The objective of this course is to make the student to understand the behaviour of soil under different loads and different conditions. This is necessary because the safety of any structure depends on soil on which it is going to be constructed.
15A01504	Engineering Geology	2020-21	Research work - The objectives of this course is to give the basic knowledge of Geology that is required for construction of various Civil Engineering Structures. The syllabus includes the basics of Geology and gives a suitable picture on the Geological aspects that are to be considered for the planning and construction of major Civil Engineering projects.
15A01505	Structural Analysis ‚Äì Ii	2020-21	Research work - Indeterminate structures are subjected to different loadings with different support conditions; hence it is necessary to study the behaviour of the structures.This course teaches the student how to apply different analysis methods in determining the structural parameters in elements like beams and columns
15A01506	Cost Effective Housing Techniques	2020-21	Research work - The objective of the course is to train the students to have a comprehensive knowledge of planning, design, evaluation, construction and financing of housing projects. The course focuses on cost effective construction materials and methods. Emphasis is given on the principles of sustainable housing policies and programmes.
15A01508	Engineering Geology Laboratory	2020-21	Pratical - Study of physical properties and identification of minerals referred under theory. Megascopic description and identification of rocks referred

			under theory.
15A01509	Geotechnical Engineering Laboratory	2020-21	Pratical - To obtain the properties of soils by conducting experiments, it is necessary for students to understand the behavior of soil under various loads and conditions.
15A01601	Concrete Technology	2020-21	Research work - Any Civil Engineering student shall have the basic knowledge about the preparation of Concrete and the Technology involved in it as Concrete happens to be the widely used building Material. The subject is designed to give the basic knowledge as well as latest developments in concrete technology.
15A01602	Design & Drawing Of Steel Structures	2020-21	Research work - To understand design specifications, loading and design procedures of different steel structures as per BIS specifications.
15A01603	Geotechnical Engineering ,Äì Ii	2020-21	Research work - The knowledge of this subject is essential to use the principles of Soil Mechanics to design the foundations, Earth retaining structures and slope stability safely and economically.
15A01604	Transportation Engineering ,Äì I	2020-21	Research work - This subject deals with the Planned Development of Highways in India and makes the student aware of the importance of Highways in economic development of a Nation. The subject also deals with various geometric elements of Highways and their Design. Fundamentals of Traffic Engineering also will be taught to the student.
15A01605	Water Resources Engineering-I	2020-21	Research work - Engineering Hydrology and its applications like Runoff estimation, estimation of design discharge and flood routing. Irrigation Engineering ,Äì Water utilization for Crop growth, canals and their designs.
15A01606	Remote Sensing And Gis (Cbcc ,Äì I)	2020-21	Research work - To understand the Photogrammetric techniques, concepts, components of Photogrammetry. To introduce the students to the basic concepts and principles of various components of remote sensing.
15A01609	Concrete Techonology Laboratory	2020-21	Pratical - Normal Consistency of fineness of cement. Initial setting time and final setting time of cement. Specific gravity and soundness of cement.
15A01610	Transportation Engineering Laboratory	2020-21	Pratical - Aggregate Crushing value. Aggregate Impact Test. Specific Gravity and Water Absorption.
15A01701	Finite Element Methods	2021-22	Research work - To familiarize the student with the latest developments in analysis for Civil Engineering problems using Finite Element Methods.
15A01702	Transportation Engineering ,Äì Ii	2021-22	Research work - This subject deals with different components of Transportation Engineering like Railway, Airport Engineering, Ports & harbours. Sound knowledge can be acquired on components of airports, railways, docks and harbours after completion of course
15A01703	Environmental Engineering	2021-22	Research work - This subject provides the knowledge of water sources, water treatment, design of distribution system, waste water treatment, and safe disposal methods. The topics of characteristics of waste water, sludge digestion are also included.
15A01704	Water Resources Engineering-Ii	2021-22	Research work - This subject aims to impart the knowledge of various head works, canal structures and their design principles to the students. The subject also covers the river structures, their classifications, designs, etc.
15A01706	Ground Improvement Techniques (Cbcc - Ii)	2021-22	Research work - The knowledge on the problems posed by the problematic soils and the remedies to build the various structures in problematic soils will be imparted to the students.
15A01710	Rehabilitation And Retrofiting Of Structures (Cbcc - Iii)	2021-22	Research work - This course introduces to the student the causes of concrete structures failures and methods available to rehabilitate and for retrofitting the structures with economical applications.
15A01711	Cad Laboratory	2021-22	Pratical - STAAD PRO or Equivalent
15A01712	Environmental Engineering Laboratory	2021-22	Pratical - The laboratory provides knowledge of estimating various parameters like PH, Chlorides, Sulphates, Nitrates in water. For effective water treatment, the determination of optimum dosage of coagulant and chloride demand are also included. The estimation status of Industrial effluents will also be taught in the laboratory by estimating BOD and COD of effluent.
15A01801	Urban Transportation	2021-22	Research work - This course aims to introduce the student to the basic concepts of urban transportation planning and various stages of planning

	Planning (Moocs ,Äì Ii)		such as trip generation, trip distribution, mode split and traffic assignment are dealt here. Concepts of economic evaluation of transportation plans are also introduced.
15A01803	Prestressed Concrete (Moocs ,Äì Iii)	2021-22	Research work - To introduce the need for prestressing as well as the methods, types and advantages of prestressing to the students. Students will be introduced to the design of prestressed concrete structures subjected to flexure and shear.
19A27701 T	Mass Transfer	2021-22	Skilled Course - Basic concepts of mass transfer and mechanism of mass transfer operations like distillation, extraction, leaching, crystallization and drying.
19A27702 T	Food Packaging	2021-22	Skilled Course - About different packaging materials, and machinery used to protect food products and increase their shelf life
19A27703 a	Extrusion Technology	2021-22	Skilled Course - To impart knowledge to the students about extrusion technology, principle of working, classification of extruders according to process and construction, extruded products and their processing
19A27703 b	Instrumentation And Process Controls In Food Industry	2021-22	Advance Course - Understand the different instruments used in different operations of food industries.
19A27703 c	Emerging Technologies In Food Safety And Quality	2021-22	Advance Course - To understand latest technologies used in food safety and quality like Gas- liquid chromatography, HPLC, PAGE and NIR etc.
19A27703 d	Financial Management	2021-22	Entrepreneurship - To learn the different used for financial management
19A27703 e	Waste And Effluent Management	2021-22	Skilled Course - This text focus on different treatments used for waste water and effluents
19A27701 P	Mass Transfer Lab	2021-22	Practical - To learn the separation factor for all mass transfer operations like distillation, absorption, solid-liquid and liquid-liquid extraction.
19A27702 P	Food Packaging Lab	2021-22	Practical - To study the various properties for packaging materials and measurements for their quality tests
19A27705	Industrial Training/Skill Development/Research Project*	2021-22	Internship - To impart knowledge on different equipment, processing of different Products and their packaging & Quality maintenance
19A01503 T	Engineering Geology	2021-22	Research work - To understand weathering process and mass movement . To distinguish geological formations
19A01505 d	Advanced Surveying Professional Elective-I	2021-22	Research work - To introduce to the students the methods of hydrographic surveying .To make the student to use photogrammetry in surveying
19A01505 e	Urban Hydrology Professional Elective-I	2021-22	Research work - To explain the design concepts of components in urban drainage systems.To Train for preparation of master urban drainage system.
19A05506 a	FREE AND OPEN SOURCES SYSTEMS (Open Elective ,Äii) (Common To CSE & IT)	2021-22	Programming - Motivate the students to contribute in FOSS projects Familiarize with programming languages like Python, Perl, Ruby Elucidate the important FOSS tools and techniques
19A05506 b	COMPUTER GRAPHICS And MULTIMEDIA ANIMATION (Open Elective ,Äii) (Common To CSE & IT)	2021-22	Programming - Introduce the use of the components of a graphics system and become familiar with the building approach of graphics system components and related algorithms. Understand the basic principles of 3- 3-dimensional computer graphics.
(19A01507)	Computer Aided Civil Engineering Drawing	2021-22	Pratical - To enable the students Communicate designs graphically To teach methodologies for understanding and verification of CAD
19A01508	Environmental Engineering Lab	2021-22	Pratical - Understand consequences of solid waste and its management. Design domestic plumbing systems.
19A01503	Engineering	2021-22	Pratical - At the end of the course the students will be able to classify various

P	Geology Lab		types of rocks, their properties and they will be familiar with interpretation of geological maps.
19A01509	Socially Relavent Project	2021-22	Internship - Road safety Audit , Environmental impact Audit
19A01601 T	Geotechnical Engineering -I	2021-22	Research work - To enable the student to determine permeability of soils using various methods. To impart the concept of seepage of water through soils and determine the seepage discharge.
19A01602	Design Of Steel Structures	2021-22	Research work - To enable Design of truss elements To enable design of column bases
19A01603 b	Ground Improvement Techniques Professinal Elective-Ii	2021-22	Research work - To make the student understand how the reinforced earth technology and soil nailing can obviate the problems posed by the conventional retaining walls. To know geo-textiles and geo-synthetics can to improve the performance of soils.
19A01603 e	Hydropower Development Professional Elective-Ii	2021-22	Research work - To impart with different types of Hydropower Plants and Classification To demonstrate different Water Conveyance systems
19A01604 a	Industrial Waste And Waste Water Management Open Elective-Ii	2021-22	Research work - To impart knowledge on selection of treatment methods for industrial waste water To teach common methods of treatment in different industries
19A01604 b	Building Services And Maintainance Open Elective-Ii	2021-22	Research work - To demonstrate the use of ventilation in buildings. To give the list of different types of machineries in buildings
19A03604 b	Optimization Techniques Through Matlab Open Elective-Ii	2021-22	Programming - Introduce basics of MATLAB Familiarize the fundamentals of optimization
19A27604 a	Food Toxicology Open Elective Ii	2021-22	Research work - To know the various toxins and their evaluation. To understand their tolerance and control measures.
19A27604 b	Food Plant Equipment Design Open Elective - Ii	2021-22	Research work - To understand the material properties and codes used. To know the design considerations.
19A52604 a	Soft Skills (Open Elective-Ii)	2021-22	Programming - To develop awareness in students of the relevance and importance of soft skills To provide students with interactive practice sessions to make them internalize soft skills
19A52602 b	Managerial Economics And Financial Analysis	2021-22	Internship - To make the students learn how demand is estimated for different products, input- output relationship for optimizing production and cost To know the various types of Market Structures & pricing methods and its strategies
19A01601 P	Geotechnical Engineering Lab	2021-22	Pratical - Identify various soils based on their characteristics. Evaluate permeability and seepage of soils.
19A01605	Socially Relavent Project	2021-22	Internship - Structural condition assessment of school buildings Water resources management -Audit
19A01701	Geotechnical Engineering - Ii	2021-22	Research work - To know the necessity of soil exploration.To design the shallow foundations.
20A54101	Linear Algebra And Calculus	2020-21	RESEARCH WORK - This course will illuminate the students in the concepts of calculus and linear algebra. To equip the students with standard concepts and tools at an intermediate to advanced level mathematics to develop the confidence and ability among the students to handle various real world problems and their applications.
20A52101 T	Communicative English	2020-21	RESEARCH WORK - Retrieve the knowledge of basic grammatical concepts Understand the context, topic, and pieces of specific information from social or transactional dialogues spoken by native speakers of English.
19A04301	Signals & Systems	2020-21	REASEARCH WORK - :Analyze the frequency spectra of various continuous-time and discrete-time signals using different transform methods, Classify the systems based on their properties and determine the response of them
19A04501 T	Integrated Circuits And Applications	2021-22	RESEARCH WORK - ‚Ä¢ Understand DC and AC characteristics of operational amplifiers & Op amp parameters and functionality of specialized

			ICs such as 555 TIMER, VCO, PLL & Voltage regulators,Make use of Op-Amps and specialized ICs to design circuits for various applications.
19A04302 T	Electronic Devices And Circuits	2020-21	RESEARCH WORK - Compare the performance of various semiconductor devices, Describe basic operation and characteristics of various semiconductor devices.
19A04502	Antennas And Wave Propagation	2021-22	RESEARCH WORK - Understand various antenna parameters, principle of operation of various antennas viz. wired, aperture, micro strip antennas.Discuss various EM wave propagation methods in ionosphere and troposphere ,Ä¢ Analyze mathematical aspects of wave propagation, Derive expressions related
20A52101 P	Communicative English Lab	2020-21	PRACTICAL - Listening and repeating the sounds of English Language ,Understand the different aspects of the English language proficiency with emphasis on LSRW skills .
19A04303	Probability Theory And Stochastic Processes	2020-21	REASEARCH WORK - Analyze various probability density functions of random variables,Derive the response of linear system for Gaussian noise and random signals as inputs.
20A54201	Differential Equations And Vector Calculus	2020-21	RESEARCH WORK - Find the work done in moving a particle along the path over a force field ,Evaluate the rates of fluid flow along and across curves
19A04504 T	Digital Communications	2021-22	RESEARCH WORK - Understand the elements of digital communication system, baseband pulse transmission, pass band digital modulation, geometric representation of signals, basics of information theory and error correcting codes.Apply the knowledge of signals and system & statistical theory to evaluate the performance of digital communication systems.
19A04304	Digital Electronics And Logic Design	2020-21	RESEARCH WORK - Design combinational and sequential logic circuits, Compare different types of Programmable logic devices and logic families
19A05403 T	Operating Systems	2021-22	PROGRAMMING - Realize how applications interact with the operating systemAnalyze the functioning of a kernel in an Operating system.
20A04101 T	Electronic Devices & Circuits	2020-21	RESEARCH WORK - Understand principle of operation, characteristics and applications of Semiconductor diodes, Bipolar Junction Transistor and MOSFETs. Applying the basic principles solving the problems related to Semiconductor diodes, BJTs, and MOSFETs
19A02403	Power Electronics	2021-22	REASEARCH WORK - Understand the operation, characteristics and usage of basic Power Semiconductor Devices. ,Ä¢ Understand different types of Rectifier circuits with different operating conditions
19A02304 T	Electrical Technology	2020-21	RESEARCH WORK - Able to analyse three phase circuits, three induction motor operating principle and know their torque slip characteristics ,Able to have knowledge on synchronous machine with which he/she can able to apply the above conceptual things to real-world problems and applications
19A04101	Electronics & Communication Engineering Workshop	2019-20	PRACTICAL - To provide knowledge in understanding working of various communication systems ,Identify discrete components and ICs
19A05303 T	Object Oriented Programming Through Java	2021-22	PROGRAMMING - To solve real world problems using OOP techniques. ,Ä¢ To apply code reusability through inheritance, packages and interfaces
19A04302 P	Electronic Devices And Circuits Lab	2020-21	PRACTICAL - Understand the basic characteristics and applications of basic electronic devices, Observe the characteristics of electronic devices by plotting graphs
19A04504 a	Data Communications And Networking	2021-22	RESEARCH WORK - Understand the requirement of theoretical & practical aspects of computer networks, functions of various layers involved in data communications, building the skills of sub netting and routing mechanisms.Explain the role of protocols in networking
19A04504 b	Nano Electronics	2021-22	REASEARCH WORK - Retrieving the challenges and current trends of CMOS technologies. ,Ä¢ Explain the fabrication process and limitations in the CMOS design, Inferring the latest MOS device in several aspects of latest configurations like SOI, SON, Strained Si and FETs, Categorize the structure of trendy devices, Adapt the device in specific applications in real-time. ,Ä¢ Choosing different models of MOS devices according to the requiremen
19A04305	Basic Simulation Lab	2020-21	PRACTICAL - Generate signals and sequences, Input signals to the systems to perform various operations, Analyze signals using Fourier, Laplace and Z-

				transforms
20A04101 P	Electronic Devices & Circuits Lab	2020-21		PRACTICAL - Understand the basic characteristics and applications of basic electronic devices ,Observe the characteristics of electronic devices by plotting graphs,Analyze the Characteristics of UJT, BJT, MOSFET
19A02304 P	Electrical Technology Lab	2020-21		PRACTICAL - To know power measurement in 3-œï circuits , To understand various characteristics of Induction motors, Synchronous machines
19A04201 T	Network Theory	2019-20		RESEARCH WORK - Solve complex circuits using mesh and nodal analysis techniques , Analyze response of RL, RC & RLC circuits in time & frequency domains
20A99201	Environmental Science	2020-21		RESEARCH WORK - Grasp multidisciplinary nature of environmental studies and various renewable and nonrenewable resources. Understand flow and bio-geo- chemical cycles and ecological pyramids.
19A99302	Biology For Engineers	2020-21		RESEARCH WORK - Briefly about human physiology, Explain about genetic material, DNA, genes and RNA how they replicate, pass and preserve vital information in living Organisms
20A54302	Complex Variables And Transforms	2021-22		RESEARCH WORK - Understand the analyticity of complex functions and conformal mappings,Understand the usage of laplace transforms, fourier transforms and z transforms
20A04301 T	Signals And Systems	2021-22		REASEARCH WORK - Understand the mathematical description and representation of continuous-time and discrete time signals and systems. Also understand the concepts of various transform techniques,Apply sampling theorem to convert continuous-time signals to discrete-time signals and reconstruct back, different transform techniques to solve signals and system related problems.
19A51102 T	Chemistry	2019-20		RESEARCH WORK - To introduce instrumental methods, molecular machines and switches , differentiate between pH metry, potentiometric and conductometric titrations
20A02303 T	Electrical Engineering	2021-22		RESEARCH WORK - Able to acquire knowledge about how to determine the transient response of R-L, R-C, R-L-C series circuits for D.C and A.C excitations ,Able to solve the problems on R L C circuits for different excitations using different approaches.
19A04401	Electromagnetic Waves And Transmission Lines	2020-21		RESEARCH WORK - Solve problems related to electromagnetic fields, Analyze electric and magnetic fields at the interface of different media
20A04302 T	Analog Circuits	2021-22		RESEARCH WORK - Understand the characteristics of differential amplifiers, feedback and power amplifiers ,Examine the frequency response of multistage and differential amplifier circuits using BJT & MOSFETs at low and high frequencies.
19A04402 T	Electronic Circuits ,Äì Analysis And Design	2020-21		RESEARCH WORK - Design multistage amplifiers, feedback amplifiers, oscillators, Multivibrator, power amplifiers and tuned amplifiers for given specification,Evaluate efficiency of large signal (power) amplifiers and voltage regulators
19A04506 a	Analog Electronics	2021-22		RESEARCH WORK - Understand the characteristics of various types of electronic devices and circuits ,Ä¢ Apply various principles of electronic devices and circuits to solve complex
20A52302	Organisational Behaviour	2021-22		REASEARCH WORK - Define the Organizational Behaviour , its nature and scope,Understand the nature and concept of Organizational behaviour ,Apply theories of motivation to analyse the performance problems
19A02404	Control Systems	2020-21		RESEARCH WORK - Analyse time response analysis, error constants, and stability characteristics of a given mathematical model using different methods,Design and develop different compensators, controllers and their performance evaluation for various conditions. Implement them in solving various engineering applications.
19A04506 b	Digital Electronics	2021-22		RESEARCH WORK - Explain switching algebra theorems and apply them for logic functions, discuss about digital logic gates and their properties, Identify the importance of SOP and POS canonical forms in the minimization of digital circuits. ,Ä¢ Evaluate functions using various types of minimizing algorithms like Boolean algebra, Karnaugh map or tabulation method.
20A04301 P	Simulation Lab	2021-22		PRACTICAL - : Learn how to use the MATLAB software and know syntax of MATLAB programming ,Understand how to simulate different types of signals and system response.

19A05506 a	Free And Open Sources Systems	2021-22	RESEARCH WORK - Demonstrate Installation and running of open-source operating systems.(L2) ,Ä¢ Justify the importance of Free and Open Source Software projects. (L5) ,Ä¢ Build and adapt one or more Free and Open Source Software packages.
19A04403 T	Analog Communications	2020-21	RESEARCH WORK - Apply the concepts to solve problems in analog and pulse modulation schemes, Analysis of analog communication system in the presence of noise
19A04201 P	Network Theory Lab	2019-20	PRACTICAL - Measure time constants of RL & RC circuits , Design resonant circuit for given specifications
20A02303 P	Electrical Engineering Lab	2021-22	PRACTICAL - To determine the various parameters experimentally ,To understand various characteristics of DC generators and DC motors
19A05506 b	COMPUTER GRAPHICS And MULTIMEDIA ANIMATION	2021-22	PROGRAMMING - Explain the basic concepts used in computer graphics. (L2) ,Ä¢ Inspect various algorithms to scan, convert the basic geometrical primitives, transformations, Area filling, clipping.
19A51102 P	Chemistry Lab	2019-20	PRACTICAL - analyse the IR and NMR of some organic compounds , prepare advanced polymer materials
19A05304 T	Python Programming	2020-21	PROGRAMMING - Design object oriented programs using Python for solving real-world problems, Apply modularity to programs.
20A04302 P	Analog Circuits Lab	2021-22	PRACTICAL - Know about the usage of equipment/components/software tools used to conduct the experiments in analog circuits,: Conduct the experiment based on the knowledge acquired in the theory about various analog circuits using BJT/MOSFETs to find the important parameters of the circuit (viz. Voltage gain, Current gain, bandwidth, input and output impedances etc) experimentally.
19A04404	Computer Architecture And Organization	2020-21	RESEARCH WORK - Analyze various issues related to memory hierarchy , Design basic computer system using the major components
20A52201	Universal Human Values	2021-22	FIELD WORK - Students are expected to become more aware of themselves, and their surroundings (family, society, nature),society, nature) ,They would become more responsible in life, and in handling problems with sustainable solutions, while keeping human relationships and human nature in mind.
20A54403	Probability Theory And Stochastic Processes	2021-22	REASEARCH WORK - Understanding the concepts of Probability, Random Variables, Random Processes and their characteristics learn how to deal with multiple random variables, conditional probability, joint distribution and statistical independence
19A54506 a	Optimization Techniques	2021-22	REASEARCH WORK - Basic methods, principles in optimization ,Ä¢ Formulation of optimization models, solution methods in optimization
19A04402 P	Electronic Circuits ,Äì Analysis And Design Lab	2020-21	PRACTICAL - Design RC and LC oscillators, Feedback amplifier for specified gain and multistage amplifiers for Low, Mid and high frequencies , Simulate all the circuits and compare the performance
19A04601 T	Microprocessors And Microcontrollers	2021-22	RESEARCH WORK - Develop assembly language programs for various problems ,Describe interfacing of 8086 with peripheral devices
19A52506 a	Technical Communication And Presentation Skills	2021-22	REASEARCH WORK - Understand the importance of effective technical communication ,Ä¢ Apply the knowledge of basic skills to become good orators
19A04403 P	Analog Communications Lab	2020-21	PRACTICAL - Observe the performance of system by plotting graphs & Measure radio receiver characteristics, Simulate all digital modulation and demodulation techniques
19A04602 T	Digital Signal Processing	2021-22	RESEARCH WORK - Realization of different structures for IIR filters, Recognize the fundamentals of fixed and floating point architectures of various DSPs
20A04401	Electromagnetic Waves And Transmission Lines	2021-22	RESEARCH WORK - Explain basic laws of electromagnetic fields and know the wave concept, Solve problems related to electromagnetic fields.
19A04501 P	Integrated Circuits And Applications Lab	2021-22	PRACTICAL - Understand the working of Op amp ICs & Application specific analog ICs. ,Ä¢ Analyze operational amplifier based circuits for linear and non-linear applications
19A04603	Digital System Design Through	2021-22	RESEARCH WORK - Acquire the knowledge about Design and modelling of Parwan CPU, vending machine, washing machine, etc, Implement various

		Vhdl		arithmetic and logical operations in digital design
19A99301	Environmental Science	2020-21	RESEARCH WORK - About the rainwater harvesting, watershed management, ozone layer depletion and waste land reclamation,Casus of population explosion, value education and welfare programmes	
20A04402 T	Communication Systems	2021-22	RESEARCH WORK - Recognize/List the basic terminology used in analog and digital communication techniques for transmission of information/data, Explain/Discuss the basic operation of different analog and digital communication systems at baseband and passband level.	
20A04403 T	Linear And Digital Ic Applications	2021-22	RESEARCH WORK - List out the characteristics of Linear and Digital ICs, Discuss the various applications of linear & Digital ICs, Solve the application based problems related to linear and digital ICs.	
19A04503 P	Digital Communications Lab	2021-22	PRACTICAL - Understand real time behavior of different digital modulation schemes and technically visualize spectra of different digital modulation schemes. ,Ä¢ Design and implement different modulation and demodulation techniques.	
19A04605 a	Introduction To Wireless And Cellular Communications Professional Elective-Ii	2021-22	RESEARCH WORK - To understand and apply the knowledge of 3G and 4G communication technologies for desiging suitalble receivers to counter balance the effects of fading channels , Analyze the performances of different technologies used in 2G, 3G standards of wireless communication	
20A04402 P	Communication Systems Lab	2021-22	PRACTICAL - Know about the usage of equipment/components/software tools used to conduct the experiments in analog and digital modulation techniques, Conduct the experiment based on the knowledge acquired in the theory about modulation and demodulation schemes to find the important metrics of the communication system experimentally	
19A04605 b	Fabrication Techniques For Mems-Based Sensors: Clinical Perspective Professional Elective-Ii	2021-22	RESEARCH WORK - To understand process flow for Fabricating Flexible Force Sensors, Force Sensors on Silicon, and Fabricating VOC sensors, design process flow for fabricating microengineering devices, Process flow for microheater	
20A04403 P	Linear And Digital Ic Applications Lab	2021-22	PRACTICAL - : Understand the pin configuration of each linear/ digital IC and its functional diagram,Acquaintance with lab equipment about the operation and its use.	
19A04605 c	Integrated Photonics Devices And Circuits Professional Elective-Ii	2021-22	RESEARCH WORK - To design single mode, multimode waveguides, bends, and photonic crystal waveguides and Integrated Optical High-Speed Modulators. , Design single mode, multimode waveguides, bends, and photonic crystal waveguides and Integrated Optical High-Speed Modulators	
20A52401	Soft Skills	2021-22	PRACTICAL - Memorize various elements of effective communicative skills , Interpret people at the emotional level through emotional intelligence apply critical thinking skills in problem solving .	
20A99401	Design Thinking For Innovation	2021-22	FIELD WORK - Define the concepts related to design thinking. Explain the fundamentals of Design Thinking and innovation Apply the design thinking techniques for solving problems in various sectors.	
19A04605 d	Electrical Measurement And Electronic Instruments Professional Elective-Ii	2021-22	RESEARCH WORK - To design the AC& DC multi-meters function generators and function generators for the given specifications, Analyze the performance of various electric and electrionc instruments like energy meters, analog & digital meters, CROs, function generators and signal generators.	
19A04605 e	Principles And Techniques Of Modern Radar Systems Professional Elective-Ii	2021-22	REASEARCH WORK - To analyze the received data from the target using CW RADAR & MTI RADAR and to find the distance, tracking range for clutter analysis, Understand the basic principles of RADAR and its varients, RADAR based Microwave imaging	
19A99501	Constitution Of India (Mandatory Course)	2021-22	FIELD WORK - Analyze the decentralization of power between central ,state and local self government,Understand the value of fundamental rights and duties for becoming good citizen of India	
19A04601	Microprocessors	2021-22	PRACTICAL - Design and implement some specific real time applications,	

P	And Microcontrollers Lab		Execution of different programs for 8086,8051 in assembly level language using MASM Assembler
19A02604 a	Industrial Automation Open Elective-Ii	2021-22	FIELD WORK - To know the use of Robotics used in industries automation ,To know about material storage, handling and automation using various approaches
19A04602 P	Digital Signal Processing Lab	2021-22	PRACTICAL - Design DSP based real time processing systems to meet desired needs of the society ,Ability to design -test, to verify ,to evaluate, and to benchmark a real time DSP systems
19A02604 b	System Reliability Concepts (Open Elective-Ii)	2021-22	REASEARCH WORK - Evaluation of Limiting State Probabilities of one, two component repairable models,Comparison of approaches to solve probability index of SISO system
19A03604 a	Introduction To Mechatronics Open Elective	2021-22	RESEARCH WORK - Demonstrate the development and design of mechatronic system and MEMS. , Design Aspects of Mechotronic systems
19A03604 b	Optimization Techniques Through Matlab Open Elective-Ii	2021-22	PROGRAMMING - Train various evolutionary algorithms , Apply optimization methods to engineering problems
19A52602 a	Entrepreneurship & Incubation	2021-22	FIELD WORK - create and design business plan through incubations, Apply the knowledge in generating ideas for new ventures
19A05604 a	Fundamentals Of Vr/Ar/Mr Open Elective-Ii	2021-22	FIELD WORK - Demonstrate Virtual reality , Analyze how and why to Select an AR Platform
19A05604 b	Data Science Open Elective-Ii	2021-22	PROGRAMMING - Identify the key connectors of Data Science , Explore the mathematical concepts required for Data science
19A52602 d	Enterprise Resource Planning	2021-22	FIELD WORK - Explain the role of IT in taking decisions with MIS, create reengineered business processes with process redesign
19A27604 a	Food Toxicology Open Elective Ii	2021-22	FIELD WORK - To understand their tolerance and control measures , Determination of toxicants in foods and their management
19A27604 b	Food Plant Equipment Design Open Elective - Ii	2021-22	FIELD WORK - To study the design of evaporators, dryers, crystallizers and etc , Design of shell and its component, stresses from local load and thermal gradient, mountings and accessories
19A52604 a	Soft Skills (Open Elective-Ii)	2021-22	PRACTICAL - To enable them to develop employability skill , Develop positive thinking
19A52602 e	Supply Chain Management	2021-22	REASEARCH WORK - Analyze the knowledge of supply chain Analysis , Understand advantages of SCM in business
19A54604 a	Wavelet Transforms And Its Applications Open Elective-Ii	2021-22	RESEARCH WORK - Find wavelet transforms in continuous as well as discrete domains , Find the lattices and lifting
19A04606	Socially Relevant Project	2021-22	INTERNSHIP - doing mini projects for socially revelant , Understanding the content and review of the project
19A56102 T	Engineering Physics	2019-20	Research work - To impart knowledge in basic concepts of optical fibers and LASERs along with its Engineering applications. Familiarize types of sensors for various engineering application
19A56102 P	Engineering Physics Lab	2019-20	Pratical - Understand the role of Optical fiber parameters in engineering applications. Recognize the significance of laser by studying its characteristics and its application in finding the particle size.
19A51101 T	Engineering Chemistry	2019-20	Research work - To familiarize engineering chemistry and its applications To impart the concept of soft and hard waters, softening methods of hard water
CIVIL ENGINEE RING WORKSH OP	Civil Engineering Workshop	2019-20	Pratical - Setting out of a building: The student should set out a building (single room only) as per the given building plan using tape and cross staff. Construct a wall of height 50 cm and wall thickness 1¬Ω bricks using English bond (No mortar required) - corner portion ,Äì length of side walls 60 cm
19A51101 P	Engineering Chemistry Lab	2019-20	Pratical - determine the cell constant and conductance of solutions .prepare advanced polymer materials
19A54301	Complex Variables, Transforms And Partial Differential Equation	2020-21	Research work - Understand functions of Complex variable and its properties. Find derivatives of complex functions.
19A01301	Strength Of	2020-21	Research work - Understand concepts of stresses, strains, elastic moduli and

T	Materials-I		strain energy. Evaluate relations between different moduli
19A01302 T)	Fluid Mechanics	2020-21	Research work - To teach integral forms of fundamental laws of fluid mechanics to predict relevant pressures, velocities and forces. To strengthen the students with fundamentals useful in application-intensive courses dealing with hydraulics, hydraulic machinery and hydrology in future courses.
19A01303 T	Surveying	2020-21	survey - To make the student to get well conversant with the fundamentals of various basic methods and instruments of surveying. To introduce to the students in identifying reduced level of the ground and its profile for finding areas and volumes of embankments and cuttings
19A01304	Building Materials And Construction	2020-21	Research work - To impart knowledge on basic building materials such as stone and clay products. To teach properties of binding materials such as gypsum, lime and cement.
19A05304 T	Python Programming	2020-21	Programming - To learn the fundamentals of Python .To elucidate problem-solving using a Python programming language
19A52301	Universal Human Values 2: Understandingharmony	2020-21	Research work - Understanding (or developing clarity) of the harmony in the human being, family, society andnature/existence. Strengthening ofself-reflection.
9A01301P	Strength Of Materials Laboratory	2020-21	Pratical - By performing the various tests in this laboratory the student will be able to know the structural behaviour various structural elements when subjected to external loads
9A01302P	Fluid Mechanics Laboratory	2020-21	Pratical - By performing the various tests in this laboratory the student will be able to know the principles of discharge measuring devices and head loss due to sudden contraction and expansion in pipes
19A01303 P	Surveying Laboratory	2020-21	Pratical - By performing the various tests in this laboratory the student will be able to know the principles of surveying in chain surveying, compass surveying, plane table surveying, levelling, thedolite surveying and total statio
19A99301	Environmental Science	2020-21	Research work - To make the students to get awareness on environment . To understand the importance of protecting natural resources, ecosystems for future generations and pollution causes due to the day to day activities of human life
19A01401	Strength Of Materials-Ii	2020-21	Research work - To make the student analyze circular shafts subjected to torsion .To make the student determine critical loads for columns with different end conditions.
19A01402 T	Hydraulics And Hydraulic Machinery	2020-21	Research work - To Introduce concepts of laminar and turbulent flows To teach principles of uniform and non-uniform flows through open channel
19A01403	Structural Analysis-1	2020-21	Research work - To impart knowledge on energy theorems.. To enable the student analyze indeterminate trusses
19A01404 T	Conrete Technology	2020-21	Research work - To develop fundamental knowledge in the fresh and hardened properties of concrete .To inculcate the testing methodology to evaluate the properties of concrete during fresh and hardened stage
9A01405T	Transportation Enngineering	2020-21	Research work - To impart knowledge on highway development. To teach concepts of Geometric design and alignment.
19A01406	Environmental Engineering	2019-20	Research work - To teach requirements of water and its treatment. To impart knowledge on sewage treatment methodologies
19A01402 P	Hydraulic Machinery Lab	2020-21	Pratical - By performing the various tests in this laboratory the student will be able to know the performance of various hydraulic machinery and flow characteristics.
19A01405 P	Transportation Engineering Lab	2020-21	Pratical - By performing the various tests in this laboratory the student will be able to know the physical characteristics of aggregates and bitumen
19A99302	Biology For Engineers	2020-21	Research work - Explain about cells and their structure and function. Different types of cells and basics for classification of living Organisms. Explain about biomolecules, their structure and function and their role in the living organisms. How biomolecules are useful in Industry.
20A03202	Engineering Workshop	2020-21	Practical - To familiarize students with wood working, sheet metal operations, fitting and electrical house wiring skills
20A03201 P	Material Science & Engineering Lab	2020-21	Practical - To understand the microstructure and hardness of engineering materials. To explain grain boundaries and grain sizes of different engineering materials

20A03101 T	Engineering Drawing	2020-21	Field work - Teach the practices for accuracy and clarity in presenting the technical information
20A03201 T	Material Science & Engineering	2020-21	Research work - To teach the principles of physical metallurgy, i.e. crystallography of metals, constitution of alloys, phase diagrams.
15A51101	Engineering Chemistry	2018-19	Research Work - The Engineering Chemistry course for undergraduate students is framed to strengthen the fundamentals of chemistry and then build an interface of theoretical concepts with their industrial/engineering applications.
15A01101	Environmental Studies	2018-19	Field work - To make the students to get awareness on environment, to understand the importance of protecting natural resources, ecosystems for future generations and pollution causes due to the day to day activities of human life to save earth from the inventions by the engineers.
15A51102	Engineering Chemistry Lab	2018-19	Practical - Will learn the preparation and properties of synthetic polymers and other material that would provide sufficient impetus to engineer these to suit diverse applications
15A52201	English For Professional Communication	2018-19	Internship - English is a global language and has international appeal and application. It is widely used in a variety of contexts and for varied purposes
15A54201	Mathematics ,Äì Ii	2018-19	Research work - Our emphasis will be more on conceptual understanding and application of Fourier series, Fourier, Z and Laplace transforms and solution of partial differential equations.
15A03201	Material Science And Engineering	2016-17	Research work - To gain and understanding of the relationship between the structure, properties, processing, testing, heat treatment and applications of metallic , non metallic, ceramic and composite materials so as to identify and select suitable materials for various engineering applications
15A03101	Engineering Drawing	2018-19	Survey - To learn about various projections, to understand complete dimensions and details of object.
15A03202	MATERIAL SCIENCE And ENGINEERING LAB	2016-17	Practical - . Preparation and study of the Micro Structure of Ferrous metal
19A05101 T	Problem Solving And Programming	2019-20	Programming - Identify the computational and non-computational problems
19A03102	Engineering Graphics Lab	2019-20	Practical - Bring awareness that Engineering Drawing is the Language of Engineers. ,óè Familiarize how industry communicates technical information.
15A99201	Engineering & I.T. Workshop Engineering Workshop	2018-19	Practical - The budding Engineer may turn out to be a technologist, scientist, entrepreneur, practitioner, consultant etc. T
19A03101	Engineering Workshop	2019-20	Field work - To familiarize students with wood working, sheet metal operations, fitting and electrical house wiring skills
15A52301	Managerial Economics And Financial Analysis	2018-19	Field work - : The objective of this course is to equip the student with the basic inputs of Managerial Economics and Economic Environment of business and to impart analytical skills in helping them take sound financial decisions for achieving higher organizational productivity
15A01308	Mechanics Of Solids	2018-19	Research work - The students shall understand the theory of elasticity including strain/displacement and hooks law relationships. To accesses stresses and deformations through the mathematical models of beams for bending and bars for twisting or combination of both. The knowledge of this subject will help in the design & Theory of machines courses.
15A03301	Engineering Drawing For Mechanical Engineers	2018-19	Field work - To enhance the student,Äôs knowledge and skills in engineering drawing of solids with interpenetration of solids and to present isometric and perspective projections.
15A03302	Engineering Mechanics	2018-19	Field work - This course will serve as a basic course by introducing the concepts of basic mechanics which will help as a foundation to various courses.
15A03303	Thermodynamics	2018-19	Research work - First law and second law of thermodynamics and its applications to a wide variety of systems, principles of psychrometry and properties of pure substances. And also understand the concept of various air

			standard cycles with the help of P-v and T-s Diagrams.
15A01309	Mechanics Of Solids Laboratory	2018-19	Practical - mechanics of solids we observe
15A03304	Computer Aided Drafting Lab	2018-19	Practical - introduction to Computer Aided Drafting software package
19A03201	Mechanical Engineering Workshop	2019-20	Practical - Demonstrate assembly of computer and installation of software
15A03402	Kinematics Of Machines	2018-19	Research work - The objective of this course is to cover the kinematics and dynamics of planar single degree of freedom mechanisms
15A03403	Thermal Engineering ‚Äì I	2018-19	Research work - The student also shall apply the thermodynamic concepts in IC engines and compressors
15A03404	Manufacturing Technology	2018-19	Field work - . The students shall also introduce the basic concepts of casting, pattern preparation, gating system and knowledge on basic features of various welding and cutting processes.
15A03405	Thermal Engineering Laboratory	2018-19	Practical - thermal engineering different specifications of engine
15A03406	Manufacturing Technology Laborator	2018-19	Practical - Design and making
15A01510	Fluid Mechanics And Hydraulic Machines	2018-19	Field work - fluid mechanics we learn flow of fluid
15A03501	Thermal Engineering ‚Äì Ii	2018-19	Research work - The students shall become familiar with steam power plant, boilers, function of nozzle, gas turbines and jet propulsions.
15A03502	Dynamics Of Machinery	2018-19	Field work - To understand the method of static force analysis and dynamic force analysis of mechanism, undesirable effects of unbalance in rotors and engines. To understand the concept of vibratory systems and their analysis and also the principles of governors.
15A03503	Machine Tools	2018-19	Field work - To apply knowledge of basic mathematics to calculate the machining parameters for different machining processes and acquire knowledge on advanced manufacturing processes
19A03301 T	Manufacturing Processes	2019-20	Field work - Nature of plastic deformation, cold and hot working process, working of a rolling mill and types, extrusion processes.
15A03503	MACHINE Tools	2018-19	Field work - To apply knowledge of basic mathematics to calculate the machining parameters for different machining processes and acquire knowledge on advanced manufacturing processes.
15A03504	Design Of Machine Members ‚Äì I	2018-19	Research Work - The primary objective of this course is to demonstrate how engineering design is used for many principles learned in previous engineering science courses and to show how these principles are practically applied.
19A03302	Engineering Mechanics	2019-20	Field work - Explain the effect of force and moment in different engineering applications
15A03505	Entrepreneurship (Moocs-I)	2018-19	Internship - Introduction to Entrepreneurship
19A03303 T	Material Science And Engineering	2019-20	Research Work - To teach the principles of physical metallurgy, i.e. crystallography of metals, constitution of alloys, phase diagrams.
15A03506	Nano Technology (Moocs-I)	2018-19	Research work - On successful completion of the course, students should be able to: Understand the basic cientific concepts of nanoscience.
19A99303 T	Design Thinking And Product Innovation	2019-20	Survey - To bring awareness on innovative design and new product development.
15A03507	Micro Electro Mechanical Systems (Mems) (Moocs-I)	2018-19	Field work - To learn basics of Micro Electro Mechanical Systems (MEMS
15A01511	Fluid Mechanics And Hydraulic Machines Laboratory	2018-19	Practical - about fluids
19A99303 P	Design Thinking And Product	2019-20	Practical - To design measuring devices for temperature, pressure, humidity, water level, smart lighting.

