



DVR & Dr. HS  
**MIC College of Technology**

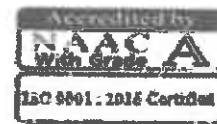
**AUTONOMOUS**

(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada)

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**Courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years  
2018-19 to 2022-23**

S.NO	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction (during the last five years)
1	Quantitative Aptitude And Reasoning	20CE5T04	Employability - Understand the concept of arithmetic and reasoning techniques used in competitive exam	2022-23
2	Transportation Engineering Lab	20CE5L11	Employability - Understand the concept and highway material quality tests	2022-23
3	Staad Pro Lab	20CE5S12	Employability - Understand the concept of loading and bending diagrams	2022-23
4	Essence Of Indian Knowledge Tradition	20CE5M13	Employability - Understand the basic things related to India knowledge traditions	2022-23
5	Renewable Energy Sources	20EE6T08	Employability - Understand the principles of energy sources renewable and related to reuse	2022-23
6	Design And Drawing Of Irrigation Structures	20CE6L11	Employability - Understand the concept of dams and canals drawing specifications and section details	2022-23
7	Control Systems	20EE5T01	Employability - second order Control System,P,PI,PID controllers, steady state errors	2022-23
8	Analog Electronics - II	20EE5T03	Employability - Design different types of feedback amplifiers/Design clipper, clamper and comparators	2022-23
9	Architecture and Town Planning	20CE5T04	Employability -different architectures of the world, Egyptian, Greek, Roman, Indian Vedic, Indus valley civilization., Principles of Planning and Composition, town planning from ancient times to modern times	2022-23
10	Elements of Civil Engineering	20CE5T05	Employability -basics of civil engineering and concepts of surveying, building materials and various types of building	2022-23
11	Basics of Control Systems	20EE5T04	Employability -importance of Modeling of Control systems, First order & second order systems, transfer function analysis, Stability of the systems, States Space Analysis	2022-23
12	Special Electrical Machines	20EE5T05	Employability - Analyze the performance of AC machines/Calculate the regulation of alternator experimentally.	2022-23
13	Design Thinking & Product Innovation	20ME5T04	Employability -Science of engineering,Historical development, systematic approach to product development	2022-23
14	Nanotechnology	20ME5T05	Employability -Introduction to Nano technology, Unique Properties of Nanomaterials, Synthesis	2022-23

			Routes, Nanomaterials for Energy Conversion Systems.	
15	Linear System Analysis	20EC5T04	Employability -Signal Analysis, Fourier series & Fourier transforms, Signal Transmission through Linear Systems, Laplace Transforms & Z-Transforms, Sampling theorem & Correlation	2022-23
16	Digital Logic Design	20EC5T05	Employability -Number Systems, Logic Gates and Boolean Algebra, Combinational Logic Circuits, Laplace Transforms & Z-Transforms, Sampling theorem & Correlation	2022-23
17	Solid State Devices	20EC5T06	Employability -Basics Concepts of Semiconductor Physics,Diodes,Transistors Bipolar Junction Transistor, Small Signal Transistor Amplifier models, Feedback Amplifiers and Oscillators	2022-23
18	Introduction to Artificial Intelligence	20CS5T07	Employability -history of Artificial Intelligence and its foundations, various Artificial Intelligence Techniques for problem solving, framework of predicate logic, Advanced knowledge representation techniques	2022-23
19	Operating System	20CS5T08	Employability -Study of Linux System, Process Management:, Multithreaded Programming,Synchronization,File System Interface,Deadlocks,Memory Management Strategies, Virtual-Memory Management	2022-23
20	Software Engineering	20CS5T09	Employability -Process Models, Requirements Engineering, Requirements Modelling,Understanding of UML diagrams, Software Testing Strategies	2022-23
21	Computer Networks	20IT5T07	Employability -layers of the OSI model and TCP/IP,different types of network topologies and protocols, various network routing algorithms,WWW and HTTP Architectures.	2022-23
22	Computer Graphics	20IT5T08	Employability -Introduction to Graphics,3DConcepts,Graphics,Programming,Rendering, Overview of Ray Tracing	2022-23
23	Quantitative Aptitude and Reasoning	20HS5T01	Employability - demonstrate various principles involved in solving mathematical problems and thereby reducing the time taken for performing job functions.	2022-23
24	Principles of Management	20MB5T01	Employability -Introduction to Management, Evolution of Management Thought, Planning and Organizing,Directing,Controlling and Coordinating	2022-23
25	Technology Management	20MB5T02	Employability -Evolution of Technology, Technology Assessment, Diffusion of Technology, Financial Aspects in Technology Management, Human Aspects in Technology Management,	2022-23
26	Foundations of Data Science	20AD5T07	Employability -benefits of data science, facets of data, data science process and describes the need of machine learning, problems of handling large data, data storage and processing frame works, graph databases and text analytics	2022-23
27	Introduction to Machine Learning	20AM5T07	Employability -Introduction to Machine Learning and Preparing to Model, Modeling & Evaluation, Basics of Feature Engineering, Bayesian Concept Learning and Regression, Supervised Learning	2022-23
28	AI Techniques in	20EE5T06	Employability - Apply AI techniques to solve	2022-23

	Electrical Engineering		various engineering problems	
29	Digital Electronics	20EE5T07	Employability - Optimize logic circuits/ Analyze simple combinational and sequential logic circuits	2022-23
30	Programmable Logic Controllers and Applications	20EE5T08	Employability -Apply ASIC library cells to design different ASIC, Design and evaluate programmable ASIC, ASIC logic cells, ASIC I/O cells for implementation of different applications	2022-23
31	VLSI Design	20EE5T09	Employability - Design Logic gates using Static CMOS, NMOS logic from schematic to layout/apply VLSI Design tools for CMOS based System Design	2022-23
32	Essence of Indian Traditional knowledge	20EE5M13	audit course-Indian constitution include sovereignty, socialism, secularism, democracy, and republic. Apart from this, justice, liberty, and fraternity are also a part of the objectives of the Indian constitution.	2022-23
33	Power system Operation and Control	20EE6T02	Employability - Economic Operation, Automatic Generation Control ,Voltage Instability and Collapse,torsional interaction resulting in SSR, analytical methods, counter methods to SSR, hydro generator torsional characteristics.	2022-23
34	Digital control systems	20EE6T04	Employability - Analyze Discrete-time systems using state space analysis.	2022-23
35	Power quality	20EE6T05	Employability -Estimating Voltage sag performance, Evaluating the economics of different ride_ through alternatives, Fundamentals of Harmonics, Assessment of power quality measurement data-Application of intelligent systems-Power quality monitoring standards	2022-23
36	Renewable and Distributed Energy Technologies	20EE6T06	Employability - Apply the laws and principles of harnessing technologies of renewable energy and bring out the scope for developing the renewable energy sources as alternate sources and can become entrepreneur	2022-23
37	Environmental Impact Assessment	20CE6T09	Employability -Develop skills to investigate and solve issues in the environment/ Recognize the implications of the ways to feed and provide one self.	2022-23
38	Renewable Energy Sources	20EE6T08	Employability - Development of renewable energy source ideas as alternate sources and can become entrepreneur	2022-23
39	Industrial Robotics	20ME6T07	Employability -Motion Analysis, Differential transformation of manipulators, Robot actuators and Feedback components, Robot Application in Manufacturing	2022-23
40	3D printing	20ME6T08	Employability -Additive Manufacturing Process, Machines for Rapid Prototyping, Rapid Prototyping, Tooling Processes, Direct Rapid Tooling Processes	2022-23
41	Electronic Circuits and Networks	20EC6T07	Employability -concepts of Optoelectronic Devices, linear wave shaping circuits, Non-linear wave shaping circuits, Different Time Base Generators, one port networks	2022-23
42	Principles of Communications	20EC6T08	Employability - Analyze data communication equipment and error control techniques	2022-23
43	RF Communication	20EC6T09	Employability - Introduction to RF	2022-23

	& its Applications		Microcontrollers, instruction set of 8051 microcontroller, Assembly Language Programming in microcontrollers. microcontroller is interfacing with I/O devices, memory, and serial communication using ALP.	
44	Information Security	20CS6T08	Employability -Classical Encryption Techniques, Symmetric Key Cryptography, Number Theory, Public Key Cryptography, Cryptographic Hash Functions, Digital Signatures, User Authentication, Electronic Mail Security, IP Security, Transport Level Security, Firewalls	2022-23
45	Agile Technologies	20CS6T09	Employability -Agile Software Development, Lean Approach, Agile Scrum Framework, Agile Software Design and Development, Agile Testing and Review	2022-23
46	Fundamentals of Machine Learning	20IT6T07	Employability -Concept Learning, Decision Tree Learning, Artificial Neural Networks, Bayesian Learning, Learning Sets of Rules, Instance Based Learning, Reinforcement Learning	2022-23
47	Database Management Systems	20IT6T08	Employability -Database System Applications, Introduction to Database Design, Introduction to the Relational Model, QUERIES, CONSTRAINTS, TRIGGERS, NOSQL, Schema Refinement (Normalization)	2022-23
48	Operations Research	20HS6T01	Employability -Transportation Problem, Assignment model, Replacement Models, Game Theory. Competitive games	2022-23
49	Organizational Behavior	20MB6T01	Employability -Fundamentals of OB, Values, Attitudes and Emotions, Personality & Attitude, Perception, Organizational Culture	2022-23
50	Project Management	20MB6T02	Employability -Basics of Project Management, Market feasibility, Technical and Legal feasibility, Financial feasibility, Project Implementation and Review	2022-23
51	Visual Analytics	20AD6T07	Employability -fundamentals of Tableau tool, Use all the basic functionality to visualize their data, Connect to various data sources, Build a variety of basic charts, Combine insights into a useable dashboard, Share and publish visualizations.	2022-23
52	Big data Analytics	20AM6T07	Employability -Big Data, challenges and different analytical architectures, understanding of Hadoop Architecture and its ecosystems, Big Data with Advanced architectures like Spark. Graphs and streaming data in Spark.	2022-23
53	Soft Skills	20EE6S13	Employability - Apply key soft skills effectively in Job Interviews as well in other professional contexts, identify, analyze and apply quantitative techniques related to qualify in Placement tests, inculcate lifelong learning through personal effectiveness as well as leadership and effectively utilize verbal ability & communication skills to qualify in Placement tests, communicate in professional as well as social contexts.	2022-23
54	Disaster Management	20EE6M14	Employability - Develop the contingency plan to keep up the economy on track.	2022-23
55	Essence of Indian Traditional	20ME5M12	Entrepreneurship-impacting basic principles of thought process, reasoning and inferencing. Sustainability is at the core of Indian Traditional	2022-23

	knowledge		knowledge Systems connecting society and nature.	
56	Soft skills	20ME6S12	Employability - Apply key soft skills effectively in Job Interviews as well in other professional contexts, identify, analyze and apply quantitative techniques related to qualify in Placement tests, inculcate lifelong learning through personal effectiveness as well as leadership and effectively utilize verbal ability & communication skills to qualify in Placement tests, communicate in professional as well as social contexts.	2022-23
57	CAE & CFD Lab	20ME6L11	Entrepreneurship	2022-23
58	Simulation of Mechanical Systems Lab	20ME5S11	Entrepreneurship	2022-23
59	Summer Internship	20ME5I13	Skill development - Identify, Formulate a problem to design and implement a viable solution. Ability to learn and use modern tools to solve problems efficiently.	2022-23
60	Digital system Design using VHDL & Verilog	20EC5T03	Employability - Understand the concepts of CMOS logic, digital circuits and HDLs, Design the combinational and sequential logic circuits using HDLs	2022-23
61	Digital system Design using VHDL & Verilog Lab	20EC5L11	Employability - Understand the concepts of CMOS logic, digital circuits and HDLs, Design the combinational and sequential logic circuits using HDLs	2022-23
62	JAVA Programming	20EC5S12	Employability - Design GUI-based applications using Java AWT controls.	2022-23
63	Summer internship	20EC5I14	Skill development - identify, Formulate a problem to design and implement a viable solution. Ability to learn and use modern tools to solve problems efficiently.	2022-23
64	Introduction to Machine learning	20CS6T07	Employability - Identify the characteristics of machine learning, Summarize the Model building and evaluation approaches, Apply Bayesian learning and regression algorithms for real-world Problems.	2022-23
65	Soft Skills	20EC6S13	Employability - Apply key soft skills effectively in Job Interviews as well in other professional contexts, identify, analyze and apply quantitative techniques related to qualify in Placement tests, inculcate lifelong learning through personal effectiveness as well as leadership and effectively utilize verbal ability & communication skills to qualify in Placement tests, communicate in professional as well as social contexts.	2022-23
66	Disaster Management	20EC6M14	Employability - Respond according to the situation in case of occurrence of disaster, Develop the contingency plan to keep up the economy on track	2022-23
67	Telematics	20EC5T08	Employability - Frequency and Time division multiplexing, digital multiplexing and digital hierarchy namely SONET / SDH, space switching, time switching and combination switching, introduce ISDN, DSL / ADSL, and fiber optic systems in subscriber loop.	2022-23
68	Architecture and	20CE5T04	Employability - different architectures of the	2022-23

	Town Planning		world, Egyptian, Greek, Roman, Indian Vedic, Indus valley civilization., Principles of Planning and Composition, town planning from ancient times to modern times	
69	Elements of Civil Engineering	20CE5T05	Employability -basics of civil engineering and concepts of surveying, building materials and various types of building	2022-23
70	Basics of Control Systems	20EE5T04	Employability -importance of Modeling of Control systems, First order & second order systems, transfer function analysis, Stability of the systems, States Space Analysis	2022-23
71	Special Electrical Machines	20EE5T05	Employability -switched reluctance motor, stepper motors, and their applications, magnet dc motor, brush dc motor and brush less dc motor.	2022-23
72	Design Thinking & Product Innovation	20ME5T04	Employability -Science of engineering, Historical development, systematic approach to product development	2022-23
73	Nanotechnology	20ME5T05	Employability -Introduction to Nano technology, Unique Properties of Nanomaterials, Synthesis Routes, Nanomaterials for Energy Conversion Systems.	2022-23
74	Linear System Analysis	20EC5T04	Employability -Signal Analysis, Fourier series & Fourier transforms, Signal Transmission through Linear Systems, Laplace Transforms & Z-Transforms, Sampling theorem & Correlation	2022-23
75	Digital Logic Design	20EC5T05	Employability -Number Systems, Logic Gates and Boolean Algebra, Combinational Logic Circuits, Laplace Transforms & Z-Transforms, Sampling theorem & Correlation	2022-23
76	Solid State Devices	20EC5T06	Employability -Basics Concepts of Semiconductor Physics, Diodes, Transistors Bipolar Junction Transistor, Small Signal Transistor Amplifier models, Feedback Amplifiers and Oscillators	2022-23
77	Introduction to Artificial Intelligence	20CS5T07	Employability -history of Artificial Intelligence and its foundations, various Artificial Intelligence Techniques for problem solving, framework of predicate logic, Advanced knowledge representation techniques	2022-23
78	Operating System	20CS5T08	Employability -Study of Linux System, Process Management:, Multithreaded Programming, Synchronization, File System Interface, Deadlocks, Memory Management Strategies, Virtual-Memory Management	2022-23
79	Software Engineering	20CS5T09	Employability -Process Models, Requirements Engineering, Requirements Modelling, Understanding of UML diagrams, Software Testing Strategies	2022-23
80	Computer Networks	20IT5T07	Employability -layers of the OSI model and TCP/IP, different types of network topologies and protocols, various network routing algorithms, WWW and HTTP Architectures.	2022-23
81	Computer Graphics	20IT5T08	Employability -Introduction to Graphics, 3D Concepts, Graphics, Programming, Rendering, Overview of Ray Tracing	2022-23
82	Principles of Management	20MB5T01	Employability -Introduction to Management, Evolution of Management Thought, Planning and Organizing, Directing, Controlling and Coordinating	2022-23

