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

AY 2021-22

S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
1	Technical English	118ENT01	First Year Common	Skill Development - This course enhances increase students' efficiency in their academic and general reading, pronunciation in real-life situations, pronunciation in real-life situations and augmenting the technical writing skills like writing letters in formal and business situations	2018-2019
2	Engineering Mathematics-I	118MAT02	First Year Common	Skill Development - This course enable basic skills on the eigen value problems and differential equations of certain types, including systems of differential equations	2018-2019
3	Engineering Physics	118PHT03	First Year Common	Skill Development - This course provides skills on the concept of properties of matter, the properties of sound and principles of quantization of energy and coherent light and its importance	2018-2019
4	Engineering Chemistry	118CYT04	First Year Common	Skill Development - The students can understand and apply the concepts in electrochemistry and Energy storage devices, the chemistry of Corrosion, concepts of thermodynamics and phase equilibrium	2018-2019
5	Engineering Graphics	118EGT05	First Year Common	Skill Development - The students will learn graphics skill for communication of concepts, ideas and design of engineering products and expose them to existing national standards related to technical drawings.	2018-2019
6	Engineering Chemistry Laboratory	118CYP07	First Year Common	Skill Development - The students can understand and apply the concepts in electrochemistry and Energy storage devices, the chemistry of Corrosion, concepts of thermodynamics and phase equilibrium	2018-2019
7	Engineering Practice Laboratory	118EPP08	First Year Common	Skill Development - This course enable the student to learn about the basics of computer and problem solving methods.	2018-2019
8	Basic Civil and Mechanical Engineering	118ESE01	First Year Common	Skill Development - This course enble students to gain the knowledge on civil works like masonry, roofing, flooring and plastering	2018-2019
9	Communicative English	218ENT01	First Year	Skill Development - This course facilitate students amplify	2018-2019

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			Common	suitable language skills for academic and professional purposes, vocabulary power, different functions of technical and scientific English	
10	Engineering Mathematics-II	218MAT02	First Year Common	Skill Development - This course facilitates double and triple integration concepts and apply to study vector calculus comprising of surface and volume integrals along with the classical theorems involving them.	2018-2019
11	Environmental Science and Engineering	218GET03	First Year Common	Skill Development - This course enable students study the nature and facts about environment	2018-2019
12	Engineering Mechanics	218EMT04	First Year Common	Skill Development - This course make the students understand the vectorial and scalar representation of forces and moments, static equilibrium of particles and rigid bodies both in two dimensions	2018-2019
13	Problem Solving and Python Programming	218PPT05	First Year Common	Skill Development - This course enable the student to learn about the basics of computer and problem solving methods.	2018-2019
14	Material Science	218BSE01	First Year Common	Employability - crystal in latice points and crystal science	2018-2019
15	Thermodynamics in AE	318AET02	AE	Employability - Study thermodynamic principles, thermodynamics of state, basic thermodynamic relations,	2019-2020
16	Solid Mechanics	318AET04	AE	Employability - Understand the shear force and bending moment diagrams.	2019-2020
17	Production Technology	318AET05	AE	Entrepreneurship- Learn the operation of Lathe, UMM, UDM, and CNC machines	2019-2020
18	Elements of Aeronautics	318AEE06	AE	Employability -Understand the basic properties and principles behind the flight	2019-2020
19	Strength of Materials Laboratory	318AEP07	AE	Entrepreneurship - Students can able to determine the material hardness	2019-2020
20	Thermodynamics Laboratory	318AEP09	AE	Skill development - Study thermodynamic principles, thermodynamics of state, basic thermodynamic relations	2019-2020
21	Aerodynamics - I	418AET02	AE	Skill development - Evaluate and understand the Generation of Lift, wing theory and boundary layer concepts.	2019-2020
22	Aircraft Systems and Instruments	418AET03	AE	Skill development - Impart knowledge of the hydraulic and pneumatic systems components and types of instruments and its operation including navigational instruments to the students	2019-2020

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23	Aircraft Structures - I	418AET04	AE	Skill development - Study the basics of aircraft structural parts functioning and different types of beams and columns	2019-2020
24	Propulsion-I	418AET05	AE	Employability - Establish fundamental approach and application of jet engine components	2019-2020
25	Metal Joining Process and NDT	418AEE06	AE	Entrepreneurship - The basics of Metal joining process	2019-2020
26	Aircraft Structures Laboratory I	418AEP07	AE	Skill development- Identify statically determinate and indeterminate structures.	2019-2020
27	Aerodynamics Laboratory	418AEP08	AE	Entrepreneurship - Understand the visualization in water flow channel	2019-2020
28	Production Technology Laboratory	418AEP09	AE	Skill development - Students can able to assemble the designs on workbench	2019-2020
29	Aircraft structures II	518AET01	AE	Employability - Evaluate and understand the Generation of Lift, wing theory and boundary layer concepts.	2020-2021
30	Aircraft Performance	518AET02	AE	Entrepreneurship - Impart knowledge of the hydraulic and pneumatic systems components and types of instruments and its operation including navigational instruments to the students	2020-2021
31	Aerodynamics II	518AET03	AE	Skill development - Study the basics of aircraft structural parts functioning and different types of beams and columns	2020-2021
32	Propulsion II	518AET04	AE	Skill development- Establish fundamental approach and application of jet engine components	2020-2021
33	Aircraft rules and regulation	518AEE05	AE	Skill development - The basics of Metal joining process	2020-2021
34	Aircraft control engineering	518AEE10	AE	Skill development - Identify statically determinate and indeterminate structures.	2020-2021
35	Aircraft Structures Laboratory II	518AEP07	AE	Employability - Understand the visualization in water flow channel	2020-2021
36	Propulsion Laboratory	518AEP08	AE	Employability - Understand the milling and its experiments	2020-2021
37	Aircraft structures Repair laboratory	518AEP09	AE	Skill development - Use of sandwich panels for Aircraft industry	2020-2021
38	Composite Materials and Structures	618AET01	AE	Skill development - Know the various composite materials and structures used in aircraft Applications and their test methods.	2020-2021
39	Experimental Stress Analysis	618AET03	AE	Employability - Knowledge about measuring instruments, factors affecting measurements, errors and cor rective measurements.	2020-2021

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40	Applied Hydraulics and Pneumatics	618MEO01	AE	Skill development - Familiar with applications, advantages of the fluid power engineering and transmission systems.	2020-2021
41	Wind Tunnel Techniques	618AEE07	AE	Skill development - Study the principles of model testing	2020-2021
42	Aircraft Design Laboratory	618AEP07	AE	Employability - Compare different configuration of airplanes on Specifications and performance details of aircraft.	2020-2021
43	Materials Testing Laboratory	618AEP08	AE	Entrepreneurship - Knowledge about the basic principles of strength of materials to the undergraduate students through a series of experiments.	2020-2021
44	Aero Engine Repair laboratory	618AEP09	AE	Entrepreneurship - Understand the basic concept of piston engine components.	2020-2021
45	Fracture Mechanics and Mechanisms	718AET01	AE	Skill development - Obtain the knowledge about mechanical behaviour of a material under various loading conditions.	2021-2022
46	Avionics	718AET02	AE	Skill development - Understand the needs of avionics for both Civil and Military Aircraft.	2021-2022
47	Airline and Airport Management	718AET03	AE	Skill development - Gain the knowledge about Airline, Airport management principles and their functions.	2021-2022
48	Vibrations and Aero elasticity	718AET04	AE	Skill development - Understand the simple harmonic motion and terminologies involved in D' Alembert's principle of motion.	2021-2022
49	High Temperature Materials	718AEE07	AE	Employability - Acquaint the student with the fundamentals of creep.	2021-2022
50	Non Destructive Testing and Materials	718MEO02	AE	Skill development - understand principle behind various NDT techniques.	2021-2022
51	Avionics and Aircraft Systems Lab	718AEP07	AE	Employability - Design and implementation of data buses in avionics with MIL – Std. 1553B and remote terminal configuration and their importance in different applications in the field of Avionics.	2021-2022
52	Design and Fabrication of Aeromodelling (Mini Project)	718AEP08	AE	Employability - Conduct experiments by considering the constraints such as economics, environment, health and safety.	2021-2022
53	Industrial internship	718AEP12	AE	Entrepreneurship - Establishes desirable work habits, attitudes, and communication skills while developing a sense of responsibility	2021-2022
54	Rocket and missile	818AEE01	AE	Employability - Understand the Fundamentals and uses of solid, liquid and hybrid propellants in rocket systems.	2021-2022

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55	Computer Integrated Manufacturing	818AEE07	AE	Entrepreneurship- Learn the overall configuration and elements of computer integrated manufacturing	2021-2022
56	Operational Research	818AEE11	AE	Skill development-The industrial management and techniques of decision making, customer involvement, work-study, incentive schemes.	2021-2022
57	Architectural Drawing I	118ART03	ARCH	Employability/ Skill Development - Gain knowledge on the building representation in 2D and 3D forms in addition it helps to understand drawing as a medium to visualize and communicate design ideas and preparation of measured drawing.	2018-2019
58	Materials and Construction I	118ART04	ARCH	Employability/ Skill Development - Equip students with naturally occuring building materials that will look at the design and detail of various building components in a simple load bearing structure and with time it focus on latest trends in practice and usage of new technology/materials.	2018-2019
59	Art Studio	118ARP05	ARCH	Employability/ Skill Development - Enhance the Infographical presentation skills, visual expression and representation, imaginative thinking and creativity through a hands on working various medium and materials.	2018-2019
60	Basic Design	118ARP06	ARCH	Skill Development - Design as a process and as a final product and to understand about space, form and order as basic architectural skills.	2018-2019
61	Personality development	118ARE01	ARCH	Employability/Entrepreneurship/Skill Development - Equip students achieve effectiveness in their professional activities, harness skills and develop qualities suited for the profession.	2018-2019
62	Art appreciation	118ARE02	ARCH	Employability/ Skill Development - Enabling students to understand visual awareness, creativity and cultural understanding of Design as a Multidimensional creative Art.	2018-2019
63	Mechanics of Structures - I	218ART01	ARCH	Skill Development - Familiarize with the different types of stresses and strains in order to analyze the structural stability.	2018-2019
64	Architectural Drawing - II	218ART04	ARCH	Employability/ Skill Development - Enhance the skills of representation in drawings techniques and develop the graphical language of aARCH.	2018-2019
65	Materials and Construction - II	218ART05	ARCH	Employability/ Skill Development - Focus on various building materials and construction techniques based on the performing	2018-2019

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				standards and codes with the application of each material in both historical and modern context.	
66	Architectural Design Studio - I	218ARP06	ARCH	Employability/ Entrepreneurship/ Skill Development - Involve students in a design project with simple space planning and the understanding of the functional aspects of it which respond as both tangible factors such as geography and intangible factors such as culture.	2018-2019
67	Clay Modeling	218ARE01	ARCH	Employability/ Entrepreneurship/ Skill Development - Gain Knowledge on the physical and anatomical elements of 3D forms and capability to express the concepts three dimensionally.	2018-2019
68	Model Making	218ARE03	ARCH	Employability/ Entrepreneurship/ Skill Development - Equip students with the basic skills necessary to represent their ideas with various tools essential for making architectural models.	2018-2019
69	Mechanics of Structures – II	318ART01	ARCH	Skill Development - Familiarize the student with the effects of transverse forces in beams and implement the knowledge in design projects.	2019-2020
70	Climate Responsive ARCH	318ART03	ARCH	Employability - Equip the students with scientific background required to design climate responsive buildings, and its climate responsive considerations in architectural design of building and built up areas.	2019-2020
71	Materials and Construction – III	318ART04	ARCH	Employability/ Skill Development - Gain knowledge on the application of concrete in different buildings and construction industry to support the design from foundation to structural details.	2019-2020
72	Computer Aided Design Studio	318ARP06	ARCH	Employability/ Entrepreneurship/ Skill Development - Enable students to develop their design with the help of computation and presentation software to get the output of 2D and 3D model construction.	2019-2020
73	Architectural Design - II	318ARP07	ARCH	Employability/ Entrepreneurship/ Skill Development - Students will have a holistic understanding of the built environment as a complex entity shaped by social, economic and geographical factors and design a small scale project different users.	2019-2020
74	Vernacular ARCH of India	318ARE03	ARCH	Skill Development - Development of significant contribution	2019-2020

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				of vernacular ARCH of place in fabric of that city or region.	
75	Theory of Design	318ARE04	ARCH	Skill Development - Equip the students with the knowledge in the effective design process and address the architectural design in the contemporary times to foresee in the future and to prepare innovative methodologies.	2019-2020
76	Analysis & Design of Structures – I	418ART01	ARCH	Employability - Strengthen knowledge about structural forces in buildings and forces acting on vertical structural members and implement in design projects.	2019-2020
77	Environmental Science and Services	418ART02	ARCH	Employability - Focus on the ecosystem, prevention & protection act and understand about the water treatment, collection & distribution and sewage disposals to implement in the community design projects.	2019-2020
78	Site Planning & Analysis	418ART03	ARCH	Employability/ Skill Development - Equip students with the landform analysis through map and field observation, need and role of Surveying and Levelling related to ARCH, and provide insight in preparing a site analysis & site features in planning roads and parking.	2019-2020
79	Materials and Construction – IV	418ART04	ARCH	Employability/ Skill Development - Focus on ferrous & non-ferrous metals, its application in different building components in current trends.	2019-2020
80	Architectural Design - III	418ARP05	ARCH	Employability/ Entrepreneurship/ Skill Development - Thrust will be on rural materials, construction techniques and design details and understand the physical, technical and visual characteristics of a settlements at micro level.	2019-2020
81	Energy Efficient ARCH	418ARE01	ARCH	Employability - Sensitize the students to space-specific contextual factors in designing a sustainable built environment and the need to use alternative sources of energy in view of the depleting resources and climate change.	2019-2020
82	Ergonomics in Building Design	418ARE03	ARCH	Skill Development - Expose the students to the requirements of designing for the human comfort in accordance with anthropometry and will have knowledge of ergonomics and its applications in design including designing for the physically challenged and the elderly.	2019-2020
83	Analysis and Design of Structures - II	518ART01	ARCH	Employability - Acquainted with the knowledge of design of slabs and the concepts of large span structures and implement	2020-2021