	Innovation Lab		
15A03508	Machine Tools Laboratory	2018-19	Practical - machine tools
19A03301 P	Manufacturing Processes Lab	2019-20	Practical - Acquire practical knowledge on Metal Casting, Welding, Press Working and unconventional machining Processes.
19A03303 P	Material Science & Engineering Lab	2019-20	Practical - To understand microstructure and hardness of engineering materials
15A03601	Operations Research	2018-19	Research Work - The subject should enable the students to the nature and scope of various decision making situations within business contexts, understand and apply operation research techniques to industrial applications,
19A03401	Thermodynamics	2019-20	Field work - Familiarize concepts of heat, work, energy and governing rules for conversion of one form to other
19A03402 T	Mechanics Of Materials	2019-20	Research work - Discuss the principal stresses and components of stress on different planes under different loads
19A01407	Fluid Mechanics And Hydraulic Machinery	2019-20	Field work - To impart knowledge on power developed by hydraulic energy and hydro electric installations.
19A05406 T	Internet Of Things	2019-20	Practical - Create a basic understanding of the communication protocols in IoT communications.
19A03403	Kinetics Of Machinery	2019-20	Field work - Explain different exact and approximate straight line motion mechanisms
19A03404	Computer Aided Machine Drawing	2019-20	Programing - Introduce conventional representations of material and machine components.
19A03402 P	Mechanics Of Materials Laboratory	2019-20	Practical - To determine elastic constants of materials using flexural and torsion tests.
19A03501 T	Applied Thermodynamics	2019-20	Field work - To familiarize concepts of thermodynamic cycles used in steam power plants and gas turbines
19A03502 T	Manufacturing Technology	2019-20	Practical - Familiarise the principles of jigs and fixtures and types of clamping and work holding devices.
19A03503 T	Heat Transfer	2019-20	Research Work - To impart the basic laws of conduction, convection and radiation heat transfer and their applications
19A03505	Dynamics Of Machinery	2019-20	Research work - Familiarizes the concept of gyroscope and its applications for aero plane, motor cycle and motor cars
19A03504 a	Automobile Engineering	2019-20	Field work - Explain the concepts of steering, suspension and braking system in automobile.
19A03504 b	Manufacturing Methods In Precision Engineering	2019-20	Field work - Explain wafer preparation, optical lithography including current best practice and perceived limits and equipment required for micro-device packaging processes.
19A03504 c	Design Of Transmission Systems	2019-20	Research work - Produce working drawings of the system involving pulleys, gears, clutches and brakes.
19A03504 d	Power Plant Engineering	2019-20	Field work - Explain renewable energy sources; characteristics, working principle, classify types, layouts, and plant operations.
19A03504 e	Ergonomics And Human Factors In Engineering	2019-20	Survey - Evaluate the sources of vibration and performance effect of vibration in machine tools.
15A03601	Operations Research	2018-19	Research Work - Introduction to OR and Linear Programming-1
15A03602	Design Of Machine Members‚Äì I	2018-19	Research work - DESIGN OF CURVED BEAMS: Stresses in curved beams
19A04506 a	Analog Electronics	2019-20	Practical - To apply various principles of electronic devices and circuits to solve complex Engineering problems
15A03603	Heat Transfer	2018-19	Field work - Introduction: Modes and Mechanisms of Heat Transfer ‚Äì Basic Laws of Heat Transfer ‚Äì
19A04506 b	Digital Electronics	2019-20	Practical - To analyze logic processes and implement logical operations using combinational logic circuits
15A03604	Finite Element Methods	2018-19	Research work - : Equilibrium equations in elasticity subjected to body force,
19A05506 a	Free And Open Sources Systems	2019-20	Programing - Understand the context and operation of free and open source software (FOSS) communities and associated software projects.
15A03605	Metal Forming	2018-19	Programming - Two dimensional stress analysis and three dimensional stress

	Processes		analysis, relation between engineering stress and true stress, relation between engineering strain
19A05506 b	COMPUTER GRAPHICS And MULTIMEDIA ANIMATION	2019-20	Practical - Introduce the use of the components of a graphics system and become familiar with the building approach of graphics system components and related algorithms.
19A27506 a	Brewing Technology	2019-20	Practical - To understand the Beer manufacturing, ingredients and their roles.
15A03606	Nonconventional Sources Of Energy	2018-19	Survey - PRINCIPLES OF SOLAR RADIATION: Role and potential of new and renewable
19A27506 b	Computer Applications In Food Industry	2019-20	Programing - Able to Implement the Programs in ‚ÄòC‚Äô to perform various operations that are related to Food Industries.
15A03607	Total Quality Management	2018-19	Field work - TQM ‚Äì overview , concepts, elements ‚Äì History-Quality management philosophies
19A54506 a	Optimization Techniques	2016-17	Programing - The emphasis of this course is on different classical Optimization techniques linear programming and simplex algorithms.
15A03608	Mechatronics	2018-19	Practical - : Definition ‚Äì Trends - Control Methods: Stand alone, PC Based (Real Time Operating Systems, Graphical User Interface, Simulation) - Applications: SPM,
19A52506 a	Technical Communication And Presentation Skills	2019-20	Practical - To enhance the documentation skills of the students with emphasis on formal and informal writing
19A51506 a	Chemistry Of Energy Materials	2019-20	Research Work - To make the student understand basic electrochemical principles such as standard electrode potentials, emf and applications of electrochemical principles in the design of batteries
15A01608	Intellectual Property Rights	2018-19	Field work - Trade Marks : Purpose And Function Of Trade Marks, Acquisition Of Trade Mark
19A03501 P	Applied Thermodynamics Lab	2019-20	Practical - Understand the functioning and performance of I.C. Engines
15A03609	Heat Transfer Laboratory	2018-19	Practical - Thermal conductivity of insulating powder material through Concentric Sphere apparatus. 2. Thermal conductivity of insulating material through lagged pipe apparatus 3. Overall heat transfer co-efficient through Composite Slab Apparatus
19A03502 P	Manufacturing Technology Lab	2019-20	Practical - Familiarize the construction and working of various machine tools.
15A03610	Computer Aided Engineering Lab (Cae Lab	2018-19	Practical - 1. Analysis of a rectangular plate with a hole. 2. Analysis of a truss member under loading. 3. Analysis of a bracket plate with axial loadin
19A03403 P	Fluid Mechanics And Hydraulic Machinery Lab	2019-20	Practical - The object of the course to make the students understand the fluid flow concepts and get familiarity with flow measuring devices.
15A52602	Advanced English Language Communication Skills (Aelcs) Lab (Audit Course)	2018-19	Programming - The introduction of the Advanced Communication Skills Lab is considered essential at 3rd year level. At this stage, the students need to prepare themselves for their careers which may require them to listen to, read, speak and write in English both for their professional and
19A03507	Socially Relevant Project	2019-20	Internship - To understand the importance of SOCIALLY RELEVANT PROJECT
15A52601	Management Science	2018-19	Research work - ntroduction to Management: Concept-Nature and Importance of Management, Functions-Evaluation of Scientific Management,
15A03701	Automobile Engineering	2018-19	Field work - : Components of a Four Wheeler Automobile ‚Äì Chassis and Body ‚Äì Power Unit ‚ÄìPower Transmission ‚Äì Rear Wheel Drive, Front Wheel Drive, Four Wheel Drive ‚Äì Types of Automobile Engines, Engine Construction, Turbo Charging and Super
15A03702	Cad/Cam	2018-19	Programing - Overview of CAD/CAM: Product cycle, CAD, CAM and CIM. CAD Tools, CAM Tools, Utilization in an Industrial Environment, Evaluation criteria. CAD standards, CAD data structure, Data base management systems. Computer Graphics: Co-ordinate systems, Graphics package functions, 2D and 3D transformations, homogeneous

			transformations, clipping, hidden line / surface removal
15A03703	Metrology And Measurements	2018-19	Field work - LIMITS, FITS and TOLERNCES : Introduction, Definitions, fits and their types ,Äì unilateral and bilateral tolerance system, hole and shaft basis systems ,Äì interchangeability and selective assembly. Indian standard system ,Äì International Standard organization system for plain work. LIMIT GAUGES and GAUGE DESIGN: Plug, Ring, Snap, Gap, Taper gauges. Taylor,Äôs principle. Design of Go and No Go gauges. COMPARATORS: Principle of Measurement with Mechanical, Optical, Electrical,
19A03601	Design Of Machine Elements	2019-20	Research Work - Familiarize with fundamental approaches to failure prevention for static and dynamic loading.
15A03704	Refrigeration And Air Conditioning	2018-19	Research Work - Introduction to Refrigeration: Necessity and Applications, Carnot Refrigerator, First and Second Law Applied to Refrigerating Machines, Unit of Refrigeration, COP, EER, Different Refrigeration Methods Air Refrigeration: Bell-Coleman Cycle, Ideal and Actual Cycles, Open and Dense Air Systems -Numerical Problems ,Äì Refrigeration Needs of Air Crafts.
19A03602 T	Introduction To Cad/Cam	2019-20	Programing - Familiarize numerical control (NC), computer numerical control (CNC) and direct numerical control (DNC) machines.
15A03705	Tool Design (Cbcc-Ii)	2018-19	Research Work - UNIT I Tool materials: Ferrous, non ferrous, materials, heat treatment, plastics Classification of moulds used in processing of plastics, Design of injection, blow, and compression moulds.
19A52601 T	English Language Skills	2019-20	Practical - Provide training and opportunities to develop fluency in English through participation in formal group discussions and presentations using audio-visual aids
15A03706	Modern Manufacturing Methods (Cbcc- Ii	2018-19	Field work - Ultrasonic machining ,Äì Elements of the process, mechanics of material removal, process parameters, applications and limitations. Abrasive jet, Water jet and abrasive water jet machining: Basic mechanics of material removal, descriptive of equipment, process variables, applications and limitations.
19A03603 a	Introduction To Turbo Machinery	2019-20	Field work - Axial flow, radial flow and mixed flow machines
15A03707	Computational Fluid Dynamics (Cbcc-Iii)	2018-19	Field work - INTRODUCTION: Methods to solve a physical problem , numerical methods , brief comparison between FDM, FEM & FVM, applied numerical methods. Solution of a system of simultaneous linear algebraic equations, Iterative schemes of matrix inversion, direct methods for matrix inversion, direct methods for baned matrices. Finite difference applications in heat conduction and convention, heat conduction, steady heat conduction in a rectangular geometry, transient heat conduction, finite difference
19A03603 b	Fundamentals Of Additive Manufacturing	2019-20	Field work - Additive manufacturing processes, Extrusion, Beam deposition, sheet lamination, photo polymerization, sintering, powder bed fusion
15A03708	Automation And Robotics (Cbcc- Iii)	2018-19	Practical - Introduction to Automation: Need, Types, Basic elements of an automated system, Manufacturing Industries, Types of production, Functions in manufacturing, Organization and information processing in manufacturing, Automation strategies and levels of automation. Hardware components for automation and process control, mechanical feeders,
19A03603 c	Introduction To Composites	2019-20	Research work - Analysis & Performance of Fiber Composites
15A03709	Production And Operations Management (Cbcc-Iii	2018-19	Field work - Functions of Production Planning & Controls operations & productivity, productivity measurement, Design of goods and services: selection, generating new products, product development, issues in product design. Strategies for aggregates planning, aggregate planning using O.R. Models, Chase
19A03603 d	Computational Fluid Dynamics	2019-20	Research Work - Introduction to Computational Fluid Dynamics
15A03710	Cad/Cam Laboratory	2018-19	Practical - 15A03710
15A03710	Cad/Cam Laboratory	2018-19	Practical - I. 2D Drafting using Auto CAD or any drafting package II. 3D Modeling : 1. Modeling of Component in 3D ,Äì V block 2. Modeling of Component in 3D ,Äì Open Bearing 3. Modeling of Component in 3D ,Äì Angular block 4. Modeling of Component in 3D ,Äì Dovetail Guide 5. Modeling of Component in 3D ,Äì Dovetail Bracket 6. Modeling of

			Component in 3D ,Äì Tool post Geometric Modeling may be done Using Auto CAD or Pro-E or CATIA or
19A03603 e	Engineering Fracture Mechanics	2019-20	Practical - EFM Course outline and Spectacular Failures
15A03711	Metrology & Measurements Laboratory	2018-19	Practical - Section A: 1. Measurement of bores by internal micrometers and dial bore indicators. 2. Use of gear teeth vernier calipers and checking the chordal addendum and chordal height of spur gear. 3. Alignment test on the lathe and milling machine 4. Study of Tool makers microscope and its application 5. Angle and taper measurements by Bevel protractor, Sine bars, spirit level etc. 6. Thread measurement by Two wire/ Three wire method. 7. Surface roughness measurement by Talysurf instrument. 8. Use of straight edge and sprit level in finding the flatness of surface plate.
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19A01604 a	Industrial Waste And Waste Water Management	2019-20	Survey - To teach material balance and design aspects of the reactors used in waste water treatment.
19A01604 b	Building Services And Maintainance	2019-20	Field Work - To insists the student to observe various practices of good building maintenance
15A03711	Metrology & Measurements Laboratory	2018-19	Practical - Measurement of bores by internal micrometers and dial bore indicators. 2. Use of gear teeth vernier calipers and checking the chordal addendum and chordal height of spur gear. 3. Alignment test on the lathe and milling machine 4. Study of Tool makers microscope and its application 5. Angle and taper measurements by Bevel protractor, Sine bars, spirit level et
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			milling machine 4. Study of Tool makers microscope and its application 5. Angle and taper measurements by Bevel protractor, Sine bars, spirit level et
19A02604 a	Industrial Automation	2019-20	Field work - To understand the concepts of automation cycle and hardware components
15A03711	Metrology & Measurements Laboratory	2018-19	Practical - 1. Measurement of bores by internal micrometers and dial bore indicators. 2. Use of gear teeth vernier calipers and checking the chordal addendum and chordal height of spur gear. 3. Alignment test on the lathe and milling machine 4. Study of Tool makers microscope and its applicatio
19A02604 b	System Reliability Concepts	2019-20	Research Work - The Basic concepts, rules for combining probabilities of events, failure density and distribution functions.
15A03801	Industrial Engineering (Moocs-Ii	2018-19	Survey - Plant Location: Definition, Factors affecting the Plant Location, Comparison of Rural and Urban sites, Selection of Plant Location ,Äì Types of Production; Plant Layout: Definition, Objectives, Types of Plant Layout - Materials Handling: FunctionsObjectives ,Äì Types, Selection Criteria of Material Handling Equipment.
19A04604 a	Basics Of Vlsi	2019-20	Research Work - Learn and Understand IC Fabrication process steps required for various MOS circuits
15A03802	Product Design (Moocs-Ii)	2018-19	Research Work - PRODUCT DEVELOPMENT PROCESS General problem solving process - Flow of Work during the process of designing - Activity Planning Timing and scheduling, Planning Project and Product Costs - Effective Organization Structures - Interdisciplinary Cooperation, Leadership and Team behavior
19A04604 b	Principles Of Communication Systems	2019-20	Research Work - To apply the concept of various modulation schemes to solve engineering problems.
15A03803	Composite Materials (Moocs-Ii)	2018-19	Research Work - Manufacturing methods: Autoclave curing, tape production, moulding methods, filament winding, hand layup, pultrusion, RTM. Compression moulding, tape winding. Macromechanical Analysis of a Lamina: Introduction ,Definitions: Stress, Strain ,Elastic Moduli, Strain Energy. Hooke,Äôs Law for Different Types of Materials, Plane Stress Assumption, Reduction of Hooke,Äôs Law in Three Dimensions to Two Dimensions, Relationship of Compliance and Stiffness Matrix to Engineering Elastic
19A05604 a	Fundamentals Of Vr/Ar/Mr	2019-20	Programming - Understand the foundational principles describing how hardware, computer vision algorithms function
15A03804	Power Plant Engineering (Moocs-Iii)	2018-19	Industrial Visit - Steam Power Plant : Modern High Pressure and Supercritical Boilers - Analysis of Power Plant Cycles - Modern Trends in Cycle Improvement - Waste Heat Recovery, Fluidized Bed Boilers., Fuel and Handling Equipments, Types of Coals, Coal Handling, Choice of Handling Equipment, Coal Storage, Ash Handling Systems. Steam Power Plant : Combustion Process : Properties of Coal ,Äì Overfeed and Under Feed Fuel Beds, Traveling Grate Stokers, Spreader Stokers, Retort Stokers, Pulverized Fuel Burning System And Its Components, Combustion Needs and Draught System, Cyclone Furnace, Design and Construction, Dust Collectors, Cooling Towers And Heat Rejection. Analysis of Pollution from Thermal Power Plants - Pollution Controls.CO2
19A05604 b	Data Science	2019-20	Internship - Understand the approaches for handling data related problems
19A27604 a	Food Toxicology	2019-20	Research Work - To know the various toxins and their evaluation.
15A03805	Gas Turbines And Jet Propulsion (Moocs- Iii)	2018-19	Research Work - Jet propulsion: Historical sketch- reaction principle- essential features of propulsion devices- Thermal jet engines, classification of ,Äì energy flow, thrust, thrust power and propulsion efficiency- need for thermal jet engines and applications.
19A27604 b	Food Plant Equipment Design	2019-20	Programming - To study the design of evaporators, dryers, crystallizers and etc.
15A03806	Energy Management (Moocs-Iii)	2018-19	Research Work - Types of projects- Purpose of project management - Classification ,Äì Role and qualities of project manager - Types of budgets
19A54604 a	Wavelet Transforms And Its Applications	2019-20	Research Work - This course provides the students to understand Wavelet transforms and its applications.
19A52604	Soft Skills	2018-19	Practical - To provide students with interactive practice sessions to make

			them internalize soft skills
19A51604 a	Chemistry Of Polymers And Its Applications	2019-20	Research Work - To synthesize the different polymeric materials and their characterization by various instrumental methods.
19A52602 a	Entrepreneurship & Incubation	2019-20	Practical - To enable the student in knowing various sources of generating new ideas in setting up of New enterprise
19A52602 b	Managerial Economics And Financial Analysis	2019-20	Field Work - To make the students learn how demand is estimated for different products, inputoutput relationship for optimizing production and cost
19A52602 c	Business Ethics And Corporate Governance	2019-20	Field Work - Encourage the student in knowing them about the corporate governance
19A52602 d	Enterprise Resource Planning	2019-20	Internship - To aim at preparing the students, technologically competitive and make them ready to self-upgrade with the higher technical skills.
19A52602 e	Supply Chain Management	2019-20	Field Work - To provide Knowledge on logistics and supply chain management
19A03503 P	Heat Transfer Lab	2019-20	Practical - Gain knowledge about natural and force convection phenomenon
19A52601 P	English Language Skills Lab	2019-20	Practical - students will cultivate the habit of reading passages from the computer monitor. Thus providing them with the required facility to face computer based competitive exams like GRE, TOEFL, and GMAT etc.
19A99601	Research Methodology	2019-20	Research Work - To make the students learn about various types of data collection and sampling design
19A03701	Operations Research	2019-20	Survey - To impart the basic concepts of modeling, models and statements of the operations research.
19A03702 T	Metrology And Measurements	2019-20	Practical - Introduce the basic concepts of metrology and measurement methods.
19A03703 a	Automotive Transmission System	2019-20	Research Work - Impart principle of operation and performance of various hydrostatic and electric drives provide.
19A03703 b	Simulation And Modelling Of Manufacturing Systems	2019-20	Programming - Explain the concept of modeling and simulation of manufacturing systems.
19A03703 c	Mechanical Behaviour Of Materials	2019-20	Practical - Familiarize the defects inside the structure and their effects on the mechanical properties.
19A03703 d	Solar And Wind Energy	2019-20	Industrial Visit - Familiarize with basics of solar radiation, available solar energy and its measurement.
19A01704 a	Air Pollution And Control	2019-20	Field Work - To understand the working of air pollution control equipments.
19A01704 b	Basics Of Civil Engineering	2019-20	Field Work - To identify the traditional materials that are used for building constructions
19A02704 a	Renewable Energy Systems	2019-20	Field Work - Understand the use of biomass energy and the concept of Ocean energy and fuel cells.
19A02704 b	Electric Vehicle Engineering	2019-20	Research Work - To get exposed to new technologies of battery electric vehicles, fuel cell electric vehicles
19A04704 a	Introduction To Microcontrollers & Applications	2019-20	Practical - Describe theArchitecture of 8051 Microcontroller and Interfacing of 8051 to external memory.
19A04704 b	Principles Of Digital Signal Processing	2019-20	Programming - To find Discrete Fourier Transform of a sequence by using Fast Fourier Transform.
19A05704 a	Fundamentals Of Game Development	2019-20	Programming - Get familiarized with the various components in a game and game engine.
19A05704 b	Cyber Security	2019-20	Programming - Understand essential building blocks andbasic concepts of cyber security
19A27704 a	Corporate Governance In Food Industries	2019-20	Field Work - To understand the concepts of corporate governance in view of food industry
19A27704 b	Process Technology For Convenience &	2019-20	Field Work - To understand the importance and demand for convenience foods in present day scenario

	Rte Foods		
19A54704 a	Numerical Methods For Engineers	2019-20	Research Work - This course aims at providing the student with the knowledge on various numerical methods for solving equations, interpolating the polynomials, evaluation of integral equations and solution of differential equations.
19A51704 a	Chemistry Of Nanomaterials And Applications	2019-20	Research Work - To understand synthetic principles of Nanomaterials by various methods
19A52701 a	Organisational Behaviour	2019-20	Practical - To enable them to develop self motivation, leadership and management
19A52701 b	Management Science	2019-20	Practical - To provide fundamental knowledge on Management, Administration, Organization & its concepts.
19A52701 c	Business Environment	2019-20	Industrial Visit - To enable them in knowing the importance of fiscal and monitory policy.
19A52701 d	Strategic Management	2019-20	Internship - To introduce the concepts of strategic management and understand its nature in
19A52701 e	E-Business	2019-20	Research Work - To exact awareness on internet advertising, market research strategies and supply chain management.
19A03702 P	Metrology And Measurement Laboratory	2019-20	Practical - To experiment with measuring equipments used for linear and angular measurements.
19A03602 P	Introduction To Cad/Cam Lab	2019-20	Programming - To learn part programming and path generation from a CAD model.
19A05406 P	Internet Of Things Laboratory	2019-20	Programming - Select any one development board (Eg., Arduino or Raspberry Pi) and control LED using the board.
19A03801 a	Autotronics	2019-20	Research Work - Introduce role of Automotive Grade Microcontrollers in ECU design and choice of appropriate Hardware and Software.
19A03801 b	Mechanical Vibrations	2019-20	Practical - Demonstrate basic concepts and definitions of mechanical vibrations. To write equation of motion for discrete spring-mass systems with different configuration using classical and energy methods.
19A03801 c	Refrigeration And Air Conditioning	2019-20	Research Work - Provides insights in how thermodynamic principles are applied within the refrigeration and air conditioning industry.
19A03801 d	Total Quality Management	2019-20	Field work - Introduce the students, the basic concepts of Total Quality Management.
19A01802 a	Disaster Mangement	2019-20	Field Work - Develop an understanding of why and how the modern disaster manager is involved with pre-disaster and post-disaster activities.
19A01802 b	Global Warming And Climate Changes	2019-20	survey - To know the concepts of mitigation measures against global warming
19A02802 a	Iot APPLICATIONS IN ELECTRICAL ENGINEERING	2019-20	Practical - To know about Micro Electro Mechanical Systems (MEMS) fundamentals in design and fabrication process
19A02802 b	Smart Electric Grid	2019-20	Internship - To understand about smart grid architecture and technologies
19A04802 a	Introduction To Image Processing	2019-20	Programming - To interpret fundamental concepts of digital image processing.
19A04802 b	Principles Of Cellular And Mobile Communications	2019-20	Practical - To apply the concepts of cellular systems to solve engineering problems.
19A04802 c	Industrial Electronics	2019-20	Practical - Describe semi-conductor devices (such as PN junction diode & Transistor) and their switching characteristics.
19A04802 d	Electronic Instrumentation	2019-20	Practical - To familiarize the characteristics, operations, calibrations and applications of the different oscilloscopes and signal generators.
19A05802 a	Blockchain Technology	2019-20	Programming - Understand the philosophy of Blockchain and the cutting edge technology behind its functions
19A05802 b	Mean Stack Technologies	2019-20	Programming - Write optimized front end code using HTML and JavaScript
19A27802 a	Food Plant Utilities & Services	2019-20	Field Work - To give brief idea about the utilities that are required/used in food industry and their sources and importance
19A27802 b	Nutraceuticals And Functional Foods	2019-20	Survey - Cite the evidence supporting the efficacy and safety of nutraceutical and functional food products

19A54802 a	Mathematical Modeling & Simulation	2019-20	Research Work - This course focuses on what is needed to build simulation software environments, and not just building simulations using preexisting packages.
19A51802 a	Green Chemistry And Catalysis For Sustainable Environment	2019-20	Research Work - Learn an interdisciplinary approach to the scientific and societal issues arising from industrial chemical production, including the facets of chemistry and environmental health sciences that can be integrated to promote green chemistry and the redesign of chemicals, industrial processes and products.
19A03H01	Alternative Fuels And Emission Control In Automotives	2019-20	Research Work - Explain various alcohol and gaseous fuels and their use in SI and CI engines.
19A03H02	Robotics And Applications In Manufacturing	2019-20	Practical - Apply the basic mathematics to calculate kinematic and dynamic forces in robot manipulator
19A03H03	Product Marketing	2019-20	Field Work - Familiarize with market information systems and research
19A03H04	Additive Manufacturing	2019-20	Programming - Familiarize of additive manufacturing / rapid prototyping and its applications in various fields.
19A03H05	Mechanics Of Composite Materials	2019-20	Research Work - Teach the practical requirements associated with joining and manufacturing
20A03301 T	Manufacturing Processes	2020-21	Practical - To impart knowledge on plastic deformation, cold and hot working process, working of a rolling mill and types, extrusion processes
20A03302	Thermodynamics	2020-21	Research Work - To introduce the concepts of heat, work, energy and governing rules for conversion of one form to other
20A01305 T	Mechanics Of Materials	2020-21	Research Work - Draw the shear force and bending moment drawings of various beams.
20A01302 P	Fluid Mechanics And Hydraulic Machines Lab	2020-21	Practical - By performing this laboratory, the student will be able to know the fluid flow measurements by considering different types flow measurement devices and working principles of various pumps and motors.
20A03301 P	Manufacturing Processes Lab	2020-21	Practical - Acquire practical knowledge on Metal Casting, Welding, Press Working and unconventional machining Processes
20A01305 P	Mechanics Of Materials Lab	2020-21	Practical - By performing this laboratory, the student will be able to know the structural behavior of various materials
20A03401 T	Applied Thermodynamics	2020-21	Research Work - To familiarize concepts of thermodynamic cycles used in steam power plants and gas turbines
20A03402	Kinetics Of Machinery	2020-21	Practical - Comprehend the fundamentals of kinematics and to understand the concept of machines, mechanisms and related terminologies
20A03403 T	Manufacturing Technology	2020-21	Practical - To impart knowledge on various metal cutting processes. (Lathe, drilling, boring shaping, slotting, milling and grinding).
20A03401 P	Applied Thermodynamics Lab	2020-21	Practical - Understand the functioning and performance of I.C. Engines
20A03403 P	Manufacturing Technology Lab	2020-21	Practical - Familiarize the construction and working of various machine tools.
20A03404	Computer Aided Machine Drawing	2020-21	Programing - Introduce conventional representations of material and machine components
20A10201	Fundamentals Of Electrical Circuits	2021-22	Field work - determine the current through and voltage across any element in the given circuit by using various methods
17A20401	Network Analysis	2017-18	Employability - Analysis of network theorems
20A10301	Engineering Drawing	2021-22	Field work - draw various curves applied in engineering and show projections of solids and sections graphically
20A10302	Engineering Graphics Lab	2021-22	Practical - Draw isometric and orthographic drawings using CAD packages and Use computers as a drafting tool
20A15202	Applied Physics Lab	2021-22	Practical - Elaborate the physical properties exhibited by materials through the understanding of properties of semiconductors and superconductors
20A15303	Chemistry	2021-22	Research work - Apply Nernst equation for calculating electrode and cell potentials, Differentiate between pH metry, potentiometric and conductometric titrations, Explain the theory of construction of battery and fuel cells, Solve problems based on cell potential
20A10402	Electronic Devices & Circuits	2021-22	Field work - Design an amplifier using BJT based on the given specifications and Analyze diode circuits for different applications such as rectifiers,

			clippers and clampers also analyze biasing circuits of BJTs, and MOSFETs
20A10303	Engineering Workshop	2021-22	Practical - apply different types of basic electric circuit connections and fitting operations in various applications
20A10508	It Workshop	2021-22	Practical - Prepare Slide presentations using the presentation tool and Prepare the Documents using Word processors and Prepare spread sheets for calculations .using excel and also the documents using LAteX
20A15304	Chemistry Lab	2021-22	Practical - Apply the physical properties like surface tension, adsorption and viscosity and estimate the Iron and Calcium in cement
20A10803	Electronic Devices & Circuits Lab	2021-22	Practical - design rectifier circuits and various amplifier circuits using BJTs and MOSFETs,Applying the basic principles solving the problems related to Semiconductor diodes, BJTs, and MOSFETs
17A20402	Electronic Devices	2017-18	Employability - Introduction to Semiconductor Devices
20A10202	Fundamentals Of Electrical Circuits Lab	2021-22	Practical - apply various theorems for circuit analysis,measure active power for a three phase A.C circuit by using one and two wattmeter method
20A35102	Complex Variables & Transform Techniques	2021-22	Research work - To Develop skills in analyzing the Properties of Fourier series for a given function, Understand the analyticity of complex functions and conformal mapping and Apply Cauchy‚Äôs integral formula and Cauchy‚Äôs integral theorem to evaluate improper integrals along contours.
17A20403	Electronic Devices Lab	2017-18	Employability - Practically designing and verifying the characteristics of Electronic Devices
20A30201	Electrical Circuit Analysis	2021-22	Field work - Apply the concepts two port network parameters on electrical circuits, Fourier transforms to electrical circuits excited by non-sinusoidal sources and to determine the transient response of R-L, R-C, R-L-C series circuits for d.c and a.c excitations
17A30402	Electronic Circuits - I	2017-18	Employability - Design and Analysis of Electronics circuits
20A30202	Dc Machines & Transformers	2021-22	Industrial Visit - Design winding diagrams of DC machines and equivalent circuit of transformer and analyze the performance characteristics with the help of OC and SC tests of transformer
17A30403	Signals And Systems	2017-18	Employability - Using various signals and designing systems
17A30404	Electronic Circuits ‚Äì I Lab	2017-18	Employability - Practically designing and Analyzing Electronics circuits
20A30404	Digital Logic Design	2021-22	Field work - Design various logic circuits using Boolean algebra, combinational and sequential logic circuits.
17A30405	Basic Simulation Lab	2017-18	Employability - Practically designing systems and simulating
20A39101 a	Managerial Economics And Financial Analysis	2021-22	Survey - Apply the concepts of production, cost and revenues for effective business decisions and Understand the fundamentals of Economics viz., Demand, Production, cost, revenue and markets
20A39101 b	Entrepreneurship And Incubation	2021-22	Research work - Analyze various sources of finance and subsidies to entrepreneur/women Entrepreneurs and Create and design business plan structure through incubations
20A39101 c	Business Ethics And Corporate Governance	2021-22	Field work - Apply the knowledge in cross cultural ethics and Evaluate corporate governance
20A30203	Electrical Circuit Analysis Lab	2021-22	Practical - Apply and experimentally analyze two port network parameters and Understand and analyze various current locus diagrams and active, reactive power measurements in three phase circuits
20A30204	DC Machines & Transformers L Ab	2021-22	Practical - Apply the above tests on transformers, DC shunt motors and DC long and short compound generators
20A30405	Digital Logic Design Lab	2021-22	Practical - Design of any sequential/combinational circuit using Hardware/ HDL.: Analyze the sequential and combinational circuits
20A30205	Python Programming	2021-22	Programming - Apply the above basic concepts to create user defined functions or make use of the built in functions to solve various problems
20A19101	Universal Human Values	2021-22	Research work - ply what they have learnt to their own self in different day-todaysettings in real life and Understand awareness of oneself, and one‚Äôs surroundings
20A45101	Numerical Methods & Probability Theory	2021-22	Research Work - apply Probability theory to find the chances of happening of events and numerical methods to solve algebraic and transcendental equations

20A40409	Analog Electronics	2021-22	Field work - Apply various types of electronic circuits to solve engineering problems and Design electronic circuits for a given specification
20A40201	Power Electronics	2021-22	Field work - Analyze the voltage and current waveforms at various elements in the designed converter in different conduction modes of operation
20A40203	Electromagnetic Field Theory	2021-22	Industrial Visit - Apply the concepts and laws in different charges in electrostatics, magneto statics and Time varying fields, Analyze the physical quantities of electromagnetic and time varying fields using the fundamental laws
20A40410	Analog Electronics Lab	2021-22	Practical - Design multistage amplifiers, OP AMP based analog circuits and Combinational and Sequential logic circuits
20A40204	Power Electronics Lab	2021-22	Practical - Understand and analyze various characteristics of power electronic devices with gate firing circuits and forced commutation techniques
17A40401	Electromagnetic Field Theory	2017-18	Employability - Introduction to Electromagnetic Field Theory
20A40206	Circuits Simulation & Analysis Using PSPICE	2021-22	Research work - Apply PSPICE on various power electronic circuits to analyze voltages, currents through the load and total harmonic distortion in the circuits
17A40402	Switching Theory And Logic Design	2017-18	Employability - Introduction to Combinational and sequential circuits
20A49102	Design Thinking For Innovation	2021-22	Internship - Apply the design thinking techniques for solving problems in various sectors and Analyse to work in a multidisciplinary environment
17A40403	Electronic Circuits - Ii	2017-18	Employability - Design and Analysis of Advanced Electronics circuits
17A40404	Networks And Transmission Lines	2017-18	Employability - Introduction to Networks and Transmission Lines
17A40406	Electronic Circuits ‚Äì Ii Lab	2017-18	Employability - Practically designing and Analyzing Advanced Electronics circuits
17A50401	Linear Ic Applications	2017-18	Employability - Designing Linear IC circuits
17A50402	Analog Communication Systems	2017-18	Employability - Introduction to Analog Communication Systems
17A50404	Antennas And Wave Propagation	2017-18	Employability - Study various Antennas and Wave guides and their properties
17A50403	Digital Design Using VHDL	2017-18	Employability - Design Digital systems using VHDL
17A50405	Linear Ic Applications Lab	2017-18	Employability - Practically designing Linear IC circuits
17A50406	Analog Communication Systems Lab	2017-18	Employability - Design and analyze Analog Communication Systems
17A50407	Vhdl Programming Lab	2017-18	Employability - Design Digital systems using VHDL
17A60401	Microprocessors And Microcontrollers	2017-18	Employability - Study Microprocessors and Microcontrollers and programming
17A60404	Digital Signal Processing	2017-18	Employability - Design and analyze Digital Signal Processing systems
17A60403	Digital Communication Systems	2017-18	Employability - Design Digital Communication Systems
17A60402	Vlsi Design	2017-18	Employability - Introduction to VLSI Design
17A60409	Digital Communication Systems Lab	2017-18	Employability - Design and verify Digital Communication Systems
17A60408	Microprocessors And Microcontrollers Lab	2017-18	Employability - Microprocessors and Microcontrollers programming
17A70401	Electronic Measurements & Instrumentation	2017-18	Employability - Introduction to Electronic parameter measuring circuits and instruments

17A70402	Optical Communications	2017-18	Employability - Introduction to Optical Communications
17A70403	Microwave Engineering	2017-18	Employability - Introduction to Microwave Engineering
17A70404	Elective ,Äi I Data Communications & Networking	2017-18	Employability - Introduction to Data Communications & Networking
17A70405	Elective ,Äi I Television Engineering	2017-18	Employability - Introduction to Television Engineering
17A70406	Elective ,Äi I Radar Engineering	2017-18	Employability - Introduction to Radar Engineering
17A70410	Digital Signal Processing Lab	2017-18	Employability - Design and program Digital Signal Processing systems
17A70411	Microwave & Optical Communications Lab	2017-18	Employability - Verify the functionality of Microwave and Optical communication setup
17A80401	Elective ,Äi Ii Embedded Systems	2017-18	Employability - Introduction to Embedded Systems
17A80402	Elective ,Äi II Coding Theory And Techniques	2017-18	Employability - Introduction to Coding Theory and Techniques
17A80403	Elective ,Äi Ii Satellite Communications	2017-18	Employability - Introduction to Satellite Communications
17A80404	Elective ,Äi Iii Digital Image Processing	2017-18	Employability - Introduction to Digital Image Processing
17A80405	Elective ,Äi Iii Scripting Languages	2017-18	Employability - Introduction to Scripting Languages
17A80406	Elective ,Äi Iii Rf Circuit Design	2017-18	Employability - Introduction to RF Circuit Design
17A80407	Elective ,Äi Iv Artificial Intelligence	2017-18	Employability - Introduction to Artificial Intelligence
17A80408	Elective ,Äi IV Data Compression And Encryption	2017-18	Employability - Introduction to Data Compression and Encryption techniques
17A80409	Elective ,Äi Iv Cellular & Mobile Communications	2017-18	Employability - Introduction to Cellular & Mobile Communications
19A50201	Micro Processor And Micro Controllers	2021-22	Field work - Design and Develop simple programming exercises of 8086 microprocessor, 8051 microcontroller interfacing with other devices and its applications, FPGA based Xilinx- HDL Programming
19A50202	Electrical And Electronic Measurements	2021-22	Field work - Design and development of various voltage and current measuring meters and the varieties of issues coming up in the field of electrical measurements.
17A80410	Seminar	2017-18	Employability - Seminar
19A50203	Analog Electronic Circuits	2021-22	Field work - Design and realize different classes of power amplifiers and tuned amplifiers useable for audio and radio applications
17A80411	Project Work	2017-18	Employability - Project Work
19A50204	Electrical Distribution System Analysis And Automation	2021-22	Industrial Visit - evaluate power loss and feeder cost and understand the basics of distribution systems and substations principles of SCADA, Automation distribution system and management
19A50205	Dc Drives	2021-22	Industrial Visit - analyse different modes of operation of converters and control strategies, understand basics of Chopper control and analysis
19A50206	Advanced Control Systems	2021-22	Field work - design state variable models and its solution for various systems and solving discrete and continuous linear state regulator systems
19A50207	Energy Storage	2021-22	Research work - understand about marketing and management strategies of

	Systems		ESS in working environment in future and the Principle, features and benefits of ESS
19A50208	Electrical Engineering Materials	2021-22	Research work - Apply where the materials are applicable based on properties of materials and Design and develop Residential wiring, go down wiring and earthing.
19A50209	Illumination Technology	2021-22	Research work - Evaluate different types of lighting designs and applications and Identify the criteria for the selection of lamps and lighting systems for an indoor oroutdoor space
19A55501	English Language Skills	2021-22	Field work - apply writing skills in order to meet the demands of work place environment and analyze verbal and non-verbal interpretations in multicultural context.
19A55402	English Language Skills Lab	2021-22	Practical - apply extensive and intensive reading methods for specific reading and voracious reading of vast material and evaluate and develop, academic research paper with appropriate citations, quotations, and references when needed
19A50211	Electronic Circuits Lab	2021-22	Practical - Design, simulate and test diode as a rectifier, clipper and clamper and analyze, design, simulate and test the low frequency amplifier circuits using BJT
19A50212	Socially Relevant Project	2021-22	Internship - Understand and analyze the social problems and Suggest proper solutions to problems
19A55404	Constitution Of India	2021-22	Field work - Develop themselves as responsible citizens and pave way to build a democratic country, Analyze the decentralization of power between central, state and local selfgovernment
19A60201	Power System Analysis	2021-22	Industrial Visit - Analyse the symmetrical faults and unsymmetrical faults and done the fault calculations, analyse the stability of the system and improve the stability. Demonstrate the use of these techniques through good communication skills
19A60202	Digital Signal Processing	2021-22	Research work - Understanding of different transformation techniques, Compute the linear and circular convolutions of discrete-time sequences
19A60204	Analog And Digital IC Applications	2021-22	Research work - Design circuits using operational amplifiers for various applications and various and sequential circuits using digital ICs
19A60205	Programmable Logic Controllers	2021-22	Programmable - Understand the hardware details of Allen Bradley PLC and usage of Easy Veep software
19A60206	Introduction To Embedded System Design	2021-22	Research work - Design Procedure for Embedded Firmware and evaluate the Correlation between task synchronization and latency issues.
19A60207	Renewable Energy Sources	2021-22	Field work - Understand the use of biomass energy and the concept of Ocean energy and fuel cells
19A60208	Instrumentation	2021-22	Field work - Understand the concepts of different modulations and compare different types of modulations in telemetry system
19A60209	Industrial Electrical Systems	2021-22	Industrial Visit - Understand the electrical wiring systems for residential, commercial and industrial consumers,representing the systems with standard symbols and drawings, SLD
19A60210	Electrical & Electronic Measurements Lab	2021-22	Practical - Compute the coefficient of coupling between two coupled coils and Calibrate various electrical measuring instruments
19A60211	Micro Processor And Micro Controllers Lab	2021-22	Practical - Interfacing 8051 Microcontroller with its peripheral devices and various devices with 8086.
19A55401	Research Methodology	2021-22	Research work - Analyze the importance of research articles in their academic discipline and Understand the concept of sampling, research design
17A70201	Electric Power Distribution Systems	2021-22	Industrial Visit - Design and develop different types of distribution feeders, bus bar arrangements and optimal location of substation. Implement them in solving real life issues of distribution systems
17A70203	Power System Operation And Control	2021-22	Industrial Visit - Analyze the concept of Control Centers and Security. Calculate the estimated values by using various methods
17A70204 a	Plc & Its Applications	2021-22	Research Work - Designing of control circuits for various applications and Implementation of Ladder logic for various Industrial applications
17A70204 b	Solar Energy Conversion Systems	2021-22	Research work - Design of DC-Dc converters for getting maximum power and solar cells and PV modules depends on ratings

17A70204 c	Optimization Techniques	2021-22	Research Work - Understand Basic theoretical principles in optimization and Formulation of optimization models, solution methods in optimization
17A70205 a	Special Electrical Machines	2021-22	Field work - Understand the Variable Reluctance (VR) Stepping Motors characteristics, operation and able to do position control
17A70205 b	Hvdc Transmission	2021-22	Industrial Visit - Understand the operation of various converters used in HVDC transmission systems and Design HVDC Filters
17A70205 c	Facts Controllers	2021-22	Industrial Visit - Design simple FACTS controllers and converters for better transmission of electric power,Understand operation of different FACTS devices and their applications
17A70206	Power Systems & Simulation Lab	2021-22	Practical - apply good practical knowledge about the Load flow studies using Ybus, Zbus, GaussSeidal and Fast Decoupled methods using MATLAB
17A70207	Digital Signal Processing Lab	2021-22	Practical - Interfacing of DSP processor with other peripherals and implement various digital filters
17A80201 a	Power Quality	2021-22	Research Work - Understand the effect of harmonics in the system and about the equipment that are effected from the harmonics
17A80201 b	Modern Control Theory	2021-22	Research work - Apply optimal control to statement of the optimal control problems Design an adaptive control and Analyze the system stability
17A80201 c	Switched Mode Power Converters	2021-22	Field work - analyze and control the various power converter circuits and understand fundamental concepts of DC - DC Converters
17A80202 a	Utilization Of Electrical Energy	2021-22	Field work - Understand the performance of simple resistance furnaces, modern welding techniques, illumination schemes and electric traction
17A80202 b	Costing Of Electrical Systems	2021-22	Field work - estimate of quantity and cost of the material for a electrical project, repairs and maintenance of electrical devices and equipment
17A80202 c	High Voltage Engineering	2021-22	Research work - Understand the concept of breakdown of solid, liquid and gaseous dielectrics and analyze the breakdown in detail
17A80203 a	Neural Networks & Fuzzy Logic Applications	2021-22	Research - Understand Fuzzy logic concepts and its role in various applications.
17A80203 b	Reliability Engineering And It‚Äôs Applications To Power Systems	2021-22	Field work - Understand concept of Markov modeling and component repairable models for frequency and duration
17A80203 c	Power System Deregulation	2021-22	Research Work - Understand the key issues of restructured power systems and its financial matters and Understand about different cost allocation method in the power systems
17A80203 d	Electrical Machine Design	2021-22	Practical - Design of Synchronous machine,Induction motor and Transformer
17A80204 b	Grid Integration Of Distributed Generation	2021-22	Industrial Visit - Understand about the distribution generation system connected with various power generation plants and Gain the knowledge on smart grid by various techniques for better efficiency in transmitting the power.
17A80204 c	Energy Auditing & Demand Side Management	2021-22	Survey - Analyze efficiency of motors and improvement of power factor and Understand the Energy Economic analysis and Demand side management
21D21101	Advanced Power System Protection	2021-22	Industrial Visit - Design protection devices and circuits like heat sinks, voltage and current protection circuits.
21D21102	Power System Security And State Estimation	2021-22	Research Work - : Apply the methods for evaluating the bus matrices, sparsity, DC power flow, AC power flow, estimating a value and Available Transfer Capability (ATC)
21D21103 a	Machine Learning Application To Power Systems	2021-22	Research work - Apply the algorithms to determine the constrained and unconstrained problem using genetic algorithm and Analyse about the artificial neural network, training and testing of ANN, concepts of genetic algorithm
21D21103 b	Modelling And Analysis Of HVDC Systems	2021-22	Research work - Analyze the different modes of operation for six pulse & twelve pulse converter unit in the context of HVDC system
21D21103 c	Power System Optimization	2021-22	Research Work - Analyze the concept of different optimization techniques in real world applications and Design the methods of optimization for real life situation
21D21104 a	Solar & Wind Energy Conversion	2021-22	Research work - Design of PV powered DC fan without battery, Standalone system with DC load using MPPT, PV powered DC pump, standalone system

	Systems		with battery and AC/DC load and control principles of Wind turbine
21D21104 b	Smart Grid Technologies	2021-22	Research work - Apply the knowledge about the measurement system and communication technology of smart grid and Determine the quality, efficiency and security of power supply
21D21104 c	Electric Vehicle Engineering	2021-22	Research work - analyze fuel cell technologies in EV and HEV systems and the battery charging and controls required of EVs
21D21105	Machines & Power Systems Lab	2021-22	Practical - Apply the computational results to solve the original power system problems and Analyze the data for and compute the data to obtain results
21D21106	Power Systems Simulation Lab	2021-22	Practical - Develop software for power system industry to solve various issues and apply computational methods for large scale power system studies
21D21201	Power System Stability And Control	2021-22	Research Work - Analyze system responses to small disturbances and concept of dynamic stability and power system stabilizers
21D21203 a	Power System Wide Area Monitoring & Control	2021-22	Research Work - Study about Voltage stability, prevention of voltage collapse and dynamic stability analysis.
21D21203 b	Modern Control Theory	2021-22	Research work - Understand the state space representation, controllability and observability concepts, principles of duality, concepts of optimal and Lyapunov stability
21D21203 c	Reactive Power Compensation & Management	2021-22	Field work - Understand the importance of load compensation in symmetrical as well as unsymmetrical loads
21D21204 a	Power Quality	2021-22	Research Work - Apply the concept of power frequency disturbances, types of transients & transient waveforms and Analyze the harmonic methodology & Electromagnetic Interference concepts
21D21204 b	Distributed Generation And Micro Grid Control	2021-22	Industrial Visit - Understand the effect of SCADA & understand the concept of Power quality disturbances, improvement technologies & issues of premium power in DC integration.
21D21204 c	EHVAC Transmission Systems	2021-22	Research work - Analyze travelling waves and the effects of corona like audible noise and Understand the basic concepts of EHVAC
21D21205	Renewable Energy Systems Lab	2021-22	Field work - analyze Power, Voltage & Frequency Measurement of Wind Generator and Understand the Effect of temperature variation and Irradiation on Photovoltaic Array
21D21206	Facts Devices & Simulation Lab	2021-22	Practical - Apply load balancing using Compenasators and Analyse load flow incorporating SVC & STATCOM
21D21301 b	Risk Assessment Of Electrical Power Systems	2021-22	Field work - Understand the risk evaluation concepts, independent and dependent outages, Distribution of failure data
21D21301 c	Power System Automation	2021-22	Research Work - Apply the techniques to get the optimum control in the system by using automation at the substation level and distribution level
19A02701	Measurements & Sensors	2021-22	Research Work - The basic principles of different types of electrical instruments for the measurement of voltage, current, power factor, power and energy,The measurements of RLC parameters using bridge principles.
19A02702	Power System Protection	2021-22	Research Work - The different types of electromagnetic relays and microprocessor based relays ,The protection of Generators , The protection of Transformers
19A02703 a	Power System Operation And Control	2021-22	Research Work - To know about economic load dispatch problems with and without losses in Power Systems, To distinguish between hydro-electric and thermal plants and coordination between them, To understand about optimal power flow problems and solving using specified method
19A02703 b	Switched Mode Power Converters	2021-22	Research work - Understand basic concepts of DC-DC converters , Understand the concepts of resonant converters and their classification, various types of multilevel inverters, power conditioners, UPS and filters.
19A02703 c	Instrumentation	2021-22	Research Work - Measuring system, Common errors, Objectives of Measuring systems , Test signals and modulation phenomenon, Data acquisition system, various telemetry systems and various modulation systems
19A02703 d	Applications Of Power Electronics To Renewable	2021-22	Research work - To introduce certain areas for applications of Power Electronics in Renewable energy sources , To understand about Power Quality issues and converters to be used in Renewable energy sources , To

	Energy Sources		introduce the concept of AC link Universal power converters
19A02705	Power Systems & Simulation Lab	2021-22	Practical - To do the experiments (in machines lab) on various power system concepts like determination of sequence impedance, fault analysis, finding of subtransient reactance‚Äôs. To draw the equivalent circuit of three winding transformer by conducting a suitable experiment.
19A02706	Measurements Lab	2021-22	Practical - Calibration of various electrical measuring instruments , Accurate determination of inductance and capacitance using AC Bridges , Measurement of coefficient of coupling between two coupled coils
19A02801 a	Power Quality	2021-22	Research Work - To learn about voltage disturbances and power transients that is occurring in power systems, To know about voltage sag and transient over voltages for quality of power supply
19A02801 b	Fpga Based Controller Design	2021-22	Research Work - To know about FPGA architecture features and fabrics , To understand about FPGA based systems and basics of VLSI technology , To learn about logic implementation and design aspects of FPGA
17A70501	Softwaretesting	2021-22	Practical - study fundamental concepts in software testing, including software testing objectives, process, criteria, strategies, and methods.
17A70502	Mobileapplicationde velopment	2021-22	Programming - Theory course
17A70504	Cloudcomputing	2021-22	Research Work - outlying the procedure for cloud computing and get a knowledge on cloud related techniques
17A70505 a	Softwareprojectmana gement	2021-22	Field work - Theory course Apply the process to be followed in the software development life-cycle models. ¬∑ Implement communication, modeling, construction & deployment .
17A70505 b	Disastermanagement	2021-22	Research work - Develop a deep understanding of disaster resilience, risk mitigation, and recovery policies as they arise from natural hazards around the globe; Develop the capacity to participate in debates on disaster governance and societal reconstruction.
17A70505 c	Digitalmarketing	2021-22	Industrial visit - Apply key marketing theories, frameworks and tools to solve Marketing problems. Utilise information of a firm's external and internal marketing environment to identify and prioritise appropriate marketing strategies.
17A70506 a	Digitalforensics&Cy berlaws	2021-22	Research work - Make Learner Conversant With The Social And Intellectual Property Issues Emerging From 'Cyberspace. Explore The Legal And Policy Developments In Various Countries To Regulate Cyberspace;
17A70506 b	Serviceorientedarchit ecture	2021-22	employability - Theory course
17A70506 c	Ethicalhacking	2021-22	research work - Learn the hacking techniues. learning the fundamentals of ethical hacking. providing the knowledge of the ethical hacking
17A70507	Softwaretestinglab	2021-22	Practicals - Lab course to acquire the generic software development skill through various stages of software life cycle.
17A70508	Mobileapplicationde velopment Lab	2021-22	Lab - Lab course
19A02801 c	Intelligent Control Techniques	2021-22	Research Work - To get exposed to a few Intelligent Control Techniques , To learn about Artificial Neural Network based Estimators , To learn about Fuzzy Logic Control System as one of the ICT
19A04604 b	Principles Of Communication Systems	2021-22	Research Work - To understand the concept of various modulation schemes and multiplexing, To apply the concept of various modulation schemes to solve engineering problems, To analyse various modulation schemes.
19A02801 d	Energy Storage Systems	2021-22	Research Work - To understand the need for energy storage , To understand about the fundamentals of ESS , To know about types, features and benefits of ESS
17A80502 a	Internet Of Things	2021-22	Research - students understand the IOT tecgniques
17A80502 b	Imageprocessing	2021-22	Programming - students gain the knowledge in processing techniques
17A80502 c	Highperformanceco mputing	2021-22	Practical - students know about concept of performance computing
17A80503 a	Entrepreneurship Development	2021-22	Skill Development - student can get the knowledge on self development. Applyfundamentalalgoriithmsandtechniquesintheareaofnaturallanguageprocess ing. Learn useful systems for language processing and related tasks involving textprocessing