83	Technology Management	20MB5T02	Employability -Evolution of Technology, Technology Assessment, Diffusion of Technology, Financial Aspects in Technology Management, Human Aspects in Technology Management,	2022-23
84	Foundations of Data Science	20AD5T07	Employability -benefits of data science, facets of data, data science process and describes the need of machine learning, problems of handling large data, data storage and processing frame works, graph databases and text analytics	2022-23
85	Introduction to Machine Learning	20AM5T07	Employability -Introduction to Machine Learning and Preparing to Model, Modeling & Evaluation, Basics of Feature Engineering, Bayesian Concept Learning and Regression, Supervised Learning	2022-23
86	Digital Modulation Techniques	20EC6T06	Employability -different modulation techniques & coding techniques, spread spectrum signals and channel behaviors, modulation, equalization, diversity and coding techniques for communication systems.	2022-23
87	Remote Sensing and GIS	20CE6T08	Employability -ground, air and satellite based sensor platforms, Interpret the aerial photographs and satellite imageries, spatial data for GIS application,RS and GIS concepts in water resources engineering	2022-23
88	Environmental Impact Assessment	20CE6T09	Employability -Environmental Impact Assessment, risk assessment,EIA methodologies and the criterion for selection of EIA methods,pre-requisites for ISO 14001 certification	2022-23
89	Renewable Energy Sources	20EE6T08	Employability -Bio-energy, Ocean thermal energy conversion, tidal, geothermal, Fuel Cells, Solar Energy Storage and Applications	2022-23
90	Energy Audit, Conservation and Management	20EE6T09	Employability -Basic Principles of Energy Audit and management:,Lighting,Power Factor and energy instruments, Space Heating and Ventilation, Economic Aspects and Financial Analysis	2022-23
91	Industrial Robotics	20ME6T07	Employability -Motion Analysis, Differential transformation of manipulators, Robot actuators and Feedback components, Robot Application in Manufacturing	2022-23
92	3D Printing	20ME6T08	Employability -Additive Manufacturing Process, Machines for Rapid Prototyping, Rapid Prototyping, Tooling Processes, Direct Rapid Tooling Processes	2022-23
93	Electronic Circuits and Networks	20EC6T07	Employability -concepts of Optoelectronic Devices, linear wave shaping circuits,non- linear wave shaping circuits, Different Time Base Generators, one port networks	2022-23
94	Principles of Communications	20EC6T08	Employability -Angle Modulation, Frequency and Phase modulation, Pulse digital Transmission of Analog Signals, Digital Representation of Analog Signals, Noise in Amplitude Modulation	2022-23
95	Microcontrollers and its Applications	20EC6T09	Employability -Introduction to 8051 Microcontrollers, instruction set of 8051 microcontroller, Assembly Language Programming in microcontrollers.microcontroller is interfacing with I/O devices, memory, and serial communication using A I P	2022-23



96	Information Security	20CS6T08	Employability -Classical Encryption Techniques,Symmetric Key Cryptography,Number Theory,Public Key Cryptography,Cryptographic Hash Functions,Digital Signatures,User Authentication,Electronic Mail Security,IP Security,Transport Level Security,Firewalls	2022-23
97	Agile Technologies	20CS6T09	Employability -Agile Software Development,Lean Approach,Agile Scrum Framework,Agile Software Design and Development,Agile Testing and Review	2022-23
98	Fundamentals of Machine Learning	20IT6T07	Employability -Concept Learning,Decision Tree Learning,Artificial Neural Networks,Bayesian Learning,Learning Sets of Rules,Instance Based Learning,Reinforcement Learning	2022-23
99	Database Management Systems	20IT6T08	Employability -Database System Applications,Introduction to Database Design,Introduction to the Relational Model,QUERIES, CONSTRAINTS, TRIGGERS,NOSQL,Schema Refinement (Normalization)	2022-23
100	Operations Research	20HS6T01	Employability -Transportation Problem,Assignment model,Replacement Models,Game Theory. Competitive games	2022-23
101	Organizational Behavior	20MB6T01	Employability -Fundamentals of OB,Values, Attitudes and Emotions, Personality & Attitude,Perception,Organizational Culture	2022-23
102	Project Management	20MB6T02	Employability -Basics of Project Management,Market feasibility,Technical and Legal feasibility,Financial feasibility,Project Implementation and Review	2022-23
103	Visual Analytics	20AD6T07	Employability -fundamentals of Tableau tool, Use all the basic functionality to visualize their data, Connect to various data sources, Build a variety of basic charts, Combine insights into a useable dashboard, Share and publish visualizations.	2022-23
104	Big data Analytics	20AM6T07	Employability -Big Data, challenges and different analytical architectures, understanding of Hadoop Architecture and its ecosystems,Big Data with Advanced architectures like Spark.graphs and streaming data in Spark.	2022-23
105	Community Service Project	20EC6P15	Skill development - Apply modern technologies, tools and systems in the field of Electronics & Communication Engineering, Design and implement a viable solution to the problem and analyze the identified problem and develop the team work and leadership skills with professional and ethical values.	2022-23
106	Advanced Computer Architecture	20CS5T05	Employability - Analyze the working of Instruction flow computers and Data flow computers for VLSI computations, design the multi-processor systems with different memory configurations and develop the computer systems using SIMD processors with various interconnection networks.	2022-23
107	Artificial Intelligence	20CS5T06	Employability - familiarize the basic principles of Artificial Intelligence towards problem solving Inference. Percention Knowledge representation	2022-23



			and Learning	
108	Architecture and Town Planning	20CE5T04	Employability -different architectures of the world,Egyptian, Greek, Roman, Indian Vedic, Indus valley civilization.,Principles of Planning and Composition,town planning from ancient times to modern times	2022-23
109	Elements of Civil Engineering	20CE5T05	Employability -basics of civil engineering and concepts of surveying,building materials and various types of building	2022-23
110	Basics of Control Systems	20EE5T04	Employability -importance of Modelling of Control systems,First order & second order systems,transfer function analysis,Stability of the systems, States Space Analysis	2022-23
111	Special Electrical Machines	20EE5T05	Employability -switched reluctance motor,stepper motors, and their applications,magnet dc motor,brush dc motor and brush less dc motor.	2022-23
112	Design Thinking & Product Innovation	20ME5T04	Employability -Science of engineering,Historical development,systematic approach to product development	2022-23
113	Nanotechnology	20ME5T05	Employability-Basics of nano linear optics and electronics,Materials for nanoelectronics,Ballistic and Diffusive Transport,Electron transport in semiconductors and nanostructures,Electrons in traditional low-dimensional structures	2022-23
114	Linear System Analysis	20EC5T04	Employability -Signal Analysis,Fourier series & Fourier transforms,Signal Transmission through Linear Systems,Laplace Transforms & Z-Transforms,Sampling theorem & Correlation	2022-23
115	Digital Logic Design	20EC5T05	Employability -Design programmable logic devices.	2022-23
116	Solid State Devices	20EC5T06	Employability -Basics Concepts of Semiconductor Physics,Diodes,Transistors Bipolar Junction Transistor,Small Signal Transistor Amplifier models,Feedback Amplifiers and Oscillators	2022-23
117	Introduction to Artificial Intelligence	20CS5T07	Employability - familiarize the basic principles of Artificial Intelligence towards problem solving Inference, Perception, Knowledge representation and Learning	2022-23
118	Operating System	20CS5T08	Employability -Introduction to Operating System Concept,Process Management,Memory Management,Virtual Memory Management,Concurrency,Principles of deadlock,Linux System	2022-23
119	Software Engineering	20CS5T09	Employability - Apply knowledge of computing, mathematics, science, and engineering appropriate to the discipline, particularly in the modeling and design of software systems and in the analysis of tradeoffs inherent in design decisions.	2022-23
120	Computer Networks	20IT5T07	Employability - Analyze MAC layer protocols , TCP and UDP.	2022-23
121	Computer Graphics	20IT5T08	Employability - Evaluate geometrical transformations including translation, scaling, rotation, reflection and shear for 2-Dimensional objects and Analyze line, circle, ellipse and character generation algorithms.	2022-23

	Research		Assignment model, Replacement Models, Game Theory. Competitive games	
123	Principles of Management	20MB5T01	Employability - The students will understand how essential various functions of management are for every business manager.	2022-23
124	Technology Management	20MB5T02	Employability - Evolution of Technology, Technology Assessment, Diffusion of Technology, Financial Aspects in Technology Management, Human Aspects in Technology Management,	2022-23
125	Foundations of Data Science	20AD5T07	Employability - benefits of data science, facets of data, data science process and describes the need of machine learning, problems of handling large data, data storage and processing frameworks, graph databases and text analytics	2022-23
126	Introduction to Machine Learning	20AM5T07	Employability - Differentiate supervised, unsupervised and reinforcement learning, Covers the techniques on how to make learning by a model, evaluate it and understand different algorithms to construct a learning model.	2022-23
127	Data Warehousing and Mining Lab Through Python	20AM5T07	Employability/ Skill Development - preprocess data, build machine learning models using python libraries.	2022-23
128	Design and Analysis of Algorithms Lab	20CS5L11	Skill development - Implement algorithms using the dynamic programming, greedy method, Backtracking, Branch and Bound strategy and analyze their performance.	2022-23
129	Mobile Application Development	20CS5S12	Employability - Develop mobile application using UI design: widgets, layouts, UI Events and event Listeners. Develop android user interfaces using media, camera, location, sensors, and database connectivity.	2022-23
130	Disaster Management	20CS5M13	Employability - Respond according to the situation in case of occurrence of disaster, Develop the contingency plan to keep up the economy on track	2022-23
131	Summer Internship	20CS5I14	Skill development - Identify, Formulate a problem to design and implement a viable solution. Ability to learn and use modern tools to solve problems efficiently.	2022-23
132	Machine Learning	20CS6T01	Employability - Differentiate supervised, unsupervised and reinforcement learning, Covers the techniques on how to make learning by a model, evaluate it and understand different algorithms to construct a learning model.	2022-23
133	Big Data Analytics	20CS6T03	Employability - Apply the novel architectures and platforms introduced for Big data, in particular Hadoop and Map Reduce. Create No-SQL data bases and access the data bases, using hive and hbase tools.	2022-23
134	Software Testing Methodologies	20CS6T04	Employability - Apply reduction procedures to a control flowgraph and Make use of decision tables in test case design and Apply graph matrix techniques to solve flow graphs and Test the software using state graphs.	2022-23
135	Mean Stack Technologies	20CS6T05	Employability/ Skill Development/ Entrepreneurship - Develop web Applications using Scripting Languages & Frameworks	2022-23

			Illustrate the uses of web services concepts like restful, React JS	
136	Remote Sensing and GIS	20CE6T05	Employability -ground, air and satellite based sensor platforms,Interpret the aerial photographs and satellite imageries,spatial data for GIS application,RS and GIS concepts in water resources engineering	2022-23
137	Environmental Impact Assessment	20CE6T06	Employability -Develop skills to investigate and solve issues in the environment/ Recognize the implications of the ways to feed and provide one self.	2022-23
138	Renewable Energy Sources	20EE6T08	Employability - Development of renewable energy source ideas as alternate sources and can become entrepreneur	2022-23
139	Energy Audit, Conservation and Management	20EE6T09	Employability - Apply different control strategies used for energy auditing./ Evaluate different lightning schemes to improve energy efficiency.	2022-23
140	Industrial Robotics	20ME6T07	Employability - Identify appropriate actuators as per the required application.	2022-23
141	3D Printing	20ME6T08	Employability -Additive Manufacturing Process,Machines for Rapid Prototyping,Rapid Prototyping,Tooling Processes,Direct Rapid Tooling Processes	2022-23
142	Electronic Circuits and Networks	20EC6T07	Employability -Model and simulate the power electronic circuits for different types of loads	2022-23
143	Principles of Communications	20EC6T08	Employability -Angle Modulation, Frequency and Phase modulation,Pulse digital Transmission of Analog Signals,Digital Representation of Analog Signals,Noise in Amplitude Modulation	2022-23
144	Microcontrollers and its Applications	20EC6T09	Employability -Model and simulate the power electronic circuits for different types of loads	2022-23
145	Introduction to Machine Learning	20CS6T07	Employability - Differentiate supervised, unsupervised and reinforcement learning, Covers the techniques on how to make learning by a model, evaluate it and understand different algorithms to construct a learning model.	2022-23
146	Information Security	20CS6T08	Employability -Identify the threats and remedial measures for system security and authorization	2022-23
147	Agile Technologies	20CS6T09	Employability -Agile Software Development,Lean Approach,Agile Scrum Framework,Agile Software Design and Development,Agile Testing and Review	2022-23
148	Fundamentals of Machine Learning	20IT6T07	Employability -Concept Learning,Decision Tree Learning,Artificial Neural Networks,Bayesian Learning,Learning Sets of Rules,Instance Based Learning,Reinforcement Learning	2022-23
149	Database Management Systems	20IT6T08	Employability - Understand relational and object oriented database technology for building applications for the current trend.	2022-23
150	Operations Research	20HS6T01	Employability -Transportation Problem,Assignment model,Replacement Models,Game Theory. Competitive games	2022-23
151	Organizational Behavior	20MB6T01	Employability -Fundamentals of OB,Values, Attitudes and Emotions, Personality & Attitude,Perception,Organizational Culture	2022-23
152	Project Management	20MB6T02	Employability - Applying metrics for assessing quality & cost SDLC methodology for	2022-23

			development of artifacts for each lifecycles phases.	
153	Visual Analytics	20AD6T07	Employability -fundamentals of Tableau tool, Use all the basic functionality to visualize their data, Connect to various data sources, Build a variety of basic charts, Combine insights into a useable dashboard, Share and publish visualizations.	2022-23
154	Big data Analytics	20AM6T07	Employability -Apply the novel architectures and platforms introduced for Big data, in particular Hadoop and MapReduce. Create No-SQL data bases and access the data bases, using hive and hbase tools.	2022-23
155	Machine Learning Lab	20CS6L10	Employability/ Skill Development - Develop supervised, unsupervised and reinforcement learning, Covers the techniques on how to make learning by a model, evaluate it and understand different algorithms to construct a learning model.	2022-23
156	Big Data Analytics Lab	20CS6L12	Skill development - Apply Map Reduce algorithms Design new algorithms using Map reduce on unstructured & structured data.	2022-23
157	Soft Skills	20CS6S13	Employability - Apply key soft skills effectively in Job Interviews as well in other professional contexts,identify, analyze and apply quantitative techniques related to qualify in Placement tests, inculcate lifelong learning through personal effectiveness as well as leadership and effectively utilize verbal ability & communication skills to qualify in Placement tests,communicate in professional as well as social contexts.	2022-23
158	Essence of Indian traditional knowledge	20CS6M14	Entrepreneurship-impacting basic principles of thought process, reasoning and inferencing. Sustainability is at the core of Indian Traditional knowledge Systems connecting society and nature.	2022-23
159	Community Service Project	20CS6P15	Skill Development - Generate a report on community services like electricity, roads, education to rurals etc.	2022-23
160	Computer Graphics	20IT5T04	Employability - Implement 2D Graphical algorithms including: line drawing, polygon filling, clipping, and transformations. Use a current graphics API (OpenGL). Assessed by programming assignments.	2022-2023
161	Testing Tools	20IT5S12	Use testing tools to perform load Testing /Stress Testing. Use testing tools like Win Runner, Load Runner and Test Director	2022-2023
162	Machine Learning	20IT6T01	Employability - Analyze types of neueral networks and types of learning	2022-2023
163	MEAN stack Technologies	20IT6T04	Employability - MEAN is an open source web stack used to create cloud-hosted applications.	2022-2023
164	Software Architecture and Design Patterns	20IT6T06	Employability - Create new Architectural styles for specific purposes and Design software architecture for complex applications.	2022-2023
165	Machine Learning Lab	20IT6L10	Employability - Analyze types of nueral networks and types of learning	2022-2023
166	Cloud	20IT6L11	Skill development - Implementation of Hadoop	2022-2023