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				the design of folded plate, sheels for large span structures.	
84	Materials and Construction - V	518ART03	ARCH	Employability/ Skill Development - Emphasis is given on importance of water and damp proofing in building construction and incorporate its application depending on the context like residential, theatre, swimming pool.	2020-2021
85	Building Services I (Electrical and Acoustic)	518ART04	ARCH	Employability - Expose students to design basic room acoustics and lighting measurements and provide optimum lighting, ventilation and acoustical solutions through simulations and design models.	2020-2021
86	Architectural Design - IV	518ARP05	ARCH	Employability/ Entrepreneurship/ Skill Development - Sensitize students to the specific requirements of design interventions in areas having significant built heritage characteristics, taking into social, cultural needs of contemporary urban life.	2020-2021
87	Structure and ARCH	518ARE01	ARCH	Employability - Familiarize the students with the concept of structural design through various architect works and integrate the contemporary structural design in the form making process of architectural design.	2020-2021
88	Waste management and recycling	518ARE02	ARCH	Employability - Equip the students about the categorizing of waste and recycling the waste products and integrate the learning into architectural design.	2020-2021
89	Specification Estimation & Budgeting	618ART01	ARCH	Employability/ Entrepreneurship/ Skill Development - Intended to impart students with the necessary technical knowledge for preparation of Specifications and calculating estimates and detailed costing for small to medium scale projects and able evaluate the cost and prepare a detailed rate analysis for buildings.	2020-2021
90	Interior Design Principles	618ART02	ARCH	Employability/ Skill Development - Gain knowledge on Interior Design principles and their applications in interiors, and to foster creative ability and inculcate skills to understand and conceive architectural design.	2020-2021
91	Building Services – II (Mechanical & HVAC)	618ART03	ARCH	Employability - Gain knowledge on the service components of the building like HVAC, Electrical, Plumbing and Acoustics. and explore the current trend in materials and construction technologies. and integrate its applications in building.	2020-2021

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92	Materials and Construction - VI	618ART04	ARCH	Employability/ Skill Development - Gain knowledge on innovative construction techniques adopted for floor, walls, roofs and various vertical movement for high rise building designs.	2020-2021
93	Architectural Design - V	618ARP05	ARCH	Employability/ Entrepreneurship/ Skill Development - Expose the students to the challenges of designing functionally complicated buildings, having a complex array of activities and specialised building service and integration of structural design.	2020-2021
94	Valuation of Real Properties	618CEO02	ARCH	Employability/ Entrepreneurship/ Skill Development - Familizing the students with the issues in financing and investing in real estate with an emphazing on commercial land values.	2020-2021
95	Product Design	618ARE02	ARCH	Employability/ Entrepreneurship/ Skill Development - To inculcate design centric approach satisfying the user needs, prototype fabrication.	2020-2021
96	BIM	618ARE03	ARCH	Employability/ Entrepreneurship/ Skill Development - Empowering students to use computers as 2D drafting and 3D modelling tool and to familiarize realistic rendering and architectural presentation techniques using computers.	2020-2021
97	Landscape ARCH & Design	718ART01	ARCH	Employability/ Skill Development - Gain an insight into the changing relationship of human with nature and understand and to comprehend the design perception on Landscape, that shall help in bringing analytical approach to landscape design	2021-2022
98	Human Settlement Planning	718ART02	ARCH	Employability - Expose students to the origin, growth and development of human settlements from ancient times to the present context and familiarize the students with Planning concepts and process in Urban and Regional Planning.	2021-2022
99	Architectural Working Drawing & detailing	718ARP03	ARCH	Employability/ Entrepreneurship/ Skill Development - Enable students to understand the essential components of working drawings, notations, drawing standards, strengthen the students' knowledge about preparing working drawings for various building elements.	2021-2022
100	Architectural Design - VI	718ARP04	ARCH	Employability/ Entrepreneurship/ Skill Development - Impart experience on research based design process and explore	2021-2022

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				design solutions in relation to the urban context.	
101	Sustainable Planning and ARCH	718ARE01	ARCH	Employability - Insight to emerging vulnerabilities of global warming and climate change and understand the contribution of building industry to the same and familiarize with the various approaches to achieving sustainable buildings and communities	2021-2022
102	Contemporary Process in ARCH	718ARE03	ARCH	Employability/ Skill Development - Enhance the Infographical presentation skills both manual and digital medium through documentation and rendering.	2021-2022
103	Urban Design	818ART01	ARCH	Employability - Sensitise the students about the concept of public realm, understanding of the city as a three dimensional entity and perception of spaces at multiple scales and propose for urban planning	2021-2022
104	Professional Practice & Ethics	818ART02	ARCH	Employability - Comprehensive introduction to architectural professional practice, office and project management, construction documentation, contracts, regulations, standards of ethical and professional activity and specialization in architectural practice.	2021-2022
105	Dissertation	818ARP03	ARCH	Skill Development - Enable students to conduct in depth analysis and objective research on a topic of their interest. and encouraged to select the topic which may eventually culminate in the Architectural Design Thesis in the subsequent semester.	2021-2022
106	Architectural Design - VII	818ARP04	ARCH	Employability/ Entrepreneurship/ Skill Development - Expose the students to the complexities of large-scale architectural interventions in specific urban settings, having multiple stakeholders.	2021-2022
107	Architectural Conservation	818ARE01	ARCH	Employability/ Skill Development - Exposure to critically analyse and evaluate heritage built forms and provide architectural solutions for conservation.	2021-2022
108	Disaster Mitigation & Management	818ARE04	ARCH	Employability - Provides a brief insight to disaster mitigation and management and cover the causes, impact and performance of structures, retrofitting and strengthening of existing structures both for cyclone and earthquake resilient buildings.	2021-2022

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109	Urban and Regional Planning	818ARE05	ARCH	Employability - Understand the contemporary issues in urban planning and implement the same in current trend.	2021-2022
110	Contemporary Housing	818ARE06	ARCH	Employability - Exposed tovarious techniques of Housing project formulation techniques and Housing Design strategies to be competent enough in the growing housing market.	2021-2022
111	Internship Program	915ARP01	ARCH	Employability/ Entrepreneurship/ Skill Development - Enable an orientation that would include the process of development of conceptual ideas, presentation skills, involvement in office discussions, client meetings, development of the concepts into working drawings, tendering procedure, site supervision during execution and coordination with the agencies involved in the construction process.	2019-2020
112	Thesis	1015ARP01	ARCH	Employability/ Entrepreneurship/ Skill Development - Involve in individual research and methodology to aide design problem solving, Acquire knowledge to formulate, program and design projects independently and student be able to demonstrate design project comprehension to independently formulate, analyse, and solve architectural problems.	2019-2020
113	Biochemistry	318BTT02	BT	Skill Development - This course provides students to get skill in various metabolic pathways and its regulation	2019-2020
114	Cell Biology	318BTT03	BT	Skill Development - This course enables students skill in cellular signalling mechanisms, cellular regulations and cell culture techniques	2019-2020
115	Microbiology	318BTT04	BT	Skill Development- This course provides skills in microbial classification, identification and control	2019-2020
116	Instrumental Methods of Analysis	318BTT05	BT	Skill Development - This course provides basic skills on biological instrumentation	2019-2020
117	Basic Industrial BT	318BTT06	BT	Skill Development - This course provides skills on production of biologically important products such as antibiotics, vitamins, alcohol, etc.,	2019-2020
118	Biochemistry Lab	318BTP07	BT	SkillDevelopment - This course provides basic skills on qualitative and quantitative identification of biomolecules	2019-2020
119	Cell Biology Lab	318BTP08	BT	Skill Development - This course provides basic skills on identification of cellular mechanisms	2019-2020
120	Microbiology Lab	318BTP09	BT	Skill Development - This course enables skills on microbial	2019-2020

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				culture techniques and identification of microorganisms	
121	Probability And Statistics	418PBT01	BT	Skill Development - This course enables skills on design of experiments and research methodologies	2019-2020
122	Molecular Biology	418BTT02	BT	Skill Development - This course provide skills on genomic and plasmid DNA and RNA isolation, PCR based techniques and cloning and expression of vectors	2019-2020
123	Stoichiometric And Process Calculations	418BTT03	BT	Skill Development - This course provide skills on stoichiometric calculations for various industrial operations	2019-2020
124	Fundementals of Unit Operations	418BTT04	BT	Skill Development - This course provide skills on bioreactor and heat transfer operations	2019-2020
125	Enzyme Technology	418BTT05	BT	Skill Development - This course provide skills on industriallly important enzyme production and activity determination	2019-2020
126	Environmental BT	418BTT06	BT	Skill Development - This course provide skills on environmental studies, bioremediation and waste management	2019-2020
127	Molecular Biology Lab	418BTP07	BT	Skill Development - This course provide skills on genomic and plasmid DNA and RNA isolation, PCR based techniques and cloning and expression of vectors	2019-2020
128	Instrumental Methods of Analysis Lab	418BTP08	BT	Skill Development - This course provides basic skills on biological instrumentation	2019-2020
129	Enzyme Technology Lab	418BTP09	BT	Skill Development - This course provide skills on industrially important enzyme production and activity determination	2019-2020
130	Bioinformatics	518BTT01	BT	Skill Development - The course provides the students with the skill of basics of database in biological system, sequence alignment, phylgogeny and CADD	2020-2021
131	Genetic Engineering	518BTT02	BT	Skill Development - This course provide skills on genomic and plasmid DNA and RNA isolation, PCR based techniques and cloning and expression of vectors	2020-2021
132	Bioprocess Engineering I	518BTT03	BT	Skill Development - The course offers the students with the skill set of handling equipment related to heat transfer. In addition, the course provides the students with an deeper insight into the diffusion, distillation, adsorption, extraction and leaching which is most important skills as a chemical process engineer	2020-2021
133	Fundamentals of Mass Transfer	518BTT04	BT	Skill Development - The course offers the students with the skill set of handling equipment related to heat transfer. In	2020-2021

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				addition, the course provides the students with an deeper insight into the diffusion, distillation, adsorption, extraction and leaching which is most important skills as a chemical process engineer	
134	Chemical Thermodynamics & Biothermodynamics	518BTT05	BT	Skill Development - The course offers the students with the skill set of handling equipment related to heat transfer. The course offers a insight into the basic skill sets like understanding the thermodynamics of the reaction, thermodynamics related to the microbial growth and the product formation	2020-2021
135	Genetic Engineering Lab	518BTP07	BT	Skill Development - The course provides the students with the skill set of generating a recombinant DNA, cloning and expression of vectors, genome mapping and sequencing and PCR based skills	2020-2021
136	Bioprocess Engineering Lab I	518BTP08	BT	Skill Development - The course offers a clear insight into the basic skills required for a Bioprocess Engineers. The course offers the students with the skill set of handling equipment related to chemical process engineer	2020-2021
137	Chemical Engineering Laboratory For Biotechnologists	518BTP09	BT	Skill Development - The course offers the students with the skill set of handling equipment related to heat transfer. In addition, the course provides the students with an deeper insight into the diffusion, distillation, adsorption, extraction and leaching which is most important skills as a chemical process engineer	2020-2021
138	Protein Engineering	618BTT01	BT	Skill Development - The course provides insight into the basic skills like understanding the protein structures	2020-2021
139	Chemical Reaction Engineering	618BTT02	BT	Skill Development - The course offers skills like design and analysis of ideal and non -ideal reactors, also provides insight into the skills like Bioreactor assembly and manufacturing	2020-2021
140	Bioprocess Engineering II	618BTT03	BT	Skill Development - The course focusses on the preparation, sterilization of media, design and optimization of media. Understand the basic of the different kinds of the fermenter and the kinetics of product formation	2020-2021
141	Health & Pharmaceutical BT	618BTT04	BT	Employability - The Course provides skills like design, manufacturing of drugs. The course also provides insight into	2020-2021

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				the standard protocols to be followed in a drug manufacturing facility	
142	Immunology	618BTT05	BT	Skill Development - The course provides the students with the skillset of raising antigen and antibodies against the various disease, and the detection procedure.	2020-2021
143	Bioprocess Engineering Lab II	618BTP07	BT	Skill Development - The course focusses on the preparation, sterilization of media, design and optimization of media. Understand the basic of the different kinds of the fermenter and the kinetics of product formation	2020-2021
144	Health & Pharmaceutical BT Lab	618BTP08	BT	Employability - The Course provides skills like design, manufacturing of drugs. The course also provides insight into the standard protocols to be followed in a drug manufacturing facility	2020-2021
145	Immunology Lab	618BTP09	BT	Skill Development - The course provides the students with the skillset of raising antigen and antibodies against the various disease, and the detection procedure.	2020-2021
146	Analytical Techniques In BT Lab	618BTP10	BT	Entrepreneurship - The course will help the students to enhance their language skills to the next level and will hone their presentation skills, active participation in GD, critical thinking and leadership skills.	2020-2021
147	Downstream Processing	718BTT01	BT	Skill Development - The course provides the students with the skill of choice of different downstream processing like filtration, chromatography, and other size-based methods	2021-2022
148	Plant BT	718BTT02	BT	Skill Development - The course is focussed in the manner to provide indepth application oriented skills like gene transfer in plants, transgenic and commercialization	2021-2022
149	Animal BT	718BTT03	BT	Skill Development - The course provides the students with the skill of animal disease, treatment, micromanipulation and transgenic animal technology	2021-2022
150	Genomics and Proteomics	718BTT04	BT	Skill Development - The course provides the students with the skill of genome and proteome analysis	2021-2022
151	Downstream Processing Lab	718BTP07	BT	Skill Development - The course provides the students with the skill of choice of different downstream processing like filtration, chromatography, and other size-based methods	2021-2022
152	Plant BT Lab	718BTP08	BT	Skill Development - The course is focussed in the manner to	2021-2022