Code	Subject	Year	Description
17A80503 b	Naturallanguageprocessing	2021-22	Research - students can know about advanced techniques
17A80503 c	Machinelearning	2021-22	Research - students get a knowledge on algorithms of machine learning. Understand the concepts of managerial economics and financial analysis for optimal decision making in business environment
19A04701 T	Microwave Engineering And Optical Communications	2021-22	RESEARCH WORK - To understand the wave propagation in waveguides, principle of operation of optical sources, detectors, microwave active and passive devices. ,Ä¢ To apply the boundary conditions of the waveguides to solve for field expressions in waveguides.
19A04702 T	Vlsi Design	2021-22	RESEARCH WORK - To identify the design for testability methods for combinational & sequential CMOS Circuits. ,Ä¢ To understanding of CMOS fabrication flow, technology scaling, sheet resistance, square capacitance and propagation delays in CMOS circuits.
19A04703 a	Satellite Communications	2021-22	REASEARCH WORK - To understand the basic concepts of satellite communications, orbital mechanics and launchers, various subsystems of a satellite and earth station, multiple access techniques, low earth orbit and geo-stationary satellite systems. ,Ä¢ To apply frequency allocation standards, reliability techniques, multiple access techniques power test methods to satellite systems.
19A04703 b	Digital Tv Engineering	2021-22	RESEARCH WORK - To understand standards, principles of transmitters, radio-frequency systems, antennas and antenna patters, process of radio-wave propagation and measurement techniques for digital T V transmission. ,Ä¢ To apply channel coding and modulation techniques, fundamentals of transmission lines, principles of antennas and radio-wave propagation to digital T V transmission.
21D22101	Modern Control Systems	2021-22	Research work - Analyze controllability & observability of state models and Design full order observer and reduced order observer
19A04703 c	Embedded Systems	2021-22	RESEARCH WORK - To introduce major components of an embedded system ,Ä¢ To expose role of firmware, operating systems in correlation with hardware systems.
21D22102	Adaptive Control Theory	2021-22	Field work - Apply the Adaptive control concepts for various applications,Evaluate the given dynamical system performance using Adaptive control laws
21D22103 a	Estimation Of Signals & Systems	2021-22	Field work - Apply the concepts of recursive least square, weighted least square, generalized least square, likelihood and maximum likelihood estimation
21D22103 b	Real Time & Embedded Systems	2021-22	Programming - Understand microprocessors, microcontrollers and digital signal processors and the pc based data acquisition; analog to digital signal conversion andvice versa, the digital logic circuits used with embedded systems
2.10E+102	Management And Organizational Behavior	2021-22	Skill development - Management and Organization Behavior
21D22103 c	Advanced Digital Signal Processing	2021-22	Research work - Compute the linear and circular convolutions of discrete-time sequences and Realize various filters and finding solution for various filter designs.
2.10E+103	Business Environment And Law	2021-22	Field work - Business Environment and Law
21D22104 a	Intelligent Control Systems	2021-22	Research work - Understand the basic concepts of Intelligent control, architecture, data pre-processing, Artificial Neural Networks, Fuzzy Logic Control System, finally Heuristic Optimization techniques
2.10E+104	Managerial Economics	2021-22	Skill development - Managerial Economics
21D22104 b	Networked Control Systems	2021-22	Research - Create networked control systems with the concepts of interfacing, internet, network security and feedback control
21D22104 c	Digital Control Systems	2021-22	Field work - Apply Z-Transforms to solving state equations and Ackermans formula for finding feedback gain and observer gain matrices and Design full order observer, reduced order observer, prediction observer and dead beat controller
2.10E+106	Statistics For	2021-22	Skill development - Statistics for managers

	Managers		
19A04703d	Image Processing	2021-22	RESEARCH WORK - To introduce fundamentals of Image Processing. ‚Ä¢ To expose various intensity transformations in spatial and frequency domains.
21D22105	Control Systems Lab	2021-22	Practical - Apply the control components like ac servo motor, synchro and magnetic amplifier, Design controllers, compensators using MATLAB software
2.10E+107	Management Information Systems	2021-22	Skill development - Management Information systems
2.10E+108	Business Communication Lab	2021-22	Practical - Business Communication Lab
21D22106	Control Systems Simulation Lab	2021-22	Practical - illustrate modeling and simulation of any system, Evaluate possible causes of discrepancy in practical experimental observations in comparison to theory by introducing the concepts of different stability theorems
2.10E+109	Information Technology Lab	2021-22	Practical - Information Technology Lab
21D22201	Non-Linear Control Systems	2021-22	Field work - Analyze the systems with Lyapunov stability theorem and Popov's stability criterion and Apply Lyaponov functions to nonlinear systems
21D22202	Process Dynamics & Control	2021-22	Research Work - Analyze dynamic modelling of CSTR, general stability criteria, performance of process control systems, ratio control, feed forward control, cascade control , decoupling and multivariable strategies and singular valve analysis
21E00207a	Advanced Communication	2021-22	Practical - Advanced Communication
21D22203a	Robotics & Control	2021-22	Field work - Apply Newton‚Äôs equation, Eulers Equation to frame force equations and control problems for manipulators and Understand spatial descriptions and transformations, manipulator kinematics, velocities and static forces, linear and non linear control of manipulators
21D22203b	Optimal Control	2021-22	Research Work - Apply the calculus of extrema and parameter optimization by the method of Lagrange multipliers and variational calculus and Pontragin‚Äôs minimum principle
21E00207c	Industry 4.0 & Innovation	2021-22	Skill development - Industry 4.0 and Innovation
21D22203c	Performance Assessment & Plant Wide Control	2021-22	Research Work - Analyze performance assessment of various processes through different modes of controllers and Design overall control system through dynamic modeling, degrees of freedom and different modes of controllers
2.10E+209	Data Analytics Lab	2021-22	Practical - Data Analytics Lab
21D22204b	Biomedical Measurement Systems	2021-22	Survey - Create advanced Biomedical measurement systems with the help of imaging and implantation techniques
19A04703e	Advanced Digital Signal Processing	2021-22	RESEARCH WORK - To understand the sampling rate conversion and summarize multirate DSP. ‚Ä¢ To describe the various linear filtering techniques and its applications to DSP.
21D22204c	Robust Control	2021-22	Field work - Acquire the fundamentals of H‚àû control, and based on this knowledge, design multivariable feedback control systems
21D22205	Process Control Lab	2021-22	Practical - Apply PID controllers to various control systems for finding open lop and closed loop responses
21D22206	Advanced Control Systems Simulation Lab	2021-22	Practical - Apply Lyapunov function, Popov‚Äôs stability and Isoclane methods for different systems
21D22301a	Industrial Drives & Control	2021-22	Field work - Apply voltage, frequency and vector controller to control electric drives and Understand torque, speed torque equations of electrical drives, classification of load torque, state space model of DC motor drive, principle of vector control and synchronous and special machines drives
2.10E+203	Marketing Management	2021-22	Field work - Marketing Management
2.10E+204	Human Resource Management	2021-22	Skill development - Human Resource Management
21D22301b	Data Driven Control	2021-22	Research work - Apply the concept of non-iterative Correlation-based Tuning, Willems' Fundamental Lemma, Learning-based Adaptive Control

	Business Research		
2.10E+205	Methods	2021-22	Research work - Business Research Methods
21D22301 c	Guidance Strategies For Autonomous Vehicles	2021-22	Research work - Design different control strategies(cooperative control, feedback control, classical and modern control) for missile guidance and UAS
2.10E+206	Operations Research	2021-22	Research work - Operations Research
19A04801 a	Advanced 3g And 4g Wireless Mobile Communications	2021-22	RESEARCH WORK - To understand the concepts of wireless communications and standards . ,Ä¢ To apply a wireless technique to solve engineering problem .
2.10E+207	Operations Management	2021-22	Industrial Visit - Operations Management
21D20301	Waste To Energy	2021-22	Survey - Develop the process for thermal conversion, bio-chemical and waste to energy conversion and Apply the best available technologies for waste to energy
19A04801 b	Introduction To Internet Of Things	2021-22	RESEARCH WORK - To present interconnection and integration of the physical world and the cyber space. ,Ä¢ To demonstrate applications of Internet of Things
21E03201	Macro Economics	2021-22	Skill development - Macro Economics
21E03202	R-Programming	2021-22	programming - R-Programming
21E04202	Quantitative Methods For Managers	2021-22	Skill development - Quantitative Methods for Managers
21E04203	Business Analytics And Data Science	2021-22	Programming - Business Analytics and Data Science
21E04204	Data Warehousing And Data Mining	2021-22	Programming - Data Warehousing and Data Mining
19A04801 c	Fuzzy Sets, Logic And Systems & Applications	2021-22	RESEARCH WORK - To introduce fuzzy sets, logic and systems from an engineering perspective. ,Ä¢ To provide solid foundation of fundamental concepts of fuzzy logic, systems and its applications.
19A04801 d	Biomedical Signal Processing	2021-22	RESEARCH WORK - Describe the origin, properties and suitable models of important biological signals such as ECG and EEG. ,Ä¢ Interrelate the students mathematical and computational skills relevant to the field of biomedical signal processing.
19A04801 e	Analog Ic Design	2021-22	RESEARCH WORK - Understand the behaviour of MOS Devices and Small-Signal & Large-Signal Modelling of MOS Transistor and Analog Sub-Circuits. ,Ä¢ Learn and understand CMOS Amplifiers like Differential Amplifiers, Cascode Amplifiers, Output Amplifiers, and Operational Amplifiers.
21E01202	R-Programming & Applications	2021-22	programming - R-Programming and Applications
1.70E+302	Business Ethics & Corporate Governance	2021-22	Survey - Business Ethics and Corporate Governance
1.70E+303	Green Business Management	2021-22	Skill development - Green Business Management
1.70E+305	Cost And Management Accounting	2021-22	Internship - Cost and Management Accounting
1.70E+306	Product And Brand Management	2021-22	Skill development - Product and Brand Management
1.70E+307	Human Resource Development	2021-22	Skill development - Human Resource Development
17E00307	Mobile Commerce	2021-22	Skill development - Mobile Commerce
17E00308	Financial Institutions And Services	2021-22	Research work - Financial Institutions and Services
17E00309	Consumer Behavior	2021-22	Field work - Consumer Behavior
17E00310	Labour Laws And Legislation	2021-22	Skill development - Labour Laws and Legislation
17E00311	Supply Chain Management	2021-22	Survey - Supply Chain Management
17E00312	Investment And	2021-22	Research work - Investment and Portfolio Management

	Portfolio Management		
17E00313	Rural Marketing	2021-22	Field Work - Rural Marketing
17E00314	Performance Management	2021-22	Skill development - Performance Management
17E00316	Auditing And Taxation	2021-22	Practical - Auditing and Taxation
17E00317	Advertising And Sales Promotion Management	2021-22	Field work - Advertising and Sales Promotion Management
17E00318	Knowledge Management	2021-22	Skill development - Knowledge Management
17E00320	Business Simulation Lab	2021-22	Practical - Business Simulation Lab
17E00401	Strategic Management	2021-22	entrepreneurship - Strategic Management
17E00403	Financial Derivatives	2021-22	Practical - Financial Derivatives
17E00404	Services Marketing	2021-22	Entrepreneurship - Services Marketing
17E00405	Organization Development	2021-22	Skill development - Organization Development
17E00406	Data Communication And Network Analysis	2021-22	Programming - Data Communication and Network Analysis
17E00407	International Financial Management	2021-22	Skill development - International Financial Management
17E00408	International Marketing	2021-22	Skill development - International Marketing
17E00409	Global Human Resource Management	2021-22	Skill development - Global Human Resource Management
17E00410	Corporate Information Management	2021-22	Programming - Corporate Information Management
18E03301	Business Entrepreneurship	2021-22	Research work - Business Entrepreneurship
18E03302	Crypto Currencies And Block Chain	2021-22	Practical - Crypto currencies and Block chains
18E03303	Security Analysis And Portfolio Management	2021-22	Research work - Security analysis and Portfolio Management
18E03304	Innovative Payment Methods	2021-22	Skill development - Innovative Payment Methods
18E03305	Valuations Of Mergers And Acquisitions	2021-22	Research work - Valuations of Merges and Acquisitions
18E03306	Financial Information Systems	2021-22	Research work - Financial Information Systems
18E03307	Financial Modelling	2021-22	Skill development - Financial Modelling
18E03401	Strategic Management	2021-22	Entrepreneurship - Strategic Management
18E03402	International Finance	2021-22	Skill development - International Finance
18E03403	Derivatives And Risk Management	2021-22	Research work - Derivatives and Risk Management
18E03404	Data Mining	2021-22	Programming - Data Mining
1.70E+102	Management And Organizational Behavior	2020-21	Skill development - Management and Organization Behavior
1.70E+103	Business Environment And	2020-21	Field work - Business Environment and Law

	Law		
1.70E+104	Managerial Economics	2020-21	Employability - Managerial Economics
1.70E+106	Statistics For Managers	2020-21	Skill development - Statistics for managers
1.70E+107	Management Information Systems	2020-21	Skill development - Management Information systems
1.70E+108	Information Technology For Managers	2020-21	Programming - Information technology for managers
1.70E+109	Communication Lab	2020-21	Practical - Communication Lab
1.70E+110	Data Analytics Lab	2020-21	Practical - Data Analytics Lab
1.70E+202	Human Resource Management	2020-21	Skill development - Human Resource Management
1.70E+203	Marketing Management	2020-21	Field work - Marketing Management
1.70E+204	Business Research Methods	2020-21	Research work - Business Research Methods
1.70E+205	Financial Management	2020-21	Skill development - Financial Management
1.70E+206	Operations Research	2020-21	Skill development - Operations Research
1.70E+207	Operations Management	2020-21	Industrial Visit - Operations Management
1.70E+208	Business Communication	2020-21	Practical - Business Communication
1.70E+209	Business Analytics Lab	2020-21	Practical - Business Analytics Lab
1.70E+210	Business Communication Lab	2020-21	Practical - Business Communication Lab
18E03101	Organization Behavior	2020-21	Skill development - Organization Behavior
18E03102	Business Law	2020-21	Field work - Business Law
18E03103	Managerial Economics	2020-21	Employability - Managerial Economics
18E03105	Quantitative Techniques	2020-21	Skill development - Quantitative Techniques
18E03106	Managerial Communication	2020-21	Skill development - Managerial Communication
18E03107	Information Technology	2020-21	Programming - Information Technology
18E03108	Managerial Communication Lab	2020-21	Practical - Managerial Communication Lab
18E03109	Data Analytics Lab	2020-21	Practical - Data Analytics Lab
18E03201	Financial Management	2020-21	Skill development - Financial Management
18E03202	Reserach Methods	2020-21	Research work - Research Methods
18E03203	Macro Economics	2020-21	Skill development - Macro Economics
18E03204	Financial Institutions, Instruments & Markets	2020-21	Field work - Financial Institutions, Instruments and Markets
18E03205	Marketing Of Financial Services	2020-21	Field work - Marketing of Financial Services
18E03206	Human Resource Management	2020-21	Skill development - Human Resource Management
18E03207	R-Programming	2020-21	programming - R-Programming
18E03208	Business Analytics Lab	2020-21	Practical - Business Analytics Lab
20E04102	Marketing Management	2020-21	Field work - Marketing Management
20E04103	Statistics For	2020-21	Skill development - Statistics for Business Analytics

	Business Analytics		
20E04104	Data Management Systems	2020-21	Practical - Data Management Systems
20E04106	Data Analytics Lab	2020-21	Practical - Data Analytics Lab
20E04201	Econometrics For Business Forecasting	2020-21	Research work - Econometrics for Business Forecasting
20E04202	Financial Management	2020-21	Skill development - Financial Management
20E04203	Business Research	2020-21	Research work - Business Research
20E04204	Data Warehousing And Mining	2020-21	Programming - Data Warehousing and Mining
20E04205	R-Programming	2020-21	programming - R-Programming
20E04206	Data Visualization	2020-21	Programming - Data Visualization
20E04207	Business Simulation Lab	2020-21	Practical - Business Simulation Lab
20E04301	Legal And Ethical Aspects Of Business Analytics	2021-22	Skill development - Legal and Ethical aspects of Business Analytics
20E04302	Predictive Analytics	2021-22	Skill development - Predictive Analytics
20E04303	Marketing Analytics	2021-22	Skill development - Marketing Analytics
20E04304	Financial Analytics	2021-22	Research work - Financial Analytics
20E04305	Human Capital Analytics	2021-22	Practical - Human Capital Analytics
19AME04	Fluid Mechanics And Hydraulic Machinery	2019-20	Practical - Hydrodynamic force of jet, Classification of hydraulic turbines, Classification of pumps, Working of pumps
19AME06	Thermodynamics	2020-21	Practical - thermodynamic variables effecting efficiency, difference in heat capacities, Definition of exergy and anergy, Kelvin ,ÄiPlanck statement
19AME07	Engineering Mechanics	2020-21	Research work - Newton's Laws of motion, Laws of friction and types of friction, Analysis of plane trusses
19AME08	Material Science And Engineering	2020-21	Research work - properties and applications of ceramics, Phase Diagrams, properties and applications of white cast iron, AISI & BIS classification of steels.
19AME10	Manufacturing Processes - 1	2020-21	Practical - Principles and process parameters of Abrasive jet machining, processing of plastics, types of welds and welded joints, hot and cold working of metals,
19AME05	Fluid Mechanics And Hydraulic Machinery LAB	2020-21	Practical - Free and Forced vortex apparatus. Impact of a jet on flat and curved plates. Performance characteristics of reciprocating pump. Performance characteristics of Francis turbine.
19AME09	Materials Science And Engineering Laboratory	2020-21	Practical - Study of microstructure of pure metals, Study hardenability of steels by Jominy End Quench Test, Find the harness of ceramics, super alloys
19AME11	Manufacturing Processes - I Laboratory	2020-21	Practical - Gating Design and pouring time, TIG Welding, MIG Welding. Press Tool: Blanking and Piercing operation. Electro Discharge Machining (EDM)/ Wire cut EDM.
19AME14	Design Thinking And Product Innovation	2020-21	Research work - Design of Electrical Vehicles, Development of machines for separation of corn seeds, Reversing Engineering Methods, Design thinking and innovation, Innovation Wheel, Job of Engineers.
19AME15	Mechanics Of Materials	2020-21	Research work - Types of stresses and strains, Types of beams, Shear force, Deflection, Leaf springs. Hope and Stresses.
19AME17	Theory Of Machines	2020-21	Practical - Classification of Mechanisms, Kinematic Analysis of Simple mechanisms, Principle of gyroscope, Classification of cams and Followers.
19AME18	Manufacturing Processes - Ii	2020-21	Practical - Jigs and Fixtures, Grinding, Classifications of Milling Machines and Shaping machines, Principle of working of lathe, Boring machine, Single point cutting tool
19AME19	Computer Aided Machine Drawing	2020-21	Practical - Drawing of thread profiles, Drawing of rivet, Welding joints, Assembling of piston and connecting rod, Representation of limits, fits and tolerances.
19AME16	Mechanics Of Materials Laboratory	2020-21	Practical - U.T.M, Compression test, Brinnell's and Vicker's hardness number, Determine the modulus of rigidity, Izoid test, Deflection in leaf springs.

19AME20	Design Thinking & Product Innovation Laboratory	2020-21	Research work - 3D Printing, Design a smart lighting system, Design of Automatic car wiper, Design a hydraulic circuit.
19AME51	Thermal Engineering	2021-22	Practical - Classification of IC Enigne, Proformance analysis of IC Engines, Effect of clearance in compressores, Vapour power cycles, Refrigeration, Psychometric terms.
19AME52	Design Of Machine Members	2021-22	Research work - Design Process, Selection of Materials, Endurance Limt, Thread fasteners, Design of shafts, Spure gears.
19AME53	Automation And Robotics	2021-22	Practical - Automation in Production system, Line Balancing, FMS,Classification of Robot, Actuators, Manipulator dynamics, Methods of programming, Robot applications in manufacturing.
19AME54 a	Alternative Fuels And Emission Control In Automotives	2021-22	Practical - Properties of alcohols, LPG and CNG, Emission formation in SI Engine, Thermal Ractor, Emission formation in CI Engine, Emisiion measuring instruments.
19AME54 b	Manufacturing Methods In Precision Engineering	2021-22	Research work - Processing of Composites, Injection and Blow molding, PCB, Design considerations for Glass, Production of metal powders, Methods of Cleaning, Chemical Vapour Deposition.
19AME54 c	Design For Manufacturing	2021-22	Research work - Design philosophy, creativity in design, general design rules for machining, Solidification, Sesign factors for forging, Joining of plastics.
19AME54 d	Power Plant Engineering	2021-22	Industrial Visit - Devolopment of power plants, Diesel, MHD, Pollution standareds, analysis of power plants, water power, nuclear fuel.
19AME54 e	Non-Destructive Testing	2021-22	Practical - Radiographic test, Diffraction, Liquid penetrant system, Heat sensitive papers, Industrial applications of NDE
19AME54f	Ergonomics And Human Factors In Engineering	2021-22	Industrial Visit - Human Biological, Manual lifting, Ergonomics in automated systems, Design of office furniture, color and the eye, Noise exposure and hearing loss.
19AME56	Thermal Engineering Laboratory	2021-22	Practical - Valve Timing diagram, Port timing diagram, Morse test, Heat pump, Heat pipe.
19AME57	Manufacturing Processes - II Laboratory	2021-22	Practical - Turning opreation, Perform drilling, Job on Milling, Job on Slotting, Grinding.
19AME62	Heat Transfer	2021-22	Practical - Basic modes of Heat Transfer, Transient heat consuction, Covection, radiation, Types of heat exchangers, Defferent regimes of boiling, mass transfer.
19AME63	Operations Research	2021-22	Industrial Visit - OR Defination, Classification of models, Big-M Method, Transportation problem, Traveling salesman problem, game theory, Job sequencing, EOQ model, Types of Maintanance.
19AME64 a	Hybrid And Electric Vehicles	2021-22	Industrial Visit - Hybrid and Electric vehicles, Basic concept of hybrid traction, fuel efficiency analysis, drive system efficiency, Energy storage, transmission efficiency.
19AME64 b	Simulation And Modeling Of Manufacturing Systems	2021-22	Practical - Ways to analyze the system, Types of hypothesis, Building of simulation model, factors for selection, GPSS - SIMAN-SIMCRIPT, Output data analysis, Applications of simulation.
19AME64 c	Design Of Transmission System	2021-22	Practical - Band type clutches, Design of speed reducers, Design of belts, Design of bearings, Gear Geometry, Design of helicle gear, straight bevel gears.
19AME64 d	Solar And Wing Energy System	2021-22	Industrial Visit - Sun path diagrams, Tracking systems, Design and opreation of solor heating and cooling system, Solar PV fundamentals,wing turbines, Wing characteristics, Components of moderen wind turbine, Planning of wind farm.
19AME64 e	Mechanical Beahavior Of Materials	2021-22	Research work - Elastic behaviour of materials, FCC, HCP and BCC Lattice, Grain Size strengthening, Types of fracture, DBTT,factors affecting fatigue, Stages in creep curve and explanation.
19AME64f	Total Quality Management	2021-22	Industrial Visit - ISO 9000 and other quality systems, Reasons to Benchmark, defination of Quality, Quality council, Quality statements, customer perception of quality.
19AME66	Heat Transfer Laboratory	2021-22	Practical - Determine the thermal conductivity, Insulating materials through lagged pipe, Efficiency of a pin fin, heat transfer coefficient for a verticle

			cylinder, pool boiling, Emissivity of the plate surface, Stefan-Boltzmann apparatus.
20A10501	Problem Solving And C Programming	2021-22	Programming - Get a knowledge in writing programs
20A10301	Engineering Drawing	2021-22	Practical - Bring awareness that Engineering Drawing is the Language ofEngineers. Familiarize how industry communicates technicalinformation.
20A10302	Engineering Graphics Lab	2021-22	Employability - Improve the skills of creativity
20A10502	Problem Solving And C Programming Lab	2021-22	Practical - students can able to develop programs
20A15102	Differential Equations & Vector Calculus	2021-22	Field work - students can gain skills on linear transformation and ability to compute eigen values and eigen vectors of linear transformations, inner product spaces and determining orthogonality.
20A10503	Python Programming	2021-22	Employability - Get a knowledge in python programming concepts
20A12401	Basic Electrical And Electronics Engineering	2021-22	industrial visit - introduce basics of electric circuits, explain working principles of transformers and electrical machines.
20A10303	Engineeringworksho p	2021-22	Employability - Get a knowledge in engineeringworkshop
20A10505	Cse Workshop	2021-22	Practical - make the students know about the internal parts of a computer, assembling and dissembling a computer from the parts, preparing a computer for use by installing the operating system , provide Technical training to the students on Productivity tools like Word processors, Spreadsheets, Presentations and LAteX
20A10504	Python Programming Lab	2021-22	Employability - Improve application oriented knowledge
20A12402	Basic Electrical And Electronics Engineering Lab	2021-22	practical - verify Kirchoff,Äôs laws and Superposition theorem . learn performance characteristics of DC Machines
20A35103	Discrete Mathematics & Graph Theory	2021-22	Field work - Introduce the concepts of mathematical logic and gain knowledge in sets, relations and functions and Solve problems using counting techniques and combinatory and to introduce generating functions and recurrence relations. Use Graph Theory for solving real world problems.
20A30501	Digital Systems	2021-22	Field work - Students would have a thorough understanding of the fundamental concepts and techniques used in digital electronics. On completion of this course students will have the skills and confidence to conceive and implement a complex digital system.
20A30502	Data Structures	2021-22	Programming - understand the concepts about searching and sorting techniques , understanding about writing algorithms and step by step approach in solving problems with the help of fundamental data structures.
20A30503	OOPS Through Java	2021-22	Programming - Get knowledge on oops concepts
20A39101 A	Managerial Economics And Financial Analysis	2021-22	Industrial work - attain knowledge in financial
20A39101 C	Business Ethics¬†And Corporate¬†Governa nce	2021-22	Survey - Understand the business ethics,get knowledge in business ethics
20A30504	Digital Systems Lab	2021-22	Practical - Design a semiconductor memory for specific chip design. Design embedded systems using small microcontrollers, larger CPUs/DSPs, or hard or soft processor cores
20A30505	Data Structures Lab	2021-22	Practical - understand the concepts about searching and sorting techniques understanding about writing algorithms and step by step approach in solving problems with the help of fundamental data structures
20A30506	OOPS Through Java Lab	2021-22	Practical - Improve application oriented knowledge
20A30507	Iot Using Python	2021-22	Practical - Improve application oriented knowledge
20A40501	Computer Organization	2021-22	Field work - Understand computer architecture concepts related to the design of modern processors, memories and I/Os , Identify the hardware

			requirements for cache memory and virtual memory
20A40503	Operating Systems	2021-22	Practical - Get a knowledge ms operating systems concepts
15R00501	Medicinal Chemistry ,Äì I	2016-17	research - In this subject student will be able to understand the properties and its biological activity of the drugs and receptors
15R00704	Medicinal Chemistry-Ii	2016-17	research - To Acquire skill in the structure of drugs and their biological activities and the knowledge of synthesis of chemical compounds.
15R00705	Chemistry Of Natural Products (Cbcc-Ii)	2016-17	Research - To acquire the skills in determination of structure, mechanism of action and uses of Natural products.Phytochemical evaluation and Synthesis of natural Products
15R00203	Pharmaceutical Biochemistry	2016-17	research and job - To know the knowledge about the cell ,enzymes and co-enzymes types ,mechanismof action and its functions
17D04101	Finite Element Methods	2017-18	Research work - Perspective of FEM, Concept of Discretization, Element Matrices, Boundary conditions, Dynamic equations, Requirements of convergence.
15R00706	Computer Aided Drug Design (Cbcc-Ii)	2016-17	Design of compounds - Students have to acquire the knowledge to use software in structure prediction, ligand design methods, docking programs etc.,
15R00104	Pharmaceutical Organic Chemistry-I	2016-17	Practical - Students have to acquire the knowledge on fundamentals of organic chemistry and the knowledge for the synthesis of various new organic molecules.
15R00201	Pharmaceutical Organic Chemistry-Ii	2016-17	Practical - Students have to acquire the knowledge on the recent advances in organic synthesis by knowing safe technologies.
15R00303	Pharmaceutical Organic Chemistry-Iii	2016-17	Practical - to know the knowledge of organic chemistry in relation to natural compounds such as carbohydrates, proteins and lipids etc.. 3. To impart the knowledge on fundamentals of named reactions and rearrangements.
15R00106	Pharmaceutical Inorganic Chemistry	2016-17	Practical - To understand the knowledge on inorganic compounds those exist as pharmaceutical preparations and pharmaceutical aids
17D04103	Geometric Modeling	2017-18	Practical - Explicit and implicit equations,blending functions,equations of Bezier curves,B-Spline basis,Bicubic surfaces,Constructive Solid Geometry (CSG)
17D04102	Computational Methods	2017-18	Research work - system of linear equations ,system of non-linear equations, finite difference method, laplace's equations, explicit method, stability and convergence criteria, stability of numerical method, non-liner curves by least squares, direct methods and gradient search methods.
17D04105	Computer Aided Process Planning	2017-18	Industrial Visit - Process planning and production planning , design drafting ,geometric modelling for process planning, variant process planning ,generative approach, manufacturing system components , no. of production families, modulus structure , expert process planning
17D04107	Computational Fluid Dynamics	2017-18	Research work - Finite difference method,direct method with Gaussian elimination,Explicit and implicit schemes,Formulations of incompressible viscous flows by finite difference methods,Euler equations,formulations for two and three dimensional problems,Linear fluid flow problems
17D04110	Modelling Lab	2017-18	Practical - Cubic Splines,Bezier curves,B-Spline surfaces,Part Module,Assembly Module,Surface Modelling.
17D04108	Product Engineering	2017-18	Industrial Visit - steps in design process, developments in material technology, Overview of various machining processes, general design considerations for casting, general design guidelines for minimizing weld distortion, Design factors for forging, Design guide lines extruded sections, design guidelines for machining and joining of plastics.
17D04106	Design And Analysis Of Experiments	2017-18	Research work - Quality Engineering in Production Design,Types of Tolerances,Tolerance Allocation for multiple components, identification of tolerance design factors,Task aids and Responsibilities for DOE process steps,ANOVA for four level factors,Efficient Test Strategies,Interpretation methods, Taguchi Methods.
17D04111	Finite Element Analysis Lab	2017-18	Practical - Stress analysis of 2D truss,Stress analysis of a plate with a circular hole and L-Bracket ,Äì 2D and 3D ,Stress analysis of an axi-symmetric component,Conductive heat transfer analysis of a 2D and 3D components,Determination of velocity of a fluid and volumetric flow rates for 1-D Fluid flow,mode frequency analysis of beams (cantilever, simply supported, fixed ends), Transient analysis of a cantilever beam,Analysis of 1-

			dimesional & 2D dimensional truss,Analysis of 1-dimesional & 2D dimensional heat conduction.
17D04109	Computer Integrated Manufacturing	2017-18	Industrial Visit - Automated Manufacturing Systems, Ten Strategies for Automation and Process Improvement, Automation Migration Strategy, Workpart Transfer Mechanisms, Transfer Lines with Internal Storage Buffers , Work Transport Systems, The Line Balancing Problem, Analysis of Assembly Systems, Design Considerations in Material Handling,Overview of Automated Identification Methods, Applications Of Group Technology, Generative CAPP Systems, Material Handling and Storage Systems, Computerized elements of a CIM System,
17D04104	Advances In Manufacturing Technology	2017-18	Industrial Visit - Weldability of Aluminium alloys,Economic considerations,Metal removal rate in ECM,General Principle and applications of Wire EDM,Theory of electron beam machining,Physical Vapor Deposition.
17D04201	Advanced Optimization Techniques	2018-19	Research work - Big-M method, traveling salesman problem, Gradient Based Methods with and without constraints, Direct Search Methods, Method of Lagrangian multipliers, GA for constrained optimization, draw backs of GA, Artificial Neuron and its model, factors affecting back propagation training, applications.
17D04203	Cnc Technology & Programming	2018-19	Programming - Evolution of Computerized control in manufacturing,Classification of CNC, DNC and Machining centers and turning centers,Automatic Tool changer (ATC), Tool presetting,Laser interferometer,Open and closed loop systems,Standard and optional features of CNC control systems,Manual Part Programming,APT language structure,Part programming preparation for typical examples, Maintenance features of CNC machines.
17D04204	Mechatronics And Mems	2018-19	Programming - mechatronics design process, Flexible manufacturing system (FMS), , Position and Proximity Sensors, Selection criteria for sensors. Hydraulic and Pneumatic Actuation systems, Design of Hydraulic and Pneumatic circuits, Architecture of of Microprocessor, PLC Programming using ladder diagrams, Oxidation, Physical Vapor disposition, Etching, Wafer bonding.
17D04207	Artificial Intelligence & Expert Systems	2018-19	Programming - Search Algorithms,Manipulating monotonic and default inheritance in Semantic nets,Reinforcement Learning,Inference engines control Strategy, Active Knowledge based systems,Neural network architecture: single layer and multilayer feed forward networks,Fuzzy Logic Theory,ANN for Robotic path Planning.
17D04206	Hydraulic And Pneumatic Circuits	2018-19	Industrial Visit - Selection and specification of pumps,Non return and safety valves,Hydraulic milling machine,Cascade methods,Compound circuit design,Low cost automation,Switching circuits
17D04211	Cnc Lab	2018-19	Programming - Manual part programming (using G and M codes) in CNC Lathe Machine,Part programming by using standard canned cycles for facing, turning, taper turning and thread cutting,Manual part programming (using G and M codes) in CNC Milling Machine,Part programming for linear interpolation, circular interpolation and contour motions,APT (Automatically Programmed Tools) language in CNC Milling and Lathe machine.
17D04202	Robotics	2018-19	Industrial Visit - definition and classification of robots, Homogeneous transformation matrices, Forward and inverse kinematics of robots, Denavit-Hartenberg(D-H) representation of forward kinematic equations of robots, Jacobian singularities, Lagrangian - Euler formulation, Newton - Euler formulation, sensor characteristics, uses of sensors in robotics, image processing and analysis, Methods of robot programming, motion commands, end effecter and sensor commands
17D04205	Additive Manufacturing	2018-19	Industrial Visit - Need - Development of AM systems, Virtual Prototyping-Rapid Tooling, CAD model preparation, Support structure design, Model Slicing, Stereolithography Apparatus (SLA), Laminated Object Manufacturing (LOM), Selective Laser Sintering (SLS), Laser Engineered Net Shaping (LENS), Three dimensional Printing (3DP), Ballastic Particle Manufacturing (BPM)
17D04210	Automation Lab	2018-19	Programming - Robot programming exercises (Point-to-Point and continuous path task) , Simulation of a simple automation system,Sequencing circuits in hydraulics,Sequencing circuits in hydraulics,Draw & Simulate the Hydraulic

			circuit for series & parallel cylinders connection,Design and Simulation of simple pneumatic circuit by using step counter method,Design and fabrication of simple symmetrical and unsymmetrical components.
17D04208	Composite Materials	2018-19	Research work - Fundamentals of composites, Properties and applications, PMC processes, Injection moulding, types of metal matrix composites, Properties and applications of MMCs, Ceramic matrix materials , Cold isostatic pressing (CIPing), Properties and applications of Carbon-carbon composites, Biodegradability.
17D04209	Interactive Computer Graphics	2018-19	Practical - computer input devices, DDA & Bresenham,Äôs algorithms, general function rasterization, fundamentals of antialiasing and half toning, Cohen-Sutherland line clipping algorithm, Weiler,Äì Atherton polygon clipping, Cartesian and homogeneous coordinate systems, rotation about an axis & arbitrary axis, surface removal algorithms, Gouraud shading algorithm,
19AME55 a	Introduction To Hybrid And Electric Vehicles	2020-21	Practical - Electric Vehicles, Battery Management system, Perment magnet machines, Hybrid traction, Hybrid vehicle case study, Energy management strategies.
19AME55 b	Rapid Prototyping	2020-21	Industrial Visit - Rapid prototyping, Classification of RP, Applications of FDM, Applications of LOM and Limitations,Selective laser sintering, Three dimensional printing, Shape deposition manufacturing, Classification of Rapid Tooling, Errors in RP Processes.
19AME55 c	Design For Manufacturing And Assembly	2020-21	Research work - Design of a leverarch file mechanism, Distinction between assembly methods and processes, Significance of Design, Casting consideration, Forging considerations, rules for machining.
19AME55 d	Power Plant Operation And Control	2020-21	Practical - Survey of methods of power generation, Measurment of feed water flow, combustion of fuel and excess air, types of steam turbines, oil cooling system.
19AME55 e	Smart Materials	2020-21	Research work - What is Inteligence?, Smart system applications, constitutive relationship, Magneto - Mechanical Coupling coefficients, Shape memory alloys, Piezoelectric actuators, sensores based on HBLs smart materials, Sensores based on LBHS Smart Materials.
19AME65 a	Automobile Electronics, Sensors And Drives	2020-21	Industrial Visit - Microcomputer, Digital filters, Speed Sensors, Pressure Sensors, Throttle position sensor, Electronic engine control, Antilock braking system, Collision avoiding system, Display devices, onboard diagnostics (OBD)
19AME65 b	Programming Of Robots And Control	2020-21	Programming - Classification and History of robotics, Applications of Robots, Actuators, Pneumatic, Hydrulic actuators, Methods of Programming, Open and Clse - loop control, Architecture of robotic version system, industrial application of robotics vision.
19AME65 c	Sensors In Inteligent Manufacturing	2020-21	Research work - Classification and characteristics of sensors, Role of sensors in inteligent manufacturing, Design of CIM, FMS, Measurment of Robot density, Testing of manufacturing copmonents, sensors for monitoring temperature, force, Fiber optic parameters.
19AME65f	Optimization Thechniques Through MATLAB	2020-21	Research work - MATLAB Preliminaries, Plotting using MATLAB, Statement of an optimization problem, Classifications of optimization problems, Finite difference method, basics of Genetic Algorithms, PSO.
21D04102	Advanced Finite Element Methods	2021-22	Research work - Galerkin and weighted residual methods,Elimination and penalty approaches,Assembling of global stiffness matrix,, Lagrange basis for triangles and rectangles,Super parametric elements,Eigen value problems,h-refinement and p-refinement.
21D04103 a	Computer Integrated Manufacturing	2021-22	Programming - Automation and CAD/CAM,NC coordinate system,manual part programming,NC programming with manual data input,Computer Numerical Control (CNC),Direct Numerical control (DNC), parts classification and coding,Approaches to Computer aided Process Planning (CAPP) - Generative and Retrieval CAPP systems,Material Requirement Planning (MRP), FMS layout configurations and benefits of FMS,Role of Computer in QC,Integrated Computer Aided Inspection Systems.
21D04101	Geometric Dimensioning And Tolerancing	2021-22	Research work - System of limits and fits, Restraining degrees of freedom, Introduction to geometric dimensioning and tolerancing (GD&T), verification of orientation tolerances, verification techniques, MMC and LMC concepts, filtering and filtering techniques,Computer-aided tolerancing and verification.