	Computing Lab		Distributed File System for storing big data and infrastructure as a service using cloudsim.	
167	Soft skills	20IT6S13	Employability - Apply key soft skills effectively in Job Interviews as well in other professional contexts, identify, analyze and apply quantitative techniques related to qualify in Placement tests, inculcate lifelong learning through personal effectiveness as well as leadership and effectively utilize verbal ability & communication skills to qualify in Placement tests, communicate in professional as well as social contexts.	2022-2023
168	Essence of Indian Tradition Knowledge	20IT6M14	Entrepreneurship-impacting basic principles of thought process, reasoning and inferencing. Sustainability is at the core of Indian Traditional knowledge Systems connecting society and nature.	2022-2023
169	Auto Cad 2d&3d (Skill Oriented Course-1)	20CE3S09	Employability - Understand the concept of basic drawing commands in autocad	2021-22
170	Complex Variables And Statistical Methods	20CE4T01	Employability - Understand the concept of complex variables and statistical methods	2021-22
171	Engineering Geology	20CE4T02	Employability - Understand the concept of earth mechanism of rocks and faults and landslids	2021-22
172	Structural Analysis - 1	20CE4T04	Employability - Understand the concept of bending and fixed , ss beams analysis problems	2021-22
173	Managerial Economics And Financial Analysis	20CE4T05	Employability - Understand the concept of economics and problems relate to financial statements	2021-22
174	Engineering Geology Lab	20CE4L06	Employability - Understand the concept of rocks and type of rocks using lab equipment	2021-22
175	Revit Architecture (Skill Oriented Course -2 )	20CE4S09	Employability - Understand the concept of revite architectures	2021-22
176	Constitution Of India	20CE4M10	Employability - Understand the concept of constitution of india basics	2021-22
177	Internship / Social Responsibility Project	18CE7L08	Skill development -Learn the internship procedure and report work	2021-22
178	Advanced Civil Engineering Technologies	18CE8T03	Employability - Understand the concept of advanced civil engineering technologies in various works	2021-22
179	Moocs / Survey Camp	18CE8L04	Skill development -Learn the survey camp basics and procedures	2021-22
180	TRANSFORM TECHNIQUES	20EE4T01	Employability -Use the techniques, skills and modern probabilistic and statistical tools necessary for engineering practice./ Design and conduct experiments, as well as to analyze and interpreted data	2021-22
181	Electrical Measurements	20EE4T03	Employability - Analyze various DC and AC bridges for measuring R, L& C.	2021-22
182	Managerial Economics and Financial Analysis	20EE4T05	Employability - Business decisions based on Break-even analysis and cost-output relationship.	2021-22

183	Electrical Measurements Lab	20EE4L07	Employability/skill development -Calibrate the given energy meter/Analyze electrical circuits with AC and DC excitations experimentally	2021-22
184	Data structures through C Lab	20EE4L08	Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures like stacks, queues and linked lists	2021-22
185	Introduction to MATLAB	20EE4S09	Employability - Develop mathematical models for different power electronic converters,Simulate various power converters using PSPICE and MATLAB	2021-22
186	Constitution of India	20EE4M10	audit course-Indian constitution include sovereignty, socialism, secularism, democracy, and republic. Apart from this, justice, liberty, and fraternity are also a part of the objectives of the Indian constitution.	2021-22
187	Digital Signal Processing	18EE7T01	Employability - Understand the operations, properties of discrete time signals and filter characteristics of discrete time systems, Apply the Z-Transform techniques to solve discrete time signals and to realize discrete time systems.	2021-22
188	Renewable Energy Sources	18EE7T04	Employability -Hybrid electric drive train, electric propulsion, energy management strategies	2021-22
189	Smart Grid Technologies	18EE7T05	Employability - Enhance the scope and explore the ways for developing the renewable energy sources as alternate for the non renewable energy sources and become entrepreneur	2021-22
190	AI Techniques	18EE7T07	Employability -Apply AI techniques to solve various engineering problems	2021-22
191	Fuzzy Sets and Fuzzy Logic	18EE7T09	Employability - Understand and Analyze Fuzzy relations and its Properties ,applications	2021-22
192	Remote sensing and GIS	18EE7T10	Employability -ground, air and satellite based sensor platforms,Interpret the aerial photographs and satellite imageries,spatial data for GIS application,RS and GIS concepts in water resources engineering	2021-22
193	Green Buildings	18EE7T11	Employability - Optimally use renewable energy resources and Plan the building for best green building rating system	2021-22
194	Electric Vehicles	18EE7T03	Employability -Electric drive train, electric propulsion, energy management strategies	2021-22
195	Bio Medical Instrumentation	18EE7T12	Employability - Analyse and evaluate different diagnostic measurement methods for identification clinical laboratory instruments and Thermal imaging systems	2021-22
196	Nano Electronics	18EE7T13	Employability-Basics of nano linear optics and electronics,Materials for nanoelectronics,Ballistic and Diffusive Transport,Electron transport in semiconductors and nanostructures,Electrons in traditional low-dimensional structures	2021-22
197	Software Project Management	18EE7T14	Employability - Applying metrics for assesing quality & cost,SDLC methodology for development of artifacts for each lifecycles phases.	2021-22
198	Computer Architecture & Organization	18EE7T15	Employability/ Skill development:Encompasses all physical aspects of computer systems. E.g., circuit design, control signals, memory times Know the difference between computer	2021-22

			organization and computer architecture.Understand units of measure common to computer systems,Appreciate the evolution of computers.,Understand the computer as a layered system.Be able to explain the von Neumann architecture and the function of basic computer components.	
199	Technology Innovation Management	18EE7T16	Employability - Apply concepts of business and financial planning to start an industry	2021-22
200	Global Environment Trends	18EE7T17	Environment and Sustainability-To understand the importance of Environment and the importance of biodiversity	2021-22
201	Utilization of Electrical Energy	18EE8T01	Employability - methods of electric braking,design of lighting and flood lighting, LED lighting systems.,Electric heating and welding, UPS and Batteries	2021-22
202	Power Electronic Control of Electric Drives	18EE8T04	Employability - Analyze current and speed controllers for solid state drives Identify factors that effect speed control of induction motor drives	2021-22
203	Instrumentation	18EE8T06	Employability -Identify the single & double beam instruments in UV,VIS & IR regions	2021-22
204	Advanced Control Systems	18EE8T07	Employability - Adaptive Control System,Sliding mode Control	2021-22
205	Polymer Chemistry	18EE8T08	Employability -polymers and composite materials,quality of fuels and energy crisis,purification of water,Electrochemical principles form the basis of batteries	2021-22
206	Advanced Drawing for Civil Engineer	18EE8T09	Employability - Understand the concept of dams and canals drawing specificatins and section details	2021-22
207	Power Quality	18EE8T10	Employability -Estimating Voltage sag performance, Evaluating the economics of different ride_ through alternatives,Fundamentals of Harmonics,Assessment of power quality measurement data-Application of intelligent systems-Power quality monitoring standards	2021-22
208	Soft Computing Techniques	18EE8T11	Employability -Artificial Neural Networks,Data Processing,Fuzzy Logic System,Genetic Algorithm	2021-22
209	Satellite communication	18EE8T12	Employblity enhancement by introducing students to fundamentals like Sattellite communication for Engineers.	2021-22
210	Internet of Things	18EE8T13	Employability -RFID Technology, Sensor Technology and Satellite Technology,resource management in the Internet of Things	2021-22
211	Mechatronics	18EE8T14	Employability -Basic concepts of mechatronics,mechatronics system with the help of Microprocessor,PLC and other electrical and Electronics Circuits,solid state Devices,Dynamic models & controllers	2021-22
212	Green Engineering Systems	18EE8T15	Employability - Optimally use renewable energy resources and Plan the building for best green building rating system	2021-22
213	Micro - Electro - Mechanical Systems	18EE8T16	Employability -Introduction: Basic structures of MEM devices ,Mechanical concepts,Electrostatic excitation,Types: Two terminal MEMS ,MEM Circuits & Structures	2021-22



214	Numerical Methods and Vector Calculus	20ME3T01	Skill development	2021-22
215	Material Science & Metallurgy	20ME3T02	Employability - Analyse the structure of different materials and their properties through chemical bondings.	2021-22
216	Complex Variables and Statistical Methods	20ME4T01	Employability -Use the techniques, skills and modern probabilistic and statistical tools necessary for engineering practice./ Design and conduct experiments, as well as to analyze and interpret data	2021-22
217	Kinematics of Machinery	20ME4T04	Employability - Analyze the kinematics of linkages and steering mechanisms and kinematics of different gear trains for various practical applications and Evolve cams profiles to produce a desired motion and estimate the speed variation in hooke joints	2021-22
218	Managerial Economics & Financial Analysis	20ME4T05	Employability - Business decisions based on Break-even analysis and cost-output relationship.	2021-22
219	Proficiency Through Reading & Writing Lab	20ME4L06	Skill development	2021-22
220	Programming through MATLAB	20ME4S09	Employability - Develop mathematical models for different power electronic converters,Simulate various power converters using PSPICE and MATLAB	2021-22
221	Operational Research	18ME7T02	Entrepreneurship	2021-22
222	Mini project	18ME7P13	Skill development - Identify, Formulate a problem to design and implement a viable solution. Ability to learn and use modern tools to solve problems efficiently.	2021-22
223	Mechanical Vibrations	18ME8T01	Employability - Analyze the sources of vibration and noise in machines and make design modification to reduce the vibration and noise, to improve the life of the components for smooth operation	2021-22
224	Non Destructive Evaluation	18ME8T03	Employability - Apply the knowledge of Liquid and Magnetic penetrate testing techniques in manufacturing arena	2021-22
225	MOOCS	18ME8S19	Skill development	2021-22
226	Complex Variables	20EC3T01	Employability - Apply various Numerical methods in solving and initial value problem involving and ordinary differential equation,estimate the best fit polynomial for the given tabulated data using the methods of Newton's Interpolation formulae and Lagranze's Interpolation and unknown dependent variables using curve fitting methods	2021-22
227	Digital Electronics Lab	20EC3L08	Employability, Entrepreneurship & Skill Development - Logic gates, Registers and Counters, Memories	2021-22
228	Data Structures through C	20EC3S09	Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures like stacks, queues and linked lists	2021-22

229	Numerical Methods and Vector Calculus	20EC4T01	Employability - Apply various Numerical methods in solving and initial value problem involving and ordinary differential equation, estimate the best fit polynomial for the given tabulated data using the methods of Newton's Interpolation formulae and Lagrange's Interpolation and unknown dependent variables using curve fitting methods	2021-22
230	Python Programming	20EC4S09	Employability - Apply tuple, set and file operations to organize the data in real world problems. Analyze various searching and sorting techniques using python and apply exception Handling, database operations in pytho	2021-22
231	Analog and Digital Communications	20EC4T06	Employability, Entrepreneurship & Skill Development - Signal to noise factor, AM Transmitters, Angle and Pulse modulation, Television Engineering	2021-22
232	Analog and Digital Communications	20EC4T06	Employability, Entrepreneurship & Skill Development - Signal to noise factor, AM Transmitters, Angle and Pulse modulation, Television Engineering	2021-22
233	Microwave Engineering	18EC7T02	Employability/ Skill development: Understand & Apply the knowledge of electromagnetic theory to formulate the wave equation in wave guide for analysis	2021-22
234	Computer Architecture & Organization	18EC7T09	Employability/ Skill development: Encompasses all physical aspects of computer systems. E.g., circuit design, control signals, memory types. Know the difference between computer organization and computer architecture. Understand units of measure common to computer systems, Appreciate the evolution of computers., Understand the computer as a layered system. Be able to explain the von Neumann architecture and the function of basic computer components.	2021-22
235	Bio Medical Instrumentation	18EC7T10	Employability-diagnosis and therapy related equipments, Electrodes & Transducers, Patient care & Monitoring	2021-22
236	Nano Electronics	18EC7T11	Employability-Basics of nano linear optics and electronics, Materials for nanoelectronics, Ballistic and Diffusive Transport, Electron transport in semiconductors and nanostructures, Electrons in traditional low-dimensional structures	2021-22
237	INDUSTRIAL INTERNSHIP	18EC7P13	Employability/ Entrepreneurship/ Skill development: Internship is a part of curriculum for final year students, in which students work on the live project recent trends used in the industry. Reviews are conducted by Industry mentor and college mentor as a part of continuous evaluation	2021-22
238	Coding Theory & Techniques	18EC8T01	Employability/ Skill development: Demonstrate the channel coding scheme for a communication system	2021-22
239	Operating systems	18EC8T05	Employability - Identify the functional aspects and implementation methods (system call And System programs of different modules in a general purpose operating System).	2021-22
240	Soft Computing	18EC8T06	Employability- fuzzy logic and the concept of	2021-22