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				provide indepth application oriented skills like gene transfer in plants, transgenic and commercialization	
153	Entrepreneurship Development Lab	718BTP09	BT	Entrepreneurship - The course provides entrepreneurship-based skills like managing a firm, small business and to start-ups	2021-2022
154	Mini Project	718BTP10	BT	Employability - The Project work provides the student with the skill set of managing project, planning and execution.	2021-2022
155	Clinical Research and Database Management	718BTE01	BT	Employability - The Course provides skills like design, manufacturing of drugs. The course also provides insight into the standard protocols to be followed in a drug manufacturing facility	2021-2022
156	Disaster Management	718BTE08	BT	Skill Development - Aseismic design is mandatory as per IS recommendations. This course develops the skill set required for aseismic design of structures	2021-2022
157	Bioethics, IPR and Entrepreneurship	818BTT01	BT	Entrepreneurship - The course provides entrepreneurship-based skills like managing a firm, small business and to start-ups. The course provides the student in promoting the Entrepreneurship with the basics of IPR generation and filing, bio business management and group presentation among the peers	2021-2022
158	Project Work	818BTP05	BT	Employability - The Project work provides the student with the skill set of managing project, planning and execution. In addition they provides the skill like report preparation, and presentation	2021-2022
159	Industrial Training	818BTP10	BT	Employability - The Project work provides the student with the skill set of managing project, planning and execution. In addition they provides the skill like report preparation, and presentation	2021-2022
160	Molecular Pathogenesis	818BTE03	BT	Employability - Offers the student with therapeutics of diseases	2021-2022
161	Medical Coding	818BTE09	BT	Employability - The course provides the students with the skill of basics of medical codes and transcripts	2021-2022
162	Engineering Physics Laboratory	118PHP07	BME	Skill Development-This course will help students to get practical knowledge on interference and diffraction, modulus of elasticity and apply those concepts in engineering domain	2018-2019

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163	Electric Circuits and Electron Devices	218EDT05	BME	Skill Development-Students can able to learn the basics in electric circuits and electron devices	2018-2019
164	Circuits and Devices Laboratory	218CDP09	BME	Skill Development-Students can able to design the basic electric circuits and study the characteristics of various semiconductor devices	2018-2019
165	Electrical Machines	318BMT02	BME	Skill Development-This course will help the students to understand the performance of AC and DC machines and transformers	2019-2020
166	Human Anatomy and Physiology	318BMT03	BME	Employability-Give knowledge about the different systems of the human body	2019-2020
167	Sensors and Measurements	318BMT04	BME	Skill Development-Get the knowledge about different types of sensors and measurement techniques	2019-2020
168	Medical Physics	318BMT05	BME	Skill Development-Gain the knowledge on light in medical applications and radiation effects on human body	2019-2020
169	Fundamentals of Data Structures In C	318BMT06	BME	Skill Development-Provides the knowledge on basic concepts of C programming.	2019-2020
170	Human Anatomy and Physiology Laboratory	318BMP07	BME	Employability-This subject will help the students to understand how the basic tests conducted in the clinical laboratory and provides opportunity to work in hospitals	2019-2020
171	Sensors and Measurements Laboratory	318BMP08	BME	Skill Development-Students will learn the characteristics of sensors	2019-2020
172	Fundamentals of Data Structures in C Laboratory	318BMP09	BME	Skill Development-This subject will help the students to understand how to write a C Programming.	2019-2020
173	Analog Integrated Circuits	418BMT02	BME	Skill Development- Learn the basic concepts of feedback amplifiers and current and voltage sources	2019-2020
174	Digital Logic Design	418BMT03	BME	Skill Development-Students can able to design sequential logic circuits.	2019-2020
175	Pathology and Microbiology	418BMT04	BME	Employability-This course will help the students to understand various diseases in humans caused by pathogens and microbes	2019-2020
176	Biochemistry	418BMT05	BME	Employability-Gain knowledge on biomolecules and its chemical reactions in the human body.	2019-2020
177	Signals, Systems and Analysis	418BMT06	BME	Skill Development-This course will help the students to understand the types of signals and systems and how to analyze the signals.	2019-2020

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178	Integrated Circuits Laboratory	418BMP07	BME	Skill Development-This course will help the learn how to design filter circuits, oscillators and wave form generators using op amp.	2019-2020
179	Pathology and Microbiology Laboratory	418BMP08	BME	Employability-Students can able to estimate hematological parameters	2019-2020
180	Biochemistry Laboratory	418BMP09	BME	Employability-Students can get practical knowledge on analysis of carbohydrates, lipids and proteins qualitatively and quantitatively	2019-2020
181	Biomedical Instrumentation	518BMT01	BME	Employability-This course will help the students to understand about the different biomedical equipment used in the hospitals and get job in the hospitals and industries.	2020-2021
182	Digital Signal Processing and Biomedical Applications	518BMT02	BME	Skill Development-Provide knowledge on basic concepts of digital signal processor and design of various digital filters	2020-2021
183	Microprocessor and Microcontroller System Design	518BMT03	BME	Skill Development-This course enables students to understand the ARCH and assembly language programming of microprocessors and microcontrollers	2020-2021
184	Bio Control Systems	518BMT04	BME	Skill Development-Students can able to get knowledge on control system concept and different mathematical techniques applied in analyzing any given system	2020-2021
185	Analog and Digital Communication	518BMT05	BME	Skill Development-Provides the knowledge different modulation and demodulation techniques used in signal communication	2020-2021
186	Virtual Instrumentation	518EIO01	BME	Skill Development-This course enables students to understand various programming techniques in virtual instrumentation	2020-2021
187	Biomedical Instrumentation Lab	518BMP07	BME	Employability-Provides practical knowledge to handle biomedical equipments used for in medical applications and helps to get job in healthcare sector	2020-2021
188	Microprocessor and Microcontroller Lab	518BMP08	BME	Skill Development-Students can develop the code in assembly language programming.	2020-2021
189	Digital Signal Processing Lab	518BMP09	BME	Skill Development-Students can design and analyse various filter techniques using MATLAB.	2020-2021
190	Diagnostic Equipment	618BMT01	BME	Employability-Helps to understand the diagnosis of various diseases using diagnostic equipment	2020-2021
191	Therapeutic Equipment	618BMT02	BME	Employability-This course will help the students to understand different equipment's used to treat the diseases of the patients.	2020-2021

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
192	Radiological Equipment	618BMT03	BME	Employability-Provides knowledge on how the radiations are used for diagnosis and treatment of diseases using radiological equipment	2020-2021
193	Biomaterials & Artificial Organs	618BMT04	BME	Employability-Student can learn the different biomaterials used in the body for the implantable devices.	2020-2021
194	Medical Safety & Quality Assurance	618BME05	BME	Employability-Enable students to understand medical safety standards used for the medical equipment	2020-2021
195	Computer Networks	618BMO01	BME	Skill Development-This course will help the students to understand the different layers of the OSI Model and Protocols used in the different layers for sending the information from one place to another.	2020-2021
196	Diagnostic and Therapeutic Equipment Lab	618BMP07	BME	Employability-This course will help the students to handle different diagnostic and therapeutic equipment used for diagnosis and therapy	2020-2021
197	Employability Skills Lab	618BMP08	BME	Employability-Enhances the employability skills of students with a special focus on presentation skills, group discussion skills and interview skills	2020-2021
198	Hospital Training	618BMP09	BME	Entrepreneurship-Students can get training of various equipment in hospital and get opportunity to work in hospitals and industries	2020-2021
199	Medical Optics	718BMT01	BME	Skill Development-This course will help the students to understand the optical principles used in different medical applications	2021-2022
200	Biomechanics	718BMT03	BME	Employability-Student can able to apply principles of mechanics that is used to analyse human movement	2021-2022
201	Medical Informatics	718BMT04	BME	Skill Development-Students can able to analyse the role of informatics in engineering and medicine	2021-2022
202	Rehabilitation Engineering	718BME08	BME	Employability-Students can get knowledge about rehabilitation and orthotic devices in Rehabilitation Engineering	2021-2022
203	Digital Image Processing Lab	718BMP07	BME	Skill Development-Provides practical knowledge on the medical image processing using MATLAB	2021-2022
204	Mini Project	718BMP08	BME	Employability-This course will help the students to find the problem in the society and giving the solution using the engineering concepts.	2021-2022

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
205	Interpersonal Skills/Listening & Speaking	718BMP09	BME	Skill Development-This course will help the students can able to improve their communication and listening skills, presentation skills	2021-2022
206	Hospital Engineering & Management	818BMT01	BME	Entrepreneurship-Enables students to understand fundamentals of hospital administration and management	2021-2022
207	Assist Devices	818BME04	BME	Employability-This course focuses on orthotic and prosthetic medical devices	2021-2022
208	Advanced Medical Instrumentation	818BME07	BME	Employability-This course will help the students to understand the various biomedical equipment used in the hospital.	2021-2022
209	Chemistry for Technologists	218BSE03	CH	Skill development- Suggest the applications of gas laws in real life situations, characteristics and properties of solutions	2018-2019
210	Organic Chemistry	318CHT02	CH	Skill development- Concepts related to the reaction mechanisms, rearrangements and synthesis of new compounds will develop their skills	2019-2020
211	Chemical Process Calculations	318CHT03	CH	Skill development/Employability-The knowledge of material and energy balance calculations on different Unit operations and Unit process will enhance their employability and skills	2019-2020
212	Instrumentation Methods And Analysis	318CHT04	CH	Employability- Understand the principles of various spectroscopic , chromatographic, and electro anlaysis techniques and analyse the quality of chemical products.	2019-2020
213	Materials Technology	318CHE04	CH	Skill development-Able to design the support column, beams, pipelines, storage tanks and reaction columns and also solve the problems related to beams, shafts and columns.	2019-2020
214	Organic Chemistry Laboratory	318CHP07	CH	Employability- Anlayse the nature of organic compound, characteristics of various functional groups	2019-2020
215	Technical Analysis Laboratory	318CHP08	CH	Employability-Analyse the properties of various chemical products will enhance the employability in quality analysis.	2019-2020
216	Chemical Process Industries	418CHT03	CH	Skill development- Concepts on various aspects of process industries and understands the methods of production of different chemicals, plant and equipment design	2019-2020
217	CH Fluid Mechanics	418CHT04	CH	Skill development-Knowledge on types of fluid flow and also on the discharge measurement by using different equipment at different conditions, Fluid properties, their characteristics while static and during flow through ducts, pipes and porous medium, types of forces, losses and several machineries to	2019-2020

S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				transport the fluid and their performance.	
218	Mechanical Operations	418CHT05	CH	Skill development-Decide the usage of equipment for industrial application with respect to size reduction, equipment to screen ,different blends and mixing techniques ,various filtration equipment's and thickeners	2019-2020
219	Renewable Energy Technologies	418CHE03	CH	Entrepreneurship-Recognize the renewable energy sources with their situation and exploration ,energy conversion systems in wind and geothermal energy, solar and ocean energy harnessing, biomass and biogas conversion and its application, Fuel and MHD in industries	2019-2020
220	Fluid Mechanics Laboratory	418CHP07	CH	Skill development- Estimate the coefficient of discharge for flow through open and closed channels, show relationship between Reynolds number and friction factor, fluid flow in circular pipes, orifice and venture meters, coefficient of rectangular and triangular notches, characteristic studies of submersible and centrifugal pump	2019-2020
221	Physical Chemistry Laboratory	418CHP08	CH	Skill development-Understand the principles, properties and characteristics of solvents and mixtures, molecular weight of solute using different methods	2019-2020
222	CH Thermodynamics	518CHT02	CH	Skill development- Able to learn terminology associated with engineering thermodynamics, design and analyze of the open and closed system in chemical process plants, Predict the changes in the properties of real fluids ,vapour-liquid or liquid-liquid equillibria of ideal and non-ideal chemical mixtures, equilibrium constants, standard enthalpy, Gibbs free energy and equilibrium compositions for single and multiple reaction systems	2020-2021
223	Mass Transfer-I	518CHT04	CH	Skill development- Able to apply the concepts of inter phase mass transfer in gas- liquid, liquid-liquid and solid – liquid mass transfer operations, design Cooling towers, dryers and crystallizers	2020-2021
224	Oil and Natural Gas Engineering	518CHE04	CH	Skill development-Able to learn properties and composition of cure oil and production of natural gas, properties processing of natural gas, environmental aspects of gas processing	2020-2021
225	Heat Transfer Laboratory	518CHP07	CH	Skill development-the thermal conductivity for various	2020-2021