21D04104 a	Advances In Manufacturing Technology	2021-22	Practical - Chemical Vapor Deposition,Thermal and Mechanical Coating Processes,recent developments in Abrasive Jet Machining,Abrasive Water Jet Machining and Ultrasonic Machining, Fundamentals of electro chemical machining,General Principle and applications of EDM,Wire EDM,Generation and control of electron beam for machining,Plasma Arc Machining,Laser Beam Machining,3D Printing ,Äì Working principle, applications and limitations	
21D04103 c	Design Of Hydraulic & Pneumatic Systems	2021-22	Research work - Types, Selection and specification of pumps, Characteristics of actuators, Non-return and safety valves, Hydraulic milling machine, Cascade method, hydro pneumatic circuits, Fringe conditions modules and these integration, Low cost automation.	
21D04105	Geometric Modeling Laboratory	2021-22	Practical - Cubic Splines,B-Splines,Bezier surfaces,B-Spline surfaces,Sketcher Module,Assembly Module,Surface Modelling.	
21D04103 b	Geometric Modeling	2021-22	Practical - Explicit and implicit equations, Algebraic and geometric form of cubic spline , truncating and subdividing of curves, equations of Bezier curves, equations, knot vectors, Bezier surfaces, B-Spline surfaces, Algebraic and geometric form, Boundary representation, Constructive Solid Geometry (CSG).	
21D04104 c	Computer Aided Process Planning	2021-22	Research work - Structure of Automated process planning system, Principle of Generative CAPP system, Quantitative methods for optimal selection, Reasons for optimal selection of machining parameters, Integration of design and manufacturing tolerances, Quantitative methods, Criteria for selecting a CAPP system and benefits of CAPP	
21D04107	Research Methodology And Ipr	2021-22	Research work - Research methods vs. Methodology,importance of literature review in defining a problem,sampling methods,data analysis with statically Package (Sigma STAT),Technique of Interpretation,Types of Reports,IPR-intellectual property rights and patent law,trade related aspects of intellectual property rights (TRIPS),Patent Rights: Scope of Patent Rights,New developments in IPR.	
21D04106	Finite Element Analysis Laboratory	2021-22	Research work - Stress analysis of beams (cantilever, simply supported & fixed ends), Conductive heat transfer analysis of a 2D and 3D components, Determination of velocity of a fluid and volumetric flow rates for 2-D Fluid flow, Mode frequency analysis of beams (cantilever, simply supported, fixed ends), Transient analysis of a cantilever beam, Analysis of 1-dimesional & 2D dimensional truss, Analysis of 1-dimesional & 2D dimensional heat conduction.	
21D04201	Advanced Optimization Techniques	2021-22	Practical - Big-M method, traveling salesman problem, method of Lagrange multipliers, Kuhn-Tucker conditions, Steepest descent method, working principle, reproduction, draw backs of GA, Principles of genetic programming, differences between GA & GP, convergence criterion, general optimization model of a machining process, general procedure in optimizing machining operations sequence.	
21D04203 a	Cnc Technology & Programming	2021-22	Programming - Evolution of Computerized control in manufacturing,Working principle of CNC, DNC and Machining centers,Constructional features of CNC machine tools,Automatic Tool changer (ATC),encoders,Electro-magnetic analogue position transducers,Synchro-Resolvers,Open and closed loop systems,block diagram of typical CNC system,APT language structure,point-to point motion commands, continuous path motion commands,factors influencing selection of CNC machines,Maintenance features of CNC machines.	
21D04203 b	Advanced Composite Materials	2021-22	Practical - classification of composites materials, Advantages and applications of composites, Polymer matrix materials, hand layup processes, Injection moulding ,Äì sheet moulding compound, types of metal matrix composites, Processing of MMC , Properties and applications of MMCs, Ceramic matrix materials, processing of CMCs, Properties and Applications of CCMs, Advantages of carbon matrix, Composites for aerospace applications, processing of biocomposites, applications of biocomposites.	
21D04204 a	Mechatronics & Mems	2021-22	Research work - Mechatronics key elements,Automatic packaging systems,Static characteristics of sensors,Selection criteria for sensors,Mechanical, Electrical, Hydraulic and Pneumatic Actuation systems,Design of Hydraulic and Pneumatic circuits,Microcontroller and Programmable Logic Controller,Microcontroller and Programmable Logic	

			Controller.
21D04203 c	Advanced Mechanism Design	2021-22	Research work - Classification of mechanisms, Freudenstein's theorem, Goodman's indirect method for low degree of complexity, Euler-Savory equation, Type, number and dimensional synthesis, Combined static and inertia force analysis, Denavit-Hartenberg parameters.
21D04205	Process Automation Laboratory	2021-22	Practical - Simulation of a simple automation system,Draw & Simulate the Hydraulic circuit for series & parallel cylinders connection,Draw & Simulate Meter-in, Meter-out and hydraulic press and clamping,Synchronizing circuits in hydraulics,Sequencing circuits in Pneumatics,Design and Simulation of simple pneumatic circuit by using step counter method,Robot programming exercises (Point-to-Point and continuous path task),Design and fabrication of simple symmetrical and unsymmetrical components,Simulation of Hydraulic Actuation System,Simulation of Pneumatic Actuation System.
19A50501	Formal Languages, Automata Theory	2021-22	Employability - Get the knowledge in Automata Theory concepts
19A50502	Computer Networks	2021-22	Field work - Introduce the layered approach for design of computer networks , Expose the network protocols used in Internet environment
19A55501	English Language Skills	2021-22	Practical - Improve the communication skills
19A50503	Software Testing	2021-22	Research - Get a knowledge in testing approaches. Finding defects which may get created by the programmer while developing the software. ÔÇ∑ Gaining confidence in and providing information about the level of quality.To prevent defects. ÔÇ∑ To make sure that the end result meets the business and user requirements.
19A50504	Data Mining And Warehousing	2021-22	Internship - Familiarize with mathematical foundations of data mining tools. ,Introduce classical models and algorithms in data warehouses and data mining.
19A50505	Principles Of Programming Languages	2021-22	Programming - gain the knowledge in basic languaues
19A50506	Artificial Intelligence	2021-22	Research - Develop Natural Language Interface for Machines,Design mini robot,Apply searching techniques for solving a problem
19A50507	Web Technologies	2021-22	Research Work - Develop server side programs using Servlets and JSP. Construct simple web pages in PHP and represent data in XML format.
19A50508	Distributed Computing	2021-22	Field work - Study the fundamentals of distributed computing systems ÔÇ∑ Study the concepts of IPC,PRC and distributed shared memory ÔÇ∑ Provide the knowledge on clock synchronization and scheduling algorithms
19A50509	Object Oriented Analysis And Design	2021-22	Research work - get a knowledge in designing a model
19A50510	Computer Networks Lab	2021-22	Practical - Discuss the software and hardware components of a network , Enlighten the working of networking commands supported by operating system
19A55502	English Language Skills Lab	2021-22	Employability - Improve the communication skills
19A50511	Object Oriented Analysis And Design Lab	2021-22	Practical - students are able to design a model by using UML symbols
19A60501	Compiler Design	2021-22	Programming - Get a knowledge in compilation of a code, basic translation mechanism and error detection & recovery
19A60502	Cryptography & Network Security	2021-22	Internship - Introduce the basic categories of threats to computers and networks , Illustrate various cryptographic algorithms.
19A60504	Virtual Reality And Augmented Reality	2021-22	Research work - . Construct your own new business or integrate AR with your current business with step by step process and projects . Extend your sales with strategic marketing plan
19A60505	Distributed Systems	2021-22	Field work - To learn the fundamental principles of distributed systems, emphasizing on communication, process, naming, synchronization, consistency and replication, and fault tolerance in distributed systems.
19A60506	Design Patterns	2021-22	Industrial visit - Understand design patterns and their underlying objects oriented concepts. Learn the day-to-day problems faced by object-oriented designers and how design patterns solve them

19A60507	Game Design And Development	2021-22	Programming - Students are able to design games
19A60508	Mobile Application Development	2021-22	Programming - Study the concepts of application development
19A60509	Soft Computing	2021-22	Employability - get knowledge in advanced computing techniques
19A65401	Managerial Economics And Financial Analysis	2021-22	Industrial work - learn financial concepts
19A65403	Entrepreneurship & Incubation	2021-22	Research Work - Understanding critical thinking by analysing situations. innovation acceleration with smart product and services and diversification of the economy from companies‚Äô outcomes such as innovation and technology.
19A60510	Network Security And Compiler Design Lab	2021-22	Lab - get practical knowledge in network security and CD
19A60511	Machine Learning Lab	2021-22	Practical - get practical knowledge of apply different algorithms
21D04204 c	Design And Analysis Of Experiments	2021-22	Research work - DOE process steps description, ANOVA for four level factors, multiple level factors, Randomized complete block design, Balanced incomplete block designs, confounding and Blocking in factorial designs, Fractional Factorial Design, comparison of classical and Taguchi's approach, Multiple Linear Regression Model, robust parameter design.
21D04206	Cam Laboratory	2021-22	Programming - Manual part programming (using G and M codes) in CNC Lathe Machine,Manual part programming (using G and M codes) in CNC Milling Machine,APT (Automatically Programmed Tools) language in CNC Milling and Lathe machine,Cutting tool path generation using any one simulation package for different machining operation.
20A39101 C	.Business Ethics And Corporate Governance	2021-22	survey - Understand business ethics and ethical practices in management, Apply the knowledge in cross cultural ethics
20A45103	Probability And Statistics Methods	2021-22	RESEARCH WORK - To deal with uncertainty via the axioms of probability
20A40502	Database Management Systems	2021-22	Internship - Understand the basic concepts and the applications of database systems. Master the basics of SQL and construct queries using SQL
20A40504	Software Engineering	2021-22	Employability - Understanding of the analysis and design of complex systems
20A40505	Database Management Systems Lab	2021-22	Practical - Understand the basic concepts and the applications of database systems. Master the basics of SQL and construct queries using SQL
20A40506	Operating Systems Lab	2021-22	Practical - Get the knowledge on operating systems
20A40507	Software Engineering Lab	2021-22	Practical - Get the knowledge on software engineering. Acquaint with historical and modern software methodologies . Understand the phases of software projects and practice the activities of each phase. Practice object oriented metrics by coding
20A40508	Exploratory Data Analytics With R	2021-22	Practical - Understanding analytic graphics and the base plotting system in R. Install and use R for simple programming tasks. Extend the functionality of R by using add-on packages Extract data from files and other sources and perform various data manipulation tasks on them.
20A49102	Design Thinking For Innovation	2021-22	Industrial visit - The objective of this course is to familiarize students with designthinking process as a tool for breakthrough innovation. It aims to equip students with designthinking skills and ignite the minds to create innovative ideas, develop solutions for real-time problems.
15R00102	Remedial Biology	2016-17	job oriented - structure and function of plant and animal cell
15AME24	Dynamics Of Machinery	2017-18	Industrial Visit - Gyroscopes, working of breaks, IC Engine and multi cylinder engine, Watt, Proter and proell governers, Balancing of rotating masses, unbalanced forcess, Dunkerly's method, Torsional vibrations.
15AME25	Machine Tools	2017-18	Industrial Visit - Elements of cutting process, Merchant's force diagram, cutting tool materials, Engine tool, Types of Lathes, Boring tool, Machining time calculations, Types and geometry of milling cutters, Dressing of wheels,

			Honing, types of clamping and work holding device.
15AME26	Elements Of Machine Design	2017-18	Research work - General Considerations of Design, BIS Codes of Materials, Factor of safety, Goodman's line, Stresses in screw fasteners, Design of cotter joints, Design of shaft for combined bending and axial loads, Stress and deflections of helical springs.
15AME28	Manufacturing Technology Lab	2017-18	Practical - Pattern design and making, Moulding melting and casting, Spot welding, plasma welding and brazing, Hydraulic press, Injection moulding.
15AME30	Advanced Thermal Engineering	2017-18	Research work - Simple gas turbine plant, Principle of operation, Velocity diagram, Rankine cycle, Thermodynamic analysis, Regeneration, Functions of Nozzle, Types, flow through nozzles.
15AME38	Machine Tools Lab	2017-18	Practical - Planning machine, Step turning and taper turning on lathe machine, drilling and tapping, job on slotting, Job on grinding of tool angles.
15AME39	Cad/Cam Lab	2017-18	Programming - Modeling of Component in 3D V-Block, Modeling of Component in 3D-Dovctail stop, Assembly of a screw jack parts, assembly of a stuffing box, CNC & NC Machines, NC Part Programming, CNC Lathe Turning, Solid works-CAM
15AME41	Modern Manufacturing Methods	2017-18	Research work - Non traditional machining methods, principle of prototyping, Abrasive jet, ultrasonic machining, fundamentals of ECM, EBM, EDM.
15R00105	Human Anatomy And Physiology-1	2016-17	job oriented - Various parts , structure and functions of systems etc
15R00304	Pharmaceutical Microbiology	2016-17	Industrial visit - Prokaryotes, eukaryotes, media and growth conditions, Inhibition of growth and killing
15R00405	Pathophysiology	2016-17	Research - necrosis, apoptosis,Acute, chronic inflammation, Common diseases - asthma, cardiac failure
15R00504	Pharmaceutical Biotechnology	2016-17	Industrial visit - isolation, selection and screening of industrial microbes, vectors, recombination and cloning of genes, immobilization techniques of enzymes
15R00502	Pharmacology-1	2016-17	Research - A,D,M,E ,drug receptor theories interaction, Neurohumoral transmission, Pharmacology of Alzheimers disease, Epilepsy
15R00601	Pharmacology-2	2016-17	Research - CHF, hypertension, Coagulants and anti coagulants, Diuretics and anti diuretics, Thyroid , Insulin and oral hypoglycemic agents
15R00606	Clinical Trials	2016-17	Research - Up and down disign,Randomized dose ranging design, t- test
15R00302	Physical Pharmacy I	2017-18	Eutectic mixtures - when two compounds are mixed it reduces the melting ponit
15R00403	Pharmaceutical Technology I	2017-18	Partition coefficient - drug distrubtion between oil and aqueous phase
15R00404	Physical Pharmacy Ii	2017-18	Solvent solute interactions - solvent forms pockets for solute
15R00301	Pharmaceutical Engineering	2017-18	Conveyor - shift of material from one place to another
17S02101	Advanced Organic Chemistry-I	2017-18	job oriented - Basic aspects of organic chemistry
17S02102	Advanced Medicinal Chemistry	2017-18	research work - Drug discovery and development
17S02103	Chemistry Of Natural Products	2017-18	research work - structural elucidation and purification of natural drugs
17S02201	Advanced Spectral Analysis	2017-18	Research work - Interpretation and hyphenated instrumental techniques for characterization and quantification of drugs
17S02202	Advanced Organic Chemistry-Ii	2017-18	Job oriented - Green chemistry and Heterocyclic chemistry
17S02203	Computer Aided Drug Design	2017-18	Research work - CADD,QSAR,docking and drug design
17S02204	Pharmaceutical Process Chemistry	2017-18	Industrial work - Industrial unit operations and unit processes
21S02101	Advanced Organic Chemistry-I	2021-22	Job oriented - organic chemistry at advanced levels, stereochemistry and reactive intermediates
21S02102	Advanced Medicinal Chemistry-I	2021-22	Research work - Advanced knowledge of rational drug design .qsar molecualr modeling fpr development of new drugs
21S02103	Chemistry Of Natural Products	2021-22	Research work - Extraction and elucidation
21S02201	Advanced Organic	2021-22	Job oriented - Utilization of different synthetic routes and rearrangements

	Chemistry-Ii		reactions of organic compounds
21S02202	Advanced Medicinal Chemistry-Ii	2021-22	Job oriented - enzyme inhibitors in cns and cvs diseases ,advanced knowledge to design prodrugs and rDNA products
21S02203	Computer Aided Drug Design	2021-22	Research work - CADD,QSAR,docking and drug design
21S02204	Pharmaceutical Process Chemistry	2021-22	Industrial work - developed synthetic routes, safe, cost effective and efficient, development, optimization of synthetic routes
BP104T	Pharmaceutical Inorganic Chemistry	2019-20	Job oriented - impurities, dental products & gastrointestinal agents
BP202T	Pharmaceutical Organic Chemistry-I	2019-20	Job oriented - Classification and nomenclature of organic compounds and reactions and mechanisms
BP203T	Biochemistry	2019-20	Job oriented - Carbohydrates and lipids ,enzymes, etc,Ä¶
BP301T	Pharmaceutical Organic Chemistry-Ii	2019-20	Research work - Preparation and reactions of some organic compounds and its reactivity
BP401T	Pharmaceutical Organic Chemistry-Iii	2019-20	Job oriented - stereochemical aspects of organic compounds and named reactions with mechanisms
BP402T	Medicinal Chemistry-I	2019-20	Job oriented - structure,chemistry ,uses and sar,synthesis of drugs
BP405T	Pharmacognosy And Phytochemistry-I	2019-20	Job oriented - Plant products and techniques
17S03103	Regulatory Affair	2017-18	DMF (Drug Master File) - where master formula will be maintained
17S03203	Computer Aided Drug Delivery System	2017-18	Drug Absorption, Solubility - solubility determines the absortion mechanisam and its process
15A02501	Transmission Of Electric Power	2018-19	Field - Ability to do calculation of sag for different types of Transmission systems, evaluation of A,B,C,D Constants
15A02502	Electrical Machines ,Äì Iii	2018-19	Industrial - Analyze the constructional details and able to Estimate the regulation of synchronous generator using different methods.
15A02503	Power Electronics	2018-19	Practical - Able to apply principles and methods to practical applications for different power electronic devices
15A02505	Linear & Digital Integrated Circuits	2018-19	Practical - Analyze the linear, non-linear and specialized applications of operational amplifiers
15A54501	Management Science	2018-19	Entrepreneur - To design good plant layout and apply Work-study principles, Quality Control techniques, in real life industry
15A02506	Electrical Machines Lab ,Äì Ii	2018-19	Practical - Acquire good practical knowledge about the operation, testing, and characteristics of transformers, Induction Motors,Alternators and synchronous motors
15A02507	Electrical And Electronic Measurements Lab	2018-19	Practical - Calibrate various electrical measuring instruments,Compute the coefficient of coupling between two coupled coils
15ACS07	Computer Organization	2016-17	Practical - Optimize the algorithms to exploit pipelining and multiprocessors, Algorithm design for bit level arithmetic
17S01102	Advanced Pharmacology - 1	2017-18	Pharmacodynamics: Mechanism of drug action and the relationship between drug concentration and effect - Absorption ,distribution,metabolism,excretion
17S03201	Molecular Pharmaceutics (Nano Technology & Targeted Dds) (Ntds)	2017-18	Nano particals and liposomes - novel technology of drug delivery system
17S01103	Pharmacological And Toxicological Screening Method- 1	2017-18	CNS Pharmacology - CNS stimulants and depressants
15R00503	Pharmaceutical Technology II	2017-18	sizes of capsules - smaller the number bigger the size and viceversa
15ACS04	Data Structures	2016-17	Research work - Case study on Binary Search Tree,Case study on Sorting.
15ACS01	Computer Programming	2016-17	Practical - Student can effectively apply problem solving techniques in designing the solutions for a wide-range of problems,Student can modularize the problem and also solution
17S01104	Cellular And	2017-18	Cell culture techniques - Primary cells, transformed cells,self-renewing cells

	Molecular Pharmacology		
15ACS05	Data Structures Lab	2016-17	Practical - From this lab they have gain enough knowledge regarding data structures.
15ACS03	Problem Solving And Reasoning Techniques	2016-17	Programming - This course is aimed towards inculcating programming logic development skills in a student.
15ACS02	Computer Programming Lab	2016-17	Practical - From this they have gained enough on programming knowledge.
17S01201	Advanced Pharmacology - 2	2017-18	Endocrine Pharmacology - Growth hormones,sex hormones
15ACS06	Digital Logic Design	2016-17	Practical - Ability to interpret, convert and represent different number systems and binary arithmetic,Able to design sequential and combinational circuits.
15ACS16	Internet Things Lab	2016-17	Research Work - From this they have gained enough knowledge on Internet Things
15ACS20	Computer Networks	2016-17	Practical - Start using the Internet effectively,Work on the open issues for their project
15ACS22	Data Warehousing And Data Mining	2016-17	Practical - Learn data warehouse principles, data mining concepts and working,Understand various data preprocessing procedures and their application scenarios.
15ACS21	Software Engineering	2016-17	Research Work - Focus on the fundamentals of modeling a software project,Obtain knowledge about principles and practices of software engineering.
15ACS19	Design And Analysis Of Algorithms	2016-17	Research - Analyze worst-case running times of algorithms using asymptotic analysis, Argue the correctness of algorithms using inductive proofs and invariants.
15ACS10	Operating Systems And Java Programming Lab	2016-17	Practical - From this we have given well knownledge to the students.
19AEE02	Electric Circuits - I	2019-20	Practical - To study basics on circuits and analysis of various Electrical Circuits
15ACS23	Data Warehousing And Data Mining Lab	2016-17	Practical - From this they have gained enough knowledge on Data Mining
15ACS13	Formal Languages And Automata Theory	2016-17	Resarch work - The course aims to introduce the basic methods and conclusions of the Theory of Computation. The course aims to introduce the basic methods and conclusions of the Theory of Computation. The course aims to introduce the basic methods and conclusions of the Theory of Computation.
19AEE07	Control Systems	2020-21	job oriented - To study the various components involved in control systems
15ACS08	Operating Systems	2016-17	Research Work - Understand what makes a computer system function and the primary PC components, Understand past and current trends in computer technology, Use basic software applications, Add functionality to the exiting operating systems Design new operating systems
19ACS27	Multimedia Application Development	2019-20	Programming - Students are able to understand Multimedia projects & Applications,Students are able to utilize the multimedia technologies to develop multimedia project.
19AEE09	Performance Of Dc Machines	2020-21	job oriented - Analysis and Design of DC Machines
19AEE11	Electric Circuits - Ii	2020-21	Practical - Analysis and Synthesis of AC Circuits
19AEE10	Electromagnetic Field Theory	2020-21	Research work - To Study regarding the static Electric and Magnetic Fields and time varying fields
19AEE09	Performance Of Dc Machines	2020-21	Job Oriented - Analysis and Design of DC Machines
15AC15	Database Management Systems Lab	2016-17	Practical - 1.Design Database 2.Retrive information from database 3.create user interfaces and generate reports
15ACS42	Mobile Computing	2016-17	Practical - Students able to use mobile computing more effectively,Developing mobile application programs to exploit the mobile operating system
19ACS01	Problem Solving	2016-17	Programming - Design computer programs for real world problems, Select the

			features of C language appropriate for solving a problem
15ACS41	Enterprise Application System	2016-17	Industrial Visit - Describe different approaches to integration enterprise a Analyse specifications and identify appropriate integration approaches ,Develop a suitable integration design for a given problem ,Identify appropriate integration middleware for a given problem ,Evaluate the integration approaches against specified requirements
19AEE12	Electrical Power Generation And Distribution	2020-21	Job Oriented - Describes regarding power generation, Tariffs, Switchgear and distribution
15ACS25	Object Oriented Analysis And Design	2016-17	Practical - Find solutions to the complex problems using object oriented approach,Represent classes, responsibilities and states using UML notation.
19ACS02	Problem Solving And Programming Lab	2016-17	Practical - From this they have gained enough knowledge on Problem Solving
19AEE13	Performance Of Transformers And Induction Machines	2020-21	Research work - Analysis and Design of TRANSFORMERS AND INDUCTION MACHINES
19AEE14	Electrical And Electronic Measurements	2020-21	Practical - Study of various instruments
15ACS28	Advanced Computer Networks	2016-17	Research work - Understanding of holistic approach to computer networking, Ability to understand the computer networks and their applications, Ability to design simulation concepts related to packet forwarding in networks.
15ACS43	Optimization Techniques	2016-17	Research Work - Subdivide a complex system in to smaller disciplinary models, manage their interfaces and reintegrate them in to an overall system model,Rationalize and quantify a system architecture or product design problem by selecting appropriate objective function, design variables, parameters and constraints.
19ACS45	Multimedia Databases	2019-20	Practical - Able to identify the Data access, Able to study the metadata
19AEE51	Performance Of Synchronous And Special Machines	2021-22	Research work - Analysis and Design of SYNCHRONOUS AND SPECIAL MACHINES
19AEE52	Electrical Power Transmission And Utilization	2021-22	Job Oriented - To study regarding the power transmission, travelling waves, corona and utilization of power.
15ACS31	Object Oriented Analysis And Design & Compiler Design Lab	2016-17	Practical - Find solutions to the problems using object oriented approach,Represent using UML notation and interact with the customer to refine the UML diagrams.
15ACS36	Cloud Computing	2016-17	Practical - Communicate the main concepts, key technologies, strengths, and limitations of cloud computing and the possible applications for state-of-the-art cloud computing, Categorise the architecture and infrastructure of cloud computing, including SaaS, PaaS, IaaS, public cloud, private cloud, hybrid cloud, etc., Elucidate the core issues of cloud computing such as security, privacy, and interoperability. ,Provide the appropriate cloud computing solutions and recommendations according to the applications used.
19AEE53	Power Electronics	2021-22	Reserach work - Analysis of various POWER ELECTRONICS circuits
19AEE54 A	Electrical Distribution Systems	2021-22	Job Oriented - It describes the distribution of power from distributing substation to customers through feeders and lines
15ACS14	Internet Technologies Lab	2016-17	Practical - They have gained enough knowledge from internet technologies
19AEE54B	Advanced Control Systems	2021-22	Research - Analysis and Design of Advanced Controllers
19AEE54C	Ai Techniques In Electrical Engineering	2021-22	Reserach work - Study of AI and Intelligent Control Techniques
19ACS81	Virtual, Augmented, And Mixed Reality	2019-20	Research Work - Able to know the force computing, Able to understand the virtual reality modeling

15ACS32	MOBILE APPLICATION DEVELOPMENT &Amp; MULTI MEDIA APPLICATION DEVELOPMENT LAB	2016-17	Practical - From this lab they have gain enough knowledge on mobile application development.
15ACS47	Cloud Computing Lab	2016-17	Practical - They have gain enough knowledge from this Cloud computing lab
15ACS26	Mobile Application Development	2016-17	Practical - The course integrates the mobile application principles with the real-world experience,The course‚Äôs learning outcomes arm the students with technical expertise and mobile application development experience.
19ACS81	Block Chain Fundamentals	2019-20	Practical - Apply security features in blockchain technologies, Use smart contract in real world applications.
19AEE61	Power System Operation And Control	2021-22	Reserach work - Modelling and Analysis of Power System Networks
15ACS61	Machine Learning	2016-17	Research Work - Develop an appreciation for what is involved in learning from data,Understand a wide variety of learning algorithms.
19AEE63	Switchgear And Protection	2021-22	field work - Study of various Protection Schemes
19AEE64 A	Energy Audit, Conservation & Management	2021-22	Job Oriented - It describes energy, audit, conservation and management
19AEE64C	Applications Of Power Electronics To Renewable Energy Sources	2021-22	Reserach work - Application of POWER ELECTRONICS TO RENEWABLE ENERGY SOURCES
19ACS81	Intelligent Agents	2019-20	Practical - Overview of the Prometheus Methodology, Architectural Design
15ACS35	Big Data Analytics	2016-17	Practical - 1. Organizational and individual decision-making 2. Key concepts and current practices of business intelligence .3. The individual, organizational and societal impacts of BI systems
15ACS46	Scripting Languages	2016-17	Programming - 1.The individual, organizational and societal impacts of BI systems 2.‚Ä¢ Ability to apply your knowledge of the weaknesses of scripting languages to select implementation.
15ACS42	Semantic Web	2016-17	Practical - ‚Ä¢ Understand the concept structure of the semantic web technology and how this technology revolutionizes the World Wide Web and its uses. ‚Ä¢ Understand the concepts of metadata, semantics of knowledge and resource, ontology, and their descriptions in XML-based syntax and web ontology language (OWL). ‚Ä¢ Describe logic semantics and inference with OWL. ‚Ä¢ Use ontology engineering approaches in semantic applications ‚Ä¢ Program semantic applications with Java API.
19ACS54a	Computer Graphics	2019-20	Practical - At the end of this Course the student will be able to Introduction to computer graphics ‚Ä¢ Point-plotting techniques ‚Ä¢ Two-dimensional transformation ‚Ä¢ Clipping and drawing
15ACS39	Software Project Management	2016-17	Research Work - 1. Gain knowledge on project planning and management, client management and project Scheduling and monitoring. 2. Analyze the testing based approach to development, team management and ongoing Project schedule tracking. 3. Apply Software Metrics for a given Project to calculate Cost estimation models. 4. Communicate effectively with IT-industries or organizations. 5. Engage in lifelong learning for effective project management and finance monitoring.
5ACS46	Software Testing Lab	2016-17	Practical - 1. Gain Knowledge on the real time applications of Software Testing & Cloud (PO 1). 2. Analyse the software from the perspective of software tester (PO 2). 3. Get exposed to Testing & Cloud tools like QTP,Load runner, Windows Azure,SalesForce, VMware . 4. Recognize the need of Cloud Computing, Software Testing and can engage in lifelong learning by incorporating best practices of them.
19ACS53	Data Mining	2019-20	Practical - At the end of this Course the student will be able to ‚Ä¢ Ability to identify the association rules, classification and clusters in large data sets‚Ä¢

			Ability to solve real world problems in business and scientific information using data mining
19ACS66	Cyber Security Lab	2019-20	Practical - Frpm this they gained enough knowledge
19ACS56	Internet Of Things	2019-20	Practical - At the end of this Course the student will be able to Able to understand the application areas of IOT ¬∑ Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks ¬∑
15ACS34	Software Testing	2016-17	Practical - 1. Analyze requirements to determine appropriate testing strategies. 2. Apply a wide variety of testing techniques in an effective and efficient manner 3. Compute test coverage and yield according to a variety of criteria 4. Evaluate the limitations of a given testing process and provide a succinct summary of those limitations
19ACS27	Computer Networks And Operating System Lab	2019-20	Practical - From this they have learned about networks and operating system
19ACS65b	Introduction To Computer Networks	2019-20	Practical - 1.Ability to apply your knowledge of the weaknesses of scripting languages to select implementation.2.
19ACS24	Software Engineering Lab	2019-20	Practical - From this they have gained enough knowledge on software engineering
19ACS22	Computer Organisation Lab	2019-20	Practical - From this they have gained enough knowledge on Computer Oragnisation
19ACS52	Object Oriented Analysis, Design And Testing	2019-20	Programming - At the end of this Course the student will be able to ‚Ä¢ Express software design with UML diagrams. ‚Ä¢ Design software applications using OO concepts. ‚Ä¢ Identify various scenarios based on software requirements.
19ACS55c	Introduction To Operating Systems	2019-20	Research Work - At the end of this Course the student will be able to ‚Ä¢ Understand what makes a computer system function and the primary PC components. ‚Ä¢ Understand past and current trends in computer technology.
19ACS63	Cyber Security	2019-20	Research work - To understand Cyber attacks and crimes,cyber laws and also how to protect themselves from internet community
19ACS74	Design Patterns	2019-20	practical - ‚Ä¢ To learn Importance of Design Patterns ‚Ä¢ An ability to understand Design Patterns.
19ACS54C	Web Technologies	2019-20	Programming - At the end of this Course the student will be able to Introduction to computer graphics 1. Gain knowledge of client-side scripting, validation of forms and AJAX programming 2. Understand server-side scripting with PHP language
19ACS62	Big Data Analytics	2019-20	Practical - 1.Students able to know what is big data and its uses 2.students will be able to know hoe the big data is used
19ACS55a	Oops Concepts Through Java	2019-20	Programming - At the end of this Course the student will be able to Introduction to computer graphics 1. Gain knowledge of client-side scripting, validation of forms and AJAX programming 2. Understand server-side scripting with PHP language
19ACS71	Cloud Computing	2019-20	Practical - ‚Ä¢ Understand the fundamental principles of distributed computing. L2 ‚Ä¢ Understand how the distributed computing environments known as Grids can be built from lower level services.
19ACS65a	Introduction To Machine Learning	2019-20	Research Work - Students able to understand the basic concepts such as decision trees and neural networks
19ACS58	Object Oriented Analysis, Design And Testing Lab	2019-20	Programming - From this they have gain enough knowledge on OOAD
19ACS76b	Data Science	2019-20	Research work - ‚Ä¢ List a range of different software testing techniques and statergies and be able to apply specific(automated) unit testing method to the projects. L1 ‚Ä¢ Distinguish characterstics of structural testing methods
19ACS55B	Introduction To Internet Of Things	2019-20	Practical - At the end of this Course the student will be able to Introduction to computer graphics Able to understand the application areas of IOT ¬∑Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks ¬∑
19ACS67	Machine Learning Lab	2019-20	Research Work - From this they have learned machine learning concepts
19ACS61	Machine Learning	2019-20	Research Work - Able to fromulate formulas for the problems
19ACS76c	Adhoc & Sensor	2019-20	Research work - ‚Ä¢ Explain the Fundamental Concepts and applications of

	Networks		ad hoc and wireless sensor networks L2 ,Ä¢ Describe the MAC protocol issues of ad hoc networks
19ACS64a	Scripting Languages	2019-20	Programming - 1.Able to understand the difference between scripting languages 2.Master the understanding of python especially oops concepts
19ACS77	Cloud Computing Lab	2019-20	Practical - They have gain enough knowledge from this Cloud computing lab
19ACS64b	Mobile Computing	2019-20	Practical - Explain the principles and theories of mobile computing technologies.Describe infrastructures and technologies of mobile computing technologies.
19ACS64c	Software Architectures	2019-20	Research Work - Design and motivate software architectuers for large scale software
19ACS72	Devops	2019-20	Practical - They have gain enough knowledge from this Dev Ops
19ACS74a	Human Computer Interaction	2019-20	Research work - ,Ä¢ Design effective dialog for HCI L2 ,Ä¢ Design effective HCI for individuals and persons with disabilities.
19ACS65c	Web Design And Management	2019-20	Industrial Visit - Recognizing the method of using layered technology.Propose new protocols for computer networks
21D07102	Advanced Power System Protection	2021-22	Research - Analysis of Advanced Protection Schemes
21D07103 C	SOLAR And WIND ENERGY CONVERSION SYSTEMS	2021-22	Reserach work - Study of Solar and Wind Energy Conversion Systems
21D07104 A	Reliability Engineering And Application To Power Systems	2021-22	Job Oriented - Study the Modelling and application to power systems
21D07107	Research Methodology & Ipr	2021-22	Reserach work - Study of various Research Methodologies
21D07108	Research Paper Writing Skills	2021-22	WRITING SKILLS - Study of RESEARCH PAPER WRITING SKILLS
21D83101	Switched Mode Power Converters	2021-22	Reserach work - Study and Analysis of POWER CONVERTERS
21D83104 B	Power Quality	2021-22	job oriented - To Study of various POWER QUALITY issues and corrections
21D83102	Power Electronic Control Of Dc Drives	2021-22	Reserach work - Study of Power Electronic Control of DC Drives
21D83103 A	Modern Control Theory	2021-22	Reserach work - Design and Analysis of State Controller
17S01202	Pharmacological And Toxicological Screening Methods-2	2017-18	Toxicokinetics- Toxicokinetic evaluation in preclinical studies - Absorption ,distribution ,bio transformation and excretion of chemicals
15A51301	Mathematical Methods	2017-18	programming - Analyze engineering problems using the concepts of Matrices and Numerical methods.
17S01203	Principles Of Drug Discovery	2017-18	Virtual Screening techniques - Ligand based,structure based,similarity searching
17S01204	Clinical Research And Pharmacovigilance	2017-18	Clinical Trial Documentation - Trail master file,source document,essential documents
15A02301	Electrical Circuits- Ii	2017-18	Field work - Analyze the transient response of series circuits for d.c and a.c Excitation
15A02302	Electrical Machines ,Äì I	2017-18	Field work - Analyze the performance of transformers and DC machines
15A02303	Control Systems Engineering	2017-18	Field work - Evaluate state space model of a physical system
15A54301	Managerial Economics And Financial Analysis	2017-18	Entrepreneur - Analyze how to invest adequate amount of capital in order to get maximum return from selected business activity.
15A13301	Applied Engineering	2017-18	Field work - Analyze fluid mechanics and design of different hydraulic turbines

15A02304	Electric Circuits And Simulation Lab	2017-18	Practical - Experimental and Theoretical verification of theorems and two port networks
15A04305	Electronic Devices And Circuits Lab	2017-18	Practical - Design and analyze biasing circuits of BJT
15A51402	Complex Variables And Special Functions	2017-18	programming - Analyze the problems using the special functions and complex variables.
15A02401	Electrical Machines ‚Äì Ii	2017-18	Field work - Analyze the performance of transformers and Induction motors
15A02402	Electric Power Generating Systems	2017-18	Field work - Analyze the performance of different power generating stations
15A02403	Electromagnetic Fields	2017-18	Field work - Analyze electromagnetic wave propagation and attenuation in various medium and propagation through boundaries between media.
15A04401	Switching Theory And Logic Design	2017-18	Field work - Design and implement Combinational circuits.
15A04408	Analog Electronic Circuits	2017-18	Field work - Design mutivibratorcircuits for various applications.
15A54402	Human Values And Professional Ethics (Audit Course)	2017-18	Research work - Develop awareness on ethics, human values& obligations related to Self, Family, Society and State.
15A02404	Electrical Machines Lab - I	2017-18	Practical - Analyze the performance by conduct experiments on DC Machine
15A02405	Control Systems And Simulation Lab	2017-18	Practical - Analyze the performance and time domain specifications of first and second order systems.
17A35401	Managerial Economics And Financial Analysis	2018-19	Entrepreneur - Analyze how to invest adequate amount of capital in order to get maximum return from selected business activity.
17A35102	Mathematics - Iii	2018-19	programming - Analyze various numerical techniques, designing mathematical models, numerical techniques for engineering problems
17A35103	Complex Variables And Special Functions	2018-19	programming - Analyze the problems using the special functions and complex variables.
15R00202	General And Dispensing Pharmacy	2016-17	Origin and History , Dispensing Pharmacy - Definition, Essential characteristics. Dosage form , Principles of dispensing, parts of prescription, handling of prescription.
20AEE01	Electrical Circuits-I	2020-21	Reserach work - Deals with circuit basics and analysis of various circuits
17A55401	Management Science	2019-20	Entrepreneur - To apply the concepts of HRM in Recruitment, Selection, Training & Development
20AEE06	Electric Circuits ‚Äì Ii	2021-22	Reserach work - Analysis and Synthesis of various Electrical AC Circuits
20AEE08	Control Systems	2021-22	Reserach work - To study the various components involved in control systems
17A50201	Transmission Of Electric Power	2019-20	Field - Ability to do calculation of sag for different types of Transmission systems, evaluation of A,B,C,D Constants
20AEE10	Performance Of DC Machines	2021-22	Reserach work - Performance Determination of DC Machines
17A50202	Electrical Machines ‚Äì Iii	2019-20	Industrial - Analyze the constructional details and able to Estimate the regulation of synchronous generator using different methods,Determine the load sharing among alternators.
20AEE11	Skill Oriented Course ‚Äì Energy Auditing	2021-22	Skill Course - Auditing and suggest conservation methods which are economical
20AEE12	Electromagnetic Field Theory	2021-22	Reserach work - To Study regarding the static Electric and Magnetic Fields and time varying fields
17A50203	Power Electronics	2019-20	Practical - Design and develop of some of power electronics converter methods.
20AEE16	Performance Of Transformers And Induction Machines	2021-22	Reserach work - Performance Determination of AC Machines
20AEE19	Skill Oriented Course ‚Äì II- Design Of Solar PV	2021-22	SKILLED COURSE - Design and Analysis of Solar and Wind Systems

	And Wind Systems		
17A30201	Electric Circuits- Ii	2018-19	Field work - Analyze the transient response of series circuits for d.c and a.c Excitation
15A02701	Electric Power Distribution Systems	2018-19	Industrial Visit - Acquire knowledge on important phenomena regarding substations such as ratings, optimal location, layout of equipment, various types of bus bar arrangements
15D21101	Advanced Power System Protection	2019-20	Industrial Visit - Analysis of static differential relays, Dual bias transformer differential protection,Harmonic restraint relay and Static Relays
15D21102	Power System Stability & Control	2019-20	Research Work - Analysis of voltage instability and collapse, Integrated analysis of voltage and Angle stability ,Control of voltage instability
15D21103	Power System Wide Area Monitoring & Control	2018-19	Research Work - analyse Concept of security, Security analysis and monitoring, factors affecting power system security.
15D21104	Power Quality Issues & Improvement	2018-19	Research Work - measure POWER FREQUENCY DISTURBANCE & TRANSIENTS and Analyse Electrochemical Reaction
15D21107	Machines & Power Systems Lab	2018-19	Practical - Determination of Sequence Impedances of a Cylindrical Rotor Synchronous Machine and Subtransient Reactance of a Salient Pole Machine
15A02702	Instrumentation	2018-19	Field work - Understand Transducers and their measurement of electrical and non-electrical quantities
15D24101	System Reliability Concepts	2018-19	Research work - Evaluation of reliability measure MTTF for series and parallel systems and evaluation of equivalent transitional rates
17A50205	Linear & Digital Integrated Circuits	2019-20	Practical - Develop, apply and analyze circuits for advanced applications using Opamps, PLL, VCO and Analog multipliers
15D21105	Facts & Hvdc Transmission Systems	2018-19	Field work - DESIGNHARMONICS AND FILTERS & INTERACTION BETWEEN AC AND DC SYSTEMS
17A30202	Electrical Machines ,Äì I	2018-19	Field work - Analyze the performance of transformers and DC machines
15D22101	Modern Control Theory	2018-19	Research work - Design of robust control system for asymptotic tracking and disturbance rejection using State variable equations
15D21106	Distributed Generation & Micro Grid	2018-19	Field work - Understand Impact on heat utilisation, Impact on distribution system and Impact on process optimisation
17A50206	Electrical Machines Lab ,Äì Ii	2019-20	Practical - Acquire the knowledge about the fixation of the rating of transformers, induction motors and synchronous machines
15D21201	Power System Reliability	2018-19	Research Work - Evaluation of cumulative probability and cumulative frequency of non- identical generating units
15D21202	Smart Grid Design & Analysis	2018-19	Research work - ANALYSE PERFORMANCE ANALYSIS TOOLS FOR SMART GRID DESIGN
17A50207	Electrical And Electronic Measurements Lab	2019-20	Practical - Compute the coefficient of coupling between two coupled coils,Accurately determine the values of inductance and capacitance using a.c bridges
15D21203	Restructured Power Systems	2018-19	Field work - Evaluate Operational Planning Activities of ISO- The ISO in Pool Markets and analyze
15A02703	Introduction To HVDC Transmission & FACTS	2018-19	Industrial Visit - Understand operation of different FACTS devices and their applications and FACTS devices and their applications
BP807ET	Computer Aided Drug Design	2017-18	Drug Discovery and Design - Design and discovery of lead molecules and The role of drug design in drug discovery process
15D22203	Intelligent Algorithms	2018-19	Programming - Implementation of fuzzy logic controller using Matlab fuzzy logic toolbox and Stability analysis of fuzzy control systems.
17A50208	Power Electronics & Simulation Lab	2019-20	Practical - The PSPICE/PSIM programming for various power electronic devices
20AEE13	Electrical Power Generation And Distribution	2021-22	Job Oriented - Describes regarding power generation, Tariffs, Switchgear and distribution
15D54201	Research Methodology	2018-19	Research work - Understand the Basic Principles of Experimental Design and analyze Correlation and Regression
(17S03205)	Nano Technology & Targeted Dds (Ntds) Practicals - Ii	2018-19	microcapsules preparation,Alginate beads,gelatin /albumin microspheres,liposomes/niosomes,spherules,Solid dispersion ,Protein binding studies ,dissolution. - students will prepare and evaluate different

			formulations, along with dissolution testing compression
BP501T	Medicinal Chemistry-Ii	2016-17	Research - To Know the Structural Activity Relationship of different class of drugs, Study the chemical synthesis of selected drug
15A02704	Power System Operation & Control	2018-19	Industrial Visit - Understand hydrothermal scheduling and modeling of turbines, generators and automatic controllers and single area and two area load frequency control and economic emission dispatch
15D21209	Power System Simulation Lab	2018-19	Practical - Analyse Gauss ,Äì Seidel Load Flow,Fast Decoupled Load Flow and Step Response of Two Area System with Integral Control
15D21205	Reactive Power Compensation & Management	2018-19	Field work - understand REACTIVE POWER MANAGEMENT IN ELECTRIC TRACTION SYSTEMS AND ARC FURNACES
15D21206	Ehvac Transmission Systems	2018-19	Research work - Understand the ELECTRO STATIC FIELD & TRAVELING WAVE THEORY and Measurement of RI, RIV and excitation functions
BP601T	Medicinal Chemistry-Iii	2016-17	drug design - To Understand the importance of drug design and different techniques of drug design and the chemistry of drugs with respect to their biological activity, the metabolism, adverse effects and therapeutic value of drug , the importance of SAR of drugs.
17S03102	Modern Pharmaceutics	2017-18	Preformation Concepts,Optimization techniques in Pharmaceutical Formulation,Validation,WHO guidelines,cGMP & Industrial Management,Study of consolidation parameters. - students will learn the concept of preformulation optimizaton techniques and who guidelines of CGMP.
17A60202	Power Semiconductor Controlled Drives	2019-20	Industrial - Analysis and Performance- of three phase induction motors ,Transient analysis of separately excited motor
15D21207	Solar Energy Conversion Systems	2018-19	Research work - design of PV powered DC fan without battery, standalone system with DC load using MPPT, design of PV powered DC pump
15D21208	Wind Energy Conversion Systems	2018-19	Research work - analysis of steady state operation the steady state characteristics and design of the wind turbine rotor
17A624501	Microprocessors & Microcontrollers	2019-20	Practical - Interfacing of 8086 microprocessor, 8051 micro controller with other devices and its applications, HDL Programming.
17A30203	Linear Control Systems	2018-19	Field work - Evaluate state space model of a physical system
17T00104	Pharmaceutical Organic Chemistry	2016-17	Practical - Tp know the knowledge on Free radical/ nucleophyllic [alkyl/ acyl/ aryl] /electrophyllic substitution, free radical/ nucleophyllic / electrophyllic addition, elimination, oxidation andreduction reactions with mechanism, orientation of the reaction, order of reactivity, stability
17A35104	Exploratory Data Analysis Lab	2018-19	Practical - Analyze the data using appropriate statistical tools, solving algebraic and differential equations
17A60204 a	Instrumentation	2019-20	Industrial - Various measuring meters and signal analyzers , Statistical Analysis of Random Errors,Application of Wave Analyzers
15A02601	Switch Gear & Protection	2018-19	Practical - Understand the protection of different power system components such as generators, transformers, lines and feeders against over voltages
17A30204	Electric Circuits & Simulation Lab	2018-19	Practical - Experimental and Theoretical verification of theorems and two port networks
17A60204 c	Reliability And Safety Engineering	2019-20	Industrial - Analysis of Dynamic Reliability
15A02603	Computer Aided Power System Analysis	2018-19	Research work - Analyze power system models based on nodal admittance and impedance matrices for the large networks
15A02602	Digital Signal Processing	2018-19	Research work - Development of the mathematical skills to solve problems involving convolution, filtering, modulation and sampling
13A02701	Electric Power Distribution System	2017-18	Industrial Visit - Understand design aspects and computational procedures for DC and AC Distribution systems and various methods of voltage control
15A02604	Microprocessors & Microcontrollers	2018-19	Research work - Designing of 8051 Microcontroller with Assembling language programming and interfacing with various modules
13A02702	Instrumentation	2017-18	Field work - Acquire knowledge about measuring systems, error measurements, test signals, different types of data transmission and modulation techniques
17A62450	Microprocessors &	2019-20	Practical - Assembly language programming on 8086