	Techniques		fuzziness involved in various systems and fuzzy set theory. Understand the concepts of fuzzy sets, knowledge representation using fuzzy rules, approximate reasoning, fuzzy inference systems, and fuzzy logic	
241	Mechatronics	18EC8T07	Employability-Basic concepts of mechatronics, mechatronics system with the help of Microprocessor, PLC and other electrical and Electronics Circuits, concept of solid state Devices, Dynamic models & controllers	2021-22
242	Data Communication & Networking	18EC8T08	Skill development - Understand the concept of signals with encoding and modulation, various issues with data link control and working of network with different methodologies and will understand various transmission media and multiplexing.	2021-22
243	Spread Spectrum Communication	18EC8T02	Employability-Understand the concept of Spread Spectrum and study various types of Spread spectrum sequences and their generation. Understand the principles of Code Division Multiple Access (CDMA) and use of Spread spectrum concept in CDMA, various Code tracing loops for optimum tracking of wideband signals viz spread spectrum signals. procedure for synchronization of receiver for receiving the Spread spectrum signal.	2021-22
244	Statistical Signal Processing	18EC8T03	Employability-Generalize the properties of statistical models in the analysis of signals using Stochastic processes. Differentiate the prominence of various spectral estimation techniques for Achieving higher resolution in the estimation of power spectral density.	2021-22
245	Consumer Electronics	18EC7T07	Employability-Audio systems, video systems & displays, domestic & consumer Appliances, power supplies	2021-22
246	Comprehensive Viva Voice	18EC8L12	Skill development & Employability- Viva will be conducted in 8th semester which will be covering the complete syllabus. This will test the student's learning and understanding during the course of their B.Tech programme. In doing so, the main objective of this course is to prepare the students to face interview both in the academic and the industrial sector.	2021-22
247	Numerical Methods and Vector Calculus	20CS3T01	Employability - Apply various Numerical methods in solving and initial value problem involving and ordinary differential equation. Apply Vector Integration for curves, surfaces and volumes and relationship among themselves. Evaluate the directional derivative, divergence and angular velocity of a vector function	2021-22
248	Software Engineering	20CS3T04	Employability - Apply knowledge of computing, mathematics, science, and engineering appropriate to the discipline, particularly in the modeling and design of software systems and in the analysis of tradeoffs inherent in design decisions.	2021-22
249	Software Engineering Lab	20CS3L08	Employability and Skill Development - Prepare SRS document. design document. test cases and	2021-22

			software configuration management and risk management related document.	
250	Python NumPy & Pandas	20CS3S09	Employability and Skill Development - acquire programming skills in Python package NumPy and perform mathematical and statistical operations.	2021-22
251	Basic Web Programming	20CS4S09		2021-22
252	Big Data & Hadoop	18CS7T01	Employability -Apply the novel architectures and platforms introduced for Big data, in particular Hadoop and MapReduce. Create No-SQL data bases and access the data bases, using hive and hbase tools.	2021-22
253	Machine Learning & Deep Learning	18CS7T03	Employability - Differentiate supervised, unsupervised and reinforcement learning, Covers the techniques on how to make learning by a model, evaluate it and understand different algorithms to construct a learning model.	2021-22
254	Soft Computing	18CS7T04	Employability -Soft Computing for enterprise , infrastructure as a service, Platform as service and monitoring &management of application in any enterprise will helps to student to fetch the employability.	2021-22
255	Data Analytics	18CS7T05	Employability and Skill Development - understand Data Analytics lifecycle, Business Challenges, various tools and technologies to handle big data	2021-22
256	Embedded Systems	18CS7T06	Skill development -Embedded systems are special-purpose computing systems embedded in application environments or in other computing systems and provide specialized support	2021-22
257	Software Testing Methodologies	18CS7T07	Employability - Apply reduction procedures to a control flowgraph and Make use of decision tables in test case design and Apply graph matrix techniques to solve flowgraphs and Test the software using state graphs.	2021-22
258	Software Project Management	18CS7T08	Employability - Applying metrics for assessing quality & cost,SDLC methodology for development of artifacts for each lifecycles phases.	2021-22
259	Fuzzy Sets and Fuzzy Logic	18CS7T09	Employability	2021-22
260	Remote sensing and GIS	18CS7T10	Employability -ground, air and satellite based sensor platforms,Interpret the aerial photographs and satellite imageries,spatial data for GIS application,RS and GIS concepts in water resources engineering	2021-22
261	Green Buildings	18CS7T11	Employability	2021-22
262	Electric Vehicles	18CS7T12	Employability, Entrepreneurship & Skill Development - Practicals based on electronics device currcuits.Uses the basic principles of operations of electrical machines	2021-22
263	Special Electrical Machines	18CS7T13	Employability -switched reluctance motor,stepper motors, and their applications,magnet dc motor,brush dc motor and brush less dc motor.	2021-22
264	Bio Medical Instrumentation	18CS7T14	Employability-diagnosis and therapy relatedequipments,Electrodes & Transducers Patient care & Monitoring	2021-22

265	Nano Electronics	18CS7T15	Employability-Basics of nano linear optics and electronics,Materials for nanoelectronics,Ballistic and Diffusive Transport,Electron transport in semiconductors and nanostructures,Electrons in traditional low-dimensional structures	2021-22
266	Software Project Management.	18CS7T16	Employability - Applying metrics for assessing quality & cost,SDLC methodology for development of artifacts for each lifecycles phases.	2021-22
267	Computer Architecture & Organization	18CS7T17	Employability/ Skill development:Encompasses all physical aspects of computer systems. E.g., circuit design, control signals, memory types.Know the difference between computer organization and computer architecture.Understand units of measure common to computer systems,Appreciate the evolution of computers.,Understand the computer as a layered system.Be able to explain the von Neumann architecture and the function of basic computer components.	2021-22
268	Technology Innovation Management	18CS7T18	Employability - Understand the technology trends in the market	2021-22
269	Global Environment Trends	18CS7T19	Employability - Understand the technology trends in the market	2021-22
270	Big Data & Hadoop Lab	18CS7L20	Skill development - Apply Map Reduce algorithms Design new algorithms using Map reduce on unstructured & structured data.	2021-22
271	Mini Project	18CS7L21	Skill development - Apply modern technologies, tools and systems in the field of Electronics & CommunicationEngineering, Design and implement a viable solution to the problem and analyse the identified problem and develop the team work and leadership skills with professional and ethical values.	2021-22
272	Image Processing	18CS8T03	Employability - Apply numerous transforms to images after gaining knowledge about their properties and analyze image enhancement techniques in spatial and frequency domain, Color image fundamentals	2021-22
273	Adhoc And Sensor Networks	18CS8T04	Employability -Analyze requirements of digital audio and video broadcasting for high-speed internet access and Compare different transport layer protocols.	2021-22
274	Human Computer Interaction	18CS8T05	Employability - Identify the basic components and interaction devices to interact with computers	2021-22
275	Artificial Intelligence & Neural Networks	18CS8T06	Employability - familiarize the basic principles of Artificial Intelligence towards problem solving Inference, Perception, Knowledge representation and Learning, Artificial Neural Networks , Characteristics, Models of Neuron, Learning Rules, Learning Methods, Stability and Convergence, Pattern Recognition and Feed forward Neural Networks, Feedback neural networks and Boltzmann machine, Feedback layer for different output functions. Pattern	2021-22

			Clustering and Mapping networks	
276	Soft Computing Techniques	18CS8T07	Employability -Soft Computing for enterprise , infrastructure as a service, Platform as service and monitoring &management of application in any enterprise will helps to student to fetch the employability.	2021-22
277	Satellite Communication	18CS8T08	Employability enhancement by introducing students to fundamentals like Sattellite communication for Engineers.	2021-22
278	Internet of Things	18CS8T09	Employability - Analyze state of the art-IoT Architecture. Design Real world IoT with privacy & security.	2021-22
279	Utilization of Electrical Energy	18CS8T10	Employability, Entrepreneurship & Skill Development - Practicals based on electronics device cuircuits.Uses the basic principles of operations of electrical machines	2021-22
280	Mechatronics	18CS8T11	Employability-Basic concepts of mechatronics, mechatronics system with the help of Microprocessor,PLC and other electrical and Electronics Circuits,concept of solid state Devices,Dynamic models & controllers	2021-22
281	Green Engineering Systems	18CS8T12	Employability -Bio-energy,Ocean thermal energy conversion, tidal, geothermal,Fuel Cells,Solar Energy Storage and Applications	2021-22
282	Micro - Electro - Mechanical Systems	18CS8T13	Employability, Entrepreneurship & Skill Development - Practicals based on electronics device cuircuits.Uses the basic principles of operations of electrical machines	2021-22
283	Civil Engineers	18CS8T14	Employability -basics of civil engineering and concepts of surveying,building materials and various types of building	2021-22
284	Polymer Chemistry	18CS8T15	Employability & Entrepreneurship - Thermodynamics, thermochemistry & its application, ionic equilibria, salt hydrolysis and buffer solution, phase rule and Nernst distribution law. quantum yields, photochemical processes and reactions	2021-22
285	Operating Systems	18CS8T16	Employability -Introduction to Operating System Concept,Process Management,Memory Management,Virtual Memory Management,Concurrency,Principles of deadlock,Linux System	2021-22
286	Robotics	18CS8T17	Employability - Describe current status of robotics technology and new development.	2021-22
287	Solar Energy Systems	18CS8T18	Employability/ Skill Development - Understand solar panels and its maintainance	2021-22
288	Power Quality	18CS8T19	Employability/ Skill Development	2021-22
289	Additive Manufacturing	18CS8T20	Employability -Additive Manufacturing Process,Machines for Rapid Prototyping,Rapid Prototyping,Tooling Processes,Direct Rapid Tooling Processes	2021-22
290	Advanced Civil Engineering Technologies	18CS8T21	Employability -basics of civil engineering and concepts of surveying,building materials and various types of building	2021-22
291	Deep Learning	20513T01	Employability - Apply unsupervised algorithms and hidden markov models in real time	2021-22

			applications.	
292	Social Network Analysis	20513T02	Employability	2021-22
293	Human Resource Management	20513T03	Employability - Identify the basic components and interaction devices to interact with computers	2021-22
294	Digital Marketing	20513T04	Employability / Skill Development - Understand the trends in digital marketing	2021-22
295	Multimedia and Application Development	18IT7T08	Employability - Analysis of Multimedia Application Development components	2021-2022
296	Big Data and Hadoop Lab	18IT7L20	Employability -Apply the novel architectures and platforms introduced for Big data, in particular Hadoop and MapReduce. Create No-SQL data bases and access the data	2021-2022
297	Mini Project/Internship	18IT7T21	Skill development - It may elevate the students to get exposure on recent trends in technologies ,Industry Oriented Practices and methodologies to helps for project development and employability.	2021-2022
298	Machine Learning & Deep Learning	18IT8T02	Employability - Ability to solve real world problems using machine learning algorithms	2021-2022
299	Principles of TCP/IP	18IT8T03	Employability - Develop Skills in Network Layer Protocols. Analyze Transport Layer Protocols.	2021-2022
300	Real Time Systems	18IT8T04	Employability - Design the various communication systems such as transmitter and receivers.Apply the base band modulation schemes in real time systems.	2021-2022
301	Introduction to Main-Frame Systems	18IT8T06	Employability -handle large-scale, data-intensive workloads and process huge amounts of data fast. They are often used for high-volume transaction processing, batch processing, data warehousing and analytics.	2021-2022
302	Machine Learning with Python	20MC3T01	Employability - Analyze types of nueral networks and types of learning	2021-2022
303	Big Data Analytics	20MC3T02	Employability -Apply the novel architectures and platforms introduced for Big data, in particular Hadoop and MapReduce. Create No-SQL data bases and access the data bases, using hive and hbase tools.	2021-2022
304	Cyber Security	20MC3T07	Employability - Analyse security issues arising from the use of certain types of technologies and evaluate the risks and threats to networked computers	2021-2022
305	Advanced Data Bases	20MC3T08	Employability - Outline various types of database systems.	2021-2022
306	Machine Learning with Python Lab	20MC3L09	Employability - Analyze types of nueral networks and types of learning	2021-2022
307	Big Data Analytics Lab	20MC3L10	Skill development - Analyze various computer forensic systems.	2021-2022
308	Internship / Industry Oriented Mini Project/ Skill Development Course Minimum 6	20MC2P12	Skill development - Apply the concepts of modern technologies & tools in the field of information technology and Identify engineering processes relevant to the industry	2021-2022



	weeks)			
309	Digital Marketing	20MC4T01	Employability - Contributes towards organisational growth by designing and implementing training and development programmes fro marketing	2021-2022
310	Human Resource Management	20MC4T02	Employability - Contributes towards organisational growth by designing and implementing training and development programmes.	2021-2022
311	Ad-hoc and Sensor Networks	20MC4T03	Employability - Analyze existing network protocols & networks. Develop new protocols in networking.	2021-2022
312	MOOCs-1(NPTEL/SWAYAM) / Full Stack Technologies /Any Recommended Course	20MC4T03	Skill development - Apply the concepts of modern technologies & tools in the field of information technology and Identify engineering processes relevant to the industry	2021-2022
313	Block Chain Technologies	20MC4T04	Skill Development-Used to share information amongst all parties that access it via an application. Access to the ledger in terms of reading and writing may be unrestricted ('permissionless'), or restricted ('permissioned').	2021-2022
314	MOOCs-2(NPTEL/SWAYAM) /Data Science /Any Recommended Course	20MC4T07	Skill development - Apply the concepts of modern technologies & tools in the field information technology and Identify engineering processes relevant to the industry	2021-2022
315	Building Construction And Materials	20CE1T04	Employability - Understand the concept of building materials and construction procedures	2020-21
316	Civil Engineering Workshop	20CE1L08	Employability - Understand the basic knowledge on civil engineering equipment and procedures	2020-21
317	Transform Techniques	20CE2T01	Employability - Understand the concept of transform techniques	2020-21
318	Engineering Mechanics	20CE2T03	Employability - Understand the concept of basic forces and mechanisam of couple and moments	2020-21
319	Building Planning And Drawing	20CE2T04	Employability - Understand the concept of drawing plan and section using basic knowledge	2020-21
320	Computer Aided Building Drawing Lab	20CE2L07	Employability - Understand the concept of drawing plan and section using basic knowledge in CAD	2020-21
321	Geotechnical Engineering	18CE5T04	Employability - Understand the concept and baisc konwledge on geotechnica engineering	2020-21
322	Hydrology & Water Resources Engineering	18CE5T05	Employability - Understand the concept of water resources engineering and basic terminology regarding dams and storage capacitites and problems	2020-21
323	Getechnical Engineering Lab	18CE5L08	Employability - Understand the concept and soil tests	2020-21
324	Constitution Of India	18CE5N09	Employability - Understand the concept of constitution of india basics	2020-21