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				conductors and Stefan Boltzmann constants ,evaluate heat transfer co-efficient and evaluate performance of different types of equipments including heat exchangers, condensers, heat transfer co-efficient under natural and forced convection mode of heat transfer	
226	CH Computation Laboratory	518CHP08	CH	Skill development-Equipped with the software applications and the numerical solutions of CH problems, optimize the various factors using the computational techniques	2020-2021
227	Employability skills Laboratory	518CHP09	CH	Skill development-Articulate their views clearly and concisely with self-confidence and persuasiveness, prevailing practices of testing in the recruitment process by the corporates and the institutional selection processes, communicate the corporate and social requirements in an impressive written mode	2020-2021
228	Mass Transfer – II	618CHT01	CH	Skill development-Concepts mass transfer and separation principles in several unit operations like absorption, distillation, number of theoretical stages in a stage-wise mass transfer processes, separation principles in several unit operations like liquid-liquid extraction, leaching and adsorption	2020-2021
229	Chemical Reaction Engineering-I	618CHT02	CH	Skill development-Apply the basic principles of reaction kinetics, reactor design and non ideality in reactors in process industries ,choose a suitable single or multiple reactor system, design a reactor ,non ideal flow reactors, concept of heterogeneous reactions	2020-2021
230	Process Dynamics and Control	618CHT03	CH	Skill development-Able to design of process control systems, suggest the suitable advanced controllers for different chemical process	2020-2021
231	Chemical Process Plant Safety	618CHT04	CH	Skill development-Able to perform hazard analysis, identify various accidents ,provide proper remedial measures, understand the safe working environment	2020-2021
232	Food Science and Technology	618CHE06	CH	Skill development-skills related to heat preservation, cold preservation with processing and various methods followed in food processing industries, production and utilization of food products	2020-2021
233	Health and Pharmaceutical BT	618BTO04	CH	Skill development- Design the formulations of various dosage	2020-2021

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				forms, pharmacokinetics and metabolisms of drugs	
234	Process Control Lab	618CHP07	CH	Skill development-Able to evaluate of its performance using MATLAB Simu-link software in dynamic study of processes, and design of controllers	2020-2021
235	Mass Transfer Laboratory	618CHP08	CH	Skill development-Able to determine the diffusivity, mass transfer rate, drying rate, efficiency in leaching / extraction and mass transfer coefficient of a given system using fundamental principles, choose a mass transfer operation for separation of a mixture into pure components	2020-2021
236	Chemical Process Equipment Design and Drawing Laboratory - I	618CHP09	CH	Employability- Able to design and draw considerations of process equipment through performing required calculations for the process equipment design	2020-2021
237	Chemical Reaction Engineering – II	718CHT01	CH	Skill development-Able to evaluate the temperature and pressure effects in ideal reactors, nature of fluid – solid and gas – liquid non catalytic reactions and selection of reactors, catalysis process, mechanism, pore diffusion in catalyst, and operation of heterogeneous catalytic reactors	2021-2022
238	CH Plant Design and Economics	718CHT02	CH	Entrepreneurship-Understand various costs involved in a process industry and Compute break even period for rate of return. Calculate the taxes by different methods, estimate profitability of a company, work with balance sheets, concept of management and also personnel management, labour management relations	2021-2022
239	Transport Phenomena	718CHT03	CH	Skill development-Develop mathematical models of momentum, equations of change , heat and mass transport to determine respective fluxes and velocity, temperature and concentration distribution, turbulence and boundary layer concept and analogy between transport processes	2021-2022
240	CH Modelling and Simulation	718CHT04	CH	Skill development-Apply the fundamentals of modeling and their applications to transport/energy equations, chemical and phase equilibria kinetics, formulate the mathematical models of stirred tank heaters, heat exchangers, evaporators, reactors and distillation column, analyze the simulation principles of steady state processes	2021-2022
241	Modern Separation Techniques	718CHE03	CH	Skill development-Analyze different types of separation	2021-2022

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				techniques based on size, surface properties, cross flow filtration ,design equations for membrane separation processes such as RO&UF, affinity and immuno chromatographic columns	
242	Solid waste Management	718CHE05	CH	Skill development-Judge the nature and characteristics of municipal solid wastes and the regulatory requirements regarding municipal solid waste management and plan waste minimization, design and storage to reduce waste	2021-2022
243	Industrial waste water Treatment	718CHE08	CH	Skill development- Decide on different treatment techniques physical, chemical, and biological methods for the treatment of industrial waste water and finds a solution	2021-2022
244	Fundamentals of Nanotechnology	718CHE10	CH	Skill development-application of carbon nanotubes and process the involved, learn microfabrication different types of NEMS, MEMS and learn principles of microscopes	2021-2022
245	Chemical Reaction Engineering Laboratory	718CHP07	CH	Employability- Design and draw heat and mass transfer equipments, various heads in chemical plants	2021-2022
246	Chemical Process Equipment Design & Drawing Laboratory-II	718CHP08	CH	Employability- Estimate the rate constant of a chemical reaction through performance analysis of PFR, PBR, CSTR and RTD in reactors and kinetics studies	2021-2022
247	CH Simulation Laboratory	718CHP09	CH	Employability- Decide on the optimizations and simulation of the various chemical processes	2021-2022
248	Total Quality Management	818CHT01	CH	Entrepreneurship-Knowledge on quality, analysis techniques for quality costs, role of senior management, quality systems and need of quality systems.	2021-2022
249	Petroleum Refinery Engineering	818CHE02	CH	Skill development-Knowledge about various exploration techniques of petroleum with properties and specifications of various petroleum products, various separation processes ,various conversion processes employed with safety and pollution aspect	2021-2022
250	Corrosion Engineering	818CHE10	CH	Skill development-Principles of Corrosion and understand the environmental effects, different types of corrosion and corrosion testing methods, design and apply modern protection coatings	2021-2022
251	Project Work & Viva Voce	818CHP04	CH	Employability/ Entrepreneurship/ Skill development- Able to apply the concepts of CH to solve the existing real time	2021-2022

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				industrial and societal issues	
252	Physics for CE	218BSE05	CE	Employability - Content in the syllabus will help to Integrate the principles in the projects undertaken in field of CE	2018-2019
253	Mechanics of Solids	318CET02	CE	Employability-gain knowledge on stress,strain and material properties used in construction industry	2019-2020
254	Mechanics of Fluids	318CET03	CE	Employability-gain knowledge in behaviour and design of hyrdualic structures	2019-2020
255	Construction Materials &Structural Geology	318CET04	CE	Entrepreneurship--gain knowledge in various building materials and construction techniques and geology of earth	2019-2020
256	Engineering Survey	318CET05	CE	Entrepreneurship/Skill Development-gain knowledge in various surveying techniques and equipments which enhances employment opportunities	2019-2020
257	Value Education Program	318CET06	CE	Employability- to understand engineering ethics and human values which is important in career throughout	2019-2020
258	Engineering Survey Laboratory	318CEP07	CE	Skill Development-gain knowledge in various surveying techniques and equipments which enhances employment opportunities	2019-2020
259	Building Materials & Construction Practices Laboratory	318CEP08	CE	Skill Development-gain knowledge in testing of various building materials used in construction	2019-2020
260	Applied Hydraulic Engineering	418CET03	CE	Employability- Concepts of fluid mechanics and applications to fluid machinery will enable the students to perform better as an engineer during their employability	2019-2020
261	Geotechnical Engineering	418CET04	CE	Employability-to understand, soil as an engineering material the load- deformation behaviour, through its index and engineering properties	2019-2020
262	Water Supply Engineering	418CET05	CE	Employability-gain knowledge in water supply system	2019-2020
263	3D Printing and Design	418CEE06	CE	Entrepreneurship/Skill Development-gain knowledge in 3D Printing techniques which enhances the skill of the student	2019-2020
264	Strength of Materials Laboratory	418CEP07	CE	Skill Development-gain knowledge in testing materials for strength	2019-2020
265	Hydraulic Engineering Laboratory	418CEP08	CE	Skill Development-gain knowledge on various hydraulic engineering problems like open channel flows and hydraulic machines	2019-2020
266	Transportation Engineering-I	518CET01	CE	Employability-helps in planning and design of highway	2020-2021

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				structures	
267	Structural Analysis – I	518CET02	CE	Employability-gain basic knowledge on analysing structures	2020-2021
268	Design of RCC Structures	518CET03	CE	Skill Development-Design skill of RC memebers helps in design of safe and stable RC structures	2020-2021
269	Foundation Engineering	518CET04	CE	Employability-suggest and design a suitable foundation for a structure depending on the type of soil. Also understand and analyze different types of earth pressure and perform stability checks for retaining wall	2020-2021
270	Concrete Technology	518CET05	CE	Employability- This course develops skills in concreting technology	2020-2021
271	Remote Sensing	518CEE01	CE	Employability-gain knowledge on different types types of remote sensing platforms and sensors	2020-2021
272	Environmental Engineering Laboratory	518CEP07	CE	Skill Development-gain knowledge on water testing and environmental pollutants	2020-2021
273	Soil Mechanics Laboratory	518CEP08	CE	Skill Development-knowledge on soil tests and investigations helps in CE projects	2020-2021
274	Computer Aided Design - I	518CEP09	CE	Entrepreneurship/Skill Development-ain knowledge on software used for drafting and it helps in employment opportunities	2020-2021
275	Transportation Engineering-II	618CET01	CE	Employability-gain skills to plan and design Railways , Airports and Harbour structures	2020-2021
276	Structural Analysis – II	618CET02	CE	Employability-gain knowledge in analysis of structures to find design forces	2020-2021
277	Design of Steel Structures	618CET03	CE	Skill Development-Design of steel structures as per IS codes is essential for a civil engineer. He can design steel structures such as beams, columns, roof truss, gantry girder, etc.	2020-2021
278	Sanitary Engineering	618CEE02	CE	Employability-gain knowledge to design various unit operations and processes for sewage treatment system and hence can handle waste water disposal issues	2020-2021
279	Groundwater Engineering	618CEE09	CE	Employability - Enhance the knowledge on well characteristics and groundwater exploration.	2020-2021
280	Personality Development	618ARO01	CE	Employability - Develop qualities suited for the profession.	2020-2021
281	Computer Aided Design - II	618CEP07	CE	Entrepreneurship/Skill Development-gain knowledge on software used for drafting and it helps in employment	2020-2021

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				opportunities	
282	Concrete and Highway Engineering Laboratory	618CEP08	CE	Skill Development-find the mechanical properties of concrete and assess the quality of bitumen through laboratory tests.	2020-2021
283	Extensive Survey Camp	618CEP09	CE	Entrepreneurship/Skill Development-through hands on training and applications on survey methods and equipments helps in employability opportunities as a surveyor	2020-2021
284	Estimation, Costing and Valuation Engineering	718CET01	CE	Entrepreneurship/Skill Development-Knowledge in cost estimation and valuation enhances the job opportunity in the construction field	2021-2022
285	Irrigation Engineering	718CET02	CE	Employability-design skills for irrigation structures enhance their placement opportunities in the Civil consultancy offices	2021-2022
286	Disaster Mitigation & Management	718CET03	CE	Employability - gain knowledge about information technologies in disaster risk management. Also enhances awareness of Disaster Risk Management institutional processes in India	2021-2022
287	Transportation Planning and Systems	718CEE04	CE	Employability - gain knowledge to design streets and highways that are safe and efficient to move vehicular traffic, accommodate transit, pedestrians and bicyclists with minimal environmental impacts	2021-2022
288	Ground Improvement Techniques	718CEE07	CE	Skill Development-Knowledge in ground improvement techniques helps to take up jobs related to Bridge constructions. Also acquires knowledge on the reinforcement details and the use of Geotextiles for filtration, drainage and separation in road and other works.	2021-2022
289	Irrigation and Environmental Engineering Drawing	718CEP07	CE	Skill Development - Design various concept of reinforced concrete structures regarding environmental and irrigation operations which helps in Consultancy services for Government projects	2021-2022
290	Project Phase I	718CEP08	CE	Entrepreneurship/Skill Development- Students develop their skills in doing research or desgin and enhance their technical report writing and presentation	2021-2022
291	Summer Internship / Summer training (min. 4 weeks)	718CEP09	CE	Entrepreneurship/Skill Development-This course will help the students to get knowledge on presenting their ideas ,creativity and paper presentation.	2021-2022
292	Construction Planning and Project	818CET01	CE	Entrepreneurship-knowledge on Construction planning &	2021-2022

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
	Management			scheduling helps in High profile construction companies	
293	Prefabricated Structures	818CEE04	CE	Skill Development-Prefabricated structures is the innovative construction practice and useful for placements	2021-2022
294	Maintenance, Repair and Rehabilitation of Structures	818CEE06	CE	Entrepreneurship-Students will develop skill sets regrind the materials and techniques required for maintenance and rehabilitation of structures	2021-2022
295	Project Phase II	818CEP04	CE	Entrepreneurship/Skill Development-Students develop their skills in doing research or desgin and enhance their technical report writing and presentation	2021-2022
296	Database Management Systems Laboratory	318CSP08	CSE	Skill Development -course content helps to learn various DB design principles and techniques to build web application	2019-2020
297	OOPs and Data Structures Laboratory	318CSP09	CSE	Employability -Enhancing the problem solving Skills through the knowledge of data structures	2019-2020
298	Probability and Queuing Theory	518PQT01	CSE	Skill Development- this course helps students in boosting their calculating ability	2020-2021
299	Object Oriented Analysis and Design	518CST03	CSE	Skill Development -This course enables the student to develop object oriented based solutions using java programming language	2020-2021
300	Theory of Computation	518CST04	CSE	Skill Development- it helps students to find how efficiently problems can be solved on a model of computation, using an algorithm	2020-2021
301	Object Oriented Analysis and Design Laboratory	518CSP08	CSE	Skill Development - students will implement software models and designs at labs	2020-2021
302	Scripting Language	518CSE02	CSE	Skill Development - This course is to provide students with an overview of the concepts and fundamentals of Principles of Programming Languages.	2020-2021
303	Compiler Design	618CST02	CSE	Skill Development - This course will help the students the basic techniques that underlie the practice of Compiler Construction.	2020-2021
304	Artificial Intelligence	618CST05	CSE	Skill Development- this course provides the knowledge of understanding and developing an artificial intelligence	2020-2021
305	Mobile Application Development Laboratory	618CSP07	CSE	Skill Development - This course enables the student to develop his Practical Skills set in mobile application development	2020-2021