2	Microcontrollers Lab		Microprocessors,Interfacing of various devices with 8086 and 8051 Micro controller with its peripheral devices.
13A02703	Introduction To HVDC Transmission & FACTS	2017-18	Industrial Visit - Understand operation ôf different FACTS devices and their applications and understand AC and DC transmission systems
15A02605	Power Semiconductor Controlled Drives	2018-19	Research work - Understand operation of electric motor drives those are controlled from power electronic converters and applications
17A60205	Linear & Digital Ics Lab	2019-20	Practical - Design, Test and Evaluate various combinational circuits and sequential circuits s
15A02606 a	Plc & Its Applications	2018-19	Research work - Designing of control circuits for various applications
17S03101	Drug Delivery Systems	2018-19	Sustained Release (SR) and Controlled Release ,Osmotic activated Drug Delivery Systems,Gastro-Retentive Drug Delivery Systems,Occular Drug Delivery Systems,Protein and Peptide Delivery,Vaccine delivery systems - students will get the knowledge of different type of formulations designs with different type of drug release Zero order first order release characteristics
17S03101	Drug Delivery Systems	2018-19	Sustained Release (SR) and Controlled Release ,Osmotic activated Drug Delivery Systems,Gastro-Retentive Drug Delivery Systems,Occular Drug Delivery Systems,Protein and Peptide Delivery,Vaccine delivery systems - students will get the knowledge of different type of formulations designs with different type of drug release Zero order first order release characteristics
15A02606 b	Renewable Energy Sources	2018-19	Practical - Deign of wind power and solar photovoltaic power generation, fuel cells
15R00607	Cosmetic Technology	2018-19	Introduction of Cosmetics - Purposes of Cosmetics, meaning of Cosmetics and cosmeceuticals, Classification
17A40201	Electrical Machines ,Äi Ii	2018-19	Field work - Analyze the performance of transformers and Induction motors
15A02606 c	Linear & Nonlinear Optimization Techniques	2018-19	Practical - Design methods of linear and non-linear (constrained and unconstrained) programming
15A02606 d	Reliability And Safety Engineering	2018-19	Research work - Design the concepts of system reliability and safety. Get knowledge on reliability block diagram, markov models, fault tree analysis, monte carlo simulation and dynamic reliability analysis
15A02607	Microprocessors & Microcontrollers Lab	2018-19	Research work - Design interfacing 8051 Microcontroller with its peripheral devices
15A02608	Power Electronics & Simulation Lab	2018-19	Practical - Design various power electronic devices and their commutation circuits
17A40202	Electrical Power Generating Systems	2018-19	Field work - Analyze the performance of different power generating stations
15A55601	Advanced Communication Skills Lab	2018-19	Practical - Design good communication skills as well as soft skills to meet global demands.
17A40203	Electromagnetic Fields	2018-19	Field work - Analyzeelectromagnetic wave propagation and attenuation in various medium and propagation through boundaries between media.
17S03204	Cosmetics And Cosmeceuticals	2017-18	Cosmetics - Indian regulatory requirements for labeling of cosmetics Regulatory provisions relating to import of cosmetics
17A40407	Analog Electronic Circuits	2018-19	Field work - Design and realize different classes of power amplifiers
17A40408	Switching Theory & Logic Design	2018-19	Field work - Design and implement Combinational circuits.
17A45101	Human Values And Professional Ethics (Audit Course)	2018-19	Research work - Develop awareness on ethics, human values& obligations related to Self, Family, Society and State.
17A40204	Control Systems & Simulation Lab	2018-19	Practical - Analyze the performance and time domain specifications of first and second order systems.
17A40206	Electrical Machines Lab - I	2018-19	Practical - Analyze the performance by conduct experiments on DC Machine
19ACE53	Design Of Reinforced Concrete Structures	2019-20	practical - concepts of design of flexural members. ÔÇ∑ Understand Concepts of shear, bond and torsion. ÔÇ∑ Familiarize students with different types of compressions members and Design. ÔÇ∑ Understand different types

			of footings and their design.
20A51101 T	Chemistry	2021-22	RESEARCH WORK - Explain the different types of spectral series in electromagnetic spectrum,Understand the principles of different analytical instruments
17A65501	Advanced Communication Skills Lab	2019-20	Practical - Analyze different descriptive and technical writing material and develop corporate skills such as time management, negotiation, technical and organizational skills.
17A60201	Switchgear & Protection	2019-20	Practical - Analyze the concepts of protection of electrical systems under abnormal conditions using various protective devices and analyze overvoltage
19A05304 T	Python Programming	2020-21	Programming - To introduce a function-oriented programming paradigm through python
17A60202	Power Semiconductor Controlled Drives	2019-20	Research work - Understand the speed control methods for AC-AC & DC-AC converters fed to Induction motors and synchronous motors with their closed loop, and open loop operations
19ACE14	Concrete Technology	2019-20	practical - to check and recommend different constituent of concrete. to test strength and quality of plastic and set concrete. understand application of admixture and its effect on properties of concrete. to design mix of concrete according to availability of ingredients and design needs.
17A60203	Computer Aided Power System Analysis	2019-20	Research work - Analyze power system models based on nodal admittance and impedance matrices for the large networks
17A624501	Microprocessors & Microcontrollers	2019-20	Research work - Designing of 8051 Microcontroller with Assembling language programming and interfacing with various modules
19ACE64a	Advanced Reinforced Concrete Structures	2019-20	research work - analyze and design of various reinforced concrete structures like water tanks. Analysis and design of intz tank and its staging Raft foundation, corbels, underground and on ground circular water tanks, intz tank, bunkers and silos
17A60204 a	Instrumentation	2019-20	Practical - Analyze working of various measuring systems, error measurements, test signals, different types of data transmission and modulation techniques
17A60204 b	Wind Energy Conversion Systems	2019-20	Research work - Acquire knowledge on fundamentals of wind turbine and wind energy conversion devices and principles of Induction generators and synchronous generators and grid connected systems
17A60204 c	Reliability And Safety Engineering	2019-20	Internship - Analyze the concepts of system reliability and safety. Get knowledge on reliability block diagram, markov models, fault tree analysis, monte carlo simulation and dynamic reliability analysis
17A69901	Foreign Language	2019-20	Research work - Analyze frequently used phrases and expressions in French related to relevant areas of experience
17A624502	Microprocessors & Microcontrollers Lab	2019-20	Research work - Design interfacing of 8051 Microcontroller with its peripheral devices
17A60205	Linear & Digital Ics Lab	2019-20	Practical - Design oscillators and amplifiers using operational amplifiersf and filters using Opamp and perform experiment on frequency response
19ACE74a	Bridge Engineering	2019-20	research work - design procedures of bridges such as deck slab bridge, T ,Äì Beam Bridge, Plate Girder Bridge and Box culvert etc., based on the I.R.C provisions. ÔÇ∑ It gives a good knowledge on different components like bridge bearing, piers and abutments of the bridges.
19ace73	Advanced Structural Design	2019-20	research work - To Design bunker, silos, chimneys,circular and rectangular tanks along with detailing of reinforcement
19ACE52	Highway Engineering	2019-20	field work - imparts knowledge ondesign of highway intersections, highway materials and design of pavements
19ACE07	Engineering Geology	2019-20	field work - gives a suitable picture on the Geological aspects that are to be considered for the planning and construction of major Civil Engineering projects
19ACE76b	Prestressed Concrete	2019-20	field work - DESIGN OF PRESTRESSED CONCRETE STRUCTURAL MEMBERS
19ACE71	Estimation Costing And Valuation	2019-20	field work - specifications and tender procedures. ÔÇ∑ To give insights on various types of contract agreements. ÔÇ∑ To inculcate data preparation for abstract estimation ÔÇ∑ To teach procedure for valuation of buildings.
19ACE63	Environmental Engineering	2019-20	practical - population forecasts, design period, water demand, and types of demand, factors affecting fluctuations, fire demand, storage capacity, water

			quality and testing. Drinking water standards Construct and design waste water treatment units such as oxidation ponds, sludge digestion tanks,
19ACE09	Structural Analysis 1	2019-20	practical - tp analyse statically determinate trusses, beams and frames and obtain internal reactions. to determine shear and moment functions and diagrams for beams for beam structures. to evaluate deflection of beams and frames using classical methods. UNIT
19ACE 01	Strenth Of Meterials 1	2019-20	practical - knowledge how toresolve forces and moments in a given system, analyze various types of friction for moving bodies, determine the centroid and second moment of area, simple stress strains flexural stresses in members, shear stresses and deflection in beams so that the concepts can be applied to the Engineering problems.
19ACE05	Strenghth Of Materials-Ii	2019-20	field work - oncepts for determination of principal stresses and strains in various structural elements. analytical methods for determining strength & stiffness and assess stability of structural members , analyze circular shafts subjected to torsion & determine critical loads for columns with different end conditions
19AME02	Engg.Workshop	2019-20	WORKSHOP - TO STUDY PLUMBING
19ACE54c	Wre -2	2019-20	practical - To study various head works canal structures and their design principles the subject also covers the river structures, their classifications, designs, etc.
19ACE10	Surveying	2019-20	SURVEYING - angular measuring instruments for horizontal and vertical control. ÔÇ∑ To enable the student to set simple horizontal curves. ÔÇ∑ To introduce the knowledge construction surveys and usage of modern instrument such as total station.
19A20501	Digital Logic Design	2021-22	Field Work - Acquiring the skills to manipulate and examine Boolean algebraic expressions, logical operations, and Boolean functions, Acquainting with classical hardware design for both combinational and sequential logic circuits
19A20605	Number Theroy And Applications	2021-22	Subject - Solve the problems using different Number theroy techniques
19A20503	Desing And Analysis Of Algorithms	2021-22	Programming - explain the advanced algorithm design and analysis techniques. introduce special classes of algorithms NP ,Äì completeness and the classes P and NP.
19A60503	Machine Learning	2019-20	Research - Apply Dimensionality reduction techniques for data preprocessing., Solve the real world problems using various machine learning techniques.
19A80506	Cyber Security	2019-20	Internship - Analyze and evaluate the cyber security needs of an organization,Conduct a cyber security risk assessment.
19A10401	Electronics And Communication Engineering Workshop	2019-20	Programming - Introduction to EDA Tools: MULTISIM/PSPICE/TINA schematic capture tool, Learning of basic functions of creating a new project, getting and placing parts, connecting placed parts, simulating the schematic, plotting and analyzing the results. Provide some exercises so that students are familiarized in using EDA tools,Identify discrete components and ICs
17A80501 a	Information&Cybersecurity	2021-22	Programming - cyber security
19A10402	Network Theory	2019-20	Research Work - Analyze different electronic and electrical circuits by employing basic laws that govern flow of current,e two port networks with their equivalent representations using two port parameters,Analyze the RLC circuit behavior.
17A80501 b	Softwarearchitecture	2021-22	Research work - Effectively use SAPERP to execute key steps in the procurement process. Ability to use SAPERP to extract meaningful information about the production process
17A80501 c	Systemapplicationsproduct	2021-22	Field work - Understanding the concept of input and output devices of Computers.Learn the functional units and classify types of computers, how they process in their production
19A10403	Electronic Devices	2019-20	Employability - Analyze the operating principles, characteristics and applications of electronic devices like diodes, transistors and special purpose devices,develop a high degree of familiarity with the MOSFET: its physical structure and operation, terminal characteristics.
19A10404	Passive Circuits And Electronic Devices	2019-20	Practical - Design a parallel RLC resonance circuit. Plot frequency response and find resonance frequency, Bandwidth, Q ,Äì factor.Measure and

	Lab		calculate h-parameters of two-port network by making use of a transistor.
19A24201	Signal And Systems	2020-21	Research - Apply sampling theorem to convert continuous-time signals to discrete-time signals and reconstruct back, different transform techniques to solve signals and system related problems,Analyze the frequency spectra of various continuous-time and discrete-time signals using different transform methods.
19A20401	Electronic Circuits I	2020-21	SURVEY - Analyze diode circuits for different applications such as rectifiers, clippers and clampers also analyze low frequency models of BJT and MOSFET. Explain the operation of different biasing circuits using MOSFETs and BJTs to stabilize the operating point.
19A20402	Probability Theory And Stochastic Process	2020-21	Research Work - Analyze various probability density functions of random variables, Derive the response of linear system for Gaussian noise and random signals as inputs. Formulate and solve the engineering problems involving random variables and random processes.
19A24204	Digital Electronics And Logic Design	2020-21	Research Work - Understand various number systems, error detecting, correcting binary codes, logic families, combinational and sequential circuits.Design combinational and sequential logic circuits,Apply Boolean laws, k-map and Q-M methods to minimize switching functions.
19A20403	Electronic Circuits I Lab	2020-21	Practical - basic characteristics and applications of basic electronic devices, frequency response of various amplifiers. Design and simulate common base amplifier either in PSPICE or Multisim environment, and study the Gain and bandwidth of amplifier.
19A20404	Simulation Lab	2020-21	Programming - Analyze signals using Fourier, Laplace and Z-transforms,Compute Fourier transform of a given signal and plot its magnitude and phase spectrum. Verify Sampling theorem, Determine Convolution and Correlation between signals and sequences.
19A20405	Electromagnetic Waves And Transmission Lines	2020-21	Field Work - Explain basic laws of electromagnetic fields and know the wave concept. Describes the transmission lines with equivalent circuit and explain their characteristic with various lengths. Analyze electric and magnetic fields at the interface of different media.
19A20406	Electronics Circuits II	2020-21	INDUSTRIAL - Design feedback amplifiers, oscillators, power amplifiers and tuned amplifiers for given specifications. Analyze feedback amplifiers, power amplifiers, and tuned amplifier. Evaluate efficiency of large signal (power) amplifiers and voltage regulators.
19A20407	Analog Communications	2020-21	Field Work - analyze different parameters of analog communication techniques. Know Noise Figure in AM & FM receiver systems. Understand Function of various stages of AM, FM transmitters and Know Characteristics of AM &FM receivers.
19A20408	Computer Architecture And Organization	2020-21	INDUSTRY - Analyze various issues related to memory hierarchy, Evaluate various modes of data transfer between CPU and I/O devices.
19A20409	Electronic Circuits Ii Lab	2020-21	Practical - Design RC and LC oscillators using transistors, Simulate all the circuits and compare the performance.Analyze negative feedback amplifier circuits, oscillators, Power amplifiers, Tuned amplifiers.
19A20410	Analog Communication Lab	2020-21	Practical - design and implement different modulation and demodulation techniques,write and execute programs in MATLAB to implement various modulation techniques.
19A50401	Integrated Circuits And Applications	2021-22	Research Work - Design of Op amp based Comparators, Waveform Generators, Active filters, Converters, design various multi-vibrator circuits using IC 555 timer,Analyze Op-Amp based Comparators, Waveform generators, Active filters, Converters,Compare different types of A/D and D/A Converter circuits.
19A50402	Antenna And Wave Propagation	2021-22	INDUSTRIAL - derive mathematical expressions and their application for complete design of antennas. explain measurement of antenna parameters ,o demonstrate various modes of EM wave propagation.
19A50403	Digital Communications	2021-22	Field Work - Analyze the different coding, modulation techniques, Probability of error performance of digital system. Apply the knowledge of signals and system & statistical theory to evaluate the performance of digital communication systems.
19A50404	Electronic Measurement And	2021-22	PRACTICAL - Identify the various electronic instruments based on their specifications for carrying out a particular task of measurement,design various

	Instrumentation		bridge models different classes of transducers. Measure various physical parameters by appropriately Measuring equipments.
19A50405	Machine Learning	2021-22	Skill Development - Analyze various types of Machine learning algorithms and python libraries, Identify the various statistical learning and statistical hypothesis testing methods. Understand basics of Neural networks and activation functions.
19A50406	Sensors And Actuators	2021-22	Industry - Design the various types of Radiation sensors design and Electical Actuation Systems,Analyze various designs of Thermal sensors ,Äì types, sensitivity and specifications.understand the various sensors and Actuators used in process Industry.
19A50408	Analog Electronics	2021-22	Research Work - analyze the functions of various types of electronic devices and circuits . apply various principles of electronic devices and circuits to solve complex Engineering problems ,design various types of electronic circuits for use in real time applications .
19A50513	Digital Electronics	2021-22	Skill Development - Evaluate functions using various types of minimizing algorithms like Boolean algebra, Karnaugh map or tabulation method. Analyze the design procedures of Combinational & sequential logic circuits.
19A50409	Integrated Circuits And Applications Lab	2021-22	Practical - Design Operational amplifiers for linear and nonlinear application, Multivibrator circuits using 555 & application specific ICs. Simulate all linear and nonlinear application based Op amp Circuits and circuits based on application specific ICs
19A50410	Digital Communications Lab	2021-22	Practical - Simulate all digital modulation and demodulation techniques in MATLAB. Design and implement different modulation and demodulation techniques. Analyze digital modulation & demodulation techniques.
19A60401	Micro Processor And Micro Controller	2021-22	Industry - Explain addressing modes of 8086, develop assembly language programs for various problems, describe interfacing of 8086 with peripheral devices, architecture and addressing modes of ARM Cortex M0+, assembly instruction set of ARM Cortex M0+. Distinguish between microprocessor and microcontroller, 8085& 8086 microprocessors, design applications using microcontroller
19A60402	Digital Signal Processing	2021-22	Research Work - basic concepts of IIR and FIR filters, DSP building blocks to achieve high speed in DSP processor, DSP TMS320C54XX architecture and instructions.Compute the fast Fourier transforms and find the relationship with other transforms. Realization of digital filter structures.
19A60403	Digital Design Through VHDL	2021-22	Skill Development - Develop VHDL models for various advanced digital applications,Use VHDL in design of digital design systems like washing machines, car parking systems ,Analyze and design basic digital circuits with combinatorial and sequential logic circuits using VHDL.
19A60404	Speech Processing	2021-22	Industry - Analyze models for speech processing and LPC ,familiar with the principles and the techniques used in speech processing.Learn about the recognition approaches, Parametric representation of speech and recognition.
19A60405	Advanced Machine Learning	2021-22	Skill Development - Understand concept of Deep learining and various efficient convolution algorithm , Analyze the importance of Docker containers and installing docker. Knowledge about AWG sage maker and training models
15A02504	Electrical And Electronic Measurements	2018-19	Industrial - Determine the resistance values of various ranges, L and C values using appropriate A.C bridges
21D23101	Switched Mode Power Converters	2021-22	Field work - Evaluate the operation of continuous and dis-continuous Fly back converter topologies and Apply the concept of topologies for various switching regulators
21D23102	Machine Modelling And Analysis	2021-22	Industrial Visit - Analyze the Free Acceleration Characteristics viewed from Various Reference Frames, Steady-State Analysis and its Operation ,dynamic analysis of machines, Mathematical modeling of PM Brushless DC motor
21D23103 a	Power Electronic Control Of DC Drives	2021-22	Industrial Visit - Design of chopper controlled DC motor Drives with different Quadrants and Apply the concept of phase controlled technique for DC motor Drives
21D23103 b	Modern Control Theory	2021-22	Research work - Apply the state equations, pole placement by state feedback and Analyze controllability & observability of state models
21D23103 c	Energy Auditing And Management	2021-22	Survey - Understand the current energy scenario and importance of energy conservation and Measure efficiency in renewable energy resources

21D23104 a	Solar Energy Conversion Systems	2021-22	Research work - Design of PV powered DC fan without battery, Standalone system with DC load using MPPT, PV powered DC pump, standalone system with battery and AC/DC load.
21D23104 b	Wind Energy Conversion Systems	2021-22	Research work - analysis of steady state operation the steady state characteristics and design of the wind turbine rotor
21D23104 c	Smart Grid Technologies	2021-22	Research work - Apply the knowledge about the measurement system and communication technology ofSmart grid.
21D11107	Power Electronic Circuit Lab	2021-22	Practical - Design a chopper, cycloconverter and AC voltage controller by PSIM Software and Apply the MATLAB/PSIM for various controllers
21D23201	Modern Power Electronics	2021-22	Research work - Analyze the construction and working principle of various types of resonant pulse inverters, resonant converters and multi inverters.
21D23202	Facts Controllers	2021-22	Field work - Understand various control techniques for the purpose of identifying the scope and for selection of specific FACTS controllers and Design simple converters using FACTS controllers
21D23203 a	Advanced Electric Drives	2021-22	Research work - Develop high performance induction motor drives using the principles of Scalar control and DevelopVector control and Direct Torque Control and introduction of five phase IM drives
21D23203 b	Advanced Power Semiconductor Devices & Protection	2021-22	Industrial Visit - Design protection devices and circuits like heat sinks, voltage and current protection circuits.
21D23203 c	Applications Of Power Converters	2021-22	Research work - design a bi-directional DC-DC converters for charge/discharge applications and Analyze the various power supplies used in modern microprocessor and computer loads
21D23204 a	Power Quality	2021-22	Research Work - Apply the concept of power frequency disturbances, types of transients & transient waveforms
21D23204 b	AI Techniques In Electrical Engineering	2021-22	Research work - Analyze & Develop fuzzy logic control for applications in electrical engineering and Develop genetic algorithm for applications in electrical engineering
21D23204 c	Digital Signal Processors And Applications	2021-22	Field work - Design / create DSP based controllers and processors for various simulation /real time based applications and Apply the basic and advanced concepts in order to develop various programmable based DSP applications
21D23205	Electric Drives Lab	2021-22	Practical - Apply and analyze various modulation techniques on different drives and Analyze performance of Induction Motors when different converters are connected.
21D23206	Facts Devices & Simulation Lab	2021-22	Practical - Analyze operation of TCSC, STATCOM & SSSC for a transmission line fed by an ac supply and the data related to load flows incorporating SVC & STATCOM
21D23301 a	Control & Integration Of Renewable Energy Sources	2021-22	Research work - understanding of power systems, their operation and control focussed on the issues related to the integration of distributed renewable generation into the network.
21D23301 b	Energy Storage Technologies	2021-22	Research work - Apply energy storage system concepts to electric vehicles,Analyze the behavior and features of electrical energy storage systems
21D23301 c	Hybrid Electric Vehicle Engineering	2021-22	Research work - Understand the fundamental concepts, principles, analysis of hybrid electic vehicle and Design of battery electric vehicles
19A60406	Data Communication And Networks	2021-22	skill oriented - Analyze the services and features of the various layers in the protocol stack,n the role of protocols in networking. Understand the requirement of theoretical & practical aspects of computer networks, functions of various layers involved in data communications, building the skills of sub netting and routing mechanisms.
19A60407	Principles Of Communications	2021-22	Research - Analyse various modulation schemes, and evaluate various modulation scheme in real time applications. Apply the concept of various modulation schemes to solve engineering problems,Understand the concept of various modulation schemes and multiplexing.
19A60408	Principles Of Digital Signal Processing	2021-22	Research Work - Analyze the continuous and discrete signals and systems ,Design and realize IIR and FIR filters from the given specifications. Define basic signals and its operations, Classify discrete time signals and systems.
19A60409	Microprocessors & Microcontrollers Lab	2021-22	Practical - Execution of different programs for 8086 in Assembly Level Language using MASM Assembler ,Design and implement some specific real

			time applications,Program MSP 430 for various applications.
19A60410	Digital Design Through VHDL Lab	2021-22	Programming - design and implement complex digital systems using CAD tools,Implement and test simple digital circuits on FPGA,understand and use CAD tools for simulation and synthesis of digital systems
19A60411	Digital Signal Processing Lab	2021-22	Programming - Ability to design, using MATLAB-based filter design techniques, FIR and IIR digital filters and Determine the frequency response of filters. Perform design-test to verify, to evaluate, and to benchmark a real-time DSP system.
20A12403	Fundamentals Of Electrical Circuits	2021-22	survey - Basic characteristics of R, L, C parameters, their Voltage and Current Relations and Various combinations of these parameters.,Network theorems and their applications,Series and parallel resonances, bandwidth, current locus diagrams
20A12404	Basic Electrical Engineering Lab	2021-22	Practical - Understand and analyze active, reactive power measurements in three phase balanced & un balanced circuits.,Verification of Thevenin,Äôs and Norton,Äôs Theorems.
20A11506	Cprogramming And Data Structures	2021-22	Programming - C basic concepts to write simple C programs,Apply programming to solve searching and sorting problem,Design applications in C, using functions, arrays, pointers and structures.
20A10402	Electronic Devices And Circuits	2021-22	employability - Applying the basic principles solving the problems related to Semiconductor diodes, BJTs, and MOSFETs.Analyze diode circuits for different applications such as rectifiers, clippers and clampers also analyze biasing circuits of BJTs, and MOSFETs.
20A10303	It Workshop	2021-22	Programming - Prepare the Documents using Word processors and Prepare spread sheets for calculations using excel and also the documents using LAteX,Interconnect two or more computers for information sharing. Access the Internet and Browse it to obtain the required information
20A10401	Electronics And IT Workshop	2021-22	Skill Development - Demonstrate disassembling and assembling a Personal Computer and make the computer ready to use,Make use of Office tools for preparing documents, spread sheets and presentations,Testing of various components.
15A02705	Neural Networks & Fuzzy Logic Applications	2018-19	Research - Understand the Architectures of AI and Fuzzy Logic concepts and its role in various applications
15A02707	Digital Signal Processing Lab	2018-19	Practical - implement various digital filters,nterfacing of DSP processor with other peripherals
15A02708	Power Systems & Simulation Lab	2018-19	Practical - Get the practical knowledge on development of SIMULINK model for single area load frequency problem.
15A02801 a	Introduction To Power Quality	2018-19	Research work - Understand the concept of harmonics in the system and their effect on different power system equipment. and Analyze voltage disturbances and power transients that are occurring in power systems
15A02801 b	Power System Deregulation	2018-19	Research Work - Understand the key issues of restructured power systems and its financial matters and Understand about different cost allocation method in the power systems
15A02801 c	Switched Mode Power Converters	2018-19	Field work - analyze and control the various power converter circuits
15A02802 a	Utilization Of Electrical Energy	2018-19	Field work - Understand the performance of simple resistance furnaces, modern welding techniques, illumination schemes and electric traction
15A02802 b	Introduction To Distributed Generation & Smart Grid	2018-19	Research work - Understand about the distribution generation system connected with various power generation plants
15A02802 c	Energy Auditing & Demand Side Management	2018-19	Survey - Understand the Energy Economic analysis and Demand side management and Analyze efficiency of motors and improvement of power factor
15A02803 a	Modern Control Theory	2018-19	Research work - Apply optimal control to statement of the optimal control problems and 5 Design an adaptive control
15A02803 b	Reliability Engineering And Its Application To Power Systems	2018-19	Field work - Understand concept of Markov modeling and component repairable models for frequency and duration
15A02803	Special Electrical	2018-19	Field work - Understand the Variable Reluctance (VR) Stepping Motors

c	Machines		characteristics, operation and able to do position control.
15A02804 a	Electricity Act And Costing Of Electrical Systems	2018-19	Research work - estimate and costing of Residential and commercial Electrical Installations, Prepare estimates for repairs and maintenance of electrical devices and equipment
15A02804 b	High Voltage Engineering	2018-19	Research work - Understand the concept of breakdown of solid, liquid and gaseous dielectrics and analyze the breakdown in detail.
15A02804 c	Process Control	2018-19	Research Work - analyze Evaluation criteria and tuning techniques of controllers and Concept of multi loop control techniques
13A02701	Electric Power Distribution Systems	2017-18	Field work - Design aspects and computational procedures for DC and AC Distribution system
13A02702	Instrumentation	2017-18	Field work - Measuring systems, error measurements, test signals, different types of data transmission and modulation techniques
13A02703	Introduction To HVDC Transmission And FACTS	2017-18	Field work - Application and analysis of DC transmission,design of various filters,Understand UPFC
13A02704	Power System Operation & Control	2017-18	Field work - Understand the economic operations of Power Systems,Understand single area and two area load frequency control and reactive power control.
13A02705 B	Renewable Energy Sources	2017-18	Research work - Design suitable power controllers for wind and solar applications,Understands the principles of wind power and solar photovoltaic power generation, fuel cells.
13A02705 C	Linear & Non Linear Optimization Techniques	2017-18	Field work - Applications to a wide range of engineering problems
13A02705 D	Reliability & Safety Engineering	2017-18	Field work - Get knowledge on reliability block diagram, markov models, fault tree analysis, montecarlo simulation and dynamic reliability analysis.
13A02707	Digital Signal Processing Lab	2017-18	Practical - Design of various filters,Calculation of various signals
13A02708	Power Systems & Simulation Lab	2017-18	Practical - Analysis of different fault currents, development of MATLAB program for formation of Yand Z buses.
13A02801	Introduction To Power Quality	2017-18	Research work - Understand the different power quality problems in the power system,Understand the effect of harmonics in the system and about the equipment that are effected from the harmonics.
13A02802	Utilization Of Electrical Energy	2017-18	Field work - Design various control devices and their use
13A02803 A	Modern Control Theory	2017-18	Field work - Obtain the State Space Modeling for linear time-invariant systems.,Analyze the system stability
13A02803 B	Reliability Engineering & Its Application To Power Systems	2017-18	Research work - Know about different reliability functions and time dependent reliability evaluation ofdifferent networks.,
13A02803 C	Power System Deregulation	2017-18	Research work - Understand the key issues of restructured power systems and its financial matters,Know about cost analysis, information on system operator and its duties.,Understand about different cost allocation method in the power systems.
13A02803 D	Switched Mode Power Converters	2017-18	Field work - Analyze and control the various power converter circuits,
13A02804 A	Electricity Act & Costing Of Electrical Systems	2017-18	Field work - Estimate the Transmission line, Overhead distribution and underground distribution based on IE Rules.
13A02804 B	High Voltage Engineering	2017-18	Research work - Analysis of breakdown occur in gaseous, liquids and solid dielectrics
13A02804 C	Introduction To Distributed Generation & Smart Grid	2017-18	Research work - Development of the electrical power system,Analysis of Power plants
13A02804 D	Energy Auditing & Demand Side Management	2017-18	Field work - Analyze efficiency of motors,application of PLC,Äôs
19A10201	Electrical Circuits-I	2019-20	Field work - Analyze the steady state performance of R,L and C in series and parallel combination.

19A10202	Electrical Power Generating Systems	2019-20	Field work - Analyze the construction, working, operating principle and essential components of different power generating stations
119A15102	Differential Equations And Vector Calculus	2016-17	Research work - Develop the solution methods for partial differential equations that model physical processes
19A15303	Applied Chemistry	2019-20	Research work - Analyze the orbital energy level diagram of different molecular species
19A10503	Data Structures	2019-20	Programming - Analyze the given algorithm to find the time and space complexities
19A15304	Applied Chemistry Lab	2019-20	Practical - Analyze the chemical properties of solutions and batteries
19A10507	Data Structures Lab	2019-20	Practical - Analyze the structures using linked lists and files
19ACE02	Strength Of Materials Lab	2019-20	practical - knowledge and behavior in finding the properties of different materials
19A15101	Linear Algebra And Calculus	2019-20	Field work - Develop the solution methods for various algebraic problems
19A15201	Applied Physics	2019-20	Field work - Analyze the role of classical and quantum free electron theory in the study of electrical conductivity
19ACE08	Engineering Geology Laboratory	2019-20	practical - identification of minerals, rocks and structures with their utilization in civil engineering works. Ability to solve the problems related to strike and Dip problems
19A10501	Problem Solving & Programming	2019-20	Programming - Develop the programs in C language using If, For, While and Pointers
19ACE11	Surveying Lab	2019-20	SURVEYING - usage of various surveying equipments and their practical applicability.
19A12401	Electrical & Electronics Engineering Workshop	2019-20	Field work - Analyze the technical problems of various equipment's like light, fan, mixer and house wiring.
19ACE56	Soil Mechanics Lab	2019-20	practical - h slope stability and safety assessment of earth retaining structures. imparts knowledge on bearing capacity and settlement of shallow foundations, pile and well foundation designs
19A10506	Problem Solving & Programming Lab	2019-20	Practical - Develop the programs in C language using If, For, While and Pointers
19ACE57	Highway Engg Lab	2019-20	Practical - e knowledge on various highway materials like aggregate, bitumen, mechanical properties of the materials and their usage in the field.
19ACE13	Hhm Lab	2019-20	practical - To studythe characterstics for curves of the pumps and turbines To Anlayse the performance of francis, pelton wheel turbines. To understand the efficiency of centrifugal, reciprocating pumps, and to calibrate venturimeter, orifice meter.
19ACE66	Environmental Engineering Laboratory	2019-20	practical - estimating various parameters like pH, Chlorides, Sulphates, Nitratesin water. For effective water treatment, determination of optimum dosage and chloride demand are also included. The estimation status of Industrial effluents will also be taught in the laboratory by estimating BOD and COD ofeffluent.
19ACE15	Ct Lab	2019-20	practical - importance of testing of cement and its properties, different properties of aggregate, workability and testing of fresh concrete & properties of hardened concrete
19ACE77	Cad Lab	2019-20	practical - apply engineering drawing using computers To understand about the scope of Auto CAD software and to draw plan in auto CAD software
15D24101	System Reliability Concepts	2018-19	Research work - Evaluation of reliability measure MTTF for series and parallel systems and evaluation of equivalent transitional rates
15D24102	Life Testing & Reliability Estimation	2018-19	Research work - Analyse the concept of Correlation, measuring correlation, Auto and cross correlation functions.
15D24103	Statistical Quality Control	2018-19	Research work - analyze the factors affecting quality, methods of control, chance causes and assignable causes
15D24104	Stochastic Processes	2018-19	Field work - Analyze the higher order statistics of level crossing, Dual level crossing, Local minima and maxima, Envelope processes
15D24105	Software Reliability	2018-19	Programming - Design Exponential Failure Time Class of Models, Weibull and Gamma Failure Time Class of Models, Infinite Failure Category Models,

			Bayesian Models
15D24106	Reliability In Engineering Design	2018-19	Research work - analysis of variance-Factorial Experiments. Three Factor Experiments Factorial Experiments in a Regression setting,Incomplete Blocks Design
15D24107	Information Security	2018-19	Survey - Analyze Conventional Encryption Principles, Conventional encryption algorithms, cipher block modes of operation, location of encryption devices
15D22102	Advanced Digital Signal Processing	2018-19	Research work - Design IIR Digital filters,High pass, Band pass and band stop IIR digital filters, Spectral Transformations of IIR filter using MATLAB.
15D24201	Six Sigma Concepts	2018-19	Programming - Calculating Defects Using Normal Distribution-Relationship between z and Cpk and Design process communications
15D24202	Risk Assessment And Management	2018-19	Field work - Analysis Process planning and Assessment-Risk treatment,Risk analysis methods,Coarse Risk Analysis-Job Safety Analysis,FMEA-Hazard and Operability Studies SWIFT
15D24203	Maintenance Engg & Management	2018-19	Research work - analysis-Convex and Concave costs-profit and life cycle cost trade-offs and FMECA-reliability and maintainability trade off Design for maintainability
15D24204	Reliable & Fault Tolerant Computing	2018-19	Programming - Analyze the Fault Models ,Äì Basic Models ,Äì Process Models
15D24205	Reliability Optimization	2018-19	Field work - Understand the partial Enumeration method and The Gomory Cutting plane method
15D24206	Monte Carlo Simulation	2018-19	Research work - Understand Random variate generation,Inverse Transform methodTabulating technique
15D21201	Power System Reliability	2018-19	Research Work - Evaluation of Basic reliability indices, performance indices
15D22203	Intelligent Algorithms	2018-19	Programming - Understand the Artificial Neural Networks and its basic mathematical model and analysis of fuzzy control systems
15D24207	Reliability Testing Lab	2018-19	Practical - Evaluation of Limiting State Probabilities (LSPs) and basic probability indices for series and parallel systems
21D24101	System Reliability Concepts	2021-22	Field work - Evaluation of reliability measure MTTF for series and parallel systems and evaluation of equivalent transitional rates
21D24103 a	Software Reliability	2021-22	Programming - Analyze the concept of software reliability modeling and Apply the concept of operational profiles, neural networks for software reliability
21D24103 b	Reliable & Fault Tolerant Computing	2021-22	Programming - Understand the concept of fault tolerance, recovery system, optimal check pointing, fault detection, fault classification methods, N-modular redundancy
21D24103 c	Information Security	2021-22	Survey - Develop an understanding of information assurance as practiced in computer operating systems, distributed systems, networks and representative applications.
21D24104 a	Six Sigma Concepts	2021-22	Programming - Analyse the Statistical quality control (SQC) methods and Calculating Defects Using Normal Distribution
21D24104 b	Reliability In Engineering Design	2021-22	Research work - Design models to evaluate the critical analysis, analysis of variance product planning and development process of the system
21D24104 c	Monte Carlo Simulation	2021-22	Research work - Develop the various methods to generate random functions, for reducing variance and find the optimum Monte-Carlo method
21D24105	Probabilistic Distributions Simulation Lab	2021-22	Practical - Analyze the steps for evaluating expected value, variance and standard deviations for different distributions
21D24106	Reliability Life Testing Simulation Lab	2021-22	Practical - Analyse the concept of Correlation, measuring correlation - Auto and cross correlation functions
21D24108 a	Research Paper Writing Skills	2021-22	Research work - Understand the skills needed when writing a Title Ensure the good quality of paper at very first-time submission
21D24201	R - Programming	2021-22	Programming - Understand, Analyse, Interpret Correlation and Regression to analyse the underlying relationships between different variables
21D24202	Stochastic Process	2021-22	Field work - Analyse Random Variables, Distribution Functions, Discrete Random Variables Joint Probability Mass Functions
21D24203 a	Risk Assessment And Management	2021-22	Field work - Utilise Risk prioritization techniques and spare parts management philosophies for effective risk management
21D24203	Maintenance	2021-22	Research work - develop ability in formulating suitable maintenance

b	Engineering & Management		strategies to enhance system reliability of a manufacturing system
21D24203 c	Reliability Optimization	2021-22	Field work - Analyse the concepts of optimization techniques, dynamic programming methods and integer programming methods
21D24204 a	Statistical Quality Control	2021-22	Research work - Design, use, and interpret exponentially weighted moving average and moving average control charts
21D24204 b	Power System Reliability	2021-22	Research Work - Understand the basic probability methods to evaluate the reliability of the power system and Analyze the frequency and duration methods for reliability evaluation
21D24204 c	Intelligent Algorithms	2021-22	Programming - Apply the artificial intelligence which includes the Neural networks, Fuzzy Logic and Genetic Algorithms and having vide applications in the field of control system
21D24205	Network Reliability Simulation Lab	2021-22	Practical - Analyze how to determine the MTTF, MTTR and component and unit redundancy for different networks.
21D24206	R ,Äì Programming Lab	2021-22	Practical - Apply the knowledge of R gained to data Analytics for real life applications and Extend the functionality of R by using add-on packages
19AEC04	Electronic Devices & Circuits	2020-21	research work - Compare the working of rectifier circuits with and with out filters
19AEC07	Signals & Systems	2020-21	research work - Analyse filter characteristics and physical realization of LTI system
19AEC06	Switching Theory & Logic Design	2020-21	programming - Design sequential circuits usinf flip flops, registers and counters
19AEE05	Electrical Technology	2020-21	field work - PRINCIPLES AND APPLICATIONS OF MOTORS AND GENERATORS
19AEC51	Antennas & Wave Propagation	2021-22	Research Work - Working and principle of loop antennas
17D38109	Adaptive Signal Processing	2017-18	Reserach work - Get complete knowledge regarding adaptive systems
19AEC53	Computer Architecture And Organisation	2021-22	Programming - learn the implemention of comuter arithmetic operations
19ACE74c	Air Pollution And Control	2019-20	field work - To learn behavior of air due to metrological influence, To throw light on air quality management ,To learn the design of air pollution control methods
19ACE16	Building Planning And Drawing	2019-20	practical - Able to know about building bye-laws and regulations. Ability to draw line sketch and planning and bi section of a building.
19AEC52	Digital Communications	2021-22	Research Work - analyze the detection of signal space diagram
17D38104	Advanced Operating Systems	2017-18	Research Work - Get complete knowledge regarding different types of operating systems and their kernal structures
19ACE72	Ctpm	2019-20	research work - To Apply the techniques of project planning and management in construction projects. Plan and Schedule a civil engineering project by using techniques like CPM, PERT.
19AEC05	Electronic Devices And Circuits Laboratory	2020-21	practical - ANALYZE THE CHARACTERISTICS OF BJT AND FET IN VARIOUS CONFIGURATIONS
19ACE06	Fluid Mechanics	2019-20	field work - basics of statics, kinematics and dynamics of fluids and various measuring techniques of hydrostatic forces on objects, measure quantities of fluid flowing in pipes, tanks and channels
19AEC56	Digital Communications Lab	2021-22	Practical - Analyze different digital communication techniques using MATLAB tools
19ACE64b	Ground Improvement Techniques	2019-20	field work - GROUND IMPROMENT TECHNIQUES
19ACE12	Water Resources Engineering	2019-20	field work - Engineering Hydrology and its applications like Runoff estimation, estimation of design discharge and flood routing. ii. Irrigation Engineering ,Äì Water utilization for Crop growth, canals and their designs.
17D38103	Digital Communication Techniques	2017-18	Reserach work - Students will be aware of baseband signal concepts and different equilizers

19AEC08	Signals And Systems Lab	2020-21	practical - Generate signals and sequences to the systems to perform various operations
19ACE64c	Transportation Engg	2019-20	field work - regarding the functioning of various components like rails, sleepers, Tracks, Geometric curves, Runways, Taxiways Aprons Wear houses, Jetties etc ÔÇ∑ Design elements like horizontal curves, vertical curves, super elevation etc ÔÇ∑ Analyze how signal systems ,visual aids and Markings etc help in safe working of transportation systems
20A10506	C Programming & Data Structures	2021-22	Programming - Analyse the basicconcepts of C Programming language.Design applications in C, using functions, arrays, pointers and structures,Apply the concepts of Stacks and Queues in solving the problems.
20A10507	C Programming & Data Structures Lab	2021-22	Programming - Demonstrate basic concepts of C programming determine language, Develop C programs using functions, arrays, structures and pointers , Illustrate the concepts Stacks and Queues.
20A19101	Universal Human Values	2021-22	Awareness - Understand awareness of oneself, and ones surroundings (family, society, nature), Apply what they have learnt to their own self in different day-to-day settings in real life
20A15501	Communicative English	2021-22	Practical - Understand the context, topic, and pieces of specific information from social or transactional dialogues spoken by native speakers of English Apply grammatical structures to formulate sentences and correct word forms.
17D38111	Image And Video Processing Lab	2017-18	Practical - Simulate various operations on images and videos using different algorithms
19AEE06	Electrical Technology Lab	2020-21	practical - To understand various characteristics of DC generators and DC motors
19AEC67	Digital Signal Processing Lab	2021-22	Practical - Design and Implement IIR and FIR filters and verify their frequency responses
17A15501	English	2017-18	Practical - Develop capacity to evaluate a mass of data on the net and to glean the necessary information
19AEC62	Digital Signal Processing	2021-22	Research Work - Grasp the importance and aplications of multirate digital signal processsing
17A15101	Mathematics -I	2017-18	Research work - Develop skills in analyzing the problems, designing mathematical models, skills in differentiation, integration, and vectors calculus for the problems in engineering
17D07101	Modern Control Theory	2017-18	Reserach work - Design and Analysis of State Controllers
17A15201	Applied Physics	2017-18	Practical - Develop basics of Electromagnetic fields
17D07103	Switched Mode Power Converters	2017-18	Reserach work - Analysis and Design of Power Converters
15A10101	Environmental Studies	2017-18	Field work - Demonstrate an ability to integrate the many disciplines and fields that intersect with environmental concerns
17D38105	Mobile Networks	2017-18	Reserach work - Gain complete knowledge regarding wireless communication systems
17D07104	Power Quality	2017-18	job oriented - To Study of various POWER QUALITY issues and corrections
17D07105	Renewable Energy Systems	2017-18	Reserach work - Study of RENEWABLE ENERGY SYSTEMS
17A10301	Engineering Drawing	2017-18	Practical - Design of the regular planes and solids in first angle of projections
17D07106	Power System Optimization	2017-18	Reserach work - Formulation and solution of Optimisation Problems
17D07107	Reliability Applications To Power Systems	2017-18	Reserach work - Study of RELIABILITY APPLICATIONS TO POWER SYSTEMS
17A10501	Problem Solving & Computer Programming	2017-18	Programming - Analyze basic programming constructs and Write C programs for real world problems
19A15501	Communicative English	2019-20	Practical - Understand the context, topic, and pieces of specific information from social or transactional dialogues spoken by native speakers of English Apply grammatical structures to formulate sentences and correct word form
17D07108	Reactive Power Compensation And Management	2017-18	Reserach work - Study of REACTIVE POWER COMPENSATION AND MANAGEMENT
19AEC16	Electronic Circuit	2020-21	research work - UNDERSTANDING THE MULTISTAGE AMPLIFIERS

	Analysis And Design		AND THEIR PERFORMANCE CHARACTERISTICS
17D07109	Hvdc Transmission	2017-18	job oriented - To know the advantages of HVDC power transmission & FACTS controllers
17A15502	English Language Communication Skills Lab	2017-18	Practical - Develop and practice critical and evaluative reading
17A15202	Applied Physics Lab	2017-18	Practical - Develop practical applications of engineering materials and use of principle in the right way to implement the modern technology
17D07201	Power System Stability And Control	2017-18	Reserach work - Study of POWER SYSTEM STABILITY AND its CONTROL
17A10502	Computer Programming Lab	2017-18	Programming - Design the flowchart and algorithm for real world problems
17D07202	Advanced Power System Protection	2017-18	Research - Analysis of advanced Protection and Their Schemes
17D07203	Restructured Power Systems	2017-18	Reserach work - Study of Restructured Power Systems
17D07204	Power System Dynamics	2017-18	Reserach work - Study of Power SystemDynamics
17D07205	Energy Auditing, Conservation And Management	2017-18	job oriented - It describes energy, audit, conservation and management
17D07206	Modeling Of Renewable Energy Source In Smart Grid	2017-18	Reserach work - MODELING OF RENEWABLE ENERGY SOURCE IN SMART GRID
17D07207	Soft Computing Techniques To Power Systems	2017-18	Reserach work - Study of various SOFT COMPUTING TECHNIQUES TO POWER SYSTEMS
19AEC17	Em Waves And Transmission Lines	2020-21	field work - UNDERSTAND THE PROPERTIES OF TRANSMISSION LINES AND ITS APPLICATIONS
17D07209	Facts Controllers	2017-18	Research work - To Study of various FACTS CONTROLLERS like series, shunt and combination of both
17A25501	Technical Communication And Presentation Skills	2017-18	practical - Analyze verbal and non-verbal interpretations in multicultural context
19A20801	Chemical Process Calculations	2020-21	Research work - chemical engineering processes including conversion of physical quantities into different unit systems, Predict the behaviour of gases and vapours using ideal gas law
19A60802	Chemical Process Equipment Design	2021-22	Research work - Study design safe process and design appropriate equipment like reactors, mass transfer heat transfer equipment, pipelines storage tanks etc
19A60809	Chemical Reaction Engineering Lab	2021-22	Practical - Skills of deriving the kinetic expressions by performing the experiments on batch and continuous flow reactors, Understand the effects of non-ideal flow, Proficient to estimate RTD and model parameters in a CSTR, PFR, packed bed and CSTR in-series
19A50803	Chemical Reaction Engineering Reaction I	2021-22	Research work - To explain the temperature dependency of rate of reaction as per Arrhenius law, Collision theory and Transition State theory, differential and method of fractional lives.
19A60801	Chemical Reaction Engineering Reaction Ii	2021-22	Research work - Knowledge of rate law given the rate controlling step in catalytic reactions, internal and external diffusion effects, Learn the factors influencing catalyst decay, the role of pore diffusion on catalyst activity rate
19A50801	Chemical Technology	2021-22	Field work - Solve Engineering problems that are likely to come across during the operation of plants, Make a neat and easy to understand the plant process flowsheet, Keeps up the productivity while maintaining all safety norms stipulated, during their job
19A20601	Complex Variable, Transform And Partial Differential Equations	2020-21	Research work - understand the analyticity of complex functions and conformal mappings, Apply Cauchy‚Äôs integral formula and Cauchy‚Äôs integral theorem to evaluate improper integrals along contours, Understand the usage of Laplace Transforms.