325	Quantative Aptitude & Reasoning	18CE6T05	Employability - Understand the concept of airthamtic and reasoning techniques used in competitive exam	2020-21
326	Low Cost Housing	18CE6T06	Employability - Understand the concept of low cost housing methodology	2020-21
327	Applied Physics	20EE1T02	Employability - Application of laser in communication, Holography and non-linear optics	2020-21
328	Basic Mechanical Engineering	20EE1T04	Employability - Comprehensive knowledge of force, work and energy to calculate work done, power required and efficiency for various simple machines	2020-21
329	Applied Physics Lab	20EE1L07	Skill Development - Application of laser in communication, Holography and non-linear optics	2020-21
330	Electrical Engineering Workshop	20EE1L08	Skill development - Demonstrate various electrical wirings involved in home appliances/Perform basic maintenance and troubleshooting of household equipments	2020-21
331	Transform Techniques	20EE2T01	Employability - Apply the Orthogonality and multi resolution analysis for efficient signal processing	2020-21
332	Applied Chemistry	20EE2T02	Employability & Entrepreneurship - Thermodynamics, thermochemistry & its application, ionic equilibria, salt hydrolysis and buffer solution, phase rule and Nernst distribution law.quantum yields, photochemical processes and reactions	2020-21
333	Problem Solving Through C	20EE2T05	Employability/ Skill development: Develop and analyze algorithms for solving problems	2020-21
334	Applied Chemistry Lab	20EE2L06	Employability & Entrepreneurship - Thermodynamics, thermochemistry & its application,ionic equilibria, salt hydrolysis and buffer solution, phase rule and Nernst distribution law.quantum yields, photochemical processes and reactions	2020-21
335	Problem Solving Through C Lab	20EE2L08	Employability/ Skill development: Develop and analyze algorithms for solving problems	2020-21
336	Switchgear and Protection	18EE6T02	Employability - Distinguish between different types of relays, Design relevant protection schemes for main elements of relay	2020-21
337	Management Science	18EE6T04	Environment and Sustainability-To familiarize with the process of management and to provide basic insight into select contemporary management practices.To provide conceptual knowledge on functional management and strategic management.	2020-21
338	Research Methodology & IPR	20211T05	Employability -Introduction to Intellectual Property Rights (IPR),Copyrights and Neighboring Rights,Patents,Trademarks,Trade Secrets	2020-21
339	Special Electrical Machines	20212T04	Employability - Analyze the characteristics of different types of special machines	2020-21
340	Flexible AC Transmission Systems	20212T07	Employability - Analyze the performance of various power transmission systems.	2020-21
341	Embedded Systems	20213T02	Employability - Design networks for embedded systems using the features of CAN bus USB	2020-21

			bus,PCI bus and GPIB bus Apply software engineering practises in the embedded software development.	
342	Transform Techniques	20ME2T01	Employability - Apply the Orthogonality and multi resolution analysis for efficient signal processing.	2020-2021
343	Thermodynamics	20ME2T04	Employability - Analyze the thermal power plant components performance , working, efficiency and losses of thermal devices using the principles of thermodynamics	2020-2021
344	Environmental Science	20ME2M09	Employability	2020-2021
345	Management Science & Productivity	18ME5T02	Entrepreneurship	2020-2021
346	Turbo machines	18ME5T03	Employability - Performance Analysis of Refireration Systems and Internal Combustion Engines	2020-2021
347	Communication Skills Lab	18ME5L15	Skill development - Articulate English with good pronunciation. Face interviews and skillfully manage themselves in group discussions.	2020-2021
348	Essence of Indian Traditional Culture	18ME5T16	Entrepreneurship-impacting basic principles of thought process, reasoning and inferencing. Sustainability is at the core of Indian Traditional knowledge Systems connecting society and nature.	2020-2021
349	Design of Transmission Elements	18ME6T01	Employability	2020-2021
350	Disaster Management	18ME6T23	Employability - Respond according to the situation in case of occurrence of disaster, Develop the contingency plan to keep up the economy on track	2020-2021
351	Summer Internship	18ME6I24	Skill development - Identify, Formulate a problem to design and implement a viable solution. Ability to learn and use modern tools to solve problems efficiently.	2020-2021
352	Engineering Drawing	20EC2T05	Skill development - Develop and draw the orthographic and isometric projections of simple objects using Auto-CAD	2020-21
353	Engineering & IT Workshop	20EC2L07	Skill development -Workshop practise gives the basic working knowledge required for the production of various engineering products. It explains the construction, function, use and application of different working tools, equipment, machines as well as the technique of manufacturing a product from its raw material.	2020-21
354	Transform Techniques	20EC2T01	Employability - Apply the Orthogonality and multi resolution analysis for efficient signal processing	2020-21
355	Quantitative Aptitude & Reasoning	18EC5T05	Employability - demonstrate various principles involved in solving mathematical problems and thereby reducing the time taken for performing job functions.	2020-21
356	Solid State Devices and Circuits	18EC5T06	Employability -importance of semiconductors,Analyze Diodes characteristics,Differentiate various configurations,Design amplifiers at different applications using transistor. Analyze different	2020-21

			oscillators design.	
357	Principals of Communication	18EC5T07	Employability -Overview of Communication system,Angle Modulation, Frequency and Phase modulation,Pulse Amplitude Modulation (PAM), Pulse Width Modulation, Pulse Position Modulation,Pulse Code Modulation,Noise in Amplitude Modulation	2020-21
358	Analog and Digital Communications	18EC5T01	Employability, Entrepreneurship & Skill Development - Signal to noise factor, AM Transmitters, Angle and Pulse modulation, Television Engineering	2020-21
359	DSP Lab	18EC5L09	Skill development - Code the DFT and FFT algorithms used for TMS320C54XX processor.	2020-21
360	Communication Systems Lab	18EC5L10	Employability, Entrepreneurship & Skill Development - Signal to noise factor, AM Transmitters, Angle and Pulse modulation, Television Engineering	2020-21
361	Essence of Indian Traditional Knowledg	18EC5N11	Entrepreneurship-imparting basic principles of thought process, reasoning and inferencing. Sustainability is at the core of Indian Traditional knowledge Systems connecting society and nature.	2020-21
362	Cellular Mobile Communication	18EC6T03	Skill development- understanding of the cellular concept frequency reuse, handoff strategies and understand wireless and mobile cellular communication systems over stochastic fading channels .	2020-21
363	Internet of Things	18EC6T04	Skill development-key technologies in Internet of Things.wireless sensor network architecture and its framework along with WSN applications,resource management in the Internet of Things,Internet Of Things Privacy, Security And Governance	2020-21
364	Digital Signal Processor and Architecture	18EC6T05	Employability-transformations and design of filters,accuracy and errors in DSP implementations,Architectures of DSP systems,different DSP families.	2020-21
365	Employability skills 2	18EC6T07	Employability-Divisibility and remainder rules of numbers,Profit & loss, Simple interest and Compound interest,Ratio & proportions,Time and work,Boats and streams	2020-21
366	Computer Networks	18EC6T08	Employability-OSI and TCP/IP models,MAC layer protocols and LAN technologies,internet protocols,routing and congestion control algorithms,The Medium Access Control Sublayer	2020-21
367	Embedded Systems	18EC6T09	Skill development -Embedded systems are special-purpose computing systems embedded in application environments or in other computing systems and provide specialized support	2020-21
368	OOPS Through JAVA LAB	18EC6L11	Skill development - Implement and Test the concepts of OOP in program design with a few example exercises,performance of GUI based applications using AWT, Swings, performance of Exception handling, Multithreading concepts with a few examples	2020-21
369	Technical Seminar	18EC6P11	Skill development - Survey on latest developments in core technical domain, improve their audience centric presentation and adapt effective report writing skills	2020-21

370	Analog VLSI Design	20411T03	Employability - Design of Oscillators and Phase Locked Loops, efficient data converters and develop efficient analytical tools for quantifying the behavior of basic circuits, reference generators	2020-21
371	CMOS Mixed Signal Circuit Design	20412T03	Employability -MOS TRANSISTOR PRINCIPLES AND CMOS INVERTER,Switched Capacitor Circuits,Phased Lock Loop (PLL),Data Converter Fundamentals,Nyquist Rate A/D Converters,Oversampling Converters	2020-21
372	Web Technologies	18CS5T02	Employability - Design dynamic web pages and create real world web applications	2020-21
373	Formal Languages & Automata Theory	18CS5T04	Employability -Construct finite automata for regular expressions. Design Turing machines.	2020-21
374	Advanced Computer Architecture	18CS5T06	Employability - Analyze the working of Instruction flow computers and Data flow computers for VLSI computations, design the multi-processor systems with different memory configurations and develop the computer systems using SIMD processors with various interconnection networks.	2020-21
375	Advanced Operating Systems	18CS5T07	Employability -Introduction to Operating System Concept,Process Management,Memory Management,Virtual Memory Management,Concurrency,Principles of deadlock,Linux System	2020-21
376	Employability Skills: Competitive Coding	18CS5T08	Employability/Skill Development -Develop data structures using any programming language	2020-21
377	Optimization Techniques	18CS5T09	Employability - apply the theory of optimization methods and algorithms to develop and for solving various types of optimization problems, applying optimization techniques in problems of Engineering and Technology	2020-21
378	Electrical Engineering Materials	18CS5T10	Employability, Entrepreneurship & Skill Development - Practicals based on electronics device circuits.Uses the basic principles of operations of electrical machines	2020-21
379	Basics of Control Systems	18CS5T11	Employability -importance of Modelling of Control systems,First order & second order systems,transfer function analysis,Stability of the systems,States Space Analysis	2020-21
380	Design Thinking &Product Innovation	18CS5T12	Skill development - It helps the student with design thinking and project development activities and apply knowledge on real world problems which may get employability.	2020-21
381	Solid State Devices and Circuits	18CS5T13	Employability -Basics Concepts of Semiconductor Physics,Diodes,Trnsistors,Small Signal Transistor Amplifier models,Feedback Amplifiers and Oscillators	2020-21
382	Principles of Communication	18CS5T14	Employability -Angle Modulation, Frequency and Phase modulation,Pulse digital Transmission of Analog Signals,Digital Representation of Analog Signals,Noise in Amplitude Modulation	2020-21
383	Employability	18CS5T15	Employability - demonstrate various principles	2020-21

	Skills: Quantitative Aptitude & Reasoning		involved in solving mathematical problems and thereby reducing the time taken for performing job functions.	
384	Web Technologies Lab	18CS5L17	Skill development - Design and implement data driven web applications	2020-21
385	Software Engineering	18CS6T03	Employability - Apply knowledge of computing, mathematics, science, and engineering appropriate to the discipline, particularly in the modeling and design of software systems and in the analysis of tradeoffs inherent in design decisions.	2020-21
386	Internet of Things	18CS6T05	Employability - Analyze state of the art-IoT Architecture. Design Real world IoT with privacy & security.	2020-21
387	Distributed Systems	18CS6T06	Employability - Analyze Operating System support for designing distributed systems and Naming Services and Illustrate Time and Global States, Co-ordination and Agreement of peer-to-peer systems.	2020-21
388	Quantative Aptitude & Reasoning	18CS6T07	Employability - demonstrate various principles involved in solving mathematical problems and thereby reducing the time taken for performing job functions.	2020-21
389	Basic Civil Engineering	18CS6T08	Employability -basics of civil engineering and concepts of surveying,building materials and various types of building	2020-21
390	Sustainable Engineering Practices	18CS6T09	Skill development	2020-21
391	Disaster Management	18CS6T10	Employability - Respond according to the situation in case of occurrence of disaster, Develop the contingency plan to keep up the economy on track	2020-21
392	Low Cost Housing	18CS6T11	Skill development	2020-21
393	Design and Estimation of Electrical Systems	18CS6T12	Employability, Entrepreneurship & Skill Development - Practicals based on electronics device cuircuts.Uses the basic principles of operations of electrical machines	2020-21
394	Energy Audit, Conservation and Management	18CS6T13	Employability - Apply different control strategies used for energy auditing./ Evaluate different lightning schemes to improve energy efficiency.	2020-21
395	Nanotechnology	18CS6T14	Employability-Basics of nano linear optics and electronics,Materials for nanoelectronics,Ballistic and Diffusive Transport,Electron transport in semiconductors and nanostructures,Electrons in traditional low-dimensional structures	2020-21
396	Microprocessors and microcontroller	18CS6T15	Employability - Interface memory with 8086 Microprocessor/Apply Interrupts to handle multiple I/O devices	2020-21
397	Embedded Systems	18CS6T16	Skill development -Embedded systems are special-purpose computing systems embedded in application environments or in other computing systems and provide specialized support	2020-21
398	Employability Skills: Competitive	18CS6T17	Employability/Skill Development -Develop data structures using any programming language	2020-21

	Coding			
399	Computer Networks	18CS6T18	Employability - Analyze MAC layer protocols , TCP and UDP.	2020-21
400	Managerial Economics and Financial Analysis	18CS6T19	Employability - Business decisions based on Break-even analysis and cost-output relationship.	2020-21
401	Cross Cultural management	18CS6T20	Skill development	2020-21
402	Essence of Indian Traditional Knowledge	18CS6T23	Entrepreneurship-impacting basic principles of thought process, reasoning and inferencing. Sustainability is at the core of Indian Traditional knowledge Systems connecting society and nature.	2020-21
403	Software Engineering Lab	18CS6L22	Employability and Skill Development - Prepare SRS document, design document, test cases and software configuration management and risk management related document.	2020-21
404	Advanced Data Structures & Algorithms	20511T02	Employability and Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures like stacks, queues and linked lists	2020-21
405	Big Data Analytics	20511T03	Employability -Apply the novel architectures and platforms introduced for Big data, in particular Hadoop and MapReduce. Create No-SQL data bases and access the data bases, using hive and hbase tools.	2020-21
406	Digital Image Processing	20511T04	Employability - Apply numerous transforms to images after gaining knowledge about their properties and analyze image enhancement techniques in spatial and frequency domain, Color image fundamentals	2020-21
407	Advanced Operating Systems	20511T05	Employability -Introduction to Operating System Concept,Process Management,Memory Management,Virtual Memory Management,Concurrency,Principles of deadlock,Linux System	2020-21
408	Advanced Computer Networks	20511T06	Employability - Analyze MAC layer protocols , TCP and UDP.	2020-21
409	Internet of Things	20511T07	Employability - Analyze state of the art-IoT Architecture. Design Real world IoT with privacy & security.	2020-21
410	Object Oriented Software Engineering	20511T08	Employability -Develop error identification and testing strategies for code development. Reflect on the appropriateness of different software engineering methodologies in different circumstances.	2020-21
411	Advanced Data Structures & Algorithms Lab	20511L10	Employability and Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures like stacks, queues and linked lists	2020-21
412	Advanced Computing Lab	20511L11	Employability and Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures like stacks, queues and linked lists	2020-21
413	Constitution of India	20511M12	Audit course-Indian constitution include sovereignty, socialism, secularism, democracy, and republic. Apart from this justice, liberty and	2020-21



			fraternity are also a part of the objectives of the Indian constitution.	
414	Machine Learning	20512T01	Employability - Differentiate supervised, unsupervised and reinforcement learning, Covers the techniques on how to make learning by a model, evaluate it and understand different algorithms to construct a learning model.	2020-21
415	MEAN Stack Technologies	20512T02	Employability/ Skill Development/ Entrepreneurship - Develop web Applications using Scripting Languages & Frameworks , Illustrate the uses of web services concepts like restful, React JS	2020-21
416	Advanced Databases and Mining	20512T03	Employability/ Skill Development - preprocess data, build machine learning models	2020-21
417	Adhoc & Sensor Networks	20512T04	Employability -RFID Technology, Sensor Technology and Satellite Technology	2020-21
418	Soft Computing	20512T05	Employability -Soft Computing for enterprise , infrastructure as a service, Platform as service and monitoring &management of application in any enterprise will helps to student to fetch the employability.	2020-21
419	Cloud Computing	20512T06	Employability - Understand the cloud types, models and its examples	2020-21
420	Principles of Computer Security	20512T07	Employability -Identify the threats and remedial measures for system security and authorization	2020-21
421	High Performance Computing	20512T08	Employability - Design deep architectures and algorithms for pattern recognition.	2020-21
422	Machine Learning with Python Lab	20512L09	Employability/ Skill Development - Develop supervised, unsupervised and reinforcement learning, Covers the techniques on how to make learning by a model, evaluate it and understand different algorithms to construct a learning model.	2020-21
423	MEAN Stack Technologies Lab	20512L10	Employability/ Skill Development/ Entrepreneurship - Develop web Applications using Scripting Languages & Frameworks , Illustrate the uses of web services concepts like restful, React JS	2020-21
424	Diasaster management	20512M12	Audit Course - Respond according to the situation in case of occurrence of disaster, Develop the contingency plan to keep up the economy on track	2020-21
425	Problem solving through C	20IT1T05	Employability - Apply various operations on derived data types like arrays and strings in problem solving, design and Implement Modular Programming and memory management using pointers and implement user defined data structures used in specific applications.	2020-2021
426	Problem solving through C lab	20IT1L08	Skill development - Apply and practice logical formulations to solve some simple problems leading to specific applications, design effectively the required programming components that efficiently solve computing problems in real world and demonstrate C programming development environment, compiling, debugging, linking and executing a	2020-2021