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306	Multi core ARCH	618CIE01	CSE	Skill Development- this course helps to learn about the working of hardware systems	2020-2021
307	Parallel and Distributed Computing	618CSE02	CSE	Skill Development - This course covers a broad range of topics related to parallel and distributed computing.	2020-2021
308	Applied Statistics and Numerical Methods	618MAE03	CSE	Employability - This course will help the students to model the real life problems	2020-2021
309	Network Design and Management	618CSE04	CSE	Skill Development- this course helps in understanding different network protocols	2020-2021
310	Machine Learning Techniques	718CST02	CSE	Skill Development -To build predictive models using advanced Machine Learning Techniques	2021-2022
311	Mobile Computing	718CST03	CSE	Skill Development- this course helps the students in designing mobile based cloud platforms and applications	2021-2022
312	Machine Learning Laboratory	718CIP07	CSE	Skill Development -To build predictive models using advanced Machine Learning Techniques	2021-2022
313	Cloud Computing Laboratory	718CIP08	CSE	Skill Development and Employability - Foundations to emerging technology - Study of virtualization concepts and various Cloud Computing ARCH, Service and Delivery models	2021-2022
314	Building Enterprise Application	718CIE02	CSE	Entrepreneurship -this course helps students in working with business related applications	2021-2022
315	Pervasive Computing	718CIE03	CSE	Skill Development- this course helps students in performing pervasive computing	2021-2022
316	Information Storage Management	718CIE04	CSE	Skill Development- this course helps to prevent data breach and secure data	2021-2022
317	Cyber Security and Law	718CIE06	CSE	Skill Development - It helps to protect computer and data from cyber attacks and evaluate existing legal framework and laws on cyber security.	2021-2022
318	Wireless Ad hoc and Sensor Networks	818CSE05	CSE	Employability - Students can develop and test high speed networks in communication industry	2021-2022
319	Block Chain Technologies	818CSE06	CSE	Skill Development- this course helps students to work under block chain related concepts and technologies	2021-2022
320	Service Oriented ARCH	818CIE07	CSE	Skill Development- this course helps in performing software oriented products and handling them weth required measures	2021-2022
321	Digital Forensics	818CSE08	CSE	Skill Development- this course helps in viewing and analysing	2021-2022

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				real-time data inputs that has to be configured	
322	Deep Learning Techniques	818CSE09	CSE	Employability -Learn deep learning ARCHs to build intelligent applications	2021-2022
323	Visualization Techniques	818CSE10	CSE	Skill Development- this course helps the students to study about the data based on the metadata	2021-2022
324	Software Quality Assurance	818CSE11	CSE	Entrepreneurship - Apply the concepts of nation income and understand the functions of bank and globalization	2021-2022
325	Web Mining	818CSE12	CSE	Employability - this course helps students to design web based applications	2021-2022
326	Physics for Electronics Engineering	218BSE08	ECE	Skill Development-This course gives knowledge about fundamental physics in electronics engineering	2018-2019
327	Signals and Systems	318ECT02	ECE	Skill Development-Able to test analog and digital signals and process the same in real time applications.	2019-2020
328	Analog Electronics - I	318ECT04	ECE	Employability-Provides knowledge in Integrated Circuits which avails the student employment in core industry	2019-2020
329	Digital Electronics	318ECT05	ECE	Employability-Students can design and test analog circuits such as amplifiers and in electronic system design	2019-2020
330	Analog Electronics –I Laboratory	318ECP08	ECE	Employability-Provides knowledge in Integrated Circuits which avails the student employment in core industry	2019-2020
331	Digital Electronics Laboratory	318ECP09	ECE	Employability-Students can design and test analog circuits such as amplifiers and in electronic system design	2019-2020
332	Probability and Random Processes	418PRT01	ECE	Skill Development-Provides the fundamentals of probability logic and statistics in building analytics-based solutions.	2019-2020
333	Electrical Engineering and Instrumentation	418ECT02	ECE	Employability-Provides skill in Electrical Engineering and Instrumentation, hence student to get employment in core industry	2019-2020
334	Linear Integrated Circuits	418ECT03	ECE	Skill Development-Provide knowledge in usage of IC's, designing and developing theoretical device/circuit operation of digital circuits	2019-2020
335	Analog Electronics -II	418ECT04	ECE	Employability-Students can design and test analog circuits such as amplifiers and oscillators	2019-2020
336	Consumer Electronics	418ECE02	ECE	Employability-This course provide an opportunity to develop consumer need based applications	2019-2020
337	Green Electronics	418ECE03	ECE	Employability-This course provide an opportunity to develop	2019-2020

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				socio-environmental need based applications	
338	Electrical Engineering Laboratory	418ECP07	ECE	Employability-Provides skill in Electrical Engineering and Instrumentation, hence student to get employment in core industry	2019-2020
339	Linear Integrated Circuit Laboratory	418ECP08	ECE	Skill Development-Provide knowledge in usage of IC's, designing and developing theoretical device/circuit operation of digital circuits	2019-2020
340	Analog Electronics-II Laboratory	418ECP09	ECE	Employability-Students can design and test analog circuits such as amplifiers and oscillators	2019-2020
341	Digital Signal Processing	518ECT01	ECE	Employability-Able to design analog and digital filters in signal processing	2020-2021
342	Microprocessors and Microcontrollers	518ECT02	ECE	Employability-Students can work in controller programming to control various real-time applications	2020-2021
343	Communication Theory	518ECT03	ECE	Skill Development-This course helps students to Identify, prevent and troubleshoot industrial communications problems	2020-2021
344	Computer Communication and Networks	518ECT04	ECE	Employability-Students can design and analyse various computer network protocols for real-time applications	2020-2021
345	Transmission Lines and Waveguides	518ECT05	ECE	Skill Development-Enables student to design various waveguide models in communication industry	2020-2021
346	Digital Signal Processing Laboratory	518ECP07	ECE	Employability-Able to design analog and digital filters in signal processing	2020-2021
347	Microprocessors and Microcontrollers Laboratory	518ECP08	ECE	Employability-Students can work in controller programming to control various real-time applications	2020-2021
348	Computer Networks Laboratory	518ECP09	ECE	Employability-Students can design and analyse various computer network protocols for real-time applications	2020-2021
349	Digital Communication	618ECT01	ECE	Skill Development-Gives the ability to design various digital communication modules in tele-communication industry	2020-2021
350	VLSI Design	618ECT02	ECE	Employability/Skill Development- Provides a chance to work in VLSI semiconductor industry to design and fabricate integrated circuits	2020-2021
351	Cellular and Mobile Communication	618ECT03	ECE	Employability - Gives the ability to design various mobile communication modules in communication industry	2020-2021
352	Principles of management	618ECT04	ECE	Entrepreneurship/ Employability-This course help in managing and maintaining the aspects with respect to	2020-2021

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				administration and productivity.	
353	Analog and Digital Communication Systems Laboratory	618ECP07	ECE	Skill Development-Gives the ability to design various analog and digital communication modules in tele-communication industry	2020-2021
354	VLSI Design Laboratory	618ECP08	ECE	Employability/Skill Development- Provides a chance to work in VLSI semiconductor industry to design and fabricate integrated circuits	2020-2021
355	Employability Skills Laboratory	618ECP09	ECE	Employability/Skill development- Provides career by enhancing employability and industry need skills.	2020-2021
356	Digital Image Processing	618ECE01	ECE	Skill Development-Students can learn image analysis techniques in the form of image segmentation and evaluate the methodologies for segmentation	2020-2021
357	Digital System Design using VHDL	618ECE03	ECE	Employability- Provides knowledge in digital design which makes the student to get emoployed in product development industry	2020-2021
358	Information Theory Coding	618ECE04	ECE	Employability-Information coding techniques knowledge helps in abstract modelling and designing systems	2020-2021
359	Adhoc and Wireless Sensor Networks	718ECT01	ECE	Skill development-Students can compare and analyze ad hoc network protocol performance and related security threats	2021-2022
360	Optical Communication	718ECT02	ECE	Employability/Skill Development- Gives the ability to design various optical communication modules in communication industry	2021-2022
361	Antenna and Microwave Engineering	718ECT03	ECE	Employability/Skill Development- Gives the ability to design various microwave communication modules in communication industry	2021-2022
362	Embedded Systems	718ECT04	ECE	Employability/Entrepreneurship/Skill Development-Enables the student to learn various embedded system concepts	2021-2022
363	Optical and Microwave Laboratory	718ECP07	ECE	Employability/Skill Development- Gives the ability to design various microwave and optical communication modules in communication industry	2021-2022
364	Electronic System Design Laboratory	718ECP08	ECE	Employability/Skill Development-students can design and test electronic circuits	2021-2022
365	RF System Design	718ECE02	ECE	Skill Development- Students can analyse and test RF Circuits in communication industry	2021-2022

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
366	Multimedia Compression Techniques	718ECE03	ECE	Employability - Able to design and develop data compression algorithms in data processing applications	2021-2022
367	Telecommunication Switching Networks	718ECE09	ECE	Skill Development-Gives the ability to design various communication modules in communication industry	2021-2022
368	Advanced Microcontrollers	718ECE10	ECE	Employability-Students can work in controller programming to control various real-time applications	2021-2022
369	Disaster Mitigation and Management	818ECT01	ECE	Employability/Skill Development-Students can predict the disasters and suggest preventive measures	2021-2022
370	ARM System ARCH and applications	818ECE02	ECE	Employability- Students can design real time applications based ARM processors	2021-2022
371	Radar and Navigational Aids	818ECE03	ECE	Skill Development-students learn about radar and navigational aids	2021-2022
372	ASIC Design	818ECE07	ECE	Employability - Provides chance to work in ASIC VLSI industry to design and fabricate integrated circuits	2021-2022
373	Satellite Communication	818ECE08	ECE	Employability - Gives the ability to design various communication modules in communication industry	2021-2022
374	Project Work	818ECP04	ECE	Employability/Entrepreneurship/Skill Development-Develops the research skill on product development	2021-2022
375	Circuit Theory	218CAT05	EEE	Skill Development- This course develops the analytical skills of students through the basic laws such as ohm's law and kirchoffs laws and network theorems.	2018-2019
376	Physics Of Semiconductor	218BSE07	EEE	Skill Development- The course helps to develop the basic knowledge about semiconductor devices.	2018-2019
377	Electron Devices and Circuits Laboratory	218EDP09	EEE	Skill Development- This course provides practical knowledge of electrical circuits and electron devices by practicing the experiments.	2018-2019
378	Electromagnetic Theory	318EET02	EEE	Employability- This course deals with the real time applications of electromagnetic circuits which enhances the employability skills of the students.	2019-2020
379	Network Analysis and Synthesis	318EET03	EEE	Skill Development- This course deals with design of filter etc so that students develop their designing skills	2019-2020
380	Linear Integrated Circuits and Applications	318EET04	EEE	Entrepreneurship- This course gives the knowledge about the operational amplifiers and other Ics, hence student can develop them in real time.	2019-2020

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
381	Measurements and Instrumentation	318EET05	EEE	Entrepreneurship- This courses offers the knowledge about the real time application and procedure of instrumentation which help the student to get involved in manufacturing industries.	2019-2020
382	Fundamentals of Data Structures in C	318EET06	EEE	Skill Development- This course offers the knowledge about basic C programming skill.	2019-2020
383	Linear Integrated Circuits Laboratory	318EEP07	EEE	Skill Development- This course develops the practical knowledge about op amp and other IC characteristics by practicing the lab experiments.	2019-2020
384	Measurements and Instrumentation Laboratory	318EEP08	EEE	Skill Development- This course gives the knowledge to develop the instrumentation handling skills.	2019-2020
385	Fundamentals of Data Structures in C Laboratory	318EEP09	EEE	Skill Development- This course provides the knowledge to apply the basic C language progamming skills.	2019-2020
386	Numerical Methods	418NMT01	EEE	Skill Development- This course deals with Direct and Iterative methods to solve equations.	2019-2020
387	Control Systems	418EET02	EEE	Skill Development- This course handles the stability concepts of linear system which helps to develop the skill about control mechanism in the system.	2019-2020
388	Digital Electronic Circuits	418EET03	EEE	Skill Development- This course offers the knowledge to develop the skill about synchronous and asynchronous circuits.	2019-2020
389	Power Generation Systems	418EET04	EEE	Employability-This course provides the knowledge of various methods of electrical power generation by renewable and non-renewable sources that makes the students employable in those fields.	2019-2020
390	Electrical Machines – I	418EET05	EEE	Employability- This Course provides the knowledge about the D.C electrical machines and Transformers.	2019-2020
391	Bio-Medical Instrumentation	418EEE06	EEE	Skill Development-This course provides the knowledge about the medical equipment handling skills through working principle of medical instruments.	2019-2020
392	Electrical Machines-I Laboratory	418EEP07	EEE	Skill Development-This course develops the knowledge in real time application of D.C machines and transformer by practicing the lab experiments.	2019-2020
393	Electrical and Electronic Circuits Simulation Laboratory	418EEP08	EEE	Skill Development-This course develops the knowledge in real time simulation of electrical and electronics circuits by practicing the lab experiments.	2019-2020