19A60805	Food Processing Technology	2021-22	Field work - Understanding the various causes of food deterioration and food poisoning. Identification of appropriate processing, preservation, and packaging method. Analyze product quality and effect of processing technique on it.
19A25501	Fundamentals Of Python	2020-21	Programming - List the basic constructs of Python, Design programs for data structure list and manipulating strings, Apply object orientation concepts, use data structure dictionaries
19A60806	Industrial Safety And Hazardous Management	2021-22	Industrial visit - Understand how thorough safety is ensured in an organization, Classify and identify hazards in chemical industries,Take precautions in chemical storage and handling
19A50813	Instrumentation And Process Control Lab	2021-22	Practical - Calculate the time lag for first and second order systems., Compare and contrast the response for interacting and non-interacting systems.
19A55401	Instrumentattion And Process Control	2021-22	Industrial visit - Evaluate the transfer functions for various first order and second order examples, Analyze in more detail the stability criteria using various methods.
19A50812	Mass Transfer Operations Lab	2020-21	Practical - Analyse different types of distillation such as: batch & continuous, flash vaporization, steam distillation and differential distillation.
19A20808	Mass Transfer Operations-I	2020-21	Research work - To coach the importance of VLE for ideal non-ideal systems (miscible and immiscible liquids). To enlighten on different types of distillation such as: batch & continuous, flash vaporization, steam distillation and differential distillation.
19A50802	Mass Transfer Operations-Ii	2021-22	Research work - The equipment for utilized for distillation, extraction and leaching and drying, To impart distillation column design using McCabe Thiele and Ponchon-Savarit methods.
19A20805	Process Heat Transfer	2020-21	Research work - Calculate heat transfer coefficient in forced convection and natural convection, Analyze radiation heat transfer between different surfaces.
19A20809	Process Simulation Lab	2020-21	Practical - Helps to interconnect knowledge of mathematics, science, and engineering to real world problems., Helps to identify, formulate, and solve engineering problems
19A20901	Universal Human Values	2020-21	Awareness - Understand awareness of oneself, and ones surroundings (family, society, nature), Apply what they have learnt to their own self in different day-to-day settings in real life
19AEC18	Analog Communications	2020-21	research work - KNOW THE VARIOUS MODULATION TECHNIQUES
19AEC01	Electronics And Communication Engineering Workshop	2019-20	practical - testing of electronic component
19AME12	Hydraulics And Hydraulic Machinery	2019-20	Practical - principles of uniform and non-uniform flows through open channel. To impart knowledge on design of turbines. To impart knowledge on design of pumps.
19AHS14a	Managerial Economics And Financial Analysis	2021-22	Research Work - APPLY THE PRICE OUTPUTS IN DIFFERENT MARKETS
17D38110	Structural Digital System Design Lab	2017-18	Practical - Difference between Verilog and VHDL
19AEC20	Linear Integrated Circuits & Applications	2020-21	research work - CLASSIFICATION OF IC PACKAGES AND ITS APPLICATIONS
19AEC21	Digital Integrated Circuits & Applications	2020-21	field work - VHDL HARDWARE DESCRIPTION LANGUAGE
19ACE74b	Eathquake Resistant Design Of Structures	2019-20	Practical - application of scientific and technological principles of planning, analysis, design of buildings according to earthquake design philosophy.
19AHS01	Communicative English I	2019-20	research work - LSWR Skills
17D38101	Structural Digital System Design	2017-18	Research Work - Understand structural functionality of different digital blocks
19AEC23	Electronic Circuit Analysis And Design Lab	2020-21	practical - DESIGN,SIMULATE AND TEST THE SINGLE STAGE AND MULTISATGE AMPLIFIERS

17D38210	Advanced Communications Lab	2017-18	Pratical - generate random data at given rates and employ different modulation schemes over generated data
19AHS14b	Enterprenaurship And Innovation Management	2021-22	Research Work - DEVELOP BUSINESS CANVAS
19AEC19	Analog Communications Lab	2020-21	practical - UNDERSTANDING THE DIFFERENT MODULATION AND DEMODULATION TECHNIQUES
17D38106	Transform Techniques	2017-18	Research Work - use 1-d and 2-d transforms for different signals
19ACS06	Data Structure Lab	2019-20	practical - File OPerations
19ACS05	Data Structures	2019-20	programming - Linke list Implewmentations
19AEC22	Integrated Circuits & Applications Lab	2020-21	practical - DESIGN AND ANALYZE THE VARIOUS APPLICATIONS OF OP-AMP
19AEC66	Microprocessors & Microcontrollers Lab	2021-22	Practical - INTERFACE PROGRAMMABLE PERIPHERAL DEVICES
19AME01	Engineering Graphics	2019-20	Practical - Graphical ZRepresentation of 2D and 3D models
19AEC61	Microprocessors & Microcontrollers	2021-22	Programming - ANALYZE PARALLEL AND SERIAL DATA TRANSFER
19ABS14	Environmental Science	2020-21	field work - NATURE AND SCOPE OF MINERAL AND FOOD RESOURCES
19AME02	Engineering Workshop	2019-20	practical - Apply Fitting Oerations
19AEC02	Network Theory	2019-20	Research work - Networking Theorems
19AHS03	Universal Human Values	2020-21	research work - INTERPERSONAL AND INTRAPERSONAL SKILLS
19AEC63	Microwave Engineering	2021-22	Research Work - ANALYZE DIFFERENT MODES IN RECTANGULAR AND CIRCULAR WAVEGUIDES AND RESONATORS
19AEC03	Networks Theory Lab	2019-20	practical - Analyze behaviour of RLC circuits
21D38101	Advanced Digital System Design	2021-22	Research Work - Understand processor arithematic and basic binary codes
19AHS17	Research Methodology	2021-22	Research Work - UNDERSTAND THE CONCEPT OF RESEARCH AND ITS PROCESS
15ACS05	Data Structures Lab	2017-18	Practical - Describe, explain and use abstract data types including stacks, queues and lists
21D38105	Advanced Digital System Design Lab	2021-22	Practical - Familiarize the HDL simulator/synthesis tool
15ACS02	Computer Programming Lab	2017-18	Practical - A Program to create One structure And Declare Inside Union Then Accept Values For structure Members And Display Them.
21D38103 b	Cmos Digital Ic Design	2021-22	Research Work - digital integrated circuits using MOSFETS
19AHS10	Campus Recruitment Training And Soft Skills	2021-22	Research work - STUDENT WILL PREPARED TO PLACEMENT PROCESS WITH CONFIDENCE AND CLARITY
21D38103 a	Design Of Fault Tolerant Systems	2021-22	Research Work - fault Diagnosis and tolerant design approach
17D38202	Detection And Estimation Theory	2017-18	Research Work - the students will be able to apply various methods of signal estimation knowing the significance of each method
15AEE01	Electrical Engineering Materials	2017-18	Job oriented - To have a deep knowledge regarding the electrical engineering materials like properties etc.
15AEE02	Electrical Circuits-I	2017-18	Job oriented - Analysis of various DC and AC Circuits
15AEE03	Electrical Circuits-II	2018-19	Research work - Analysis on various Electrical AC Circuits
15ACS01	Computer Programming	2017-18	Research work - Syntax and semantics of C programming language
15AEE04	Electromagnetic Fields	2018-19	Job oriented - To Study regarding the static Electric and Magnetic Fields and time varying fields
15AEE05	Electrical Machines-	2018-19	Research work - To study the Performance of DC Machines like

		I		characteristics, regulation, efficiency etc
15AEE12	Electrical Machines ,Äiii		2018-19	Job oriented - To study the Performance of AC Machines like characteristics, regulation, efficiency etc
13AEC43	Advanced Dsp		2017-18	Research work - DSP ALGORITHMS DESIGN AND IMPLEMENTATION
15AEE13	Electrical Power Generating Systems		2018-19	Job oriented - Describes regarding power generation, Tariffs, Switchgear and distribution
15AEC11	Control Systems Engineering		2018-19	Job oriented - To study the various components involved in control systems
15AEE16	Analysis Of Linear Systems		2017-18	Research work - Analysis of Linear Systems
15AEE17	Electrical Measurements		2017-18	job oriented - Describes the measurement of AC and DC quantities using various instruments
17A25301	Applied Chemistry		2017-18	Practical - Evaluate preparations of industrially based fuels ,polymers, various engineering materials and applications
15AEE18	Electrical Power Transmission Systems		2017-18	job oriented - To study regarding the power transmission, travelling waves, corona etc.
15AEC01	Electronic Devices And Circuits		2017-18	Research Work - Analyze the operating principles of major electronic devices and its characteristics
17D38204	Embedded System Design		2017-18	Research Work - know clear knowledge regarding current technologies and issues relating to hardware and software design concepts associated with processor in embedded systems
15AEE19	Power Electronics		2017-18	Job oriented - To Analyze various Power Electronic components and Circuits
15AEE20	Electrical Machines-Iii		2017-18	research work - To study the Performance of AC Machines like characteristics, regulation, efficiency etc
15AEE31	Power Semi-Conductor Drives		2017-18	Job oriented - Study of Control of various Drives with power electronic circuits
15AEE32	Power System Protection		2017-18	Job oriented - Study of Protection of Power system
15AEE33	Power System Analysis		2017-18	Research work - Modelling and Analysis of Power Systems
17A25302	Applied Chemistry Lab		2017-18	practical - Analyze the function of fuel cells, batteries and extend the knowledge to the processes of corrosion and its prevention
13AEC46	Cellular Mobile Communication		2017-18	Research work - CELLULAR NETWORK PLANNING
15AEE51	Power System Operation And Control		2018-19	Job oriented - Study of Power System Operation And Control
19ABS31	Sensors And Actuators For Engineering Applications		2021-22	research work - APPLICATIONS OF THERMAL AND MAGNETIC SENSORS
15AEE35	Utilization Of Electrical Energy		2018-19	job oriented - Study of Electrical Energy Utilization
15AEE81	Hvdc & Facts		2018-19	Research work - To know the advantages of HVDC & FACTS controllers
21D38103 c	Fuzzy Systems And Neural Networks		2021-22	Research Work - Analyze basic neural computational models
17A20201	Electric Circuits - I		2017-18	Research work - Design equivalent impedance by using network reduction techniques and determine the current through any element and voltage across any element
15AEE82	Electrical Distribution Systems		2018-19	Job oriented - It describes the distribution of power from distributing substation to customers through feeders and lines
19A20604	Complex Variables And Transforms		2020-21	programming - Analyze the problems using the special functions and complex variables
17A20405	Electronic Devices And Circuits Lab		2017-18	Practical - Design half and full wave rectifiers circuits with without filters and analyze the performance
19A20201	Electrical Circuits- Ii		2020-21	Field work - Analyze the transient response of series circuits for d.c and a.c excitations
13AEC39	Dsp Processors & Architectures		2017-18	DESIGN - PROGRAMMABLE DIGITAL SIGNAL PROCESSORS
19A24201	Signals And Systems		2020-21	Field work - Analyze characteristics of linear systems in time and frequency

			domains.
19A20202	Dc Machines & Transformers	2020-21	Field work - Analyze single phase and three phase transformers circuits.
19A20203	Engineering Electromagnetics	2020-21	Field work - Analyze the concepts of Magnetic Potential and Time varying Fields
17A20404	Electronic Devices And Circuits	2017-18	practical - Design and analyze small signal amplifier circuits,multistage amplifiers applying the biasing techniques
17D38205	Fuzzy Systems And Neural Networks	2017-18	Research Work - understanding functioning of basic neural computational models
15AME01	Engineering Drawing	2017-18	Practical - Development of surfaces of cylinder,pyramid,cone.
19A24202	Semiconductor Devices And Circuits	2020-21	Field work - Analyze functioning of various types of electronic devices and circuits.
19A20901	Universal Human Values	2020-21	Research work - Develop awareness on ethics, human values& obligations related to Self, Family, Society and State
19A20204	Dc Machines & Transformers Lab	2020-21	Practical - Analyze speed control techniques and efficiency of DC machines
19A24203	Semiconductor Devices And Circuits Lab	2020-21	Practical - Apply the characteristics of semiconductor devices to develop engineering solutions.
17A20103	Engineering Mechanics	2017-18	Research work - Design and analysis of many types of structural members, mechanical components, electrical devices
19A20205	Electrical Circuits And Simulation Lab	2020-21	Practical - Experimental and Theoretical verification of theorems and two port networks
13AEC37	Embedded Systems	2017-18	Research work - EMBEDDED NETWORKING AND IMPLEMENTATION
19A28801	Biology For Engineers	2020-21	Research work - Analyze biology Principles in our daily life using different technologies
19A20205	Transmission System Analysis And Design	2020-21	Field work - Analyze various factors governing the performance of Transmission Line
19A20207	Power Electronics	2020-21	Field work - Design and develop of some of power electronics converter methods.
17A23501	Engineering Workshop & It Workshop Lab	2017-18	practical - Design models in respective trades of engineering workshop
19A20208	Ac Machines	2020-21	Field work - Analyze the various methods of starting in both induction and synchronous machines.
19A20209	Control Systems	2020-21	Field work - Evaluate state space model of a physical system
19A24204	Digital Electronic Circuits	2020-21	Research work - Design and analyze combinational and sequential circuits.
13AEC45	Microwave & Optical Communications Lab	2017-18	Practical - acquire applications and testing of microwave components
19A25501	Fundamentals Of Python Programming	2020-21	Programming - Analyze the object orientation concepts and Organize data in the form of files
17A25101	Mathematics ,Äì Ii	2017-18	Practical - Develop skills in designing mathematical models
19A20210	Control Systems & Simulation Lab	2020-21	Practical - Analyze the performance and time domain specifications of first and second order systems
19A20211	Power Electronics And Simulation Lab	2020-21	Practical - Analyze various power electronic converters using PSPICE software.
19A25502	Fundamentals Of Python Programming Lab	2020-21	Practical - Design solutions to mathematical problems using Python programming language
15AHS03	English For Professional Communication	2017-18	Communication skills - To develop the confidence in the students to use english in everyday situations
13AEC36	Optical Fiber Communication	2017-18	Research work - DESIGN OF ANALOG SYSTEMS AND DIGITAL SYSTEMS AND THEIR APPLICATIONS

17D38208	Internet Of Things	2017-18	Research Work - understanding the new computing technologies
13AEC42	T.V.Engineering	2017-18	Research work - PRINCIPLES INVOLVED IN WORKING OF MONOCHROME AND COLOUR TELEVISIONS
21D38104 b	Advanced Digital Signal Processing	2021-22	Research Work - digital signal processing algorithms
21D38208	Personality Development Through Life Enlightenment Skills	2021-22	Research Work - person with highest goal
13AEC44	Vlsi & Embedded Systems Laboratory	2017-18	Practical - INTERFACING AND PROGRAMMING GPIO
21D38104 a	Coding Theory And Techniques	2021-22	Research Work - Learn the measurements of the information and error
13AEC35	Vlsi Design	2017-18	Research work - VHDL SYNTHESIS,CIRCUIT DESIGN FLOW & DESIGN VERIFICATION TOOLS
21D38107	Research Methodolody And Ipr	2021-22	Research Work - how to identify an appropriate research problem in their intresting domain
15AME03	Engineering And It Workshop	2017-18	Practical - Disassemble and assemble a pesonal computer
21D38102	Wireless And Mobile Communications	2021-22	Research Work - know about the channel planning for wireless systems
NA	Software Defined Radio	2017-18	ARCHITECTURE - MODELS FOR SDR,SMART ANTENNA SYSTEMS
15AHS01	Functional English	2017-18	Communication skills - To develop the listening skills of students
21D38106	Wireless And Mobile Communications Lab	2021-22	Practical - Understanding concepts of GSM/CDMA technologies
17D38211	Mixed Signal Design Lab	2017-18	Practical - EDA Tools-industry standard software-latest version like mentor/synopsis/equivalent
15AHS02	English Language Communication Skills Lab	2017-18	Communication skills - Interview skills and writing video speeches
21D38202	Advanced Communications And Networks	2021-22	Research Work - wireless Technologies
19AEE55b	Electrical Measurements And Sensors	2021-22	field work - DESIGN AND DEVELOPMENT OFVARIOUS VOLTAGE AND CUREENT MEASURING METERS
15AEC02	Network Analysis	2017-18	Research Work - Formulation of network equation loop variables analysis and node variable analysis
19AME55 e	Smart Materials	2021-22	field work - development of intellectual systems and adaptive structures
2OAECOI	Network Theory	2020-21	analysis - NETWORK THEOREMS
15AEE11	Electrical Technology Lab	2017-18	Practical - Determination of RLC network
17D38203	Mixed Signal Design	2017-18	Research Work - design mixed signal based circuits starting from basic constraints to advanced constraints
15AEE10	Electrical Technology	2017-18	Research Work - Generators and motors
19AME55 b	Rapid Prototyping	2021-22	applications - applications of solid and liquid AM systems
15AEC03	Electronic Devices And Circuits Laboratory	2017-18	Practical - CRO Operations and measurements
15AEC59	Advanced DSP	2018-19	Research Work - Design and analyze the digital filters
19AME55 d	Power Plant Operation And Control	2021-22	field work - WORKING PRINCIPLES OF NUCLEAR POWER PLANTS

15AEC07	Probability Theory And Stochastic Processes	2017-18	Research Work - Mathematical model of experiments
17D38209	Multimedia Communications	2017-18	Research Work - gets knowledge regarding fundamentals of multimedia communications
19ACS55a	Object Oriented Programming Concepts Through Java	2021-22	programming - create GUI applications & event handling
15AEC05	Signals And Systems	2017-18	Research Work - Analysis and characterization of LTI systems and fourier transform
19ACS55c	Introduction To Operating System	2021-22	programming - design of new operating systems
17D38207	Speech Processing	2017-18	Research Work - familiar with speech processing techniques
15AEC06	Switching Theory And Logic Design	2017-18	Research Work - Analysis and synthesis of combinational and sequential circuits
15AEC56	Cyber Security	2018-19	Programming - Possess a fundamental knowledge of cyber security
17D38201	Wireless Communications	2017-18	Research Work - understand basics of wireless communications and its evolution process
19ACS55b	Introduction To Internet Of Things	2021-22	research work - applications area of IOT
15AEC11	Control Systems Engineering	2017-18	Analysis - Classification of control systems
15AEC57	Bio-Medical Instrumentation	2018-19	IMAGE SYSTEMS - familiarize with pace makers
15AEC13	Electronic Circuit Analysis & Design	2017-18	Analysis - Analysis of amplifiers and oscillators
17D38206	Wireless Sensor Networks	2017-18	Research Work - understand different types of sensor networks,advantages applications and mechanism of transportation and processing involved in wireless sensor networks
19AME55 a	Introduction To Hybrid & Electric Vehicles	2021-22	field work - analayze power flow control and energy efficiency
15ABS10	Mathematics-Iv	2017-18	Problems - Evaluation of improper integrals
15AEC54	Digital Image Processing	2018-19	IMAGE TRANFORMS - image compression standards
19AEE55c	Electric Vehicle Engineering	2021-22	field work - design various compensation requirements
15AEC15	Electromagnetic Theory & Transmission Lines	2017-18	Analysis - Application of transmission lines of various lengths
15AEC14	Pulse And Digital Circuits	2017-18	Analysis - Design of bistable,monostable,astable multivibrators
21D38204 c	Transform Techniques	2021-22	Research Work - KNOW THE APPLICATIONS OF TRANSFORMS
19AME55 c	Design For Manufacturing And Assembly	2021-22	survey - importance of design for manufacturing and assembly
15AEC60	Dsp & Vlsi Laboratory	2018-19	Verify the layouts of DRC and LVS - basic logic gates
15AEC16	Electronic Circuit Analysis & Design Lab	2017-18	Analysis - Analyze and design single stage and multistage amplifiers
21D38206	Advanced Communications And Networks Lab	2021-22	Practical - Implement digital filters for given specifications
15AEC17	Pulse And Digital Circuits Lab	2017-18	Design - Basics of digital logic families
21D38204 a	Software Defined Radio	2021-22	Research Work - KNOW THE REQUIREMENTS,BENEFITS AND DIFFERENT MODELS OF SOFTWARE DEFINED RADIO
21D38201	Analog And Mixed	2021-22	Research Work - understand and design of ic circuit from both analog and

	Signal Design		digital designs
21D38205	Analog And Mixed Signal Design Lab	2021-22	Practical - understand design layout for both combinational and sequential circuits
21D38203 c	Wireless Sensor Networks	2021-22	Research Work - TO UNDERSTAND THE CONCEPTS OF LOCALIZATION AND TRACKING CONTROL
19AEC54a	Information Theory And Coding	2021-22	Research Work - understand TCM design
21D38203 b	Soc ARCHITECTURE	2021-22	Research Work - SELECT AN APPROPRIATE ROBUST PROCESSOR FOR SOC DESIGN
19AEC54b	Industrial Electronics	2021-22	Industrial Visit - Applications Of Power Transistors
21D38203 a	Low Power Vlsi Design	2021-22	Research Work - understand the basic concepts related to low power circuit design
19AEC54c	Artificial Intelligence And Neural Networks	2021-22	Programming - Analyze the Pattern Association
19AEC64a	Optical Communications	2021-22	Research Work - analyze the losses due to scattering
15AHS05	Managerial Economics And Financial Analysis	2017-18	Analysis - Theory of production and cost analysis
19AEC64b	Cellular And Mobile Communications	2021-22	Research Work - DESIGN OF ANTENNA SYSTEM
19AEC64c	Machine Learning Techniques	2021-22	Programming - applications of probabilistic models
15R00204	Pharmacognosy	2017-18	Extraction methods - various laboratories in natural products extracts production used for preparation of Herbal & ayurvedic formulations
BP405T	Pharmacognosy & Phytochemistry- I	2020-21	Edible vaccines - Advanced vaccination Industrial production by utilization of Plants
BP504T	Pharmacognosy & Phytochemistry- Ii	2021-22	Radioactive isotopes - In the investigation of Biogenetic studies for Industrial production of Phyto constituents
BP603T	Herbal Drug Technology	2021-22	Regulatory requirements of natural products - Herbal industries regulations updation & collection of useful information fromdifferent sources for application in herbal drug industries
20AEC01	Network Theory	2020-21	THEOREMS - Solve network problems using mesh and nodal analysis techniques
15AEC82	Radar And Navigational Aids	2018-19	APPLICATOINS OF CW RADAR - know the difference between MTI radar and MONOPULSE radar
15AEC58	Satellite Communications	2018-19	SATELLITE SUBSYSTEMS AND LINK DESIGN - designing satellite uplink and downlink
20ABS05	Linear Algebra And Calculus	2020-21	MATRIX OPERATIONS - MEAN VALUE THEOREMS AND SPECIAL FUNCTIONS
15AEC53	Vlsi Design	2018-19	VLSI CIRCUIT DESIGN PROCESSES - Explain basic circuit concepts
20ABS06	Differential Equations And Vector Calculus	2020-21	APPLICATIONS - APPLICATION TO NEWTON'S LAW OF COOLING AND LAW OF NATURAL GROWTH AND DECAY
20ABS09	Environmental Science	2020-21	CASE STUDIES - RENEWABLE AND NON-RENEWABLE RESOURCES,FOOD RESORCES
20ABS12	Complex Variables And Transforms	2020-21	transforms - laplace transforms ,z-transforms ,fourier transforms
15AEC51	Microwave Engineering	2018-19	MICROWAVE MEASUREMENTS - Verify the characteristics of microwave devicesthrough measurements
20ABS16	Probability Theory& Random Process	2020-21	functions of random variables - characteristic function
15AEC52	Optical Fiber Communications	2018-19	SYSTEM DESIGN AND APPLICATIONS - To learn about SONET/SDH applications
15AEC61	Microwave And Optical Communications Lab	2018-19	MEASUREMENT OF LOSSES FOR ANALOG OPTICAL LINK - Knowledge on the various applications of optical fibre communications
20ACS01	Problem Solving	2020-21	fundamentals - Programming, Algorithms and Flowcharts,Design and

			implementation of algorithms
15AEC81	Embedded Systems And Iot	2018-19	research work - implement state of the art architecture in IOT
15AEC55	Dsp Processors And Architectures	2018-19	IMPLEMENTATION OFBASIC DSP ALGORITHMS - To become familiar with fundamentals of DSP processors & architectures
20ACS02	Problem Solving And Programming Lab	2020-21	PROGRAMS - Design an algorithm and implement using C language the following exchanges
20ACS13	Data Structures And Python Programming	2020-21	programming - stacks,queues,sorting techniques,data types
15ACS18	Computer Architecture And Organization	2017-18	characteristics of multiprocessors - Design circuits and also able to identify the issues related to computers
20AEC02	Networks And Electrical Engineering Lab	2020-21	verification - verification of superposition & reciprocity theorem
15AEC24	Analog Communication Systems	2017-18	shannon-Hartley theorems and its implications - Analyze the different characteristics of receivers
20AEC04	Electronic Devices And Circuits	2020-21	construction - Half-wave, Full-wave and Bridge Rectifiers with and without Filters,
20AEC05	Electronic Devices And Circuits Laboratory	2020-21	characteristics - Zener Diode as voltage regulator ,Half Wave Rectifiers (without and with filter) , Full Wave Rectifiers (without and with filter
20AEC06	Digital Logic And Design	2020-21	design - The VHDL Hardware Description Language
20AEC07	Digital Logic Design Lab	2020-21	design and applications - Design and realization of logic gates using universal gates
20AEC08	Signals And Systems	2020-21	characteristics - Filter characteristics of linear systems and correlation functions
20AEC09	Signals And Systems Lab	2020-21	applications - write programs for signal processing applications
20AEC14	Analog Communications Lab	2020-21	modulation and demodulation - gain an understanding on analog modulation and demodulation techniques
20AEE03	Basic Electrical Engineering	2020-21	applications - dc generators & motors, 3-phase induction motors
20AEC13	Analog Communications	2020-21	elements of communication systems - analyze the effects of noise for different modulation techniques
20AHS01	Communicative English	2020-21	soft skills - english and soft skills
20AHS03	Universal Human Values	2020-21	values - Building Right Attitude.- Communication skills
20AHS04	Manegerial Economics And Financial Analysis	2020-21	analysis - Methods of Pricing-Marginal Cost Pricing, Limit Pricing
20AEC10	Electronic Circuit Analysis And Design	2020-21	amplifiers - summarize the high frequencies analysis of bjt amplifiers
20AHS05	Enterprenuarship And Incubation Management	2020-21	fundamentals - Design Thinking ,Financial feasibility
20AEC11	Electronic Circuit Analysis And Design Lab	2020-21	oscillator - learn the functioning of oscillator circuits
20AME01	Engineering Graphics	2020-21	drawing - Projections of regular solids
20AEC15	Linear And Digital Integrated Circuits	2020-21	IC technology - design and analyze amplifiers,filters and converters
20AME04	Engineering	2020-21	workshop practices - wood working, sheet metal workings

	Workshop		
20AEC16	Linear And Digital Integrated Circuits Lab	2020-21	op-amp applications - analyze the design of multivibrators and filters
20AEC03	Electronics And Communication Engineering Workshop	2020-21	working - Application of testing and measuring instruments like Voltmeter, Ammeter
20AEC12	EM Waves And Transmission Lines	2020-21	properties - electrostatics, magnetostatics
15AEC83	Wireless Communications	2018-19	Analysis - To study about importance of wireless networking and multiple access techniques in the present day mobile communications
15AEC33	Digital Signal Processing	2017-18	Implementation of sampling rate conversion - Varoius applications of multirate signal processing
15AEC37	Microprocessors & Microcontrollers Lab	2017-18	Interfacing using 8051 trainer kit - 8051 assembly language programs
15AEC28	Antenna & Wave Propogation	2017-18	Wave characteristics in different frequency ranges - designed for various frequency ranges
15AEC29	Analog Communication Systems Lab	2017-18	pre-emphasis &de-emphasis - technically visualize spectra of different analog modulation schemes
15AEC38	Digital Communication Systems Lab	2017-18	Sampling theorm-verifications - To experience real time behaviour
15AHS06	Advanced English Language Communication Lab	2017-18	DURING INTERVIEW-G.D-MOCK INTERVIEW - Enhanced job prospects
15AEC30	Ic Applications Lab	2017-18	Design of an instrumentation amplifier - Verify applications of IC555 and IC566
15AEC25	Linear Ic Applications	2017-18	High speed sample-and-hold circuits - understand the theory of ADC and DAC
15AHS07	Management Science	2017-18	Personnal management and industrial relations(PMIR) - understanding of global entrepreneurship concepts
15AEC31	Digital Communication Systems	2017-18	Basics of multipleaccess techniques(TDMA,FDMA,CDMA) - Understand the basics of information theory and error coding codes
15AEC26	Digital Ic Applications	2017-18	VHDL models - to design tests for digital logic circuits, and design for testability
15AEC27	Electronic Measurements And Instrumentation	2017-18	Function generators - employ CRO for measuring voltage,current,resistence,frequency
15AEC32	Microprocessors & Microcontrollers	2017-18	Interfacing withn 8086 - architecture and working of basic microprocessor and microcontrollers
19AME65a	Automobile Electronics,Sensors And Drives	2021-22	research work - practical applications of actuators and sensors
19ACE65c	Disaster Management And Mitigation	2021-22	research work - understand the tools of post disaster mangement
19AEE65a	Energy Conservation And Management	2021-22	research work - to know about analysis of heating and HVAC
19ACE65b	Environmental Impact Assesment	2021-22	research work - PROCEDURES FOR ENVIRONMENT CLEARANCES AND AUDIT
19ACS65b	Introduction To Computer Networks	2021-22	research work - DESIGN ISSUES FOR LAYERS
19ACS65a	Introduction To Machine Learning	2021-22	research work - APPLY MACHINE LEARNING
19AME65e	Nems & Mems	2021-22	research work - APPLICATIONS OF MEMES ANS NEMS
19AME65d	Non Conventional Sources Of Energy	2021-22	Research work - IILUSTRATE VARIOUS SOLAR APPLICATIONS

19AME65f	Optimization Techniques Through Matlab	2021-22	Research work - IMPLEMENT MULT VARIABLE OPTIMIZATION
19AEE65b	PLC And Its Applications	2021-22	Research work - CLASSIFICATIONS OF PLC'S AND APPLICATIONS
19AME65 b	Programming Of Robot And Its Controll	2021-22	Research work - INDUSTRIAL APPLICATIONS OF ROBOT VISION SYSTEM
19ACE65a	Remote Sensing And GIS	2021-22	Research work - KNOW APPLICATIONS OF GIS AND DATA INTERPRETATION
19AME65 c	Sensors For Intelligent Manufacturing	2021-22	Research work - DESIGN OF CIM
19AEE65c	System Reliabilities Concepts	2021-22	Research work - EVALUATION OF NETWORK RELIABILITY
19ACS65c	Web Design & Management	2021-22	Research work - DESIGN OF A RESPONSIVE WEBSITE
15ABS12	Basics Of Nano Science And Nanotechnology	2017-18	Research work - necessary foundation for advanced materials engineering subject
15AHS08	Campus Recruitment Training & Soft Skills	2017-18	Research work - significance of soft skills in the working environment
15AEC08	Basic Electronics	2017-18	Research work - concept of amplifiers
15AHS09	Competitive & Spoken English	2017-18	Research work - NA
15AEE01	Electrical Engineering Materials	2017-18	Research work - the fundamentals of different insulating materials
15AEC10	Electronic Measurements & Instrumentation	2017-18	Research work - types of transducers
15ACE10	Disaster Management And Mitigation	2017-18	Research work - Diasaster management cycle
15AEE09	Electrical Measuring Instruments	2017-18	Research work - instument transformers and potentiometers
17D83201	Digital Signal Processors And Applications	2019-20	Job oriented - Study of Digital Signal Processors and Applications
17D83202	Advanced Electric Drives	2019-20	Research - Performance of Advanced Electric Drives
17D83203	Modern Power Electronics	2019-20	Research work - Analysis and Design of Converters
17D83204	Electric Traction Systems	2019-20	Job oriented - To Study the importance of Electric Traction systems
17D83209	Digital Control Systems	2019-20	Job oriented - Analysis and Design of Digital Control Systems
17D83205	Advanced Power Semiconductor Devices & Protection	2019-20	Research - Analysis of Advanced Power Semiconductor Devices and their Protection
17D83206	Internet Of Things	2019-20	Research work - Study of Internet of Things
17D83207	Hybrid Electric Vehicles	2019-20	job oriented - Study of Hybrid Electric Vehicles
17D83208	Machine Learning And Deep Learning	2019-20	Job oriented - Study of Machine Learning and Deep Learning methods
15AME37	Automotive Electronics	2017-18	Research work - the various display device tha are used in automobiles.
15ACE37	Finite Element Methods	2017-18	Research work - Finite element analysis

15AEC34	Fundamentals Of Communication Systems	2017-18	Research work - Basic concepts of analog communication systems
15AEC35	Industrial Electronics	2017-18	Research work - understand about the practical applications electronics in industries
21D42101	Cmos Analog Ic Design	2021-22	Research Work - Design of CMOS Op Amps, Compensation of Op Amps, Design of Two-Stage Op Amps, Power Supply Rejection Ratio of Two-Stage Op Amps, Cascade Op Amps, Measurement Techniques of OP Amp.Basic design concepts, issues and tradeoffs involved in analog IC design are explored.
21D42102	Cmos Digital Ic Design	2021-22	Research Work - Analyze complex engineering problems critically in the domain of digital IC design for conducting research,Solve engineering problems for feasible and optimal solutions in the core area of digital ICs.
21D42103 a	Microchip Fabrication Techniques	2021-22	Practical - Comprehend impact of semiconductor industry on the design of development of integrated circuits.Understand oxidation methods, aspects of photolithography, diffusion, ion implantation techniques. Various packaging techniques and Design rules.
15ACS37	Machine Learning	2017-18	develop - develop an appreciation for what is involved in learning from data
21D42104 b	FPGA Architectures And Applications	2021-22	Industry - Acquire knowledge about various architectures and device technologies of PLD‚Äôs.Apply knowledge of this subject for various design applications.Familiarize with Anti-Fuse Programmed FPGAs.
21D42105	Cmos Analog Ic Design Lab	2021-22	Practical - design and analyze of analog and mixed signal simulation,grasp the Significance of Pre-Layout Simulation and Post-Layout Simulation.
15AME36	Mechatronics And Mems	2017-18	knowledge acquired - define the discipline of mechatronics
21D42106	Cmos Digital Ic Design Lab	2021-22	Practical - VLSI Design Methodologies using any VLSI design tool.Fully appreciate the design and analyze of CMOS Digital Circuits,Significance of Pre-Layout Simulation and Post-Layout Simulation.
15ACS35	Mobile Computing-	2017-18	develop - students able to use mobile computing more effectively
17A70101	Finite Element Analysis	2018-19	Practical - FEA techniques allows you to design complex structures with complete safety.
17A70102	Geo ‚Äì Technical Engineering ‚Äì Ii	2018-19	Practical - -Geotechnical investigations allow engineers to evaluate the stability and strength of the ground, including slopes and soil deposits.
17A70103	Transportation Engineering - I	2018-19	Field work - -Transportation engineering is a broad field that can apply to work with roadways, waterways, railways and other projects.
21D42201	Cmos Mixed Signal Ic Design	2021-22	Job oriented - Design different A/D, D/A, modulators, demodulators and different filter for real time applications,Extend the concept of phase locked loop for designing PLL application with minimum jitter by considering non ideal effects.
17A70104	Experimental Stress Analysis	2018-19	Practical - Analytical Methods These are useful to get a conceptual appreciation of the nature of stress field .
21D42202	Physical Design Automation	2021-22	Industry Oriented - Design area efficient logics by employing different routing algorithms and shape functions,Simulate and synthesis different combinational and sequential logics.Understand relation between automation algorithms and constraints posed by VLSI technology.
17A70105	Bridge Engineering	2018-19	Practical - Bridges are a critical component of a nation's infrastructure, making it possible to ship raw materials and finished goods to factories, warehouses, suppliers, distributors, stores, and end-consumers.
17A70106	Design Studio Lab	2018-19	practical - STAAD helps structural engineers perform 3D structural analysis and design for both steel and concrete structures. A physical model created in the structural design software can be transformed into an analytical model for structural analysis
21D42203 a	Soc Architecture	2021-22	Industry - Understand the basics related to SoC architecture and different approaches related to SoC Design.Realize real time case studies,Select an appropriated robust processor for SoC Design.
17A70107	Highway Materials Lab	2018-19	Practical - -Categorize soil and bitumen binders in terms of their properties and quality control and provides an additional exposure to the testing of Highway Construction materials
21D42204 b	System Verilog	2021-22	Programming - Verify the functionality of different complex logics,Write test benches different layered architectures using system Verilog,Get complete knowledge on principles of verification, and usage of System Verilog for

			verification.
15ABS19	Optimization Techniques	2017-18	determination - the student will be able to analyze engineering problems
21D42205	Cmos Mixed Signal Ic Design Lab	2021-22	Practical - Design and simulate op-amp,PLL and VCO for given specifications,Understand the Significance of Pre-Layout Simulation and Post-Layout Simulation.
17A80101	Building Construction Management	2018-19	Practical - -Effective construction project management benefits owners by increasing the potential for successful project completion,Äîon time, within budget, and free of financial or legal complications.
17A80101	Advanced Structural Engineering	2018-19	field work - Structural engineering is extremely important in the design of a house or a building that is to be constructed on a site. The terrain can be unforgiving and at times a site and future structure may require a unique design to allow the building to be placed in the desired location.
21D42206	Physical Design Automation Lab	2021-22	Practical - the implementation of different Physical Design Automation algorithms,graph algorithms,partitioning algorithms, floor planning algorithms,routing algorithms.
17A80102	Design & Drawing Of Irrigation Structures	2018-19	Practical - Irrigation design determines the efficiency and effectiveness of water use, and therefore influences the profitability of your business. Irrigation professionals can provide advice on good design that may increase profits.
17A80102	Architecture And Town Planning	2018-19	Practical - Planning is done in such a way that there is minimum traffic congestion or water clogging problems, and the road network is made such that it connects the whole town, minimising the distances and making it safe for people to travel.
17A80102	Advanced Foundation Engineering	2018-19	field work - To anchor the structure against natural forces including earthquakes, floods, droughts, frost heaves, tornadoes and wind. To provide a level surface for construction.
17A80103	Transportation Engineering - Ii	2018-19	Field work - -Transportation engineering is a broad field that can apply to work with roadways, waterways, railways and other projects.
17A80104	Prestressed Concrete	2018-19	Practical - Prestressing can reduce the volume of concrete required in construction, lowering the use and transportation of materials, as well as boosting durability and service life.
15ACE35	Remote Sensing And Gis	2017-18	Analysis - understand application of GIS in civil engineering field.
15AEE34	Renewable Energy Sources-	2017-18	knowledge - find the various type of urbans and design of energy systems.
15AEE35	Utilization Of Electrical Energy-	2017-18	Research work - design the levels of illumination based on the application.
19A50101	Design Of Reinforced Concrete Structures	2019-20	Practical - Reinforced concrete can be molded and shaped in ways that are not possible for some other materials, providing opportunities for innovative and visually intriguing design.
19A50102	Concrete Technology	2019-20	Field work - The information regarding various properties of concrete in its plastic stage as well as hardened Stage is necessary to enable the engineer for quality control during construction work.
19A50104	Geo Technical Engineering ,Äì I	2019-20	Practical - -Geotechnical investigations allow engineers to evaluate the stability and strength of the ground, including slopes and soil deposits.
19A50105	Water Resources Engineering-Ii	2019-20	Practical - self-employment as engineering consultants and other technically applied positions is an expanding career option for water resource engineering professionals.
19A50108	Experimental Stress Analysis	2019-20	Practical - The design of mechanical components for various engineering applications requires the understanding of stress distribution in the materials.
19A50111	Concrete Technology Lab	2019-20	practical - The information regarding various properties of concrete in its plastic stage as well as hardened Stage is necessary to enable the engineer for quality control during construction work.
19A50112	Geotechnical Engineering Lab	2019-20	Field work - Finding the physical, mechanical, and hydraulic properties of the materials in order to design safe and cost-effective foundations, earthworks, and other geotechnical structures
19A60101	Transportation Engineering - I	2019-20	Field work - Transportation engineering is a broad field that can apply to work with roadways, waterways, railways and other projects.
19A60102	Geotechnical Engineering ,Äì Ii	2019-20	Practical - Geotechnical investigations allow engineers to evaluate the stability and strength of the ground, including slopes and soil deposits.-

19A60103	Prestressed Concrete	2019-20	Practical - Prestressing can reduce the volume of concrete required in construction, lowering the use and transportation of materials, as well as boosting durability and service life.
19A60104	Expansive Soils	2019-20	Field work - Expansive soils exhibit swell potential, compressibility and low strength especially in the presence of water
19A60105	Repair And Rehabilitation Of Structures	2019-20	Practical - -Rehabilitation is the process of restoring the structure to service level, once it had and now lost, strengthening consists in endowing the structure with a service level, higher than that initially planned by modifying the structure not necessarily damaged structure.
19A60106	Industrial Waste And Waste Water Management	2019-20	Practical - What is the job scope of waste water treatment engineer? Basic Job Description: Design or oversee projects involving provision of potable water, disposal of wastewater and sewage, or prevention of flood-related damage.
19A60108	Green Buildings	2019-20	practical - -These buildings offer improved energy efficiency and contribute in conserving the natural resources.
20A30101	Strength Of Materials - II	2020-21	Practical - Strength of material provides the basic knowledge of strength of materials and the students can perform different tests on variety of materials.
20A30102	Fluid Mechanics	2020-21	Practical - -Fluid mechanics is considered a branch of physics that studies the mechanics of fluids (liquids, gases, and plasmas) and the forces acting on them.
20A30103	Surveying	2020-21	survey - A Field Surveyor is responsible for examining previous records and evidence to determine the data accuracy. He or she stays involved in researching and designing methods for survey processes
20A30104	Concrete Technology	2020-21	Field work - The information regarding various properties of concrete in its plastic stage as well as hardened Stage is necessary to enable the engineer for quality control during construction work.
20A30105	Surveying Lab	2020-21	survey - A Field Surveyor is responsible for examining previous records and evidence to determine the data accuracy. He or she stays involved in researching and designing methods for survey processes
20A30106	Concrete Technology Lab	2020-21	Field work - The information regarding various properties of concrete in its plastic stage as well as hardened Stage is necessary to enable the engineer for quality control during construction work.
20A30107	Building Planning & Drawing	2020-21	Practical - These drawings provides layout plans and details for construction of each and every part of the building. Drawings plays an important role in the construction field to convey the ideologies and perspective of the designer to the layman at site
20A40102	Structural Analysis	2020-21	Practical - Structural analysis is important as it provides a basis for structural design and also it evaluates whether a specific structural design will be able to withstand external and internal stresses and forces.
20A40103	Hydraulics And Hydraulic Machinery	2020-21	Practical - -To find and verify the difference between the theoretical calculations and actual quantities of flow and its parameters in a pipe network or open channels.
20A40105	Fluid Mechanics And Hydraulic Machinery Lab	2020-21	Practical - -Offers basic knowledge on fuild statics, dynamics and hydraulic machines.
20A10102	Building Materials And Construction	2020-21	Practical - enable the student to apply the concepts of strength of materials in engineering applications and design problems.
20A10104	Civil Engineering Workshop	2020-21	Field work - -The basic need of Engineering Workshop is to provide theoretical and practical knowledge of manufacturing environment to all the engineering students. Therefore, an attempt has been made through this laboratory subject to learn both the theoretical and practical knowledge of shaping a product.
20A10101	Strength Of Materials-L	2020-21	Practical - Strength of material laboratory provides the basic knowledge of strength of materials and the students can perform different tests on variety of materials.
20A10101	Streangth Of Materials-L	2020-21	Practical - -Strength of material provides the basic knowledge of strength of materials and the students can perform different tests on variety of materials. Subm
20A10103	Strength Of Materials Lab	2020-21	Practical - Strength of material laboratory provides the basic knowledge of strength of materials and the students can perform different tests on variety of materials.
15ACS04	Data Structures	2017-18	Research work - evaluation of expressions in data structure

15AEC09	Fundamentals Of Digital Electronics	2017-18	Research work - design procedure of combinational logic using MSI and LSI
15AME12	Mechanical Manufacturing Processes	2017-18	Industrial visit - design and considerations for power metallurgy
15ACS08	Operating Systems-	2017-18	Research work - understand the past and current trends in computer technology
15AME13	Non Conventional Sources Of Energy	2017-18	research work - have knowledge about various renewable energy resources
15AEE08	Principles Of Electrical Engineering-	2017-18	Research work - student able to demonstrate knowledge on electrical measurements
21D41101	Advanced Digital System Design	2021-22	Job oriented - Design state machines using Field-Programmable Gate Arrays.Synthesize logic and state machines using a PLA design and minimization.Construct computer to be fault-tolerant for combinational and sequential circuits
21D41102	Wireless Communication And Networks	2021-22	Research - Apply the concepts of various digital modulation techniques and mobile commutations to solve relative problems,Compare the performance of various wireless and mobile communication systems under different channel conditions.Analyze the performance of various wireless and mobile communication systems for AWGN and wireless channels.
15AME11	Robotics-	2017-18	knowledge - understand and able to solve robotics dynamic and control problems
21D41103 a	Design Of Fault Tolerant Systems	2021-22	Job oriented - understanding of fault diagnosis and tolerant design approach.Acquire the knowledge of design of built-in-self test.
21D41103 c	Fuzzy Systems And Neural Networks	2021-22	Skill Development - Get complete knowledge regarding different algorithms related to neural learning,Understand about different issues related probability and fuzziness and different types of fuzzy associative memories,functioning of basic neural computational models.
15ACE11	Water Harvesting And Conservation-	2017-18	develop - understand the methods of water recovery and reuse
21D41104 a	Coding Theory And Techniques	2021-22	Research Work - Obtain knowledge in designing Linear Block Codes and Cyclic codes.Design the Turbo codes and Space time codes and their applications
21D41104 b	Advanced Digital Signal Processing	2021-22	Research Work - Get complete knowledge regarding various algorithms associated with Digital signal processing and multi rate signal processing.Verify the power spectral estimation by using Barlett, Welch &Blackmann& Tukey methods
21D41104 c	5g Communications	2021-22	skill oriented - Acquire knowledge on Device-to-device communication and millimeter wave communication,Understand 5G Technology advances and their benefits
21D41105	Advanced Digital System Design Lab	2021-22	Practical - Identify, formulate and solve real world problems using industry standard simulators ,Verify the functionality of designed digital systems using appropriate synthesizers, Analyze the implemented logic with CPLD/FPGA hardware kits
21D41106	Wireless Communication And Networks Lab	2021-22	Practical - Implement different digital modulation schemes through simulations.Compare the performance of various wireless and mobile communication systems using performance metrics. Use of Software tools effectively in the implementation of Wireless and Mobile communication systems.
15D11101	Matrix Methods Of Structural Analysis	2019-20	Practical - The advantage of matrix structural analysis is that it can easily be programmed to be solved using a computer. The use of this method with a computer allows the analysis of complex structures that would have been impossible previously.
15D11102	Theory Of Elasticity	2019-20	Practical - The Non-Linear Theory of Elasticity allows us to solve a majority of practical problems with a degree of mathematical certainty. It is a general theory for different structures.
15D11103	Theory And Analysis Of Plates	2019-20	Practical - -Folded plates are assemblies of flat plates rigidly connected together along their edges in such a way that the structural system capable of carrying loads without the need for additional supporting beams along mutual edges.