			program using the development environment	
427	Transformation Techniques	20IT2T01	Employability - Apply Vector Integration for curves, surfaces and volumes and relationship among themselves. Evaluate the directional derivative, divergence and angular velocity of a vector function	2020-2021
428	Python Programming	20IT2T05	Employability - Apply tuple, set and file operations to organize the data in real world problems. Analyze various searching and sorting techniques using python and apply exception Handling, database operations in pytho	2020-2021
429	Python Programming Lab	20IT2L08	Skill development - Design and implement programs to process data. Explore the usage of exception handling and database interaction.	2020-2021
430	Design and Analysis of Algorithms	18IT5T03	Employability - Analyze various techniques for efficient algorithm design (divide and conquer, greedy, and Dynamic programming algorithms) and able to apply them while designing algorithms. Apply backtracking and branch and bound techniques to deal with some hard problems.	2020-2021
431	Formal Languages & Automata Theory	18IT5T04	Employability -Construct finite automata for regular expressions. Design Turing machines.	2020-2021
432	Internet of Things	18IT5T05	Employability - Analyze state of the art-IoT Architecture. Design Real world IoT with privacy & security.	2020-2021
433	Agile Technologies	18IT5T07	Employability - demonstrate the ability to manage a project including planning, scheduling and risk assessment/management	2020-2021
434	Compiler Design	18IT6T01	Employability - Design Turing machines. Execute top down parsing on context free grammars using LL(1),recursive descent and predictive parsers.	2020-2021
435	Business Intelligence	18IT6T04	Employability - Analyze how data mining techniques can be applied to complex data objects like spatial data, multimedia data and web mining. Identify Associations in large databases using different techniques.	2020-2021
436	Essence of Traditional Knowledge	18IT6T23	Entrepreneurship-impacting basic principles of thought process, reasoning and inferencing. Sustainability is at the core of Indian Traditional knowledge Systems connecting society and nature.	2020-2021
437	Software Engineering Lab	18IT6L22	Employability - demonstrate the ability to manage a project including planning, scheduling, Designing models and risk assessment/management	2020-2021
438	Computer Networks Lab	18IT6L21	Skill development - Familiarity with the basic protocols of computer networks, and how they can be used to assist in network design and implementation. Manage Data Communications System and its components.	2020-2021
439	Business Communication	20MC1T01	Skill development - Skillfully participate in debate, group discussion and interviews.	2020-2021
440	Mathematical and Statistical	20MC1T02	Skill development - Use statistical tests in testing hypotheses on data	2020-2021

	Foundations		Describe the properties of discrete and continuous distribution functions	
441	Business Communication Lab	20MC1L06	Skill development - Skillfully participate in debate, group discussion and interviews.	2020-2021
442	Project using Design Thinking	20MC1M09	Skill development - Design and implement a viable solution to the problem. Report the outcomes of the project by means of verbal and written presentation.	2020-2021
443	R Programming	18MC3T02	Employability - Make use of various types of statements, string handling functions and Design their own customized functions and Apply appropriate statistical tests on data using R . Skill development	2020-2021
444	Professional Ethics & Human Values	18MC3T08	Employability - Realize the importance and necessity of intellectual property rights and Knows the duties and rights towards the society in an engineering profession	2020-2021
445	Cryptography & Network Security	18MC4T05	Employability - Evaluate geometrical transformations including translation, scaling, rotation etc.	2020-2021
446	Distributed Systems	18MC4T06	Employability - Analyze Operating System support for designing distributed systems and Naming Services and Illustrate Time and Global States, Co-ordination and Agreement of peer-to-peer systems.	2020-2021
447	Effective Technical Communication	18CE3T01	Employability - Understand the concept of literature and language skills	2019-20
448	Numerical Methods And Probability Statistics	18CE3T02	Employability - Understand the concept of probability and statistics	2019-20
449	Life Science	18CE3T03	Employability - Understand the concept of basic engineering	2019-20
450	Professional Practice Law & Ethics	18CE4T01	Employability - Understand the concept of law and ethics	2019-20
451	Energy Science & Engineering	18CE4T02	Employability - Understand the concept of basic energy sources	2019-20
452	Concrete Technology Lab	18CE4L08	Employability - Understand the concept and mix design proportions of concrete and quality tests	2019-20
453	Geotechnical Engineering-II	R1641013	Employability - Understand the concept and analysis of soil classification and stress distribution	2019-20
454	Irrigation Design & Drawing	R1641015	Employability - Understand the concept of dams and canals drawing specifications and section details	2019-20
455	Ipr & Patents	R1641019	Skill development - Understand the basic concept patents and intellectual properties	2019-20
456	Traffic Engineering	R164101E	Employability - Understand the concept of traffic engineering and analysis of problems	2019-20
457	Ground Water Development	R164101I	Employability - Understand the concept of ground water development	2019-20
458	Construction Technology & Management	R1642012	Employability - Understand the concept of project management and construction equipment	2019-20
459	Prestressed	R1642013	Employability - Understand the concept of	2019-20

			design of prestressed members	
460	Seminar On Internship Project	R1642015	Skill development -Learn the internship procedure and report work	2019-20
461	Solid And Hazardous Waste Management	R164201C	Employability - Understand the concept of solid and hazardous waste process and techniques	2019-20
462	Complex Variables and Numerical Methods	18EE3T01	Employability - Apply various Numerical methods in solving and initial value problem involving and ordinary differential equation, estimate the best fit polynomial for the given tabulated data using the methods of Newton's Interpolation formulae and Lagranze's Interpolation and unknown dependent variables using curve fitting methods	2019-20
463	Analog Electronics-I	18EE3T03	Employability - Design different types of feedback amplifiers/Design clipper, clamper and comparators	2019-20
464	Basics of Mechanical Engineering	18EE3T06	Employability - Comprehensive knowledge of force, work and energy to calculate work done, power required and efficiency for various simple machines	2019-20
465	Analog Electronics Lab	18EE3L08	Employability - Design different types of feedback amplifiers/Design clipper, clamper and comparators	2019-20
466	Education Technology and Society	18EE3T09	Employability -Aware of the impacts of hazardous waste flow in society and apply the principles of CETP, EIA and Environmental Audit to develop the possible solutions to major environmental problems	2019-20
467	Analog Electronics-II	18EE4T01	Employability - Design different types of feedback amplifiers/Design clipper, clamper and comparators	2019-20
468	Power Systems – II	18EE4T04	Employability - Apply appropriate power flow method to power system problems./Analyze the various faults occurring on power systems and design the ratings of circuit breakers.	2019-20
469	Data Structures Through C	18EE4T06	Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures like stacks, queues and linked lists	2019-20
470	Control Systems & Simulation Lab	18EE4T07	Skill development - Effect of P, PD, PI, PID controller on second order systems, Design of controller for 2nd order system by using MATLAB	2019-20
471	Data Structures Through C Lab	18EE4T09	Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures like stacks, queues and linked lists	2019-20
472	Utilization of Electrical Energy	R1641021	Employability To understand the operating principles and characteristics of traction motors with respect to speed, temperature, loading conditions	2019-20
473	Linear IC Applications	R1641022	Employability - Design Voltage regulators,555 timer and its applications in Real World.	2019-20
474	Switchgear and Protection	R1641024	Employability - Distinguish between different types of relays, Design relevant protection schemes for main elements of relay	2019-20

475	Electrical Machine Modeling and Analysis	R164102D	Employability - Construct machine models based on different reference frames ,Synthesize equivalent circuit parameters for synchronous and asynchronous machines	2019-20
476	Advanced Control Systems	R164102D	Employability - Adaptive Control System, Sliding mode Control	2019-20
477	Programmable Logic Controllers & Applications	R164102D	Employability -Apply ASIC library cells to design different ASIC, Design and evaluate programmable ASIC, ASIC logic cells, ASIC I/O cells for implementation of different applications	2019-20
478	Electric Power Quality	R164102G	Employability - Analyze power quality issues, Identify suitable device for power quality measurements.	2019-20
479	Special Electrical Machines	R164102G	Employability - Analyze the performance of AC machines/Calculate the regulation of alternator experimentally.	2019-20
480	HVDC Transmission	R1642022	Employability - Analyze converters used in HVDC Transmission system	2019-20
481	Electrical Distribution Systems	R1642023	Employability - Apply power factor correction and voltage control methods to power system problems	2019-20
482	Complex Variables and Statistical Methods	18ME3T01	Employability - Apply various Numerical methods in solving and initial value problem involving and ordinary differential equation, estimate the best fit polynomial for the given tabulated data using the methods of Newton's Interpolation formulae and Lagranze's Interpolation and unknown dependent variables using curve fitting methods.	2019-20
483	Proficiency Through Reading & Writing Lab	18ME3L09	Skill development - Make power point presentations and oral presentations, Face interviews and skillfully manage through group discussions, competitive exams like GRE, TOEFL, IELTS etc., .	2019-20
484	Probability and statistics	18ME4T01	Employability	2019-20
485	IC Engines & Air Compressors	18ME4T04	Employability	2019-20
486	Computer Aided Machine Drawing	18ME4T05	Skill development - Codify the parts using GT codes and can apply GT system in automated manufacturing firm.	2019-20
487	Thermal engineering Lab	18ME4L10	Employability	2019-20
488	Indian constitution	18ME4T11	audit course-Indian constitution include sovereignty, socialism, secularism, democracy, and republic. Apart from this, justice, liberty, and fraternity are also a part of the objectives of the Indian constitution.	2019-20
489	Summer Internship	18ME4I12	Skill development - identify, Formulate a problem to design and implement a viable solution. Ability to learn and use modern tools to solve problems efficiently.	2019-20
490	Mechatronics	R1641031	Employability	2019-20
491	Additive Manufacturing	R164103C	Employability	2019-20
492	Design for Manufacture	R164103E	Employability	2019-20
493	CAD/CAM Lab	R1641037	Employability	2019-20
494	...	R1641038	...	2019-20

	Lab			
495	Signals & Systems Lab	18EC3L08	Employability - Knowledge about numerous signals and systems, Various operations performed on them as well as evaluation of system response	2019-20
496	Constitution of India	18EC3N09	Audit course-Indian constitution includes sovereignty, socialism, secularism, democracy, and republic. Apart from this, justice, liberty, and fraternity are also a part of the objectives of the Indian constitution.	2019-20
497	Humanities (Effective Technical Communication)	18EC4T01	Audit course-technical communication is to make information clear and understandable in order to make business more productive and consumer goods more convenient.	2019-20
498	Physics of Materials	18EC4T02	Skill development: Physical properties of materials; connection between structure and properties. We start at nanoscopic length scales (atoms, lattices), follow mesoscopic features, and describe how macroscopical properties depend on the former.	2019-20
499	Analog IC Applications	18EC4T03	Skill development: Analog integrated circuit design is used for designing operational amplifiers, linear regulators, oscillators, active filters, and phase locked loops	2019-20
500	Digital System Design Using HDL	18EC4T04	Employability - Understand the concepts of CMOS logic, digital circuits and HDLs, Design the combinational and sequential logic circuits using HDLs	2019-20
501	Analog IC Applications Lab	18EC4L07	Skill development: Analog integrated circuit design is used for designing operational amplifiers, linear regulators, oscillators, active filters, and phase locked loops	2019-20
502	Digital System Design Using HDL Lab	18EC4L08	Employability - Understand the concepts of CMOS logic, digital circuits and HDLs, Design the combinational and sequential logic circuits using HDLs	2019-20
503	Mini Project	18EC4L09	Skill development - identify, Formulate a problem to design and implement a viable solution. Ability to learn and use modern tools to solve problems efficiently.	2019-20
504	TV Engineering	R164104A	Employability-TV signal Transmission & propagation, monochrome TV Receiver, vision IF Subsystem,color signal decoding	2019-20
505	Electronic Switching Systems	R164104B	Employability-Crossbar Switching,Electronic Space Division Switching,Time Division Switching,Telephone Networks,Switching Networks,Integrated Services Digital Network	2019-20
506	System Design through Verilog	R164104C	Employability - Understand the concepts of CMOS logic, digital circuits and verilog HDLs, Design the combinational and sequential logic circuits using verilog HDLs	2019-20
507	Digital Signal Processing Lab	R1641048	Skill development - Code the DFT and FFT algorithms used for TMS320C54XX processor.	2019-20
508	Operating Systems	R164204C	Skill development-Introduction to Operating System Concept,Process Management,Memory Management,Virtual Memory Management,Concurrency,Linux System	2019-20
509	Probability & Statistics	18CS3T01	Employability - Compare various categories of programming languages	2019-20

510	Object Oriented Programming	18CS3T02	Employability -Identify Object Oriented Programming concepts through constructs of Java, Analyze Inheritance,Polymorphism,Packages, and Interfaces in Java and Design programs using Exception handling and Multi-threading mechanisms	2019-20
511	Effective Technical Communication	18CS3T05	Audit course-technical communication is to make information clear and understandable in order to make business more productive and consumer goods more convenient.	2019-20
512	Object Oriented Programming Lab	18CS3L07	Employability -Identify Object Oriented Programming concepts through constructs of Java, Analyze Inheritance,Polymorphism,Packages, and Interfaces in Java and Design programs using Exception handling and Multi-threading mechanisms	2019-20
513	R programming Lab	18CS3L09	Skill development - Apply the different distributions Use statistical tests in testing hypotheses on data Describe the properties of discrete and continuous distribution functions	2019-20
514	Indian Constitution	18CS3T06	Audit course-Indian constitution includes sovereignty, socialism, secularism, democracy, and republic. Apart from this, justice, liberty, and fraternity are also a part of the objectives of the Indian constitution.	2019-20
515	Technical Seminar	18CS3L10	Skill development - Survey on latest developments in core technical domain, improve their audience centric presentation and adapt effective report writing skills.	2019-20
516	Discrete Mathematics	18CS4T01	Employability - Apply the concepts of algebraic structures and combinatorics in real time applications	2019-20
517	Database Management Systems	18CS4T02	Employability - Understand relational and object oriented database technology for building applications for the current trend.	2019-20
518	Operating Systems	18CS4T04	Employability -Introduction to Operating System Concept,Process Management,Memory Management,Virtual Memory Management,Concurrency,Principles of deadlock,Linux System	2019-20
519	Managerial Economics & Financial Analysis	18CS4T05	Employability - Business decisions based on Break-even analysis and cost-output relationship.	2019-20
520	Professional Ethics	18CS4T06	Employability and Entrepreneurship - Give basic insights and inputs to the student to inculcate Human values to grow as a responsible human beings with proper personality, Instills the student to maintain ethical conduct and discharge their professional duties	2019-20
521	Operating Systems & Linux Programming Lab	18CS4L07	Employability -Introduction to Operating System Concept,Process Management,Memory Management,Virtual Memory Management,Concurrency,Principles of deadlock Linux System	2019-20