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394	Control Systems Laboratory	418EEP09	EEE	Skill Development-This programme develops the knowledge in Transfer Function and stability concepts by practicing the lab experiments.	2019-2020
395	Microprocessors and Microcontrollers	518EET01	EEE	Employability- This course deals the microprocessors and microcontrollers ARCH, pin diagram configuration which ensures the employability opportunity to the students	2020-2021
396	Electrical Machines – II	518EET02	EEE	Employability- This course deals with the Construction, working principle of A.C machines which ensures the employability opportunity to the students.	2020-2021
397	Advanced Control Theory	518EET03	EEE	Skill Development- This course explains the concept of stability analysis in nonlinear systems which develop the analytical skills.	2020-2021
398	Protection and Switchgear	518EET04	EEE	Entrepreneurship- This course provides the knowledge about working structure of relays in detail which supports the entrepreneurship skill to the students.	2020-2021
399	Transmission and Distribution	518EET05	EEE	Employability- This course deals the operation methods of power transmission and distribution in the electrical network hence student get the employability in the electrical core field.	2020-2021
400	Communication Theory	518ECO06/ 518ECT03	EEE	Skill Development- This course provides the knowledge about the communication of analog signal and digital signal which develops the student's skills in electronic communication area.	2020-2021
401	Mechatronics and Robotics	518MEO07/71 5MET01	EEE	Skill Development- This course develops the basic skills in the fields of mechatronics and robotics.	2020-2021
402	Electrical Machines Laboratory – II	518EEP07	EEE	Skill Development-This course develops the knowledge in real time application of A.C machines by practicing the lab experiments.	2020-2021
403	Microprocessors and Microcontrollers Laboratory	518EEP08	EEE	Skill Development-This course develops the knowledge in real time applications of microprocessors and microcontrollers programming.	2020-2021
404	Electrical Machine Design	618EET01	EEE	Entrepreneurship- This course deals with the designing of DC and AC machines which develops the entrepreneurship skills.	2020-2021
405	Power Electronics	618EET02	EEE	Employability- This course deals with the characteristics of power electronics devices.	2020-2021
406	Power System Analysis and Stability	618EET03	EEE	Skill Development- This course deals with the stability analyis of power system which ensures the development of analytical	2020-2021

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				skill.	
407	High Voltage Engineering	618EET04	EEE	Skill Development- This course deals with the generation and testing of high voltage.	2020-2021
408	Renewable Energy Sources	618EET05	EEE	Employability- The course deals with the principles of renewable energy sources for electrical power generation which ensures the student employment in power stations.	2020-2021
409	High Voltage Direct Current Transmission	618EEE03	EEE	Skill Development- This course gives the knowledge about the AI and Big data analytics that develops the student's skills.	2020-2021
410	Power Electronics Laboratory	618EEP07	EEE	Skill Development-This course develops the practical knowledge about characteristics of power electronics devices through the lab experiments.	2020-2021
411	Electronic System Design Laboratory	618EEP08	EEE	Skill Development-This course helps the students to design and develop electronic circuits.	2020-2021
412	Employability Skills Laboratory	618EEP09	EEE	Employability- This course enhances the employability skills of the students by developing conversation and discussion abilities.	2020-2021
413	Power System Operation and Control	718EET01	EEE	Employability- This Course gives the knowledge of Operation and control of power system through SCADA and EMS which ensures the student employment in the power system area.	2021-2022
414	Electric Drives and Control	718EET02	EEE	Entrepreneurship-This course provides details of DC and AC drives and their charactersitics.	2021-2022
415	Special Electrical Machines	718EET03	EEE	Skill Development- This course provides the knowledge of principles, characteristics and applications of certain special machines.	2021-2022
416	Flexible AC Transmission Systems	718EEE05	EEE	Skill Development- This course provides the skill about reactive power management to the students by using FACTs devices in the power system.	2021-2022
417	Smart Grid	718EEE07	EEE	Employability- This course deals with the advancement of technology in the power system network which provides the employment in power system area.	2021-2022
418	Aircraft Electrical Systems	718EEE11	EEE	Skill Development- This course develops the student skill by providing the knowledge about aircraft electrical system.	2021-2022
419	Power System Simulation Laboratory	718EEP07	EEE	Skill Development-This course develops the knowledge in real time simulation of power system analysis by practicing	2021-2022

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				the lab experiments.	
420	Electric Drives Laboratory	718EEP08	EEE	Skill Development-This course develops the analytical skills of the students through practical experiments on DC and AC electric drives.	2021-2022
421	Mini Project Work	718EEP09	EEE	Skill Development-This Course helps the students to apply their knowledge in real time application and to develop the mini project.	2021-2022
422	Electric Power Utilization Energy Auditing	818EET01	EEE	Employability- This course deals with the lighting system configuration and working procedure and the energy auditing methods.	2021-2022
423	Industrial Automation	818EEE05	EEE	Employability-This course deals with the Automation methods in the industrial platform which gives employment to the student.	2021-2022
424	Insulation and Testing Engineering	818EEE08	EEE	Skill Development- This course deals with the procedure of testing and insulation method of electrical equipment which develops the student skills in the respective field.	2021-2022
425	Project Work	818EEP04	EEE	Skill Development-This course helps the students to apply their knowledge in developing real time applications.	2021-2022
426	Microprocessors,Microcontrollers and its Applications	518EIT01	EIE	Skill Development - Acquire the knowledge of interfacing the peripheral devices with 8085 microprocessor and 8051 micro controller	2020-2021
427	Industrial Instrumentation-II	518EIT03	EIE	Skill Development - Understand the various measurements adopted in industry environment	2020-2021
428	Industrial Instrumentation Lab	518EIP06	EIE	Skill Development - Analyze Instrumentation systems and their applications to various Industries	2020-2021
429	Process Control Laboratory	518EIP07	EIE	Skill Development - Ability to design a PID controller and to analyze the various types closed loop process like flow control, level control, temperature control and pressure control	2020-2021
430	Microprocessors and Microcontrollers, DSP Laboratory	518EIP08	EIE	Skill Development - Implement the developed code using 8085 processors and 8051 controllers	2020-2021
431	Digital signal analysis and Processing	518EIE01	EIE	Skill Development - Understand and analyze multirate signal processing techniques and their applications	2020-2021
432	MEMS and its application	518EIE05	EIE	Skill Development - Providing the knowledge of sensors, wireless communications, fluidic systems, micro engines, semiconductors and solid mechanics to fabricate MEMS	2020-2021

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				devices	
433	Communication Theory	518ECO06	EIE	Skill Development - Understand the concepts of modulation and demodulation, fiber optic communication system and data communication codes	2020-2021
434	Instrumentation System Design	618EIT01	EIE	Employability - Provides the comprehensive knowledge for various instrumentation system like Pressure, Level and temperature Measurement	2020-2021
435	Logic and Distributed control system	618EIT02	EIE	Employability - Understand DCS, I/O modules and field devices of an industrial automation system	2020-2021
436	Analytical Instrumentation	618EIT03	EIE	Skill Development - Analyze the principle operation of chromotographic Techniques, PH meters and analyzers	2020-2021
437	Biomedical Instrumentation	618EIT04	EIE	Skill Development - Latest ideas on devices of non-electrical devices, modern methods of imaging techniques	2020-2021
438	Instrumentation System Design Lab	618EIP05	EIE	Skill Development - Designing of square root extractor, linearizing circuit for thermocouples, ON/OFF and PID Controllers	2020-2021
439	Virtual Instrumentation Lab	618EIP06	EIE	Skill Development - Simulation in LabVIEW,Arithmetic and Logic operations ,Creating and Debugging a VI	2020-2021
440	Employability Skills Lab	618EIP07	EIE	Employability - Enhance the employability skills of students with a special focus on Presentation skills, Group discussion skills and Interview skills	2020-2021
441	Principles of Management	618EIE02	EIE	Entrepreneurship - Understand of managerial functions like planning, organizing, staffing, leading & controlling	2020-2021
442	Embedded systems	618ECO06	EIE	Skill Development - Knowledge to program for embedded system and realtime application models	2020-2021
443	Industrial Data Networks	718EIT01	EIE	Skill Development - Knowledge in ARCHs to Link the hardware and Software network nodes	2021-2022
444	Computer Control of Processes	718EIT02	EIE	Skill Development - Provides knowledge about design of Digital Controllers and multiloop system analysis	2021-2022
445	VLSI Design Techniques	718EIT03	EIE	Employability - Ability to design the inverter and logic gates using the CMOS technology	2021-2022
446	Power Plant Instrumentation	718EIT04	EIE	Employability - Analyze various measurements and control in power generation plants and SCADA in power plants	2021-2022
447	Computer Control of Process	718EIP05	EIE	Skill Development - Ability to design digital Controllers,	2021-2022

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
	Laboratory			feedback, feed forward, ratio and cascade complex control systems	
448	Mini Project	718EIP06	EIE	Skill Development - Develop a model / prototype of an idea related to the field of Electronics and instrumentation	2021-2022
449	Technical Seminar and Aptitude skills	718EIP07	EIE	Employability - Students develop the ability to apply the knowledge acquired during the academic programme to real – life problems that he/she may have to face in future as an engineer	2021-2022
450	Automotive Instrumentation and control	718EIE03	EIE	Skill Development - Designing a braking system and a suspension/direction system and large technological knowledge in instrumentation & control and to define the functioning of a vehicle engine	2021-2022
451	Robotics and Automation	718EIE07	EIE	Employability - Analyze the various parts of robots and fields of robotics	2021-2022
452	Instrumentation in Industrial Applications	818EIT01	EIE	Employability - Acquire an adequate knowledge about the measurement of various parameters in cement, steel, petrochemical and pharmaceutical Industries	2021-2022
453	Project Work and Viva-voce	818EIP02	EIE	Skill Development - Develop a model / prototype of an idea related to the field of Electronics and instrumentation	2021-2022
454	Instrumentation in Agriculture and food processing	818EIE03	EIE	Employability - Able to understand problems in agriculture and food processing and provide technological solution to the same	2021-2022
455	Building Automation	818EIE07	EIE	Employability - Analyze current philosophy, technology, terminology, and practices used in building automation	2021-2022
456	Problem Solving And Python Programming	118PPT05	IT	Employability -The course will help the student to enhance their python programming language skills to apply in Real Time problems	2018-2019
457	Problem Solving and Python Programming Laboratory	118PPP08	IT	Employability -The course will help the student to enhance their python programming language skills to apply in Real Time problems	2018-2019
458	Basic Electrical EIE	118ESE06	IT	Skill Development - This course helps students can acquire the knowledge about applications of electronics measurements and understand the actual field where electronics measurements are required for measurement purpose in instrumentation field.	2018-2019

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
459	Programming in C	218CPT05	IT	Skill Development -Course helps to learn the fundamental programming concepts using C	2018-2019
460	Programming in C Laboratory	218CPP09	IT	Skill Development -Course helps to learn the fundamental programming concepts using C	2018-2019
461	Physics for Information Science	218BSE09	IT	Employability - Course helps to understand the various aspects of Information science and the skill sets necessary for a data scientist	2018-2019
462	Digital Electronics	318CIT02	IT	Employability - This course helps students in Solving problems in areas of digital electronics.	2019-2020
463	Communication Engineering	318ITT03	IT	Employability - Gives the ability to design various communication modules in communication industry	2019-2020
464	Object Oriented Programming in C++	318CIT04	IT	Employability -The course will help the candidates to enhance their java programming language skills	2019-2020
465	Data Structures	318CIT05	IT	Employability -Enhancing the problem solving skills through the knowledge of data structures	2019-2020
466	Computer Organization	318CIT06	IT	Skill Development -Acquiring Knowledge of basic building blocks of computer systems	2019-2020
467	Digital Electronics Laboratory	318CIP07	IT	Employability - This course helps students in Solving problems in areas of digital electronics, measurements, sensors and industrial instrumentation	2019-2020
468	Object Oriented Programming Laboratory	318ITP08	IT	Employability -The course will help the candidates to enhance their java programming language skills	2019-2020
469	Data Structures Laboratory	318ITP09	IT	Employability -Enhancing the problem solving skills through the knowledge of data structures	2019-2020
470	Discrete Mathematics	418DMT01	IT	Skill Development -Course enables students to apply Maths for Computer Science	2019-2020
471	Design and Analysis of Algorithms	418CIT02	IT	Employability -Various algorithm design strategies helps to develop efficient algorithms	2019-2020
472	Java Programming	418CIT03	IT	Skill Development -This course enables the student to develop object oriented based solutions using java programming language	2019-2020
473	Operating System	418CIT04	IT	Employability -Acquiring Knowledge of basic functionalities of operation systems	2019-2020
474	Database Management Systems	418ITT05	IT	Skill Development - able to understand the transaction	2019-2020

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				processing concurrency control	
475	Software Engineering	418CIT06	IT	Employability -Exposure to discipline of software development life cycle models	2019-2020
476	Java Programming Laboratory	418CIP07	IT	Skill Development -The students will be aware of the important topics and principles of software development and Have the ability to write a computer program to solve specified problems with help of Java Programming Lab.	2019-2020
477	Operating System Laboratory	418CIP08	IT	Employability -Acquiring Knowledge of basic functionalities of operation systems	2019-2020
478	Database Management System Laboratory	418ITP09	IT	Skill Development -To familiarise the students with major DBMS concepts	2019-2020
479	Probability and Statistics	518PST01	IT	Skill Development - This subject enables the student to learn the fundamental of statistics and use the knowledge in building analytics based solutions	2020-2021
480	Micro Processor and Microcontroller	518CIT02	IT	Skill Development -Provide programming skills in microprocessor and microcontroller both ALP and embedded C, hence students able to design any projects.	2020-2021
481	Computer Networks	518ITT03	IT	Employability - Course help them to learn various protocols, compare different topologies and summarize the functionality of network layers	2020-2021
482	Computational Intelligence	518ITT04	IT	Skill Development - Apply linear regression and logistic Regression machine learning system	2020-2021
483	C# and .NET Framework	518CIE01	IT	Skill Development -This course enables the student to develop real time based solutions using C# and .NET Framework	2020-2021
484	Engineering Ethics and Human Values	518BAO03	IT	Entrepreneurship - Apply the concepts of nation income and understand the functions of bank and globalization	2020-2021
485	Micro Processor and Microcontroller Laboratory	518CIP07	IT	Skill Development -Provide programming skills in microprocessor and microcontroller both ALP and embedded C, hence students able to design any projects.	2020-2021
486	Computer Networks Laboratory	518ITP08	IT	Employability - Course help them to learn various protocols, compare different topologies and summarize the functionality of network layers	2020-2021
487	Scripting Languages	618ITT01	IT	Skill Development - This course is to provide students with an overview of the concepts and fundamentals of Principles of	2020-2021