15D11104	Experimental Stress Analysis	2019-20	Practical - The design of mechanical components for various engineering applications requires the understanding of stress distribution in the materials
15D11105	Advanced Reinforced Concrete Design	2019-20	field work - Reinforced concrete can be molded and shaped in ways that are not possible for some other materials, providing opportunities for innovative and visually intriguing design.
15D11107	Prestressed Concrete	2019-20	Practical - Prestressing can reduce the volume of concrete required in construction, lowering the use and transportation of materials, as well as boosting durability and service life.
15D11109	Advanced Foundation Engineering	2019-20	field work - To anchor the structure against natural forces including earthquakes, floods, droughts, frost heaves, tornadoes and wind. To provide a level surface for construction.
15D11110	Advanced Concrete Laboratory	2019-20	Research work - Advance Concrete Technology is a very important subject for structural engineering. It helps civil engineers to clearly understand various sophisticated aspects of concrete.
15D11201	Structural Dynamics	2019-20	Practical - Structural dynamics analysis plays a crucial role in engineering design and development. It involves the study of how structures and systems respond to dynamic loads and vibrations, ensuring their safety, performance, and durability.
21D41201	Embedded System Design	2021-22	INDUSTRY - the knowledge and experience of task level Communication in any Embedded System. design requirements between General Purpose and Embedded Systems.understand the role of Real Time Operating System in Embedded Design.
15D11202	Finite Element Analysis Of Structures	2019-20	Practical - -FEA techniques allows you to design complex structures with complete safety.
21D41202	Advanced Communications And Networks	2021-22	Research Work - Understand about various spread spectrum communication techniques,various protocols used in wireless networks .
15D11204	Analysis Of Shells And Folded Plates	2019-20	Practical - Concrete shells have many advantages: they are very strong and withhold extreme weather conditions, they can be economical to create and require less building material. They also require less structural support below them, and they can cover very large areas with just a single structure.Folded plates are assemblies of flat plates rigidly connected together along their edges in such a way that the structural system capable of carrying loads without the need for additional supporting beams along mutual edges.
21D41203 a	Low Power Vlsi Design	2021-22	INDUSTRY ORIENTED - Understand the concepts of velocity saturation, Impact Ionization and Hot Electron Effect Implement Low power design approaches for system level and circuit level measures. Design low power adders, multipliers and memories for efficient design of systems.
15D11205	Design Of Bridges	2019-20	practical - studying bridge hydraulics is essential for designing safe and resilient bridges, assessing flood risks, preventing scour, managing waterways, and planning for emergency situations.
15D11206	Advanced Concrete Technology	2019-20	research work - Advance Concrete Technology is a very important subject for structural engineering. It helps civil engineers to clearly understand various sophisticated aspects of concrete.
15D11208	Advanced Structural Steel Design	2019-20	field work - Steel is highly tensile, meaning it can withstand significant impacts without breaking. Because it's resistant to mould and termites, structural steel is a preferred material for residential construction. It's also resistant to corrosion.
21D41203 c	Wireless Sensor Networks	2021-22	Research - Gets complete knowledge regarding different tools and simulators associated with Wireless Sensor Networks.Understand different types of sensor networks, advantages, applications and the mechanism of transportation and processing involved in Wireless Sensor Networks. Understand about representation and different protocols and mechanisms involved in routing of Wireless Sensor Networks.
21D41204 a	Software Defined Radio	2021-22	Research - Analyze requirements, benefits and different models for Software Defined Radio,,Ä¢ Understand in detail about Software Defined Radio Architectures for performance optimization.Gets complete knowledge regarding functioning of different blocks and techniques associated with Software Defined Radio.
15D11211	Cad Laboratory	2019-20	Practical - STAAD helps structural engineers perform 3D structural analysis

			and design for both steel and concrete structures. A physical model created in the structural design software can be transformed into an analytical model for structural analysis
21D41204 b	Image And Video Processing	2021-22	Employability - Study the basic digital image and video filter operations, Representation of video, principles and methods of motion estimation,quality improvement methods of Image, basic digital image and video filter operations.
15D11101	Matrix Methods Of Structural Analysis	2019-20	Practical - The advantage of matrix structural analysis is that it can easily be programmed to be solved using a computer. The use of this method with a computer allows the analysis of complex structures that would have been impossible previously.
21D41204 c	Transform Techniques	2021-22	Research - Use different 1-d and 2-d transforms for different signals,Apply wavelet transforms for different signals and will be able to appreciate its differences with other transformations.Use different advanced transforms such as DCT, DWT and KLT for different applications like signal de noisy, sub band coding of speech and music and signal compression.
15D11102	Theory Of Elasticity	2019-20	Practical - The Non-Linear Theory of Elasticity allows us to solve a majority of practical problems with a degree of mathematical certainty. It is a general theory for different structures.
21D41205	Embedded Systems Lab	2021-22	Practical - Implement different embedded communication and interfacing protocols,Familiarize with embedded systems programming concepts,Flashing the OS on to the device into a stable functional state by porting desktop environment with necessary packages
15D11104	Experimental Stress Analysis	2019-20	Practical - -The design of mechanical components for various engineering applications requires the understanding of stress distribution in the materials.
21D41206	Advanced Communications And Networks Lab	2021-22	Practical - Design of FSK system,Verification of Decimation and Interpolation of a given signal,Implement modulation schemes for the given specifications
15D11107	Prestressed Concrete	2019-20	Practical - Prestressing can reduce the volume of concrete required in construction, lowering the use and transportation of materials, as well as boosting durability and service life.
15D12104	Cad Laboratory ,Äi I	2019-20	Practical - STAAD helps structural engineers perform 3D structural analysis and design for both steel and concrete structures. A physical model created in the structural design software can be transformed into an analytical model for structural analysis
15D11201	Structural Dynamics	2019-20	Practical - Structural dynamics analysis plays a crucial role in engineering design and development. It involves the study of how structures and systems respond to dynamic loads and vibrations, ensuring their safety, performance, and durability.
15D11202	Finite Element Analysis	2019-20	Practical - FEA techniques allows you to design complex structures with complete safety.
15D11204	Analysis Of Shells And Folded Plates	2019-20	Practical - Concrete shells have many advantages: they are very strong and withhold extreme weather conditions, they can be economical to create and require less building material. They also require less structural support below them, and they can cover very large areas with just a single structure.Folded plates are assemblies of flat plates rigidly connected together along their edges in such a way that the structural system capable of carrying loads without the need for additional supporting beams along mutual edges.
15D11206	Advanced Concrete Technology	2019-20	research work - Advance Concrete Technology is a very important subject for structural engineering. It helps civil engineers to clearly understand various sophisticated aspects of concrete.
15D12205	Cad Laboratory ,Äi Ii	2019-20	Practical - STAAD helps structural engineers perform 3D structural analysis and design for both steel and concrete structures. A physical model created in the structural design software can be transformed into an analytical model for structural analysis
15D12205	Cad Laboratory ,Äi Ii	2019-20	Practical - STAAD helps structural engineers perform 3D structural analysis and design for both steel and concrete structures. A physical model created in the structural design software can be transformed into an analytical model for structural analysis
20AEC17	Advanced Digital Systems Design	2021-22	Research work - Design of combinational and sequential circuits

15R00301	Pharmaceutical Engineering	2020-21	Pharmaceutical engineering focuses on designing, building, and improving manufacturing facilities that produce drugs. - Pharmaceutical engineering is a branch of engineering focused on discovering, formulating, and manufacturing medication, analytical and quality control processes, and on designing, building, and improving manufacturing sites that produce drugs.
17D83101	Machine Modelling And Analysis	2019-20	Research work - Modelling and Analysis of Electric Machines
17D83102	Switched Mode Power Converters	2019-20	Research work - Analysis on various Power Converters
17D83103	Power Electronic Control Of DC Drives	2019-20	Job oriented - Power Electronic Control of DC Drives
17D83104	Facts Controllers	2019-20	Research work - To Study of various FACTS CONTROLLERS like series, shunt and combination of both
17D83105	Special Machines And Controllers	2019-20	Job oriented - Study of Special Machines and Controllers
17D83106	AI Techniques In Electrical Engineering	2019-20	Research work - Study of AI and Intelligent Control Techniques
17D83107	Power Quality	2019-20	Job oriented - Modelling and Analysis of Power Quality Problems
17D83108	Smart Grid Technologies	2019-20	Research work - Study of Smart Grid Technologies
17D83109	Modern Control Theory	2019-20	Job oriented - Design and Analysis of State Controllers
15AEE52	Instrumentation	2018-19	job oriented - Study of working of various Instruments
15AEE53	Switched Mode Power Converters	2018-19	Research work - Analysis on various Power Converters
15AEE54	Energy Auditing And Demand Side Management	2018-19	job oriented - It describes energy, audit, conservation and management
15AEE34	Renewable Energy Sources	2018-19	job oriented - Study of Renewable Energy Sources
15AEE55	Basics Probabilistic Method And Applications To Power Systems	2018-19	Research work - Study of Basics Probabilistic Methods and Applications To Power Systems
15AEE56	Power Quality	2018-19	Research work - To Study of various POWER QUALITY issues and corrections
BP201T	Human Anatomy And Physiology-11	2019-20	job oriented - regulation of acid production, mechanism of respiration, function of male & female reproductive system
BP101T	Human Anatomy And Physiology-1	2019-20	job oriented - General principles of cell communication, physiology of muscle contraction
BP106RBT	Remedial Biology	2019-20	job oriented - different parts of flowering plants, salient features of monera, potista, fungi
BP204T	Pathophysiology	2019-20	Research - Enzyme leakage, mechanism of inflammation, Acute, chronic and renal failure
BP303T	Pharmaceutical Microbiology	2019-20	Industrial visit - simple, gram's & Acid fast staining, application of cell culture in pharmaceutical industry and research
BP404T	Pharmacology-1	2019-20	Research - Alcohols and disulfiram, A<D<M,E, Receptor theories
BP503T	Pharmacology-II	2019-20	Research - Anti-hyperlipidemic , Anti diuretics, Anti rheumatic drugs
BP602T	Pharmacology-III	2019-20	Research - Anti-asthmatic drugs, Respiratory stimulants, Sulfonamids and cotrimoxazole
BP605T	Pharmaceutical Biotechnology	2019-20	Industrial visit - production of enzymes, humoral immunity & cellular immunity, ELISA, Western blotting
BP804ET	Pharmadeutical Regulatory Science	2019-20	job oriented - pre-clinical studies, NDA, IRB
BP805T	Pharmacovigilance	2019-20	job oriented - Pharmacovigilance program of india, WHO drug dictionary, Vaccine pharmacovigilance
21S01102	Advanced Pharmacology-1	2017-18	Research - mechanism of drug action, neurodegenerative diseases, anti-hiatamines
21S01103	Clinical	2021-22	job oriented - Clinical pharmacokinetics, TDM, ADR

	Pharmacology And Pharmacotherapeutics		
21S01104	Cellular And Molecular Pharmacology	2017-18	Research - importance of sirRNA, r-DNA, SDS Page
21S01201	Advanced Pharmacology-2	2017-18	Research - Thyroid, insulin, Quinolones, diabetes
21S01202	Pharmacological Screening Methods & Toxicology	2017-18	Research - CPCSEA, CNS Stimulants, CVS
21S01203	Principles Of Drug Discovery	2017-18	Research - Protein structure levels of protein structure, Concept of pharmacophore, Rigid docking
21S01204	Clinical Research And Pharmacovigilance	2017-18	Research - ICH_GCP, ICMR, RCT and Non- RCT, management of ADR
21S07201	Advanced Instrumental Analysis	2021-22	trouble shooting, sample preparation, method development, New developments - for identification, characterization and quantification of drugs
21S07101	Advanced Pharmaceutical Analysis	2021-22	classification of impurities in drug Substance - Impurity profiling and characterization of degradents, Stability testing of Pharmaceutical drugs
21S07203	Herbal And Cosmetic Analysis	2021-22	Herbal drug standardization: WHO and AYUSH guidelines - impart knowledge on analysis of herbal products. Regulatory requirements, herbal drug interaction with monographs
21S07202	Modern Bio-Analytical Techniques	2021-22	Protein precipitation, Liquid -Liquid extraction and Solid phase extraction and other novel sample preparation approach - provide detailed knowledge about the importance of analysis of drugs in biological matrices by using different techniques
21S01101	Modern Pharmaceutical Analytical Techniques	2021-22	Instrumentation associated with UV-Visible spectroscopy - to enable the students to understand and apply the principles involved in the determination of different bulk drugs and their formulation
17S01101	Modern Pharmaceutical Analytical Techniques	2017-18	Applications of UV-Visible spectroscopy - knowledge in developing the new methods for the determination and validate the procedures of pharmaceutical drugs
15R00505	Moocs-I (Application Of Spectroscopic Methods In Molecular Structure Determination)	2016-17	qualitative and quantitative analysis by UV-Vis spectroscopy - whenever a new molecule is synthesized it is essential to determine its structure using spectroscopic techniques
BP102T	Pharmaceutical Analysis	2019-20	Sources of impurities in medicinal agents,limit tests - understand the fundamentals of analytical chemistry and principles for the determination of medicinal agents by using varoius analytical techniques
21S07102	Pharmaceutical And Food Analysis	2021-22	General methods of analysis of food carbohydrates - gives impart knowledge on analysis of food constituents and finished food products and includes application of instrumental analysis
21SOE301 a	Pharmaceutical Validation	2021-22	Qualification and Validation - understand about validation and how it can be applied to industry and thus to improve the quality of the products
15R00602	Pharmaceutical Analysis- Ii	2016-17	preparation, procedure and methods of detection - assess the process for identification, determination, quantification and purification of a substance and separation of the components of a solution or mixture
BP606T	Pharmaceutical Quality Assurance	2017-18	Personnel responsibilities, training, hygiene and personal records. - important aspects of pharmaceutical industries like cGMP, QC tests, documentation, quality certifications and regulatory affairs
21S07103	Quality Control And Quality Assurance	2017-18	Good Laboratory Practice, GMP, - It covers the important aspects like cGMP, QC tests, documentation, quality certifications, GLP and regulatory affairs
20E04402	Artificial Intelligence	2021-22	Programming - Artificial Intelligence

20E04401	Big Data Analytics	2021-22	Programming - Big Data Analytics
20E04403	Supply Chain Analytics	2021-22	Skill development - Supply Chain Analytics
17S01102	Advanced Pharmacology-1	2017-18	Research - linear and non-linear, Ach, GABA,neurodegenerative diseases etc
17S01104	Cellular And Molecular Pharmacology	2017-18	Research - cell death, receptor family etc
17S01103	Pharmacological And Toxicological Screening Methods-I	2017-18	Research - CPCSEA, anti ulcer, anti cancer, CVS
17S01201	Advanced Pharmacology Ii	2017-18	job oriented - Oral hypoglycemic agents,aminoglycosides, quinolones, Macrolide antibiotics
17S01202	Pharmacological And Toxicological Screening Methods-II	2017-18	Research - Male reproductive toxicity studies, female reproductive studies,importance of IND
17S01203	Principles Of Drug Discovery	2017-18	Research - Assay development for hit identification,Concepts of Rational Drug Design,Quantitative analysis of Structure Activity Relationship History
17S01204	Clinical Research And Pharmacovigilance	2017-18	Research - Control, Cross sectional Clinical Trial Study Team Roles and responsibilities of Clinical Trial Personnel,Guidelines to the preparation of documents, Preparation of protocol, Investigator Brochure, Case Report Forms
21G41G201	Research Methodology & Biostatistics	2020-21	Employability - Research Approaches , Criteria of Good Research
21G13102	Instrumental Methods In Food Analysis	2021-22	Food Technology - Acquire basic Principle of simple instrumental methods for estimation of organic and inorganic species
MFT-9211	Msc Food Technology	2018-19	Technology of Oils and Fats - This subject helps to find out different quality parameters in oils and fats
MFT-9212	Msc Food Technology	2019-20	Packaging Technology Including Food Laws - This subject is useful to study different packaging materials and their properties
21G13203	Msc Food Technology	2020-21	Food processing Engineering and Packaging Technology - This subject is useful to study the different unit operations in food Industry
21G13301	Msc Food Technology	2021-22	Cereals, Legumes,oil seed technology - This subject helps to findout proximate composition in all cereals, grains ,oil seeds ,its processing and preservation
G407	Msc Food Technology	2017-18	Plantation products, flavour technology and other additives - Gains knowledge about spices processing, different types of flavours, food additives
21G13203	Msc In Food Technology And Management	2020-21	Food Process Engineering and Packaging Technology - This subject is useful to gain knowledge on unit operations in food Industry
MS-G408	Msc In Food Technology And Management	2020-21	Food Process Engineering and Packaging Technology - This subject is useful to gain knowledge on unit operations in food Industry
G407	Msc Food Technology	2018-19	Technology of milk and animal based foods - Milk and milk products processing
G407	Msc Food Technology	2019-20	Technology of sugar confectionery and convinience foods - Manufacturing of high boiled sweets, baking, health food snacks processing
G408	Msc Food Technology And Management	2020-21	Management of food processing industries - Types of business, accounting, types of industries
G407	Msc Food Technology	2021-22	Food additives and flavor technology - Types of additives, essential oils
G407	Msc Food Technology	2021-22	Advances in spices, condiments and confectionery foods - Different spices, condiments, manufacturing of high boiled sweets and bakery products
G402	M.Sc Food Technology	2020-21	Technology of Milk and Animal Based Foods - This subject gives knowledge on processing and preparation of milk and its products, animal based food products
G402	M.Sc Food	2020-21	Technology of Fruits and Vegetables - This subject gives idea on preparations

	Technology		of various fruits and vegetable products along with preservation techniques.
G404	M. Sc Food Technology And Management	2021-22	Management of Food Processing Industries - This subject helps to learn management concepts and functions along with plant location and basics of accountancy
BP101T	Human Anatomy & Physiology-I	2019-20	basic anatomical terminology electrocardiogram and disorders of - Medical coding & Medical writing
BP201T	Human Anatomy & Physiology-Ii	2020-21	pregnancy and parturition digestion and absorption of nutrients and disorders of GIT - Hospital intetrnship in various departments
BP703T	Pharmacy Practice	2021-22	functions of hospital pharmacists Therapeutic Drug Monitoring - Clinical Pharmacist in Hospitals
17T00101	Human Anatomy And Physiology	2021-22	Anatomy and functions of accessory glands of GIT - The accessory organs include the teeth, tongue, and glandular organs such as salivary glands, liver, gallbladder, and pancreas.
17T00102	Pharmaceutics	2021-22	Suppositories and pessaries: Definition, advantages and disadvantages, types of base, method of preparation, Displacement value and evaluation. - Suppositories are solid dosage forms intended for insertion into body orifices where they melt, soften, or dissolve and exert localized or systemic effects.
17T00103	Medicinal Biochemistry	2021-22	Enzymes - Enzymes play an important role in Metabolism, Diagnosis, and Therapeutics. ,All biochemical reactions are enzyme catalyzed in the living organism. ,.
17T00104	Pharmaceutical Organic Chemistry	2021-22	Acids and bases, Lowry bronsted and Lewis theories - Lewis acids can accept an electron pair, while Lewis bases can donate an electron pair.
17T00105	Pharmaceutical Inorganic Chemistry	2021-22	Errors - Error,Äù in Chemistry is defined as the difference between the true result (or accepted true result) and the measured result.
17T00106	Remedial Mathematics	2021-22	Algebra : Determinants, Matrices - The determinant of a matrix is the scalar value computed for a given square matrix.
17T00201	Pathophysiology	2021-22	Inflammation - Inflammation is a process by which your body's white blood cells and the things they make protect you from infection from outside invaders, such as bacteria and viruses.
17T00202	Pharmaceutical Microbiology	2021-22	methods of sterilization - As used in a healthcare facility, sterilization destroys all microorganisms through physical or chemical methods
17T00203	Pharmacognosy And Phytopharmaceuticals	2021-22	Study of natural pesticides - Natural insecticides can be chemical, mineral, or biological. The common goal of all three is to kill, repel, or otherwise interfere with the damaging behavior of insect pests.
17T00204	Pharmacology-I	2021-22	Factors modifying drug effects - A multitude of host & environmental factors influence drug response..
17T00205	Community Pharmacy	2021-22	Inventory control in community pharmacy - In a strict definition, pharmacy inventory is the product that is available and in saleable or usable condition within your pharmacy
17T00206	Pharmacotherapeutics-I	2021-22	Cardiovascular system - Hypertensive heart disease refers to a constellation of changes in the left ventricle, left atrium, and coronary arteries as a result of chronic blood pressure elevation, which increases the workload on the heart inducing structural and functional changes.
19AME03	Mechanical Engineering Workshop	2019-20	Practical - Grain size, Welding practice, Design and Fabrication of domestic utility
19AME02	Engineering Workshop	2019-20	Practical - Types of Woods, Wood Working, Sheet metal Working, Fitting, Electrical wiring
19AME01	Engineering Graphics	2019-20	Practical - Projection of Points, Line and Planes, Sectional Views, Development of surfaces, Isometric Views
BP302T	Physical Pharmacy-I	2019-20	The various physical and physicochemical properties, and principles involved in dosage forms/formulations.
BP104T	Pharmaceutical Inorganic Chemistry	2019-20	It includes different aspects such as synthesis & isolation of drugs, identification, analysis, structural elucidation, study of the chemical characteristics, biochemical changes after drug administration and their pharmacological effects
BP702T	Industrial Pharmacy-Ii	2021-22	Industrial pharmacy is a discipline which includes manufacturing, development, marketing and distribution of drug products including quality assurance of these activities.
21D22102	Adaptive Control Theory	2021-22	Field work - Design of STR based control algorithms and MRAS based control algorithms

15D22203 a	Estimation Of Signals And Systems	2021-22	Practical - Understand probability theory, types of model structure, Multi variable system representation, controllability and observability indices
15D22203 c	Real Time & Embedded Systems	2021-22	Practical - Design embedded systems
21D22103 c	Advanced Digital Signal Processing	2021-22	Research work - Compute the linear and circular convolutions of discrete-time sequences
15D22204 a	Intelligent Control Systems	2021-22	Practical - Apply the concepts of ANN, Fuzzy and Heuristic Optimization to develop various algorithms and control techniques
21D22104 c	Networked Control Systems	2021-22	Field work - Analyze the performance of networked control systems with the help of various measurements
21D22104 c	Digital Control Systems	2021-22	Field work - Design full order observer, reduced order observer, prediction observer and dead beat controller
21D22105	Control Systems Lab	2021-22	Practical - Apply the control components like ac servo motor, synchro and magnetic amplifier
21D22116	Control Systems Simulation Lab	2021-22	Practical - illustrate modeling and simulation of any system
21D22201	Nonlinear Control Theory	2021-22	Field work - Analyze the systems with Lyapunov stability theorem and Popov's stability criterion
21D22202	Process Dynamics And Control	2021-22	Field work - Design ratio control, cascade controller and feed forward controller
21D22203 a	Robotic & Control	2021-22	Practical - Analyze mass distribution, Euler dynamic formulations, Lagrangian Formulation of manipulator
21D22203 b	Optimal Control	2021-22	Field work - Evaluate an approach for the Hamilton Jacobi-Bellman equation and Linear Optimal Control Problem
21D22203 c	Performance Assessment & Plant-Wide Control	2021-22	Field work - Design overall control system through dynamic modeling, degrees of freedom and different modes of controllers
21D22204 a	Solar & Wind Energy Conversion System	2021-22	Practical - Design of PV powered DC fan without battery, Standalone system with DC load using MPPT, PV powered DC pump, standalone system with battery and AC/DC load and control principles of Wind turbine
21D22204 b	Biomedical Measurement Systems	2021-22	Field work - Analyze various Biomedical measurement systems by observing their characteristics
21D22204 c	Robust Control	2021-22	Field work - Acquire the fundamentals of H,àû control, and based on this knowledge, design multivariable feedback control systems
21D22205	Process Control Lab	2021-22	Practical - Analyze time domain specifications for different processes using temperature pressure, flow control processes and study about PID controller, ratio control, feed forward control and cascade controller
21D22206	Advanced Control Systems Simulation Lab	2021-22	Practical - Analyze stability using Lyapunov function, Popov,Äôs stability and Isoclane methods and also to solve optimal control problem using Riccatti equation
21D22301 a	Industrial Drives And Control	2021-22	Field work - Develop state models for half, semi, full and dual converter fed drives
21D22301 b	Data-Driven Control	2021-22	Field work - Design control for parameter varying systems
21D22301 c	Guidance Strategies For Autonomous Vehicles	2021-22	Field work - Design different control strategies(cooperative control, feedback control, classical and modern control) for missile guidance and UAS
21D22301	Waste To Energy	2021-22	Field work - Analyze technical and management principles for production of energy from waste
19AEE03	Electrical Circuits Lab	2019-20	Practical - analysis and synthesis of various networks
19AEEE01	Electrical & Electronics Engineering Workshop	2019-20	practical - To learn about types of measuring instruments to measure electrical quantities
19ABS04	Chemistry Lab	2019-20	Practical - analyse the IR and NMR of some organic compounds
MC	Communication Skills	2019-20	Practical - Communication Will Make The Students Efficient In Compititive World
19ME02	Engineering Work Shop	2019-20	Practical - Can Able To Design Neat Graphical Designs

19AEE08	Control Systems Lab	2019-20	Practicals - Can Able To Become Control Engineer
19ACE59	Socially Relevant Project	2019-20	Socially Relevant Project - Can Able To Identify Problems In Society And Can Be Able To Find Solutions
19AEE66	Power Electronics Lab	2019-20	Practical - Student Can Learn Switching Conditions Of Diodes And All
19AEE67	Electrical Measurements Lab	2019-20	Practical - Can Able To Measure Different Line Parameters And Can Able To Calibrate Meters
19AEE77	Power Systems Lab	2019-20	Practicals - Can Able To Learn How To Protect The System
19AEE78	Internship	2019-20	Internship - Can Sea Real Time Probles Firms And Can Able To Find Solutions
19AEE79	Project Stage I	2019-20	Project - Can Do Project
19AEE89	Project Stage Ii	2019-20	Project - Can Do Project Here
15AHS02	English Language Communication Skills Lab	2016-17	Practical - Improve English Communication
15AME03	Engineering And It Work Shop	2016-17	Practical - Can Able To Design Mechanicle And Civil Structures With The Help Of System
15AEE21	Control Systems And Simulation Lab	2016-17	Practical - Can Able To Become Control System Engineer
15AEE36	Power Electronics And Simulation Lab	2016-17	Practical - Can Able To Learn Switching On And Off Of Power Electronic Devices
15AEE37	Electrical Measumerents Lab	2016-17	Practical - Can Able To Measure Line Parameters Of The System And Can Calibrate The Meters
15AEE57	Power Systems And Simulations Lab	2016-17	Practical - Can Able To Become A Protection Engineer
15AEE99	Seminar And Project	2016-17	Project Work - Can Able To Identify Real World Problems
17D07110	Power Systems And Simulation Lab-I	2017-18	Practicals - Can Able To Become The Power System Engineer
17D07111	Machines And Power Systems Lab	2017-18	Practical - Can Able To Become Power Systems Engineer
17D07210	Power Systems And Simulation Lab-Ii	2017-18	Practicl - Can Able To Become Power System Engineer
17D07102	Operation And Control Of Power System	2017-18	Job oriented - To understand the power system security and contingency analysis.
(17D07103)	Switched Mode Power Converters	2017-18	Job oriented - To know the concept of voltage-Fed and current-Fed topologies
17D07104	Power Quality	2017-18	Research work - Understand measuring & solving power quality problems.
(17D07105)	Renewable Energy Systems	2017-18	Research work - Know environmental effects of energy conversion
17D07106	Power System Optimization	2017-18	Job oriented - The concepts of various classical and modern methods of for constrained and unconstrained problems in both single and multivariable.
(17D07107)	Reliability Applications To Power Systems	2017-18	Research work - Evaluate the Transition Rates for Merged State Model
(17D07108)	Reactive Power Compensation & Management	2017-18	Research work - Understand the basic operation of distribution transformer, furnace transformer and electric arc furnaces.
17D07201	Power System Stability & Control	2017-18	Job oriented - To have knowledge on non-linear system stability analysis using Lyapunov, Zubov‚Äôs method ‚Äì Popov‚Äôs methods and voltage stability as well.
17D07201	Power System Stability & Control	2017-18	Job oriented - To have knowledge on non-linear system stability analysis using Lyapunov, Zubov‚Äôs method ‚Äì Popov‚Äôs methods and voltage stability as well.
(17D07203)	Restructured Power System	2017-18	Research work - To know the issues like congestion management, Transmission pricing, Ancillary Services Management.
17D07204	Power System Dynamics	2017-18	Research work - Study the concepts on power system stabilizers.
(17D07207)	Soft Computing Techniques To Power Systems	2017-18	Research work - Applications of AI techniques (Load flow studies , Economic load dispatch etc.).

17D07208	Ehv Ac Transmission	2017-18	Job oriented - Understand the importance of Corona, RI and its effects on EHVAC Transmission system.
21D07101	Economic Operation Of Power Systems	2021-22	job oriented - Understand economic load scheduling problem and unit commitment problem.
21D07103 a	Modelling And Analysis Of HVDC Systems	2021-22	Research work - Design digital dynamic simulation of converters and DC systems.
21D07103 b	Modern Control Theory	2021-22	Job oriented - To design controllers, access the design through the constraint specifications, and decide whether the initial design is acceptable or can be improved by iterating.
21D07103 c	Solar & Wind Energy Conversion Systems	2021-22	Job oriented - Understand the concepts of fixed speed and variable speed, wind energy conversion systems.
21D07104 a	Reliability Engineering And Applications To Power Systems	2021-22	Research work - Expected value and standard deviation of Exponential distribution and Measures of reliability.
21D07104 b	Power System Optimization	2021-22	Research work - Apply the concepts of various classical and modern methods for constrained and unconstrained problemsin both single and multivariable.
21D07104 c	Electric Vehicle Engineering	2021-22	Job oriented - To understand and differentiate between Conventional Vehicle and Electric Vehicles, electro mobility and environmental issues of EVs.
21D07105	Power Systems Protection Lab	2021-22	PRACTICAL - Interpret the experimental results and correlating them with the practical power system.
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21D07105	Power Systems Protection Lab	2021-22	Practical - Interpret the experimental results and correlating them with the practical power system.
21D07106	Power Systems Simulation Lab	2021-22	Practical - Analyze the data related to load flows, economic dispatch problem and transient stability analysis.
21D07107	Research Methodology And IPR	2021-22	Research work - To analyze the nature of intellectual property rights and new developments
21D07108	Research Paper Writing Skills	2021-22	Writing Skills - Understand the skills needed when writing a Title Ensure the good quality of paper at very first-time submission
21D07201	Power System Stability And Control	2021-22	Job oriented - Design excitation systems and their state space model equations for further stability applications.
21D07202	Facts Controllers	2021-22	Job oriented - To enhance the transient stability and power oscillation damping by SVC and STATCOM.
21D07203 a	Energy Auditing, Conservation & Management	2021-22	Job oriented - The better ways to conserve the energy from energy audit concepts, Representations and energy Conservation schemes.
21D07203 b	Smart Grid Technologies	2021-22	Job oriented - To understand about smart grid architecture and technologies
21D07203 C	EHVAC Transmission Systems	2021-22	Research work - To estimate field intensity at any point in EHV system with the help of different computational method
21D07204 a	Restructured Power Systems	2021-22	Job oriented - Analyze about the fundamental concepts of congestion management, Transfer Capability issues and ancillary service management.

21D07204 b	Power Quality	2021-22	Job oriented - To know about voltage sag and transient over voltages for quality of power supply
21D07204 c	Reactive Power Compensation & Management	2021-22	Job oriented - To describe load compensation and various types of reactive power compensation in transmission systems
21D07205	Renewable Energy Lab	2021-22	Practical - Analyze the Performance of frequency drop characteristics of induction generator at different loading condition
21D07206	Facts Devices Simulation Lab	2021-22	Practical - Analyze operation of TCSC, STATCOM & SSSC for a transmission line fed by an ac supply.
19ACE75a	Architecture And Town Planning	2019-20	field work - principles of architecture and history of town planning
19ace55a	Basics Of Civil Engineering Materials And Construction Practice	2019-20	field work - knowledge on basic construction materials and civil engineering practice
19ace76a	Advanced Foundation Engineering	2019-20	research work - imparts knowledge on , pile and well foundation designs and deep foundations, construction in problematic soils
19ACE45b	Repair And Rehabilitation Of Structures	2019-20	field work - why distress in concrete structures and plan repair strategies. ÔÇ∑ To explain issues on serviceability and durability of concrete. various repair materials and their characteristics. ÔÇ∑ To demonstrate repair techniques and protection measures. ÔÇ∑ To illustrate suitable retrofitting schemes.
19ACE03	Building Materials And Construction	2019-20	field work - Identify and characterize the properties of various building materials. like stones, Bricks, Ceramics, Glass and Plastic. Understand the basic principles of low-cost, Alternate and Sustainable materials ,a brief knowledge on building components and its construction methodologies.
19ACE04	Civil Engineering Workshop	2019-20	practical - a brief knowledge on building construction methodologies. like stone masonry, tile flooring, plumbing setting out building plan etc.,
19ACE76c	Design And Drawing Of Irrigation Structures	2019-20	research work - design and drawing of hydraulic structures Sloping glacis weir. ÔÇ∑ Tank sluice with tower head ÔÇ∑ Surplus weir. ÔÇ∑ Trapezoidal notch fall. ÔÇ∑ Canal regulator.
19ACE62	Design Of Steel Structures	2019-20	research work - Design of truss elements ÔÇ∑ To enable design of column bases ÔÇ∑ To design and Plate and Gantry Girders with curtailment of flanges
19ACE54a	Remote Sensing And GIS	2019-20	surveying - basic principles of Remote Sensing and GIS techniques. ÔÇ∑ various types of satellite sensors and platforms ÔÇ∑ Impart concepts of visual and digital image analysis
21D07208	Personality Development Through Life Enlightenment Skills	2021-22	Skill programming - To develop the skills and social responsibility
21D07303 A	Distributed Generation And Micro Grid Control	2021-22	Job oriented - To study regarding the distributed generation and micro grid control
21D07303 B	Power System Automation	2021-22	Job oriented - To study regarding the power system automation
21D07303 C	Intelligent Control Techniques	2021-22	Job oriented - Describes regarding the various intelligent control techniques
21D07304 A	Energy From Waste	2021-22	Research work - To study regarding how to generate power from waste
21D07304 B	Cost Management Of Engineering Projects	2021-22	Job oriented - To know the cost management of engineering projects
21D07304 C	IOT Applications To Electrical Engineering	2021-22	Research work - To know the IOT applications related to electrical engineering
21D07308	Co-Curricular Activities	2021-22	Job oriented - To develop the skills and social responsibility
21D07309	Dissertation Phase -I	2021-22	Research work - To develop research skills related to electrical engineering

21D07409	Dissertation Phase - Ii	2021-22	Research work - To develop research skills related to electrical engineering
21D83101	Switched Mode Power Converters	2021-22	Job oriented - To study regarding the various switch mode power converters
21D83102	Power Electronic Control Of DC Drives	2021-22	Job oriented - To study regarding the control of DC drives using power electronic components
21D83103 A	Modern Control Theory	2021-22	Job oriented - To study regarding the advances in basic control systems
21D83103 B	Hvdc Transmission	2021-22	Job oriented - To study regarding the High voltage DC systems
21D83103 C	Machine Modelling Analysis	2021-22	Job oriented - To know regarding the machine modelling and analysis
21D83104 A	Smart Grid Technologies	2021-22	Research work - To know the regarding the technologies evolved in Smart grid
21D83104 B	Power Quality	2021-22	Job Oriented - To study regarding the issues in power quality and corrections
21D83104 C	Electric Vehicle Engineering	2021-22	field work - To know the basics in EV engineering
21D83105	Advanced Power Converters Lab	2021-22	Practical - To develop the knowledge regarding the power converters practically
21D83106	Design And Simulation Of Power Electronic Circuits Lab	2021-22	Practical - To develop the knowledge regarding the Design and Simulation of Power Electronic Circuits
21D83108	Research Paper Writing Skills	2021-22	Research work - To develop the skills and social responsibility
21D83201	Digital Signal Processors And Applications	2021-22	Job Oriented - To study regarding Digital Signal Processors and applications
21D83202	Advanced Electric Ac Drives	2021-22	Research work - To know the Advanced Electric AC Drives
21D83203 A	Modern Power Electronics	2021-22	Research - To study regarding advances in Power Electronics
21D83203 b	Advanced Power Semiconductor Devices & Protection	2021-22	Research work - To study regarding Advanced Power Semiconductor Devices & Protection
21D83203 C	Electric Traction Systems	2021-22	Job Oriented - To know the Electric Traction Systems
21D83204 A	Facts Controllers	2021-22	Job Oriented - To study regarding FACTS Controllers
21D83204 B	Solar & Wind Energy Conversion Systems	2021-22	Job Oriented - To study regarding the Solar & Wind Energy Conversion Systems
21D83205	Power Converters And Drives Lab	2021-22	Practical - To develop the knowledge regarding Power Converters and Drives
21D83206	Digital Signal Processors Lab	2021-22	Practical - To develop the knowledge regarding the Digital Signal Processors
21D83208	Personality Development Through Life Enlightenment Skills	2021-22	Skills - To develop the skills and social responsibility
21D83303 A	AI Techniques To Electrical Engineering	2021-22	Skill Programme - To know the AI Techniques applicable to Electrical Engineering
21D83303 B	IOT Applications To Electrical Engineering	2021-22	job oriented - To know the IOT applications to Electrical engineering
21D83303 C	Special Machines And Controllers	2021-22	Research work - To know the Special Machines and Controllers

21D83304 A	Energy From Waste	2021-22	job oriented - To know the how to generate Energy from waste
21D83304 B	Industrial Power Electronics	2021-22	Industry - To study regarding the Industrial Power Electronics
21D83304 C	Hybrid Electric Vehicles.	2021-22	job oriented - To study regarding Hybrid Electric Vehicles.
21D83308	Co-Curricular Activities	2021-22	job oriented - To develop the skills and social responsibility
21D83309	Dissertation Phase -I	2021-22	Research work - To develop the research skills related to electrical engineering
21D83409	Dissertation Phase - Ii	2021-22	Research work - To develop the research skills related to electrical engineering
21S03102	Modern Pharmaceutics-I	2021-22	preformulation parameters, evaluation of functional properties of excipients, inprocess control of tablets, - To determine the physical and chemical properties
21S03101	Advanced Physical Pharmaceutics	2021-22	Mechanism of biodegradation of biodegradable polymers - Used for sustain release
17A15501	English	2017-18	Communication Skills - Develop facility in responding to a variety of situations and contexts calling for purposeful shifts in voice, tone, level of formality, design, medium, and/or structure
17A15101	Mathematics -I	2017-18	Practical - Develop skills in analyzing the methods for differential equation for obtaining appropriate solutions ‚Ä¢ Engineering concepts involving lengths of curves and areas of planes Flux across surfacesDevelop skills in analyzing the methods for differential equation for obtaining appropriate solutions ‚Ä¢ Engineering concepts involving lengths of curves and areas of planes Flux across surfaces
17A10101	Environmental Studies	2017-18	Field Work - Critical thinking: Demonstrate critical thinking skills in relation to environmental affairs. Communication: Demonstrate knowledge and application of communication skills and theability to write effectively in a variety of contexts
17A10102	Engineering Mechanics	2017-18	Research Work - To know about friction and their types, area moment of inertia, mass moment of inertia. Ability to know about kinematics, kinetics and concepts of mechanical vibrations.
17A10501	Problem Solving & Computer Programming	2017-18	Practical - Understand basic C-programming concepts, input and output formats, various control statements. Ability to develop programmes using arrays, strings and functions.
17A15303	Engineering Chemistry Lab	2017-18	Practical - Determine viscosity, pH, acidity, corrosion of water. Would feel comfortable to think of design materials with the requisite properties
17A13501	Engineering Workshop & It Workshop	2017-18	Practical - Would feel comfortable to think of design materials with the requisite properties
17A15502	English Language Communication Skills Lab.	2017-18	Communication Skils - Being an active participant in debates and group discussion, showing ability to express agreement, argument to summarize ideas to elicit the views of others and present own idea
17A25501	Technical Communication And Presentation Skills	2017-18	Communication Skils - Effective writing skills with the ability to use different styles for different situations Learn and use keys words, phrases and sentence structures making a mark in interviews and presentation skills
17A25101	Mathematics ‚Äiii	2017-18	Practical - Laplace transforms and their applications Develop analytical skills in solving the problems involving
17A25201	Engineering Physics	2017-18	Research Work - The different realms of physics and their applications in both scientific and technological systems are achieved through the study of physical optics, lasers and fiber optics
17A20301	Engineering Graphics I	2017-18	Practical - draw the projection of solids inclined to both the planes determine the true length and angle of projected lines
17A22401	Elements Of Electrical And Electronics Engineering	2017-18	Industrial Visit - Analyze the basics of AC & DC Circuits and know the performance characteristics of DC generators & motors.
17A20302	Material Science And Metallurgy	2017-18	Industrial Visit - the study the properties of ferrous and non ferrous materials. study about the ceramic and composite materials
17A20504	Computer	2017-18	Programming - Code and debug programs in C program language using

	Programming Lab		various constructs.
17A25202	Engineering Physics Lab	2017-18	Practical - The student will be able to analyze the physical principle involved in the various instruments, also relate the principle to new application.
17A22402	Electrical And Electronics Engineering Lab	2017-18	Practical - "Learn the basics of linear integrated circuits and understand characteristics of operational amplifier. Learn about available digital ICs and verify truth tables of logic gates and flip flops. "
17A35102	Mathematical Methods	2018-19	Practical - "Able to do the problems on Newton‚Äôs, Lagrange‚Äôs, Gauss ‚Stirling‚Äôs & Bessel‚Äôs formula. They are able to find solutions for ordinary differential equations. "
17A30106	Mechanics Of Solids	2018-19	Research Work - Deriving torsion equation for circular shafts and and finding deflection on beams. Critically analyse problem and solve the problems related to mechanical elements and analyse the deformation behavior for different types of loads.
17A30301	Thermodynamics	2018-19	Research Work - Judge the properties of pure substances and method drawing phase equilibrium diagrams like P-v, h-s, T-s and P-T of a pure substance, usage of steam tables and mollier diagrams Understand and analyse of ideal gas& gas mixtures, Gas Power Cycles, concept of ideal cycles for different engines and their working principle
17A30302	Kinematics Of Machines	2018-19	Research Work - Aquire the knowledge on different gear profiles and calculating the different parameters of gears.Gain the knowledge in designing of gear trains for the required purpose. Design and analyse different cam profile for different types of followers.
17A30303	Engineering Graphics-Ii	2018-19	Practical - Given with the 3D pictorial views, the student will be able to convert the figure to 2D orthographic view. Student shall develop to draw the perspective projections of planes and regular solids with the help of the given data.
17A30107	Fluid Mechanics And Hydraulics Machinery	2018-19	Research Work - Deriving equations when jet strikes on various and positions on vanes. Analyse the performance of turbines.
17A39901	Human Values & Professional Ethics(Audit)	2018-19	Internship - Identify ethical concerns in research and intellectual contexts, including academic integrity, use and citation of sources, the objective presentation of data, and the treatment of human subjects. Integrate, synthesize, and apply knowledge of ethical dilemmas and resolutions in academic settings, including focused and interdisciplinary research
17A30304	Material Science And Metallurgy Lab	2018-19	Practical - Ability to relate properties of microstructure. Understand various crystal structures.
17A30108	Fluid Mechanics And Hydraulic Machinery Lab	2018-19	Practical - Ability to Determine Coefficient of discharge for a small orifice and an external mouth piece and loss of head.Verifying the Bernoulli‚Äôs equation, determine the impact of jet on vanes.
17A30109	Mechanics Of Solids Lab	2018-19	Practical - Ability to perform different destructive testing. Ability to characteristic materials.
17A45401	Managerial Economics And Financial Analysis	2018-19	Field Work - "Analysis of financial statements and inputs therein will help them to make soundand effective decisions under different economic environment and market situations. "
17A45102	Probability And Statistics	2018-19	Practical - They can able to understand the different sample testslike t-test, F-test and Chi-square test. Analysis of Statistical Quality Control charts
17A40301	Manufacturing Technology	2018-19	Practical - Learn the types of welds and its defects , remedies destructive non-destructive testing of welds.
17A40302	Machine Drawing	2018-19	Practical - Carry out tolerance analysis and specify appropriate tolerances for machine design applications
17A40303	Thermal Engineering- I	2018-19	Practical - To be able to know about working principle of various types of air compressors and solve problems related to reciprocating air compressor.
17A40304	Dynamics Of Machinery	2018-19	Research Work - Determine the forces acting on various linkages when a mechanism is subjected to external forces. Identify and correct the unbalances of rotating body
17A45103	Exploratory Data Analysis Lab	2018-19	Practical - Analyze Data Sets using the Principles of Exploratory Data Analysis
17A40305	Manufacturing Technology Lab	2018-19	Practical - Design and manufacturing of simple pattern
17A40306	Computer Aided Drafting Lab	2018-19	Practical - Create solid models of various objects and machine parts.