522	Database Management Systems Lab	18CS4L08	Skill development - Design & implement a database schema for a given problem-domain. Create database using SQL and implement various integrity constraints. Apply PL/SQL Programming for problem solving.	2019-20
523	Python Programming lab	18CS4L09	Skill development - Design and implement programs to process data. Explore the usage of exception handling and database interaction.	2019-20
524	Software Architecture & Design Patterns	R1641052	Employability - Analyze Dynamic Aspects of a system using Behavioral Diagrams and Runtime environment of Software Systems. Implement Creational Patterns, Structural Patterns and Behavioral Patterns for given applications.	2019-20
525	Web Technologies	R1641053	Employability - Design dynamic web pages and create real world web applications	2019-20
526	Managerial Economics and Financial Analysis	R1641054	Employability - Business decisions based on Break-even analysis and cost-output relationship.	2019-20
527	Big Data Analysis	R164105A	Employability -Apply the novel architectures and platforms introduced for Big data, in particular Hadoop and MapReduce. Create No-SQL data bases and access the data bases, using hive and hbase tools.	2019-20
528	Scripting Languages	R164105F	Employability - Implement Shell scripting in LINUX Kernel. Design AWK scripts for text processing and Apply Regular Expressions for Pattern Matching and Scripts for Process Creation & Network Management. Analyze multi-processing in Linux kernel.	2019-20
529	Software Architectures & Design Patterns Lab	R1641057	Skill development - Analyze Software Requirements for the given Software Application using Use Cases of UML. Develop the UML Diagrams to view Software System in Static and Dynamic Aspects	2019-20
530	Web Technologies Lab	R1641058	Skill development - Design and implement data driven web applications	2019-20
531	Concurrent and Parallel Programming	R164205A	Employability -Illustrate the parallel programming with Message passing interface(MPI) and Apply parallel programming with Open Message passing interface(Open MPI)	2019-20
532	Artificial Neural Networks	R164205B	Employability -Artificial Neural Networks , Characteristics, Models of Neuron, Learning Rules, Learning Methods, Stability and Convergence, Pattern Recognition and Feed forward Neural Networks, Feedback neural networks and Boltzmann machine, Feedback layer for different output functions, Pattern Clustering and Mapping networks	2019-20
533	Operation Research	R164205C	Employability - Resolve the complex problem into simple problems by dynamic programming approach and apply optimum strategies	2019-20
534	Seminar	R1642055	Skill development - Review literature, analyze complex engineering problems relevant to the society and industry, the insight into modern technologies, tools and systems in the field of Electronics & Communication Engineering and	2019-20

			Improve their presentation, communication and report writing skills	
535	Optimization Techniques	PG18CS3T03	Employability - apply the theory of optimization methods and algorithms to develop and for solving various types of optimization problems, applying optimization techniques in problems of Engineering and Technology	2019-20
536	Business Analytics	PG18CS3T04	Employability - Analyze the big data for useful business applications. Apply data science concepts & methods to solve problems in Predictive Analytics	2019-20
537	Dissertation – I	PG18CS3L06	Skill development - Analyze the practical industry oriented problems.	2019-20
538	Dissertation - II	PG18CS4L01	Skill development - Exhibits the capability to apply knowledge of fundamentals and develop understanding of advanced concepts of Information Technology.	2019-20
539	Probability & Statistics	18IT3T01	Employability - Statistical Hypothesis ,Tests of hypothesis using Student's t-test, F-test and test, Queuing Theory	2019-2020
540	Advanced Data Structures	18IT3T02	Employability - Design algorithms and employ appropriate advanced data structures for solving decomposition trees problems efficiently	2019-2020
541	Effective Technical Communication	18IT3T05	Audit course-technical communication is to make information clear and understandable in order to make business more productive and consumer goods more convenient.	2019-2020
542	Indian Constitution	18IT3L07	audit course-Indian constitution include sovereignty, socialism, secularism, democracy, and republic. Apart from this, justice, liberty, and fraternity are also a part of the objectives of the Indian constitution.	2019-2020
543	Advanced Data Structures Lab	18IT3L08	Skill development - Construct user defined structures and implements various applications.	2019-2020
544	Technical Seminar	18IT3L10	Skill development - Survey on latest developments in core technical domain, improve their audience centric presentation and adapt effective report writing skills.	2019-2020
545	Computer Organization & Architecture	18IT4T03	Employability - Apply the concepts of computer arithmetic algorithms, pipelining & vector processing used in digital computer system.	2019-2020
546	Operating Systems & linux programming Lab	18IT4L07	Skill development - Experiment with shell scripting and develop Linux Utilities using System Calls in C language. Simulate paging technique, file organization techniques and page replacement algorithms.	2019-2020
547	Python Programming Lab	18IT4L09	Employability and Skill Development - acquire programming skills in Python package NumPy and perform mathematical and statistical operations.	2019-2020
548	Probability & Statistics	18MC1T05	Skill development - Use statistical tests in testing hypotheses on data Describe the properties of discrete and continuous distribution functions	2019-2020
549	Environmental Studies	18MC1T08	Employability -Develop skills to investigate and solve issues in the environment/ Recognize the implications of the ways to feed and provide one self.	2019-2020
550	Management	18MC2T04	Entrepreneurship, impacting basic principles of	2019-2020

	Science		thought process, reasoning and inferencing.	
551	Biology for Engineers	18CE2T04	Employability - Understand how biological observations lead to major discoveries and the morphological, Biochemical and ecological classification of organisms.	2018-19
552	Basic Electrical & Electronics Engineering	18CE2T05	Employability - Understand how the basic connections and principles of electrical engineering	2018-19
553	Basic Electrical & Electronics Engineering Lab	18CE2L08	Employability - Understand how the basic connections and principles of electrical engineering	2018-19
554	Management Science	R1631011	Skill development - Understand the basic concept of management science and applications	2018-19
555	Transportation Engg. – II	R1631015	Employability - Understand the concept and design of railways and airways	2018-19
556	Concrete Technology Lab	R1631016	Employability - Understand the concept and mix design proportions of concrete and quality tests	2018-19
557	Transportation engg. Lab	R1631018	Employability - Understand the concept and highway material quality tests	2018-19
558	Geotechnical Engineering-I	R1632012	Employability - Understand the concept and basic knowledge on geotechnical engineering	2018-19
559	Waste Water Management(OE )	R163201D	Employability - Understand the concept and regarding water tests and quality performed and management of waste water treatments	2018-19
560	Geotechnical Engineering Lab	R1632016	Employability - Understand the concept and soil tests	2018-19
561	Environmental Engineering Lab	R1632017	Employability - Understand the concept and water quality tests	2018-19
562	Linear algebra and differential equations	18EE1T02	Employability - Apply first order and first degree differential equations to find Orthogonal trajectories and to calculate current flow in a simple LCR circuit, and developing continuous functions as an infinite series and compute the Jacobian to determine the functional dependence.	2018-19
563	Problem Solving Approaches through C	18EE1T04	Employability Coding and Problem solving for placement drive	2018-19
564	Engineering Graphics	18EE1T05	Employability - Understand the Auto-CAD basics and apply to solve practical problems used in industries where the speed and accuracy can be achieved and applying this idea and make design and modifications as required.	2018-19
565	Problem Solving Approaches through C Lab	18EE1L08	Employability/ Skill development: Develop and analyze algorithms for solving problems	2018-19
566	Field Practice Lab	18EE1L09	Skill development - Design and model different prototypes in the carpentry trade such as Cross lap joint, Dove tail joint and Perform various basic House Wiring techniques	2018-19
567	Vector Calculus and Fourier Transforms	18EE2T02	Employability - Apply the concepts of Laplace Transforms to solve ordinary differential equations, Z - Transforms to solve difference equations, Vector Integration for curves, surfaces and volumes and relationship among themselves and evaluate the directional derivative, divergence and angular velocity of a vector function	2018-19
568	Biology For	18EE2T04	Employability - Understand how biological observations lead to major discoveries and the	2018-19

			morphological, Biochemical and ecological classification of organisms.	
569	Power Systems – I	18EE2T05	Employability - study the layouts of different power generating stations	2018-19
570	Environmental Science	18EE2T09	Employability -Develop skills to investigate and solve issues in the environment/ Recognize the implications of the ways to feed and provide one self.	2018-19
571	Renewable Energy Sources	R1631022	Employability - Enhance the scope and explore the ways for developing the renewable energy sources as alternate for the non renewable energy sources and become entrepreneur	2018-19
572	Signals and Systems	R1631023	Employability - Understand the characteristics, graphical representation, operations, approximation and sampling of signals, Evaluate the Fourier and Laplace Transforms of continuous time domain signals and systems.	2018-19
573	Electrical Measurements Laboratory	R1631028	Employability/skill development -Calibrate the given energy meter/Analyze electrical circuits with AC and DC excitations experimentally	2018-19
574	Data Structures	R1632024	Employability - Apply and implement learned algorithm design techniques and data structures to solve problems	2018-19
575	Unix & Shell Programming	R163202E	Employability - Design shell scripts for simple tasks. Develop client/server applications using socket system calls and remote procedure call.	2018-19
576	OOPS Through JAVA	R163202E	Employability - Develop interactive programs using AWT components. Design interactive programs using swing components.	2018-19
577	VLSI Design	R163202E	Employability - Design Logic gates using Static CMOS, NMOS logic from schematic to layout/apply VLSI Design tools for CMOS based System Design	2018-19
578	Robotics	R163202E	Employability -Automation and Robotics, CAD/CAM and Robotics,robot kinematics, Dynamics, Trajectory planning, robotic arm motion,functioning of sensors and actuators	2018-19
579	Neural Networks &Fuzzy Logic	R163202E	Employability - Analyze various concepts and algorithms to design of associative memories and fuzzy logic system components.	2018-19
580	Energy Audit and Conservation& Management	R163202E	Employability - Evaluate different lightning schemes to improve energy efficiency, Analyze energy conservation measures for different case studies.	2018-19
581	Microprocessors & Microcontrollers Laboratory	R1632026	Skill development - Apply 8086 instructions to develop programs for real time applications like interfacing ADC, DAC, etc. to 8086, analyze the operation of instructions of 8086 for solving given problem and develop programming for 8051 applications.	2018-19
582	Data Structures Laboratory	R1632027	Employability - Apply and implement learned algorithm design techniques and data structures to solve problems	2018-19
583	Professional Ethics & Human Values(MC)	R1632028	Employability - Realize the importance and necessity of intellectual property rights and Knows the duties and rights towards the society in an engineering profession	2018-19
584	HVDC	PG18EE1T05	Employability -Introduction to the System Approach Processor Memory Design for	2018-19

			SOC,Interconnect Customization and Configuration,SOC Customization, Application Studies / Case Studies	
585	Analysis of power Electronic Converters	PG18EE1T02	Employability -Optimization algorithms for increasing the efficiency of algorithms for problem solving	2018-19
586	Simulation of Electrical Machines and Converters	PG18EE1L06	Employability - Design control circuits for different power converters, Analyze different power electronic converters for engineering practices	2018-19
587	Power Electronic Control of AC Drives	PG18EE2T01	Employability - Design suitable controllers for DC and AC Drives ,Select suitable electrical drives for industrial applications	2018-19
588	Renewable Energy Sources	PG18EE2T03	Employability - Apply the laws and principles of harnessing technologies of renewable energy and bring out the scope for developing the renewable energy sources as alternate sources and can become entrepreneur	2018-19
589	Electric Drives Lab	PG18EE2L05	Skill development - Control DC and AC drives using hardware controllers, Analyze the performance of different power electronic converters and drives using various hardware modules	2018-19
590	Mini Project with Seminar	PG18EE2P06	Skill development - Survey on latest developments in core technical domain, improve their audience centric presentation and adapt effective report writing skills.	2018-19
591	Digital control of drives	PG18EE3T01	Employability -MOS TRANSISTOR PRINCIPLES AND CMOS INVERTER, Switched Capacitor Circuits,Phased Lock Loop (PLL),Data Converter Fundamentals,Nyquist Rate A/D Converters,Oversampling Converters	2018-19
592	Comprehensive viva voce	PG18EE3V02	Skill development	2018-19
593	Project Phase – I Dissertation	PG18EE3P03	Employability - Analyze and identify the practical knowledge	2018-19
594	Project Phase – II Dissertation	PG18EE3P04	Employability - Analyze and identify the practical knowledge	2018-19
595	Linear Algebra & Differential Equations	18ME1T02	Skill development	2018-19
596	Problem solving through C	18ME1T04	Skill development	2018-19
597	Problem solving through C Lab	18ME1L08	Skill development	2018-19
598	Vector Calculus and Fourier Transforms	18ME2T02	Skill development	2018-19
599	Biology for Engineers	18ME2T04	Employability - Understand how biological observations lead to major discoveries and the morphological, Biochemical and ecological classification of organisms.	2018-19
600	Engineering Graphics	18ME2T06	Employability - Understand the Auto-CAD basics and apply to solve practical problems used in industries where the speed and accuracy can be achieved and applying this idea and make design and modifications as required.	2018-19
601	Basic Electrical & Electronics	18ME2L08	Skill development	2018-19