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				Programming Languages.	
488	Compiler Engineering	618ITT02	IT	Skill Development - Student will learn about modification of user program can be easily made and implemented as execution proceeds.	2020-2021
489	Data warehousing and Data Mining	618CIT03	IT	Skill Development - This course helps to explore datamining algorithms and Visualization concepts	2020-2021
490	Object Oriented Modeling and Design	618ITT04	IT	Skill Development -This course enables the students to analyse, design a software system or business by using Object Oriented concepts.	2020-2021
491	Mobile Communication	618ITE04	IT	Employability -Developing mobile applications	2020-2021
492	Scripting Languages Laboratory	618ITP07	IT	Skill Development - This course is to provide students can ability to understand the differences between Scripting languages and programming languages	2020-2021
493	Compiler Engineering Laboratory	618ITP08	IT	Skill Development - Student will learn about modification of user program can be easily made and implemented as execution proceeds with tools.	2020-2021
494	Object Oriented Modeling and Design Laboratory	618ITP09	IT	Skill Development -This course enables the students to analyse, design a software system or business by using Object Oriented concepts with ARGO UML tools .	2020-2021
495	Cryptography and Security in Computing	718CIT01	IT	Skill Development -Knowledge about cryptographic algorithms helps to enhance secured communications	2021-2022
496	Fundamentals of Machine Learning	718ITT02	IT	Skill Development -To build predictive models using advanced Machine Learning Techniques	2021-2022
497	Mobile Application Development	718ITT03	IT	Skill Development - This course enables the student to develop his skills set in mobile application development	2021-2022
498	Web Programming	718ITT04	IT	Skill Development -Course provides skills for applying Web Programming concepts	2021-2022
499	Internet of Things	718CIE01	IT	Employability -Learning various IoT platforms to build smart applications	2021-2022
500	Software Testing	718ITE10	IT	Skill Development -This course helps to know about various testing types and tools .	2021-2022
501	Mobile Application Development Laboratory	718ITP07	IT	Skill Development - This course enables the student to develop his Practical skills set in mobile application development	2021-2022

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502	Web Programming Laboratory	718ITP08	IT	Skill Development -Course provides skills for applying Web Programming concepts	2021-2022
503	Mini Project	718ITP09	IT	Skill Development - This course helps the students to develop projects using recent technologies.	2021-2022
504	Big Data Analytics	818CIT01	IT	Employability - This course helps to demonstrate Knowledge and conceptual clarity in big data technologies	2021-2022
505	Information Security	818ITE02	IT	Employability -Awareness about various information security related problems faced by industries	2021-2022
506	Software Project Management	818ITE06	IT	Entrepreneurship - This course imparts knowledge on how to implement project management concepts related to managing software development projects.	2021-2022
507	Project Work & Viva Voce	818ITP01	IT	Skill Development - This course enables the student to pool the knowledge acquired in various technical subjects to develop enterprise solutions and work as a team in organizations	2021-2022
508	Basic Civil, EEE	118ESE02	MECH	Skill Development - Students will know about various discipline in the field of engineering which will give more confidence among the students.	2018-2019
509	Engineering Chemistry Laboratory	118CYP07	MECH	Skill Development - This course focus on estimation of various compounds using volumetric and instrumental analysis.	2018-2019
510	Engineering Practice Laboratory	118EPP07	MECH	Skill Development - This course will give more practical exposure on different processes like welding, sheet metal, plumbing, carpentry, etc.	2018-2019
511	Engineering Mechanics	218EMT04	MECH	Skill Development - This course will give more knowledge about the behaviour of the object and to implement the concepts of forces involved while solving engineering problems.	2018-2019
512	Engineering Thermodynamics	318MET02	MECH	Employability - Concepts of Engineering Thermodynamics and its applications will enable the students to perform better as an engineer during their employability.	2019-2020
513	Fluid Mechanics and Machinery	318MET03	MECH	Employability - Concepts of fluid mechanics and applications to fluid machinery will enable the students to perform better as an engineer during their employability.	2019-2020
514	Composite Materials	318MET04	MECH	Employability - This course will be used to understand and	2019-2020

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				analyse the composite material properties and enhance the applications of new materials for sustainability.	
515	Manufacturing Technology-I	318MET05	MECH	Employability - This course will enable the students to understand the manufacturing processes like casting, welding, machining with lathe, milling, etc.	2019-2020
516	Electrical Drives and Controls	318MOE01	MECH	Skill Development - This course focuses on electrical components, wiring and basic concepts of house hold electrical appliances, etc.	2019-2020
517	Fluid Mechanics and Machinery Laboratory	318MEP07	MECH	Skill Development- Students will gain skill in testing related to fluid flow.	2019-2020
518	Manufacturing Technology Laboratory -I	318MEP08	MECH	Skill Development- This course will enhance the students with different manufacturing processes and develop their skills in the analysing of materials.	2019-2020
519	Electrical Drives and Controls Laboratory	318MOP01	MECH	Skill Development - This course will give practical knowledge on electrical components, wiring and basic concepts of house hold electrical appliances, etc.	2019-2020
520	Statistics and Numerical Methods	418MAT01	MECH	Skill Development - This course will focus on methods of numerical solutions of ordinary differential equations with initial conditions and statistical methods for analysis of variance and control limits.	2019-2020
521	Kinematics of Machinery	418MET02	MECH	Skill Development - This course will give more knowledge on velocity and acceleration diagrams for different linkages, designing cam profile for the desired follower motion and synthesis linkages.	2019-2020
522	Thermal Engineering	418MET03	MECH	Skill Development - This course will enhance the students to understand various process in air standard cycles and to learn the performance of internal combustion engines.	2019-2020
523	Strength of Materials	418MET04	MECH	Employability - This course will be focused on the concepts of stress, strain, principal stresses and principal planes which will be useful in industry during manufacturing.	2019-2020
524	Manufacturing Technology-II	418MET05	MECH	Entrepreneurship - Students will know about the fundamentals of metal cutting, special purpose machines used in industrial applications.	2019-2020
525	Process Planning and Cost Estimation	418MET06	MECH	Entrepreneurship - This course will give more knowledge on step by step procedures in the cost estimation of any product.	2019-2020

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
526	Thermal Engineering Laboratory	418MEP07	MECH	Skill Development - Students will be familiar on various thermodynamic concepts and principles, heat balance test, energy balance test.	2019-2020
527	Material Testing and Metallurgy Laboratory	418MEP08	MECH	Skill Development - Students will have more skills in testing of materials under untreated and heat treated conditions and various NDT methods.	2019-2020
528	Manufacturing Technology Laboratory-II	418MEP09	MECH	Skill development - This course will give more practical knowledge on different machining operations on shaper, lathe, milling, drilling and slotting.	2019-2020
529	Metrology and Instrumentation	518MET01	MECH	Employability - This course focus on measurement of mechanical parameter by using different instrument and devices in practical applications.	2020-2021
530	Heat and Mass Transfer	518MET02	MECH	Skill Development - This course will enhance the students about the basic concepts of heat transfer modes, mass transfer and its applications.	2020-2021
531	Dynamics of Machinery	518MET03	MECH	Skill Development - This course will give more knowledge on static force analysis and dynamic force analysis of mechanism and machines, free vibration and degree of freedom.	2020-2021
532	Design of Machine Elements	518MET04	MECH	Employability - This course will enhance with designing various components considering strength and functional requirement which is necessary for industry oriented.	2020-2021
533	Applied Hydraulics and Pneumatics	518MET05	MECH	Skill Development - This course is focus on designing circuits based on hydraulic and pneumatic components as per the industrial applications.	2020-2021
534	Advanced Manufacturing Processes	518MEE01	MECH	Employability - Students will have an ability to work with different manufacturing processes used in industries.	2020-2021
535	Metrology and Instrumentation Laboratory	518MEP07	MECH	Skill Development - This course will give more practical knowledge on measuring components based on linear and angular measurement, calibration of various measuring devices	2020-2021
536	Heat Transfer Laboratory	518MEP08	MECH	Skill Development - This course will enhance the students to conduct performance test on various refrigeration systems.	2020-2021
537	Dynamics Laboratory	518MEP09	MECH	Skill Development - This course will give more practical knowledge to calculate mass moment of inertia of body experimentally.	2020-2021

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538	Principles of Management and Business Concepts	618MET01	MECH	Entrepreneurship - This course focus on how to start an organization by knowing the concepts of marketing and various business activities.	2020-2021
539	Gas Dynamics and Jet Propulsion	618MET02	MECH	Skill Development - This course will give more knowledge on shock waves and its effects on flow and perform calculation for rocket propulsion.	2020-2021
540	Design of Transmission Systems	618MET03	MECH	Employability - This course will focus to design various types of gears using design knowledge which will suit for practical applications.	2020-2021
541	CAD/CAM/CIM	618MET04	MECH	Skill Development - Students will be able to use skills in integrating manufacturing processes with the help of computer.	2020-2021
542	Professional Ethics and Human Values	618MEE02	MECH	Entrepreneurship - Students will know more about the codes of ethics and industrial standards, responsibility on safety and risk which will be more useful to be an good entrepreneur.	2020-2021
543	Metal Forming Techniques	618MEE08	MECH	Employability - Students will have the ability to work with the forging and rolling operations and to develop new components by using new techniques.	2020-2021
544	Computer Aided Machine Drawing	618MEP07	MECH	Skill Development - Students will have more skill on engineering drawing concepts with the help of computer aided design packages.	2020-2021
545	CAM Laboratory	618MEP08	MECH	Skill Development - The students will acquire practical knowledge about the fundamentals of numerical control machines and its controlling techniques.	2020-2021
546	Automobile Engineering	718MET01	MECH	Employability - This course focus on engine auxiliary and emission system, transmission system, steering, suspension and braking system which will be useful in automotive industries.	2021-2022
547	Mechatronics and Robotics	718MET02	MECH	Employability - This course enhance with various types of sensors and transducers, types of grippers used for automation in industry.	2021-2022
548	Finite Element Analysis	718MET03	MECH	Employability - This course will give more mathematical knowledge along with FEA concepts to analysis different types of problems.	2021-2022
549	Power Plant and Energy Engineering	718MET04	MECH	Employability - This course will enhance the students to know	2021-2022

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				about the various components, operations and applications of different types of power plants to work with that.	
550	Maintenance Engineering	718MEE01	MECH	Employability - This course focus on principles, function and practices adapted in industry for the successful management of maintenance activities.	2021-2022
551	Engineering Economics and Cost Analysis	718MEE03	MECH	Entrepreneurship - This course will give more knowledge on cost calculations, replacement policies and types of depreciation methods which an entrepreneur should know.	2021-2022
552	Rapid Prototyping	718MEE04	MECH	Employability - By knowing different rapid prototyping techniques, students can adhere to industry environment easily.	2021-2022
553	Automotive Instrumentation and Control	718MOE09	MECH	Employability - This course will give the students more focus on employability in the field of automobile engineering.	2021-2022
554	Mechatronics Laboratory	718MEP07	MECH	Skill Development - This course focus on designing components based on hydraulic and pneumatic systems for industrial automation.	2021-2022
555	CAE Laboratory	718MEP08	MECH	Skill Development - This course will help the students to solve problems related to FEA techniques by using software's like ANSYS, IDEAS, etc.	2021-2022
556	Design and Fabrication Project	718MEP09	MECH	Skill Development - This course will recollect the fundamental knowledge acquired during the earlier semesters and apply the same to real life problems and provide solution to the problems.	2021-2022
557	Internship & Technical Seminar	718MEP10	MECH	Skill Development - This course will give practical exposure and learn about various activities happening in the industries.	2021-2022
558	Total Quality Management	818MET01	MECH	Employability - This course focus on TQM principles, tools and Philosophies which is used in industries throughout the world.	2021-2022
559	Energy Conservation in Industries	818MEE05	MECH	Entrepreneurship - This course focus on energy demand and energy supply and other financial techniques for energy savings.	2021-2022
560	Entrepreneurship and E-Business	818MEE07	MECH	Entrepreneurship - This course focus on gaining the knowledge in the field of entrepreneur, entrepreneurship and management of resources.	2021-2022

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
561	Project Work	818MEP04	MECH	Skill Development - This course will recollect the fundamental knowledge acquired during the earlier semesters and apply the same to real life problems and provide solution to the problems.	2021-2022
562	Business Statistics	118BAT01	MBA	Employability- This Course help the students with good technical understanding and subject knowledge, employers often outline a set of skills that they required for job opportunities. Skill Development-This Course help in the transferable skills needed by an individual to make them skilled.	2018-2019
563	Management Concepts and Practices	118BAT02	MBA	Employability-This Course helps as the systematic process of creating effective managers. Entrepreneurship-This course helps critical function is to translate leadership and Entrepreneurship objectives Skill Development- This Course help develop managers/executives for better performance on their present job	2018-2019
564	Management Accounting for Business Decisions	118BAT03	MBA	Employability-This Course helps to absorb about basic accounting fundamentals and to prepare financial statements Skill Development-This Course helps to mature in financial analysis skills and to learn to prepare fund, cash flow statement, estimated working capital and receivables management	2018-2019
565	Economic Analysis for Business	118BAT04	MBA	Employability- This Course helps in providing income to poor families, revives domestic demand for goods and services, and stimulates overall growth Entrepreneurship- This Course helps in development is the time one invests in to improve their proficiency and to stay future-ready, any agilities that one follows as a passion Skill Development-This Course helps in the transferable skills needed by an individual to make them 'employable'	2018-2019
566	Organisational Behavior	118BAT05	MBA	Employability-This Course helps analyzes the effect of social and environmental factors that affect the way employees Entrepreneurship-This Course helps on the individuals, the groups and the organization and also on their interactional	2018-2019