19A15101	Linear Algebra And Calculus	2019-20	Practical - understand beta and gamma functions and its relations.
19A15301	Engineering Chemistry	2019-20	Research Work - Explain different types of polymers and their applications, Solve the numerical problems based on Calorific value, select suitable fuels for IC engines, explain calorific values, octane number, refining of petroleum and cracking of oils
19A10501	Problem Solving & Programming	2019-20	Programming - Construct his own computer using parts
19A10302	Engineering Workshop	2019-20	Practical - Apply wood working skills in real world applications.
19A10301	Engineering Graphics	2019-20	Practical - Plot the projection of points, Lines and planes
19A15302	Engineering Chemistry Lab	2019-20	Practical - Determine the cell constant and conductance of solutions
19A10506	Problem Solving & Programming Lab	2019-20	Programming - Analyze different sorting algorithms .Develop C programs which utilize the memory efficiently using programming constructs like pointers
19A12402	Basic Electrical & Electronics Engineering	2019-20	Research Work - Understand the basics of AC & DC circuits and AC & DC machines
19A15501	Communicative English 1	2019-20	Communication Skils - take notes while listening to a talk/lecture and make use of them to answer questions
19A15102	Differential Equations And Vector Calculus	2019-20	Practical - Find the work done in moving a particle along the path over a force field
19A15203	Engineering Physics	2019-20	Research Work - Understand the basics of mechanics and types of oscillations.
19A10305	Material Science And Metallurgy	2019-20	Research Work - Explain powder metallurgical methods, properties of composite materials and manufacturing methods of composite materials.
19A10306	Material Science And Metallurgy Lab	2019-20	Practical - Differentiate various microstructures of ferrous and non-ferrous metals and alloys.
19A10307	Mechanical Engineering Workshop	2019-20	Practical - Develop different weld joints.Assemble or disassemble of machine components
19A12403	Basic Electrical Engineering Lab	2018-19	Practical - Make moulds for sand casting.Assemble or disassemble of machine components
19A15502	Communicative English Lab-1	2019-20	Communication Skils - Analyze the English speech sounds, stress, rhythm, intonation and syllable division for better listening and speaking comprehension
19A15204	Engineering Physics Lab	2019-20	Practical - The student will be able to analyze the physical principle involved in the various instruments, also relate the principle to new application.
17A50301	Machine Tools	2019-20	Research Work - Hands on experience on lathe machine to perform turning, facing, threading operations.
17A50302	Power Plant Engineering	2019-20	Industry - Calculate the performance of gas turbines with reheat and regeneration, and discuss the benefit of combined cycle power plants.
17A50303	Design Of Machine Members-I	2019-20	Research Work - Understand the design process, properties of materials and machining considerations in design and able calibrate the stresses in machine members.
17A50305	Heat Transfer	2019-20	Research Work - To analyze problems involving steady state heat conduction in simple geometries with and without heat generation and analyze heat transfer situations in extended surfaces.
17A50306	Metal Forming	2019-20	Industry - Analyse the outline of extrusion forces characteristics and forces acting on cylindrical and non cylindrical components.
17A50307	Machine Tools Lab	2019-20	Practical - Use different machine tools to remove unwanted material from the work piece to produce final shape.
17A50308	Thermal Engineering Lab	2019-20	Practical - Shall acquire knowledge on stream flow through varying areas and capable of solving related problems and to understand functioning of steam condenser.
17A50309	Heat Transfer Lab	2019-20	Practical - Student can get the ideas on Parallel/counter flow heat exchanger apparatus.
17A60301	Industrial	2019-20	Industry - To understand where the plant is to be located based on facilities

			available and plant layout. And also able to understand plant layout design to facilitate material flow and processing of a product in the most efficient manner through the shortest possible time.
17A60302	Design Of Machine Members-II	2019-20	Research Work - Select suitable belt drives and associated elements from manufacturers catalogues under given loading conditions. Stresses applied in different types of beams.
17A60303	Operations Research	2019-20	Research Work - The sequencing and its types, application of PERT/CPM for project scheduling and concept of crashing the project schedule.
17A60304	Automobile Engineering	2019-20	Research Work - Ability to understand the thermodynamic principles behind the working of petrol and diesel engines.
17A60305	Refrigeration And Air Conditioning	2019-20	Research Work - Ability to understand various refrigeration systems.
17A65501	Advanced Communication Skills Lab	2019-20	Communication Skils - Develop language competency and become confident users of English in interviews, Group Discussions, and Public Speaking.
17A60307	Dynamics Lab	2019-20	Practical - Drawing of Cam profile, determination of torsional ,undamped and damped natural
17A60308	R & A/C Lab	2019-20	Practical - Determination of the cooling capacity and C.O.P. of evaporative condensing test rig.
20A15101	Linear Algebra & Calculus	2020-21	Practical - Evaluate double integrals of functions of several variables in two dimensions using Cartesian and polar coordinates
20A15301	Engineering Chemistry	2020-21	Research Work - Explain the constituents of Composites and its classification Identify the factors affecting the refractory material, Illustrate the functions and properties of lubricants
20A10506	C-Programming & Data Structures	2020-21	Research Work - Design applications in C, using functions, arrays, pointers and structures.
20A10804	Material Science & Engineering	2020-21	Research Work - Students can able to Study structure of different material. Select materials for design and construction.
20A10303	Engineering Workshop	2020-21	Practical - Student will be able to use the tools for the preparation of models in respective trades of engineering workshop.
20A10508	It Workshop	2020-21	Practical - Prepare the Documents using Word processors and Prepare spread sheets for calculations .using excel and also the documents using LAteX.
20A15302	Fundamental Chemistry Lab	2020-21	Practical - Determine the physical properties like surface tension, adsorption and viscosity
20A10805	Material Science & Engineering Lab	2020-21	Practical - Differentiate various microstructures of ferrous and non-ferrous metals and alloys.
20A15102	Differential Equations And Vector Calculus	2020-21	Research Work - Identify solution methods for partial differential equations that model physical processes
20A15203	Engineering Physics	2020-21	Research Work - The importance of superconducting materials, nano and smart materials along with their engineering applications are well elucidated.
20A15501	Communicative English	2020-21	Communication skills - Understand the context, topic, and pieces of specific information from social or transactional dialogues spoken by native speakers of English
20A12401	Basic Electrical & Electronics Engineering	2020-21	Research Work - Able to apply the knowledge of diodes, Zener diodes, BJT‚Äôs and FET‚Äôs for applications of different circuits.
20A10301	Engineering Drawing	2020-21	Practical - The student will be able to understand the principles of drawing,uses of drawing instruments and able to draw curves in conic section.
20A10302	Engineering Graphics Lab	2020-21	Practical - Draw isometric and orthographic drawings using CAD packages.
20A15502	Communicative English Lab	2020-21	Communication skills - learn different professional registers and specific vocabulary to describe different persons, places and objects
20A15204	Engineering Physics Lab	2020-21	Practical - Understand principle, concept, working and application of new technology and comparison of results with theoretical calculations.
20A12402	Basic Electrical & Electronics Engineering Lab	2020-21	Practical - Assemble or disassemble of machine components
20A19101	Universal Human Values	2020-21	Field work - Relate human values with human relationship and human society.
21D35101	Automation In	2021-22	Research Work - students are able to understand the types of flow lines,

	Manufacturing		quantitative analysis of flow lines
21D35101	Computer Aided Manufacturing	2021-22	Programming - Students are able to prepare CNC programs for manufacturing of different geometries on milling and lathe machines
21D35103 a	Precision Engineering	2021-22	Industry - Students are able to Evaluate the part and machine tool accuracies
21D35103 b	Special Manufacturing Processes	2021-22	Research Work - Students able to apply the reverse engineering process for product development
21D35103 c	Product Data Management	2021-22	Field work - Students able to Construct and manage product data using PLM/PDM technologies
21D35104 a	Design For Manufacturing And Assembly	2021-22	Industry - They are able to Design (optimum) a component which requires less material removal
21D35104 b	Advanced CAD	2021-22	Programming - Students become experts on Visualization and computer animation Techniques.
21D35104 c	Advanced Mechatronics	2021-22	Industry - They can able to Apply concepts of circuit analysis, automation and controls, motor, electronic drives, paper systems, instrumentation
21D35105	Automation Laboratory	2021-22	Practical - Students can able to Demonstrate the working of workspace software.
21D35106	Metal Cutting Laboratory	2021-22	Practical - Students Demonstrate the machining processes
21D35201	Simulation Of Manufacturing Systems	2021-22	Industry - Can able to Generation of random variants and variables.
21D35202	Quality Engineering In Manufacturing	2021-22	Industry - They can able to Apply of the user friendly software packages to simulate the manufacturing entities.
21D35203 a	Material Science & Technology	2021-22	Research Work - Students will get knowledge on mechanism of plastic deformation and strengthening mechanism
21D35203 b	¬† Industrial Robotics	2021-22	Programming - Students will be equipped with the Programming methods & various Languages of robots
21D35203 c	¬† Advanced Tool Design	2021-22	Research Work - They will know the knowledge of applications of different techniques learned above in the real world
21D35204 a	¬† Production & Operations Management	2021-22	Industry - Students can able to Understand the operations process, be able to analyze and solve problems pertaining to operations
21D35204 b	¬†¬†¬† Modeling Of Manufacturing Systems	2021-22	Programming - Students are expected to learn how to formulate and solve computational problems analysis in the flow of fluids
21D35204 c	¬† Optimization Techniques	2021-22	Research Work - Students can able to formulate and solve various practical optimization problems in manufacturing and service organizations
21D35205	Manufacturing Simulation Laboratory	2021-22	Practical - They can able to learn various softwares to design
21D35206	Advanced Cad/Cam Laboratory	2021-22	Practical - Students become experts on Visualization and computer animation Techniques.
21D34101	Computer Aided Engineering	2021-22	Programming - To enable students to formulate and solve engineering problems those are not amenable to analytical methods.
21D34102	Materials Technology	2021-22	Research Work - Apply the theory to fracture, fatigue and failure mechanisms
21D34103 a	Rapid Prototyping Technologies	2021-22	Research Work - Describe product development and classify rapid prototyping systems; explain various existing RPT technologies and their industrial applications
21D34103 b	Design Of Material Handling Equipments	2021-22	Industry - Design various hoisting elements like, chains, Hemp and wire ropes, Pulley systems, Sprockets & drums, forged hooks and eye hooks and Girders
21D34103 c	Mechanical Behavior Of Materials	2021-22	Industry - Solve realistic and/or fundamental problems relating to the mechanical behaviour of materials for individual solutions and tests.
21D34104 a	Composite Materials And Mechanics	2021-22	Industry - Critique and synthesise literature and apply the knowledge gained from the course in the design and application of fibre-reinforced composites
21D34104	Quality Concepts In	2021-22	Field work - Ability to design quality frameworks exploring industrial

b	Design		applications to ensure quality towards operational excellence
21D34104 c	Creativity And Innovations In Design	2021-22	Field work - Critically analyse theories of innovation and creativity
21D34105	Computer Aided Analysis & Design Lab	2021-22	Programming - Students gain and apply knowledge of advanced CAD concepts and techniques by using high-end CAD systems.
21D34106	Material Testing Lab	2021-22	Programming - To test several properties of material like ductility, surface roughness, malleability, hardenability etc.
21D34201	Design For Manufacturing	2021-22	Industry - Outline the appropriate design for economical production and select the materials
21D34202	Robust Design	2021-22	Industry - Design experiments to identify the main effects, interaction effects and their significance
21D34203 a	Product Planning And Marketing	2021-22	Research Work - Identify and analyse the strategic elements of product development processes
21D34203 b	Tribology In Design	2021-22	Research Work - To provide the knowledge and importance of Tribology in Design, friction, wear and lubrication aspects of machine components
21D34203 c	Design Of Hydraulic And Pneumatic Systems	2021-22	Industry - Provide a knowledge base of the main components of the hydraulic and pneumatic systems and their functions and symbols
21D34204 a	Advanced Metal Forming Techniques	2021-22	Industry - Analyze effect of parameters influencing metal forming and compare hot working and cold working with applications
21D34204 b	Quality Concepts In Product Development	2021-22	Industry - Learn the concept of technology transfer from R&D to production plant
21D34204 c	Reverse Engineering	2021-22	Industry - Understand the principles behind the design of the product, ways to redesign and improve the performance of the system
21D34205	Simulation Lab	2021-22	Programming - Solve simulation problems encountered in mechanical design, vibration analysis and CAD
21D34206	Modeling And Analysis Laboratory	2021-22	Practical - Develop programs for modeling the synthetic curves and surfaces and finite element code to solve problems involving Trusses, Beams and Frames
21D36101	Statistical Quality Control	2021-22	Industry - Perform analysis of process capability and measurement system capability
21D36102	Precision Engineering	2021-22	Industry - Evaluate the part and machine tool accuracies
21D36103 a	Quality Engineering In Manufacturing	2021-22	Industry - Analyze the data by using different performance analysis techniques
21D36103 b	Probability And Statistical Methods	2021-22	Practical - The course aims at providing the basic concepts of Probability and Statistical techniques for solving mathematical problems which will be useful in solving Engineering problems
21D36103 c	¬†¬†¬† Dimensional Metrology & Inspection	2021-22	Field Work - ¬†¬†¬† Identify and apply various measuring instruments
21D36104 a	¬†¬†¬†¬† Supply Chain Management	2021-22	field work - Analyze how supply chain decisions related to facility location can be applied to various industries and designing the supply chain.
21D31107	Research Methodology And IPR	2021-22	Research Work - To know the literature studies, plagiarism and ethics and analyze the nature of intellectual property rights and new developments
21D11108 a	English For Research Paper Writing	2021-22	Research Work - Understand that how to improve writing skills and level of readability
21D36104 b	¬† Technology Management	2021-22	Research Work - students will demonstrate through discussion boards, written assignments, and classroom presentation the ability to effectively apply the principles and practices of technology management to a real-world environment/enterprise
21D11108 b	Value Education	2021-22	Communication skills - Understand value of education and self- development
21D36104 c	¬† Data Analysis Techniques	2021-22	Research Work - To give delegates sufficient background and theoretical knowledge to be able to judge when an applied technique will likely lead to incorrect conclusions

Code	Course	Year	Description
21D11108 c	Pedagogy Studies	2021-22	Communication skills - Review existing evidence on the review topic to inform programme design and policy making undertaken by the DfID, other agencies and researchers
21D36105	Quality Engineering-1 Laboratory	2021-22	Practical - To improve digital product quality and reduce costs through more efficient processes
21D36106	Simulation-1 Laboratory	2021-22	Programming - To understand the various Simulation Processes
21D36201	Reliability Engineering	2021-22	Industry - Explain the basic concepts of Reliability Engineering and its Understand measures
21D36202	Lean Manufacturing And Six Sigma	2021-22	Field work - Analyze the effectiveness of lean manufacturing tools
21D36203 a	¬†¬†¬†¬†¬† Production And Operations Management	2021-22	Industry - Understand the operations process, be able to analyze and solve problems pertaining to operations.
21D36203 b	¬†¬†¬†¬† Software Quality Management	2021-22	Programming - Determine an appropriate project management approach through an evaluation of the business context and scope of the project
21D36203 c	¬†¬†¬†¬† Industrial Safety And Hygiene	2021-22	Industrial Visit - ¬†¬† An ability to identify, formulate, and solve broadly defined technical or scientific problems by applying knowledge of mathematics and science and/or technical topics to areas relevant to occupational safety and health.
21D36204 a	Optimization Techniques	2021-22	Research Work - Students can able to formulate and solve various practical optimization problems in manufacturing and service organizations
21D36204 b	¬†¬†¬† Reverse Engineering	2021-22	Research Work - Understand the principles behind the design of the product, ways to redesign and improve the performance of the system.
21D36204 c	¬†¬†¬†¬† Decision Support Systems	2021-22	Research Work - To discuss and develop skills in the analysis, design and implementation of computerized Decision Support Systems.
21D36205	Quality Engineering-Ii Laboratory	2021-22	Practical - The goal of quality engineers is to maintain the production process as efficiently and effectively as possible while still ensuring that the finished products are safe, dependable, and satisfy customer expectations
21D36206	Simulation-Ii Laboratory	2021-22	Programming - Students able to learn various softwares to design
19A20301	Thermodynamics	2020-21	Research Work - Understand the concepts of entropy, availability, irreversibility, steady flow and non-flow process
19A20302	Manufacturing Process	2020-21	Industry - Understand the hot and cold metal forming methods for rolling, extrusion and forging.
19A20303	Design Thinking And Product Innovation	2020-21	Industry - Identify new materials and manufacturing methods in design of agriculture machines and electrical vehicles
19A20304	Machine Drawing	2020-21	Practical - Develop assembly drawings from part drawings for machine parts and valves.
19A20305	Computer Aided Drafting Lab	2020-21	Practical - Ability to use the software packages for drafting and modelling
19A20306	Manufacturing Process Lab	2020-21	Practical - Fabricate different types of components using various manufacturing techniques
19A20307	Design Thinking And Product Innovation Lab	2020-21	Practical - To develop 3D models using 3D printing
19A10804	Environmental Science	2020-21	Field work - To make the students to get awareness on environment
19A20308	Thermal Engineering	2020-21	Research Work - Understand the effect of meta stable flow/ super saturation flow through nozzle.
19A20309	Kinematics Of Machinery	2020-21	Research Work - Find the velocity and acceleration of the follower for different types of follower motion
19A21302	Mechanics Of Materials	2020-21	Research Work - Critically analyse problem and solve the problems related to mechanical elements and analyse the deformation behavior for different types of loads.
19A21303	Fluid Mechanics& Hydraulic Machinery	2020-21	Research Work - Can critically analyse the performance of pumps and turbines.

19A20310	Machine Tools	2020-21	Industry - Hands on experience on lathe machine to perform turning, facing, threading operations.
19A21305	Fluid Mechanics& Hydraulic Machinery Lab	2020-21	Practical - Ability to Determine Coefficient of discharge for a small orifice and an external mouth piece and loss of head.
17A70301	Cad /Cam	2020-21	Practical - Implement appropriate suitable production systems and computer aided quality control.
17A70302	Finite Element Methods	2020-21	Industry - Able to solve problems on steady state heat flow and fluid flow problems inID &2D
17A70303	Instrumentation And Control Systems	2020-21	Industry - Understand the basic principles and performance characteristics of measurement.
17A70304	Engineering Metrology	2020-21	Industry - Choose measuring instruments suitable for specific application
17A70305	Entrepreneurship (Open Elective)	2020-21	Field work - Analyze the role of banks and other financial institutions in promoting entrepreneurship in India
17A70306	Elective ‚Äì I (Energy Management)	2020-21	Field work - Evaluate the depreciation and cost analysis.
17A70307	Cad/Cam Lab	2020-21	Practical - Implement CNC part Programme for manufacturing various profiles.
17A70308	Instrumentation And Metrology Lab	2020-21	Practical - Measurement of displacement by using light Dependent Resistor
17A70309	Computer Aided Engineering Lab	2020-21	Practical - Acquire knowledge on thermal analysis using analysis software packages.
17A80301	Elective ‚Äì I (Production And Operations Management)	2020-21	Industry - Understand the factors effect the location and different types of layouts.
17A80302	Elective ‚Äì II (Non Conventional Sources Of Energy)	2020-21	Field work - Availability of solar energy, its measurement and performance.
17A80303	Elective ‚Äì Iii (Mechatronics)	2020-21	Research Work - Students can able to know the structure, programming and selection of PLC
17A80304	Elective ‚Äì Iv(Modern Manufacturing Methods)	2020-21	Industry - They can able to study the principles of EDM,EDG,PM ,its applications.
20A35102	Theory-1 Complex Variables, And Transforms Techniques	2021-22	Practical - Understand the use of Fourier transforms and apply Z transforms to solve difference equations.
20A30108	Theory-2 Fluid Mechanics& Hydraulic Machines	2021-22	Practical - Can critically analyse the performance of pumps and turbines.
20A30301	Theory-3 Manufacturing Processes	2021-22	Industry - Understand the hot and cold metal forming methods for rolling, extrusion and forging.
20A30302	Theory-4 Thermodynamics	2021-22	Research Work - Understand the Œ§ds equations, specific heats, Joule-Thomson coefficient in standard form, change in internal energy, enthalpy and entropy.
20A30303	Theory-5 Mechanics Of Materials	2021-22	Research Work - Critically analyse problem and solve the problems related to mechanical elements and analyse the deformation behavior for different types of loads.
20A30109	Laboratory-1 Fluid Mechanics& Hydraulic Machines Lab	2021-22	Practical - Ability to Determine Coefficient of discharge for a small orifice and an external mouth piece and loss of head.
20A30304	Laboratory-2 Manufacturing Processes Lab	2021-22	Practical - Fabricate different types of components using various manufacturing techniques
20A30305	Laboratory-3	2021-22	Practical - By performing the various tests in this laboratory the student will

Code	Subject	Year	Outcome
	Mechanics Of Materials Lab		be able to know the structural behavior of various structural elements when subjected to external loads
20A30306	Essential For NX Designer	2021-22	Industry - Create and edit basic assembly structures.
20A10803	Mandatory Non-Credit Course- II (Environmental Science)	2021-22	Field work - Understand various causes of pollution and solid waste management and related preventive measures.
20A45101	Theory-1 Numerical Methods &Probability Theory	2021-22	Practical - understand various probability distributions and calculate their statistical constants.
20A40301	Theory-2 Applied Thermodynamics	2021-22	Industry - Understand the working of IC engines with combustion process
20A40302	Theory-3 Kinematics Of Machinery	2021-22	Research Work - Understand principle of operation of different gear trains for different purpose
20A40303	Theory-4 Manufacturing Technology	2021-22	Industry - Calculate the machining parameters for different machining processes
20A49101 a	1.Managerial Economics & Financial Analysis	2021-22	Industry - To provide fundamental skills on Accounting and to explain the process of preparing Financial statements
20A49101 b	Organizational Behavior	2021-22	Communication skills - Understand the nature and concept of Organizational behaviour
20A49101 c	Business Environment	2021-22	Field work - Develop a personal synthesis and approach for identifying business opportunities
20A40304	Laboratory-1 Applied Thermodynamics Lab	2021-22	Practical - Illustrate the working of refrigeration and air conditioning systems
20A40305	Laboratory-2 Manufacturing Technology Lab	2021-22	Practical - Get hands on experience on various machine tools and machining operations.
20A40306	Laboratory-3 Computer Aided Machine Drawing	2021-22	Practical - Demonstrate the conventional representations of materials and machine components.
19A50301	Heat Transfer	2021-22	Research Work - Design of thermal shields using the concepts of black body and non-black body radiation
19A50302	Dynamics Of Machinery	2021-22	Research Work - Determine the forces acting on various linkages when a mechanism is subjected to external forces.
19A50303	Operation Research	2021-22	Research Work - Be able to build and solve Transportation and Assignment problems using appropriate method.
19A50305	Alternative Fuels For IC Engines	2021-22	Research Work - Analyze the implement limitations with regard to performance, emission and materials compatibility
19A50306	Material Handling Equipments	2021-22	Research Work - The students will be able to select appropriate location for establishing industrial plants by applying the concepts of location selection.
19A50307	Optimization Techniques	2021-22	Practical - apply classical optimization techniques, linear programming, simplex algorithm,
19A50308	Energy Management	2021-22	Field work - Apply the principles energy management for conservation.
19A50309	¬†¬†¬† Rapid Prototyping	2016-17	Practical - Applying of measurement and scaling technique for prototype manufacturing.
19A50514	Python Programming	2021-22	Practical - Ability to know basics of computer and software engineering
19A50310	Design Of Machine Members-I	2021-22	Industry - Understand the design process, properties of materials and machining considerations in design and able calibrate the stresses in machine members.
19A50311	Thermal Engg. Lab	2021-22	Research Work - Evaluating the Air/Fuel Ratio and Volumetric efficiency of an I.C.Engines & Performance of Air - Compressors
19A55101	Exploratory Data Analysis Lab	2021-22	Practical - Explain and present the Findings in the Data Sets, after the Analysis is complete
19A50312	Machine Tools Lab	2021-22	Practical - Use different machine tools to remove unwanted material from the work piece to produce final shape.

19A55401	Research Methodology	2021-22	Research Work - Analyze the importance of research articles in their academic discipline
19A60301	Modern Manufacturing Methods	2021-22	Industry - They can able to study the principles of EDM,EDG,PM ,its applications.
19A60302	Design Of Machine Members-II	2021-22	Research Work - elect suitable engine parts and associated elements from manufacturers catalogues under given loading conditions.
19A65501	English Language Skills	2021-22	Communication skills - To understand various listening components that includes listening comprehension of gist and detailed information.
19A60304	¬† Turbo Machinery	2016-17	Research Work - Calculating the efficiencies of axial flow gas turbines and analyzing their performance thermodynamically.
19A60305	Productions And Operations Management	2021-22	Industry - Analyze different Aggregate planning Strategies and Inventory control methods .
21D33101	Advanced Thermodynamics	2020-21	Research Work - Relate course principles to solve problems regarding gas turbines, combustion, refrigeration, and solar energy
21D33102	Advanced Heat & Mass Transfer	2021-22	Research Work - On successful completion of this course the student will be able to apply the law of thermodynamics to engines.
21D33103 a	Combustion And Emission In Engines.	2021-22	Research Work - On successful completion of this course the student will be able to understand the concept of the combustion in engines.
21D33103 b	¬†¬† Engine Auxiliary Systems	2021-22	Research Work - Understand the various design constraints and the types of intake and exhaust manifolds.
21D33103 c	Electronic Engine Management System	2021-22	Research Work - OnsuccessfulcompletionofthiscoursethestudentwillbeabletounderstandaboutElectronicEngineManagementSystems
21D33104 a	¬†¬†¬†¬† Alternative Fuels For I.C.Engines	2021-22	Research Work - Onsuccessfulcompletionofthiscoursethestudentwillbeabletounderstandabout the usage of alternative fuels in IC Engines and its effect on environment
21D33104 b	Theory Of Fuels & Lubricants	2021-22	Research Work - Onsuccessfulcompletionofthiscoursethestudentwillbeabletounderstandaboutmanufacturing and testing of fuels and Lubricants.
21D33104 c	Advanced Fluid Mechanics	2021-22	Research Work - Derive the governing equations of fluid flow and applying them to simple flow problems
21D33105	Performance Testing Of Internal Combustion Engines Laboratory	2021-22	Practical - Onsuccessful completion ofthiscoursethestudentwill beable tohave hands onexperience in Operation,testingofengines.
21D33106	Advanced Heat Transfer Laboratory	2021-22	Practical - Perform the transient heat conduction experiment and obtain variation of temperature along the length of the pin fin.
21D33201	Internal Combustion Engine Design.	2021-22	Industry - The student would have gained an insight/understanding on the rudiments of piston engine design philosophy as a prelude to higher level design activities for varied applications.
21D33202	Engine Pollution And Control	2021-22	Field work - Aware of US,Euro,Japan and Indian emission norms, standards CVS sampling and test procedures. Analyse in-cylinder emission control methods such as EGR, air injection, fuel modifications, water injection, ignition and injection timing.
21D33203 a	Hybrid And Electric Vehicles	2021-22	Research Work - Gain knowledge on motor controllers and control systems & energy storages
21D33203 b	Autotronics And Vehicle Intelligence	2021-22	Research Work - Analyze the sensors and their applications
21D33203 c	Automotive Electrical And Electronics	2021-22	Research Work - Develop the knowledge on charging system.
21D33204 a	¬†¬† Computational Fluid Dynamics For Thermal Systems	2021-22	Programming - On successful completion of this course the student will be able to apply concept of CFD to analyze flow in thermal systems
21D33204 b	Automotive Safety	2021-22	Research Work - To get the knowledge in sensors provided in the vehicle to avoid the crash
21D33204 c	Supercharging And Scavenging	2021-22	Research Work - analyze the classification of scavenging systems and charging processes in two stroke engines.
21D33205	Testing Of	2021-22	Practical - the students will be able to have hands on experience in Operation,

	Combustion & Emission Of IC Engines Laboratory		testing of engines.
21D33206	Engine Design Laboratory	2021-22	Practical - Design and draw the IC engine valve for both inlet and exhaust as per the engine specification.
21D31101	Advanced Refrigeration	2021-22	Research Work - To analyze the vapour compression cycle and interpret the usage of refrigerants.
21D31102	Advanced Thermodynamics	2021-22	Research Work - To apply the laws of statistical and classical thermodynamics to chemically reactive systems, kinetics, and combustion.
21D31103 a	¬†¬† Conduction And Radiation Heat Transfer	2021-22	Research Work - Apply suitable methods to solve various Conduction formulations and setup basic techniques to analyze physical system
21D31103 b	Design Optimization	2021-22	Industry - Optimize the cost function in deciding economic factors of power systems
21D31103 c	¬† Food Preservation Techniques	2021-22	Industry - significance and relevance to the area of study with feedback on your selection, review and critical appraisal of literature.
21D31104 a	Principles Of Air Conditioning	2021-22	Research Work - To Propose psychrometry application and to design different HVAC systems,air distribution in rooms through ducts
21D31104 b	Cryogenic Engineering	2021-22	Research Work - Design low temperature system by considering properties and principles of mixtures
21D31104 c	Solar Refrigeration And Air Conditioning	2021-22	Research Work - students will able to state the Psychometric and (Air-conditioning) cooling load calculations-outline of Vapour Compression Refrigeration Systems
21D31105	Refrigeration Laboratory	2021-22	Practical - Evaluate the performance of the Vapor compression and Air conditioning units
21D31106	Heat Transfer Laboratory	2021-22	Practical - Estimate heat transfer coefficients in forced convection, free convection and determine effectiveness of heat exchangers
21D31107	Research Methodology And IPR	2021-22	Research Work - Understand research problem formulation, analyze research related information and follow research ethics
21D11108 a	English For Research Paper Writing	2021-22	Research Work - Analyze and write title, abstract, different sections in research paper and develop the skills needed while writing a research paper
21D11108 b	¬† Value Education	2021-22	Communication skills - To Understand value of education and self-developmen
21D11108 c	¬†¬† Pedagogy Studies	2016-17	Communication skills - The pedagogical practices are being used by teacher‚Äôs informal and informal class rooms in developing countries
21D31201	Design Of Air-Conditioning Systems	2021-22	Research Work - To get knowledge of the basic design principles of building survey & cooling load estimation, analys design of the Room air distribution
21D31203	Convective Heat And Mass Transfer	2021-22	Research Work - Understand the hydrodynamic, thermal boundary layer concept and the relationship between fluid friction and heat transfer.
21D31203 a	¬†¬† Refrigeration Equipments & Control	2021-22	Practical - Students able to identify and describe types of Compressors,Condensers, and Evaporative
21D31203 b	¬† Design Of Heat Transfer Equipment	2021-22	Research Work - able to state the Exchangers-mean temperature differences for parallel and counter flow - effectiveness method
21D31203 c	Advanced Thermal Storage Technologies	2021-22	Research Work - To describe Basic concepts and modeling of heat storage units - modeling of simple water and rock bed storage system
21D31204 a	¬†¬† Advanced Fluid Mechanics	2021-22	Research Work - To derive the governing equations of fluid flow and applying them to simple flow problems.
21D31204 b	Design Of HVAC Systems	2021-22	Research Work - Will be able to describe Psychrometric processes using chart Load Estimation, fundamentals of air flow in ducts, pressure drop calculations, design ducts by velocity reduction method.
21D31204 c	Energy Conservation And Management	2021-22	Research Work - Ability to understand the basic concept of energy conservation and its role in energy management
21D31205	Air-Conditioning Laboratory	2021-22	Practical - Ability to apply the theoretical knowledge to solve problems in Heat Power Engineering.
21D31206	Advanced Fluid	2021-22	Practical - Able to understand course to make the students understand the

	Mechanics Lab		fluid flow concepts and get familiarity with flow measuring devices.
21D32101	Conduction And Radiation Heat Transfer	2021-22	Research Work - Examine several means and assumptions for analyze radiation heat transfer problems. Acquired knowledge to develop systems suitable for Industrial applications.
21D32102	Renewable Energy Sources	2021-22	Research Work - Demonstrate the generation of electricity from various Non-Conventional sources of energy, have a working knowledge on types of fuel cells.
21D32103 a	Energy Management	2021-22	Research Work - Describe the energy rate structures. Examine the economic evaluation of energy conservation solutions
21D32103 b	Direct Energy Conversion Systems	2021-22	Research Work - Stand alone and grid connected and load estimation.Transport and storage of hydrogen physical,
21D32103 c	Applied Solar Energy Engineering	2021-22	Research Work - Capability to do basic design of solar energy systems
21D32104 a	Reliability & Safety Engineering	2021-22	Research Work - Developing the Monitoring techniques Signature analysis-vibration. Identifying Fault detection, non-destructive testing
21D32104 b	Data Acquisition And Processing System	2021-22	Practical - Ability to Design of 8085:block diagram
21D32104 c	Design Of Heat Transfer Equipment	2021-22	Research Work - Design Of Heat Exchangers, condensers evaporators, compressors, cooling towers,ducts, fans and piping systems
21D32105	Core Lab - I Energy Utilization Laboratory	2021-22	Practical - Understanding the estimation of energy saving. Estimate the solar power by centrifugal pump
21D32106	Core Lab ‚Äì Ii Thermal Energy Laboratory	2021-22	Practical - Create the solar collector for collecting the heat. analyse the energy audit
21D32201	Energy Conservation And Audit	2021-22	Research Work - To apply the knowledge of mathematics, science and engineering fundamentals to model the energy conversion phenomenon.
21D32202	Energy Efficient Electrical Systems	2021-22	Research Work - Demonstrate an understanding of the fundamental control practices associated with rotating machines (starting, reversing, braking, speed control etc.
21D32203 a	Waste Heat Recovery Systems	2021-22	Research Work - fundamental knowledge in energy generation, heat transfer in thermal engineering.
21D32203 b	Total Quality Management	2021-22	Research Work - research skills that will allow them to keep abreast of changes in the field of Total Quality Management
21D32203 c	Solar Refrigeration & Air Conditioning	2021-22	Research Work - cooling load for solar refrigeration systems.cooling capacity and coefficient of performance by conducting test on vapour compression refrigeration systems.
21D32204 a	Design Of Wind Energy Systems	2021-22	Research Work - Ability to Design of wind mill.
21D32204 b	Energy Resources	2021-22	Research Work - future projections of consumption pattern - Sector-wise energy consumption.
21D32204 c	Optimization Of Engineering Design	2021-22	Research Work - sensitivity analysis. for change in the constraints
21D32205	Core Lab - I Energy Operations Lab	2021-22	Practical - Know the drag force and lift for wind tunnel
21D32206	Core Lab ‚Äì Ii Renewable Energy Systems Laboratory	2021-22	Practical - Develop the hydel power and wind power systems

Links for supporting documents for Courses with focus on Employability/ New courses introduced

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Advanced Biopharmaceutics & Pharmacokinetics 21S03103 https://jntua.ac.in/qa1.html?link=7-2023-25-3630-Advanced Biopharmaceutics & Pharmacokinetics.pdf

Modern Pharmaceutics -I lab 21S03104 https://jntua.ac.in/qa1.html?link=7-2023-25-4223-Modern Pharmaceutics -I lab.pdf

C-PROGRAMMING & DATA STRUCTURES 20A05201T https://jntua.ac.in/qa1.html?link=8-2023-3-5111-JNTUA-R20-BTech-CSE-1 CProgramming & Data structures.pdf

IT WORKSHOP 20A05202 https://jntua.ac.in/qa1.html?link=8-2023-3-5556-JNTUA-R20-BTech-CSE-1 IT Workshop.pdf

BASIC ELECTRICAL & ELECTRONICS ENGINEERING 19A02201T https://jntua.ac.in/qa1.html?link=5202262557-R 19 syllabus 1.pdf

BASIC ELECTRICAL & ELECTRONICS ENGINEERING 19A02201T https://jntua.ac.in/qa1.html?link=8-2023-4-2810-BASIC ELECTRICAL & ELECTRONICS ENGINEERING.pdf

BASIC ELECTRICAL & ELECTRONICS ENGINEERING 19A02201T https://jntua.ac.in/qa1.html?link=8-2023-3-756-BASIC ELECTRICAL & ELECTRONICS ENGINEERING.pdf

PROBABILITY AND STATISTICS 19A54202 https://jntua.ac.in/qa1.html?link=8-2023-3-1350-PROBABILITY AND STATISTICS.pdf

C-PROGRAMMING & DATA STRUCTURES LAB 20A05201P https://jntua.ac.in/qa1.html?link=8-2023-3-4232-JNTUA-R20-BTech-CSE-1 C Programming and Datastructures lab.pdf

DATA STRUCTURES 19A05201T https://jntua.ac.in/qa1.html?link=8-2023-3-1252-DATA STRUCTURES.pdf

COMPUTER SCIENCE AND ENGINEERING WORKSHOP 19A05202 https://jntua.ac.in/qa1.html?link=8-2023-3-1041-COMPUTER SCIENCE AND ENGINEER WORKSHOP.pdf

PROBABILITY AND STATISTICS 20A54202 https://jntua.ac.in/qa1.html?link=5202265843-JNTUA-R20-BTech-CSE-1 b.tech.pdf

PROBABILITY AND STATISTICS 20A54202 https://jntua.ac.in/qa1.html?link=8-2023-3-3140-JNTUA-R20-BTech-CSE-1 PROBABILITY AND STATISTICS.pdf

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DATA STRUCTURES LAB 19A05201P https://jntua.ac.in/qa1.html?link=8-2023-3-1142-DATA STRUCTURES LAB.pdf

DATA STRUCTURES LAB 19A05201P https://jntua.ac.in/qa1.html?link=8-2023-3-1149-DATA STRUCTURES LAB.pdf

MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE 19A54303 https://jntua.ac.in/qa1.html?link=8-2023-3-2125-MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE.pdf

DIGITAL LOGIC DESIGN 19A05301 https://jntua.ac.in/qa1.html?link=8-2023-3-1913-DIGITAL LOGIC DESIGN.pdf

DESIGN THINKING 19A99304 https://jntua.ac.in/qa1.html?link=8-2023-3-1736-DESIGN THINKING.pdf

DATABASE MANAGEMENT SYSTEMS 19A05302T https://jntua.ac.in/qa1.html?link=8-2023-3-1630-DATABASE MANAGEMENT SYSTEMS.pdf

OBJECT ORIENTED PROGRAMMING THROUGH JAVA 19A05303T https://jntua.ac.in/qa1.html?link=8-2023-3-2328-OBJECT ORIENTED PROGRAMMING T JAVA.pdf

DATABASE MANAGEMENT SYSTEMS LABORATORY 19A05302P https://jntua.ac.in/qa1.html?link=8-2023-3-156-DATABASE MANAGEMENT SYSTEMS LABORATORY.pdf

PYTHON PROGRAMMING & DATA SCIENCE 20A05101T https://jntua.ac.in/qa1.html?link=520226019-JNTUA-R20-BTech-CSE-1 b.tech.pdf

PYTHON PROGRAMMING & DATA SCIENCE 20A05101T https://jntua.ac.in/qa1.html?link=8-2023-3-5834-JNTUA-R20-BTech-CSE-1 PYTHON PROGRAMM DATA SCIENCE.pdf

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PYTHON PROGRAMMING LABORATORY 19A05304P https://jntua.ac.in/qa1.html?link=8-2023-3-2422-PYTHON PROGRAMMING LABORATORY.pdf

NUMBER THEORY AND APPLICATIONS 19A54401 https://jntua.ac.in/qa1.html?link=8-2023-4-427-NUMBER THEORY AND APPLICATIONS.pdf

COMPUTER ORGANIZATION 19A05401 https://jntua.ac.in/qa1.html?link=8-2023-4-017-COMPUTER ORGANIZATION.pdf

DESIGN AND ANALYSIS OF ALGORITHMS 19A05402T https://jntua.ac.in/qa1.html?link=8-2023-4-158-DESIGN AND ANALYSIS OF ALGORITHMS.pdf

ENTREPRENEURSHIP 19A52401 https://jntua.ac.in/qa1.html?link=8-2023-4-316-ENTREPRENEURSHIP.pdf

SOFTWARE ENGINEERING 19A05404T https://jntua.ac.in/qa1.html?link=8-2023-4-1432-SOFTWARE ENGINEERING.pdf

OPERATING SYSTEMS LAB 19A05403P https://jntua.ac.in/qa1.html?link=8-2023-4-1124-OPERATING SYSTEMS LAB.pdf

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ARTIFICIAL INTELLIGENCE 19A05502T https://jntua.ac.in/qa1.html?link=8-2023-4-184-AI III-1.pdf

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COMPUTER NETWORKS 19A05504T https://jntua.ac.in/qa1.html?link=8-2023-4-4644-computer networks iii-i.pdf

DATA WAREHOUSING AND DATA MINING 19A05505a https://jntua.ac.in/qa1.html?link=8-2023-4-5258-datamining and data warehousing iii-i.pdf

WEB TECHNOLOGIES 19A05505b https://jntua.ac.in/qa1.html?link=8-2023-4-3349-web technologies iii-i.pdf

MOBILE APPLICATION DEVELOPMENT 19A05505C https://jntua.ac.in/qa1.html?link=8-2023-4-2150-MAD III-i.pdf

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& DATA SCIENCE LAB.pdf

INTRODUCTION TO HYBRID AND ELECTRIC VEHICLES 19A03506a https://jntua.ac.in/qa1.html?link=8-2023-4-1640-intro to hybrid and electric vehicles o
i.pdf

COMPUTER APPLICATIONS IN FOOD INDUSTRY 19A27506b https://jntua.ac.in/qa1.html?link=8-2023-4-4439-computer application in food industry oe-
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Advanced Data Structures & Algorithms 20A05301T https://jntua.ac.in/qa1.html?link=8-2023-3-48-II-BTech-CSE-R20-Advanced Data Structures & Algor

FUNCTIONAL ENGLISH 15A52101 https://jntua.ac.in/qa1.html?link=8-2023-3-116-(15A52101) FUNCTIONAL ENGLISH.pdf

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Object Oriented Programming Through Java 20A05302T https://jntua.ac.in/qa1.html?link=5202263128-II-BTech-CSE-R20-Regulation-ii b.tech2.pdf

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Computer Organization 20A05303 https://jntua.ac.in/qa1.html?link=8-2023-3-4810-II-BTech-CSE-R20-Regulation-Computer Organization.pdf

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Software Engineering 20A05403T https://jntua.ac.in/qa1.html?link=8-2023-3-5224-II-BTech-CSE-R20-Software Engineering.pdf

Business Environment 20A52303 https://jntua.ac.in/qa1.html?link=8-2023-3-631-II-BTech-CSE-R20-Business Environment.pdf

Database Management Systems Laboratory 20A05401P https://jntua.ac.in/qa1.html?link=8-2023-3-1841-II-BTech-CSE-R20-database Management Syst

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Computer Networks Laboratory 19A05504P https://jntua.ac.in/qa1.html?link=8-2023-4-3738-CN lab iii-i.pdf

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CRYPTOGRAPHY AND NETWORK SECURITY 19A05601 https://jntua.ac.in/qa1.html?link=8-2023-4-5131-cryptography and network security iii-ii.pdf

DATA STRUCTURES 15A05201 https://jntua.ac.in/qa1.html?link=8-2023-3-1613-B.tech I.II (15A05201) DATA STRUCTURES.pdf

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COMPILER DESIGN 19A05603a https://jntua.ac.in/qa1.html?link=8-2023-4-4151-compiler design pe-ii iii-ii.pdf

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INTRODUCTION TO MACHINE LEARNING 19A05603b https://jntua.ac.in/qa1.html?link=8-2023-4-198-intro to machine learning pe-11 iii-ii.pdf

ENGLISH LANGUAGE COMMUNICATION SKILLS (ELCS) LAB 15A52102 https://jntua.ac.in/qa1.html?link=8-2023-3-421-5202263156-75_4. B.Tech. ECE R1 15.pdf

REAL TIME SYSTEMS 19A05603c https://jntua.ac.in/qa1.html?link=8-2023-4-2854-realtime systems pe-2 3-2.pdf

ADVANCED COMPUTER ARCHITECTURE 19A05603d https://jntua.ac.in/qa1.html?link=8-2023-4-1650-advanced computer architecture pe-2 3-2.pdf

Computer Vision 19A05603e https://jntua.ac.in/qa1.html?link=8-2023-4-5011-computer vision pe-2 3-2.pdf

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DATABASE MANAGEMENT SYSTEMS 15A05301 https://jntua.ac.in/qa1.html?link=8-2023-3-739-B.Tech II.I (15A05301) DATABASE MANAGEMENT SYSTEM

BASIC ELECTRICAL AND ELECTRONICS ENGINEERING 15A99301 https://jntua.ac.in/qa1.html?link=8-2023-3-117-B.Tech II.I (15A99301) BASIC ELECTRICA ELECTRONICS ENGINEERING PART – A.pdf

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MICROPROCESSORS & INTERFACING 15A04407 https://jntua.ac.in/qa1.html?link=8-2023-3-2732-B.Tech II.II (15A04407) MICROPROCESSORS & INTERF,

DATA COMMUNICATIONS & NETWORKING 15A04704 https://jntua.ac.in/qa1.html?link=8-2023-3-3150-5202263156-75_4._B.Tech._ECE R15-92.pdf

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2.pdf

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CHEMISTRY LAB 20A51101P https://jntua.ac.in/qa1.html?link=8-2023-4-3859-5202214425-JNTUA-R20-B.Tech-EEE-Course-Structure-20-21-45.pdf

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DC MACHINES & TRANSFORMERS 20A02302T https://jntua.ac.in/qa1.html?link=8-2023-4-2742-II-B.Tech .-EEE-R20-Course-Structure-Syllabi-8-9-2021-

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BASICS OF VLSI 19A04604a https://jntua.ac.in/qa1.html?link=8-2023-4-220-5202211941-R19 - B.Tech. - Electrical & Electronics Engineering - Course Str
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AC MACHINES LAB 20A02402P https://jntua.ac.in/qa1.html?link=8-2023-4-4811-II-B.Tech .-EEE-R20-Course-Structure-Syllabi-8-9-2021-38.pdf

CIRCUITS SIMULATION AND ANALYSIS USING PSPICE 20A02404 https://jntua.ac.in/qa1.html?link=8-2023-4-4454-II-B.Tech_.-EEE-R20-Course-Structure-9-2021-39.pdf

Principles of Food Engineering-I 15A27301 https://jntua.ac.in/qa1.html?link=5202215040-jntua cek fdt R15_2018-2022.pdf

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Cereals, Pulses & Oilseeds Processing Technology 15A27306 https://jntua.ac.in/qa1.html?link=520221546-jntua cek fdt R15_2018-2022.pdf

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Food Microbiology Lab 15A27307 https://jntua.ac.in/qa1.html?link=5202215457-jntua cek fdt R15_2018-2022.pdf

Food Product Lab-I (Cereals, Pulses & Oilseeds) 15A27308 https://jntua.ac.in/qa1.html?link=5202215536-jntua cek fdt R15_2018-2022.pdf

Fluid Mechanics in Food Process Engineering 15A27402 https://jntua.ac.in/qa1.html?link=5202215757-jntua cek fdt R15_2018-2022.pdf

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Mechanical Operations & Material Handling 15A27405 https://jntua.ac.in/qa1.html?link=52022128-jntua cek fdt R15_2018-2022.pdf

Food Chemistry 15A27403 https://jntua.ac.in/qa1.html?link=5202215833-jntua cek fdt R15_2018-2022.pdf

Fluid Mechanics Lab 15A27406 https://jntua.ac.in/qa1.html?link=520221242-jntua cek fdt R15_2018-2022.pdf

Fruit and Vegetable Processing 15A27404 https://jntua.ac.in/qa1.html?link=520221134-jntua cek fdt R15_2018-2022.pdf

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Food Analysis 15A27505 https://jntua.ac.in/qa1.html?link=520221732-jntua cek fdt R15_2018-2022.pdf

Food Product Lab-II (Fruits and Vegetables) 15A27508 https://jntua.ac.in/qa1.html?link=520221930-jntua cek fdt R15_2018-2022.pdf

Food Business Management 15A27506 https://jntua.ac.in/qa1.html?link=52022188-jntua cek fdt R15_2018-2022.pdf

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Food Quality & Sensory Evaluation of Food Products 15A27601 https://jntua.ac.in/qa1.html?link=5202211012-jntua cek fdt R15_2018-2022.pdf

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Food Safety and Standards 15A27701 https://jntua.ac.in/qa1.html?link=5202212451-jntua cek fdt R15_2018-2022.pdf

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Mass Transfer Lab 15A27609 https://jntua.ac.in/qa1.html?link=5202212337-jntua cek fdt R15_2018-2022.pdf

Food Product Lab-III (Meat, Poultry & Fish) 15A27610 https://jntua.ac.in/qa1.html?link=5202212411-jntua cek fdt R15_2018-2022.pdf

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Food Extrusion Technology 15A27705 https://jntua.ac.in/qa1.html?link=5202212826-jntua cek fdt R15_2018-2022.pdf

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Byproduct Utilization and Waste Management in Food Industries 15A27702 https://jntua.ac.in/qa1.html?link=520221266-jntua cek fdt R15_2018-2022.p

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Food Plant Utilities & Energy Conservation 15A27703 https://jntua.ac.in/qa1.html?link=520221274-jntua cek fdt R15_2018-2022.pdf

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Thermal Processing of Foods 19A27605b https://jntua.ac.in/qa1.html?link=5202211415-R19 - B.Tech. -Food Technology - Course Structure & SyllabI (1)

Food Engineering 19A27605c https://jntua.ac.in/qa1.html?link=5202211933-R19 - B.Tech. -Food Technology - Course Structure & SyllabI (1) (1).pdf

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DESIGN & DRAWING OF RCC STRUCTURES 15A01501 https://jntua.ac.in/qa1.html?link=5202211531-civil r15 highlighted.pdf

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