	Engineering Lab			
602	Theory of Machines Lab	R1631036	Employability	2018-19
603	Thermal Engineering Lab	R1631038	Employability	2018-19
604	COMPUTATIONAL FLUID DYNAMICS LAB	R1632038	Employability	2018-19
605	Advanced Stress Analysis	M18MD101	Employability	2018-19
606	Advanced Vibrations and Acoustics	M18MD102	Employability	2018-19
607	Advanced Engineering Materials	M18MD106	Skill development	2018-19
608	Numerical Simulation lab	M18MD112	Skill development	2018-19
609	Research Methodology and IPR	M18MD109	Skill development	2018-19
610	Audit Course - 1(Constitution of India)	M18MD110	Entrepreneurship	2018-19
611	Computer Aided Design	M18MD202	Skill development	2018-19
612	Robotics	M18MD204	Employability	2018-19
613	Simulation lab	M18MD212	Employability	2018-19
614	Audit -2(Disaster Management)	M18MD209	Entrepreneurship	2018-19
615	Problem solving through C and Python	18EC1T04	<b>Employability/ Skill development: Develop and analyze algorithms for solving problems</b>	2018-19
616	Engineering Graphics	18EC1T05	Employability - Understand the Auto-CAD basics and apply to solve practical problems used in industries where the speed and accuracy can be achieved and applyinh this idea and make design and modifications as required.	2018-19
617	Problem solving through C and Python Lab	18EC1L08	<b>Employability/ Skill development: Develop and analyze algorithms for solving problems</b>	2018-19
618	Biology for Engineers	18EC2T04	Employability - Understand how biological observations lead to major discoveries and the morphological, Biochemical and ecological classification of organisms.	2018-19
619	Basic Electronics & Electrical Engineering	18EC2T05	Employability, Entrepreneurship & Skill Development - Practicals based on electronics device cuircuits.Uses the basic principles of operations of electrical machines	2018-19
620	Basic Electronics & Electrical Engineering Lab	18EC2L08	Employability, Entrepreneurship & Skill Development - Practicals based on electronics device cuircuits.Uses the basic principles of operations of electrical machines	2018-19
621	Computer Architecture and	R1631041	Employability/ Skill development: Encompasses all physical aspects of computer systems. E.g.,	2018-19

			types. Know the difference between computer organization and computer architecture. Understand units of measure common to computer systems, Appreciate the evolution of computers., Understand the computer as a layered system. Be able to explain the von Neumann architecture and the function of basic computer components.	
622	Professional Ethics & Human Values	MC	To give basic insights and inputs to the student to inculcate Human values to grow as responsible human beings with proper personality. Professional Ethics instills the student to maintain ethical conduct and discharge their professional duties.	2018-19
623	OOPs through Java	R163204A	Skill Development-Understanding the OOP's concepts, classes and objects, threads, files, applets, swings and act.	2018-19
624	Industrial Robotics	R163204B	Employability - robot kinematics, Dynamics, Trajectory planning, robotic arm motion, sensors and actuators	2018-19
625	Power Electronics	R163204C	Employability - power semiconductor devices, single phase half wave and full-wave converters, types of DC-DC converters, operation of inverters and application of PWM techniques for voltage control and harmonic mitigation. AC-AC converters and switch mode power supplies operation	2018-19
626	Artificial Neural Networks	R163204E	Employability - Characteristics, Models of Neuron, Learning Rules, Learning Methods, Stability and Convergence, Pattern Recognition and Feed forward Neural Networks, Feedback neural networks and Boltzmann machine, Pattern Clustering and Mapping networks, Stability, Plasticity, Neocognitron and Different applications of Neural Networks	2018-19
627	Data Mining	R163204F	Employability - classical models and algorithms in data warehousing and data mining. Data Pre-processing, Classification, Cluster Analysis	2018-19
628	System on Chip Design	18411T05	Employability - Introduction to the System Approach, Processors, Memory Design for SOC, Interconnect Customization and Configuration, SOC Customization, Application Studies / Case Studies	2018-19
629	Soft Computing Techniques	18411T07	Employability - Optimization algorithms for increasing the efficiency of algorithms for problem solving	2018-19
630	Digital System Design using Verilog and VHDL LAB	18411L10	Skill development - Design CMOS Logic gates using Pyxis Schematic Editor and model digital modules using VHDL/Verilog and Simulate	2018-19
631	Embedded Real Time Operating Systems	18411T02	Employability - RTOS Introduction, RTOS Programming, Program Modeling – Case Studies, Target Image Creation & Programming in Linux	2018-19
632	DSP Processors & Architectures	18412T07	Employability - Introduction to Digital Signal Processing, Computational Accuracy in DSP Implementations, Architectures for Programmable DSP Devices Programmable	2018-19

			Digital Signal Processors,Analog Devices Family of DSP Devices	
633	Intellectual Property Rights And Patents	18412T11	Employability -Introduction to Intellectual Property Rights (IPR),Copyrights and Neighboring Rights,Patents,Trademarks,Trade Secrets	2018-19
634	English -1	18CS1T01	Employability - Think and analyze the situations and make good presentations of their work and decisions. Prepare one to face interviews and also participate in group discussions.	2018-19
635	Linear Algebra & Differential Equations	18CS1T02	Employability - Apply first order and first degree differential equations to find Orthogonal trajectories and to calculate current flow in a simple LCR circuit, and developing continuous functions as an infinite series and compute the Jacobian to determine the functional dependence.	2018-19
636	Applied Physics	18CS1T03	Employability - Application of laser in communication, Holography and non-linear optics	2018-19
637	Problem Solving Approaches	18CS1T04	Employability/ Skill development: Develop and analyze algorithms for solving problems	2018-19
638	Engineering Graphics	18CS1T05	Employability - Understand the Auto-CAD basics and apply to solve practical problems used in industries where the speed and accuracy can be achieved and applying this idea and make design and modifications as required.	2018-19
639	English Communication Skills Lab-1	18CS1L06	Skill development - Articulate English with good pronunciation. Face interviews and skillfully manage themselves in group discussions.	2018-19
640	Applied Physics Lab	18CS1L07	Skill Development - Application of laser in communication, Holography and non-linear optics	2018-19
641	Problem Solving Approaches Lab	18CS1L08	Employability/ Skill development: Develop and analyze algorithms for solving problems	2018-19
642	IT WORKSHOP	18CS1L09	Employability and Skill Development - System Assembling, Disassembling and identification of Parts / Peripherals, Operating System Installation, Network Configuration & Software Installation, Internet and World Wide Web etc.,	2018-19
643	ENGLISH–II	18CS2T01	Employability - Think and analyze the situations and make good presentations of their work and decisions. Prepare one to face interviews and also participate in group discussions.	2018-19
644	VECTOR CALCULUS AND FOURIER TRANSFORMS	18CS2T02	Employability - Apply various Numerical methods in solving and initial value problem involving and ordinary differential equation. Apply Vector Integration for curves, surfaces and volumes and relationship among themselves. Evaluate the directional derivative, divergence and angular velocity of a vector function	2018-19
645	APPLIED CHEMISTRY	18CS2T03	Employability & Entrepreneurship - Thermodynamics, thermo chemistry & its application, ionic equilibrium, salt hydrolysis and buffer solution, phase rule and Nernst distribution law. quantum yields, photochemical processes and reactions	2018-19
646	BIOLOGY FOR ENGINEERS	18CS2T04	Skill development - Understand the need of biology in engineering	2018-19
647	BASIC	18CS2T05	Employability, Entrepreneurship & Skill	2018-19



	ELECTRICAL AND ELECTRONICS ENGINEERING		Development - Practical's based on electronics device circuits. Uses the basic principles of operations of electrical machines	
648	DATA STRUCTURES THROUGH C	18CS2T06	Employability and Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures like stacks, queues and linked lists	2018-19
649	APPLIED CHEMISTRY LAB	18CS2L07	Employability- Thermodynamics, thermo chemistry & its application, ionic equilibrium, salt hydrolysis and buffer solution, phase rule and Nernst distribution law. quantum yields, photochemical processes and reactions	2018-19
650	DATA STRUCTURES THROUGH C LAB	18CS2L08	Employability and Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures like stacks, queues and linked lists	2018-19
651	ENVIRONMENTAL STUDIES	18CS2T09	Employability -Develop skills to investigate and solve issues in the environment/ Recognize the implications of the ways to feed and provide one self.	2018-19
652	Unix Programming	R1631052	Employability and Skill Development - Understand and apply UNIX command syntax and semantics	2018-19
653	Object Oriented Analysis and Design using UML	R1631053	Employability - Create a requirements model using UML class notations and use-cases based on statements of user requirements, and to analyze requirements models given to them for correctness and quality.	2018-19
654	Unified Modeling Lab	R1631056	Skill development - Apply basic and advanced structural modeling concepts for designing real time applications	2018-19
655	Professional Ethics & Human Values	MC	Professional Ethics & human values-To give basic insights and inputs to the student to inculcate Human values to grow as a responsible human beings with proper personality. Professional Ethics instills the student to maintain ethical conduct and discharge their professional duties.	2018-19
656	SOFTWARE TESTING METHODOLOGIES	R1632054	Employability - Apply reduction procedures to a control flowgraph and Make use of decision tables in test case design and Apply graph matrix techniques to solve flowgraphs and Test the software using state graphs.	2018-19
657	Artificial Intelligence	R163205A	Employability - familiarize the basic principles of Artificial Intelligence towards problem solving Inference, Perception, Knowledge representation and Learning	2018-19
658	Internet of Things	R163205B	Employability - Analyze state of the art-IoT Architecture. Design Real world IoT with privacy & security.	2018-19
659	Cyber Security	R163205C	Employability -Identify the threats and remedial measures for system security and authorization	2018-19
660	Digital Signal Processing	R163205D	Employability - Designing of digital filters for given specifications and their realization	2018-19
661	Embedded Systems	R163205E	Skill development -Embedded systems are special-purpose computing systems embedded in application environments or in other computing	2018-19

			systems and provide specialized support	
662	Robotics	R163205F	Employability - Describe current status of robotics technology and new development.	2018-19
663	SOFTWARE TESTING LAB	R1632057	Skill Development - Apply reduction procedures to a control flowgraph and Make use of decision tables in test case design and Apply graph matrix techniques to solve flowgraphs and Test the software using state graphs.	2018-19
664	Advanced Data Structures	PG18CS1T02	Employability and Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures like stacks, queues and linked lists	2018-19
665	Machine Learning	PG18CS1T03	Employability - Understand the types of Machine Learning Algorithms, implement basic algorithms and evaluate the algorithms.	2018-19
666	Distributed Systems	PG18CS1T07	Employability - Analyze Operating System support for designing distributed systems and Naming Services and Illustrate Time and Global States, Co-ordination and Agreement of peer-to-peer systems.	2018-19
667	Research Methodology and IPR	PG18CS1T09	Employability -Foundations of Research,Research Design,Qualitative and Quantitative Research,Sampling,Data Analysis	2018-19
668	English for Research Paper Writing	PG18CS1T10	Employability - Think and analyze the situations and make good presentations of their work and decisions. Prepare oneself to face interviews and also participate in group discussions.	2018-19
669	Advanced Data Structures Lab	PG18CS1L11	Employability and Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures like stacks, queues and linked lists	2018-19
670	Machine Learning Lab	PG18CS1L12	Employability/ Skill Development - Develop supervised, unsupervised and reinforcement learning, Covers the techniques on how to make learning by a model, evaluate it and understand different algorithms to construct a learning model.	2018-19
671	Advanced Algorithms	PG18CS2T01	Employability and Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures like stacks, queues and linked lists	2018-19
672	Soft Computing	PG18CS2T02	Employability -Soft Computing for enterprise , infrastructure as a service, Platform as service and monitoring &management of application in any enterprise will helps to student to fetch the employability.	2018-19
673	Data Preparation and Analysis	PG18CS2T03	Employability - Apply tuple, set and file operations to organize the data in real world problems. Analyze various searching and sorting techniques using python and apply exception Handling, database operations in python	2018-19
674	Human and Computer Interaction	PG18CS2T06	Employability - Identify the basic components and interaction devices to interact with computers	2018-19
675	Value Education	PG18CS2T09	Employability - Understand the value of education	2018-19
676	Advanced Algorithms Lab	PG18CS2L10	Employability and Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures	2018-19

			like stacks, queues and linked lists	
677	Data Preparation and Analysis Lab	PG18CS2L1 1	Skill development - Design and implement programs to process data. Explore the usage of exception handling and database interaction.	2018-19
678	Mini Project with Seminar	PG18CS2L1 2	Skill development - identify, Formulate a problem to design and implement a viable solution. Ability to learn and use modern tools to solve problems efficiently.	2018-19
679	Linear Algebra & Differential Equations	18IT1T02	Employability - Apply first order and first degree differential equations to find Orthogonal trajectories and to calculate current flow in a simple LCR circuit, and developing continuous functions as an infinite series and compute the Jacobian to determine the functional dependence.	2018-2019
680	Problem Solving Approaches	18IT1T04	Employability/ Skill development: Develop and analyze algorithms for solving problems	2018-2019
681	Engineering Graphics	18IT1T05	Employability - Understand the Auto-CAD basics and apply to solve practical problems used in industries where the speed and accuracy can be achieved and applying this idea and make design and modifications as required.	2018-2019
682	Problem solving Approaches lab	18IT1L08	Employability/ Skill development: Develop and analyze algorithms for solving problems	2018-2019
683	IT workshop	18IT2L09	Employability and Skill Development - System Assembling, Disassembling and identification of Parts / Peripherals, Operating System Installation, Network Configuration & Software Installation, Internet and World Wide Web etc.,	2018-2019
684	Vector Calculus & Fourier Transforms	18IT2T02	Employability	2018-2019
685	Biology for Engineers	18IT2T04	Employability - Understand how biological observations lead to major discoveries and the morphological, Biochemical and ecological classification of organisms.	2018-2019
686	Basic Electrical and Electronics Engineering	18IT2T05	Employability, Entrepreneurship & Skill Development - Practical's based on electronics device circuits. Uses the basic principles of operations of electrical machines	2018-2019
687	Data Structures through C	18IT2T06	Employability and Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures like stacks, queues and linked lists	2018-2019
688	Data Structures through C lab	18IT2L08	Employability and Skill development - Differentiate various searching and sorting algorithms and analyze Linear Data Structures like stacks, queues and linked lists	2018-2019
689	Probability & Statistics	18MC1T05	Skill development - Use statistical tests in testing hypotheses on data Describe the properties of discrete and continuous distribution functions	2018-2019
690	Environmental Studies	18MC1T08	Employability - Develop skills to investigate and solve issues in the environment/ Recognize the implications of the ways to feed and provide one self.	2018-2019
691	Management Science	18MC2T04	Entrepreneurship-impacting basic principles of thought process, reasoning and inferencing.	2018-2019

692	Professional Ethics & Human Values	18MC3T08	Employability - Realize the importance and necessity of intellectual property rights and Knows the duties and rights towards the society in an engineering profession systems and in the analysis of tradeoffs inherent in design decisions.	2018-2019
693	Cryptography & Network Security	18MC4T05	Skill development - Realize the importance and necessity Cyber security and Malware analysis	2018-2019
694	Distributed Systems	18MC4T06	Employability - Analyze Operating System support for designing distributed systems and Naming Services and Illustrate Time and Global States, Co-ordination and Agreement of peer-to-peer systems.	2018-2019
695	Employability Skills	18MC4T11	Skill development - Develop multitasking applications using RTOS, Linux on Zynq FPGA to develop embedded applications and create applications using ARM's Real Time Operating System RTX	2018-2019
696	Big Data Analytics	MC1651	Employability -Apply the novel architectures and platforms introduced for Big data, in particular Hadoop and Map Reduce. Create No-SQL data bases and access the data bases, using hive and hbase tools.	2018-2019
697	Python Programming	MC1653	Employability - Apply tuple, set and file operations to organize the data in real world problems. Analyze various searching and sorting techniques using python and apply exception Handling, database operations in python	2018-2019
698	cyber Security	MC16541	Employability - Analyze security issues arising from the use of certain types of technologies and evaluate the risks and threats to networked computers	2018-2019
699	Internet of Things	MC16551	Employability - Analyze IoT architecture for performance and security aspects, Build IoT platform using Raspberry pi, ARM and Arduino, IoT application using various protocols and Integrate Big Data and Visualization issues in IoT.	2018-2019
700	Big Data Analytics Lab	MC165A	Employability -Apply the novel architectures and platforms introduced for Big data, in particular Hadoop and Map Reduce. Create No-SQL data bases and access the data bases, using hive and hbase tools.	2018-2019
701	Python Programming Lab	MC165C	Employability, Skill development - Apply tuple, set and file operations to organize the data in real world problems. Analyze various searching and sorting techniques using python and apply exception Handling, database operations in python.	2018-2019