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				relationships Skill Development- This Course helps in bring a change in the values, norms, attitudes, perception, and behaviour of people	
567	Legal Aspects of Business	118BAE01	MBA	Employability-This Course helps for Start-up name should be legal and must not violate the legal rights of others Skill Development-This Course helps in learning Business Law deals with the laws on the basis of which every deal between people and commercial firms are governed	2018-2019
568	Information Management	118BAE11	MBA	Employability-This Course helps by boosting knowledge and skill will put you in a position where your career can move forward into managerial roles Skill Development-This Course helps for studying of people, technology, organizations, and the relationships among them	2018-2019
569	Executive Communication	118BAP01	MBA	Employability-This Course helps for ongoing process of communication between a supervisor and an employee that occurs throughout the year, in support of accomplishing the strategic objectives of the organization. Skill Development-This Course helps in improving the abilities that the students uses when giving and receiving different kinds of information	2018-2019
570	International Business Management	218BAT06	MBA	Employability-This Course give students an understanding of the different business management practices found all over the world Entrepreneurship-This Course teach students a wide range of skills including developing new products and ideas, business processes to start a new venture, and evaluating a new business Skill Development-This course support students able to work, communicate, sell to or buy from people in different countries, working in different times zones, with different ways of doing things is essential	2018-2019
571	Optimization Techniques	218BAT07	MBA	Employability-This Course helps for analysts write memos, reports, and other documents explaining their findings and recommendations	2018-2019

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				Skill Development-This Course helps in developing and applying advanced analytical methods to improve decision-making	
572	Human Resource Management	218BAT08	MBA	Employability- This Course helps recruiting new hires, evaluating employee performance, ensuring fair compensation and benefits, training employees and supporting education and development, and protecting the health and safety of all employees Entrepreneurship-This Course helps as acts as a supporter to perform the entrepreneurial activities effectively and efficiently Skill Development- This Course helps workers meet organizational standards, cuts down replacement costs and improves workplace performance	2018-2019
573	Marketing Management	218BAT09	MBA	Employability-This Course helps in identifies market opportunities and comes out with appropriate strategies for exploring those opportunities profitably Entrepreneurship-This Course helps as a strategies, tools and analyses used in promoting a business. Businesses use marketing management techniques to identify opportunities for growth and connect effectively with new target markets Skill Development-This Course helps in development of content management, social media, responsive design, partner management, analytics, knowledge of the latest tech tools, distributed experts skills, people skills, and team building / motivation	2018-2019
574	Financial Management	218BAT10	MBA	Employability-This Course helps assist designed to replicate the role of a senior financial executive or advisor Entrepreneurship-This Course helps to properly utilize the available resources and obtain financial stability and growth. Skill Development-This Course helps in using a wide range of skills to balance budgets and recommend investments	2018-2019
575	Operations Management	218BAT11	MBA	Employability-This Course helps in a business organisation because it helps effectively manage, control and supervise goods, services and people	2018-2019

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				Skill Development-This Course helps by learn to support company strategies that enhance efficiency in the process successfully	
576	Total Quality Management	218BAE21	MBA	Employability- This course is management framework based on the belief that an organization can build long-term success by having all its members, from low-level workers to its highest ranking executives, focus on improving quality and, thus, delivering customer satisfaction Skill Development- This course helps to determination of a quality policy, creating and implementing quality planning and assurance, and quality control and quality improvement	2018-2019
577	Data Analysis and Business Modelling	218BAP02	MBA	Employability-This Course helps Social statistics and quantitative data analysis are key tools for understanding society and social change for job Entrepreneurship-This Course helps in profit-making plan which defines the products or services it will sell, its target market, and any expected business growth Skill Development-This Course helps in providing data analysis for descriptive and bivariate statistics, numeral outcome predictions and predictions for identifying groups	2018-2019
578	Managerial Skill Development - 1	218BAV01	MBA	Employability- This course helps in the knowledge and ability of the individuals in a managerial position to fulfil some specific management activities or tasks Entrepreneurship- This course helps certain attributes or abilities that an executive should possess in order to fulfil specific tasks in an organization to run successfully Skill Development- This course helps to planning, organizing, leading, and controlling, managers must use a wide variety of skills	2018-2019
579	Strategic Management	318BAT12	MBA	Employability-This Course helps in Setting effective goals for employees and involving them in organisational objectives can improve overall performance Entrepreneurship-This Course helps in develops entrepreneurial processes to develop current and future competitive advantage in promising product markets	2018-2019

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				Skill Development-This Course helps ability to assess the impact of issues or challenges beyond the organization that might arise or will have a future impact on any potential strategy	
580	Business Research Methods	318BAT13	MBA	Employability-This Course helps in acquiring detailed information of all the areas of business and using such information in maximizing the sales and profit of the business for betterment of Job Skill Development-This Course helps as unique opportunity to develop the academic skills and research mind-set.	2019-2020
581	Industrial Relations and Labour Legislations	318BAH01	MBA	Employability-This Course helps for multidisciplinary field of study which examines the interrelations of varying complexities between employers and employees, employer organisations and the state with trade and labour unions Skill Development-This Course helps correct the imbalance of power between the worker and the employer; to prevent the employer from dismissing the worker without good cause; to set up and preserve the processes by which workers are recognized as 'equal' partners in negotiations about their working conditions	2019-2020
582	Performance Management	318BAH02	MBA	Employability-This Course helps for ongoing process of communication between a supervisor and an employee that occurs throughout the year, in support of accomplishing the strategic objectives of the organization. Entrepreneurship-This Course helps in promotion and development Programmes are being organized regularly to nurture the talent of youth by enlightening them Skill Development-This Course helps in the identification of capability of an individual to channel the talents of employees towards the attainment of organizational goals	2019-2020
583	Training and Development	318BAH03	MBA	Employability-This Course helps acquiring specific knowledge that employees can apply instantly to bring about significant improvements in their current job roles Entrepreneurship-This Course helps in enhancing the knowledge and skill of entrepreneurs through several	2019-2020

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				classroom coaching and programs, and training. Skill Development-This Course helps in initiatives are educational activities within an organization that are designed to improve the job performance of an individual or group	
584	Derivatives Management	318BAF01	MBA	Employability-This Course helps in risk reduction through hedging, ensuring market efficiency, deal price discovery of the underlying asset Skill Development-This Course helps for purpose of a derivative for the management and especially the mitigation of risk	2019-2020
585	Security Analysis and Portfolio Management	318BAF02	MBA	Employability-This Course helps in analysis of tradeable financial instruments called securities It deals with finding the proper value of individual securities enhances job opportunity Skill Development-This Course support in identification of strengths, weaknesses, opportunities and threats in the choice of debt vs. equity, domestic vs. international, growth vs. safety, and many other trade-offs encountered in the attempt to maximize return at a given appetite for risk	2019-2020
586	Merchant Banking and Financial Services	318BAF04	MBA	Employability-This Course helps in identifying which financial institution should be preferred for term loans in Job opportunity basis Skill Development-This Course helps to identify conduct fund raising, financial advising and loan services to large corporations	2019-2020
587	Project Management	318BAO01	MBA	Employability-This Course helps plan and implement projects from start to finish in order to help an organization meet its goals Skill Development-This Course helps to identify plan, manage, execute and finish projects. Both hard and soft skills are a part of the project management skills because they help delegate and prioritise tasks, manage resources, analyse problems, report progress and analyse project performance	2019-2020
588	Services Operations Management	318BAO02	MBA	Employability-This Course helps in synchronize and perform the activities and processes required to deliver and manage services at agreed levels to business users and customers	2019-2020

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				Skill Development-This Course helps to maintain business satisfaction and confidence in IT through effective and efficient delivery support of agreed services	
589	Supply Chain Management	318BAO03	MBA	Employability-This Course helps in handling of the entire production flow of a good or service for enhancing job betterment Skill Development-This Course support in developing ability to use data to track orders and shipments, sales trends, demand and any weaknesses and inefficiencies	2019-2020
590	Summer Internship Training	318BAP03	MBA	Employability-This Course help the students to build their resumes and take the first step towards a successful professional Entrepreneurship-This Course helps to allow the students to get real-world industrial exposure Skill Development-This Course helps to improve knowledge and practical skills for their job to learn and apply theoretical concepts in real-life gain	2019-2020
591	Managerial Skill Development -II	318BAV02	MBA	Employability- This course helps in the knowledge and ability of the individuals in a managerial position to fulfil some specific management activities or tasks Entrepreneurship- This course helps certain attributes or abilities that an executive should possess in order to fulfill specific tasks in an organization to run successfully Skill Development- This course helps to planning, organizing, leading, and controlling, managers must use a wide variety of skills	2019-2020
592	Project Work	418BAP04	MBA	Employability-This Course help the students to build their resumes and take the first step towards a successful professional Entrepreneurship-This Course helps to allow the students to get real-world industrial exposure Skill Development-This Course helps to improve knowledge and practical skills for their job to learn and apply theoretical concepts in real-life gain	2019-2020
593	Python Programming	120CAT01	MCA	Skill Development-Applications based on Scripting and object	2020-2021

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				oriented concept for the development of real time applications.	
594	Python Programming Lab	120CAP06	MCA	Skill Development- Program based on Scripting and object oriented concept for the development of real time applications.	2020-2021
595	Business Processes	120CAE07	MCA	Entrepreneurship- Leads to Organize a Small Scale Business with organization strategies	2020-2021
596	Object Oriented Programmig using Java	220CAT01	MCA	Skill Development- Java Programming with J2EE and J2ME Concept implemented to develop an applications	2020-2021
597	Cloud Computing	220CAT03	MCA	Skill Development- Various Services as IaaS, Paas, and SaaS related to cloud computing were explored.	2020-2021
598	C# and Dot Net Programming	220CAE01	MCA	Skill Development- Dot Net Programming with CLR Concept along with console, window and web based applications	2020-2021
599	Digital Marketing	220CAE06	MCA	Entrepreneurship - Marketing strategies in the digital world to develop the business in Local / National / International Level	2020-2021
600	Java Progamming Lab	220CAL01	MCA	Skill Development- Java Programming Lab exercise with J2EE and J2ME Concept implemented to develop an applications	2020-2021
601	C# and Dot Net Programming Lab	220CAL03	MCA	Skill Development- Dot Net Programming Lab Exercise with CLR Concept along with console, window and web based applications	2020-2021
602	Web Programming	320CAT01	MCA	Skill Development - Programming based on PHP with MySql to develop an web based applications	2021-2022
603	Mobile Application Development	320CAT02	MCA	Skill Development- Analytical and Technical Skills were developed in the mobile applications	2021-2022
604	Big Data Management	320CAT03	MCA	Skill Development- Semantic skill with data representation focused on Volume, Velocity and variety.	2021-2022
605	Mini Project	320CAP06	MCA	Employability- Various Application designed in house to sustain the availability of the corporate world.	2021-2022
606	Agile Software Development	320CAE03	MCA	Skill Development- Explored the knowledge in the development of software using agile methodologies.	2021-2022
607	Professional Communications	320CAE06	MCA	Entrepreneurship -Communications Skills Which leads to professional for their development of business.	2021-2022
608	Mobile Application Development Lab	320CAL02	MCA	Skill Development- Exercise based Analytical and Technical Skills were developed in the mobile applications	2021-2022
609	Executive Communication Lab	320CAL04	MCA	Employability- Presentation focused on Seminar, develop of	2021-2022

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				communication skills for the corporate world.	
610	Project Work	420CAP01	MCA	Employability- Various Application designed to sustain the availability of the corporate world.	2021-2022
611	Advanced Mathematics for Computing	118MCT01	M.E. CSE	Skill Development- this course helps students in boosting their calculating ability	2018-2019
612	Advanced Data Structures and Algorithms	118MCT02	M.E. CSE	Employability -Various algorithm design strategies helps to develop efficient algorithms	2018-2019
613	Advanced Computer ARCH	118MCT03	M.E. CSE	Skill Development- this course indulge in learning in depth of the computer ARCH	2018-2019
614	Network Protocols	118MCT04	M.E. CSE	Skill Development- this course helps in understanding different network protocols	2018-2019
615	Advanced Software Engineering	118MCT05	M.E. CSE	Skill Development- this course provides knowledge about managing software tools	2018-2019
616	Advanced Data Structures Laboratory	118MCP07	M.E. CSE	Skill Development- this course helps in the implementation of programming of softwares using the analysed metadata	2018-2019
617	Network Simulation Laboratory	118MCP08	M.E. CSE	Skill Development- this course helps in the implementation of programming of software's using the analysed metadata	2018-2019
618	Web Engineering	118MCE05	M.E. CSE	Employability - this course helps students to design web based applications	2018-2019
619	Advanced Database Management Systems	218MCT01	M.E. CSE	Skill Development -course content helps to learn various DB design principles and techniques to build web application	2018-2019
620	Security in Computing	218MCT02	M.E. CSE	Skill Development-this course helps in calculating the performing of security in systems	2018-2019
621	Data Mining Technologies	218MCT03	M.E. CSE	Skill Development- this course helps to work with metadata and store them in a storage grid and perform metadata handling	2018-2019
622	Internet of Things	218MCT04	M.E. CSE	Employability - Learning various IoT platforms to build smart applications	2018-2019
623	Operating System Internals	218MCT05	M.E. CSE	Employability - this course helps students to working with various kinds of different operating systems	2018-2019
624	Advanced Database Management Systems Laboratory	218MCP07	M.E. CSE	Skill Development -course content helps to learn various DB design principles and techniques to build web application	2018-2019
625	Data Mining Laboratory	218MCP08	M.E. CSE	Skill Development- this course helps to work practically with metadata and store them in a storage grid and perform	2018-2019

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				metadata handling	
626	Software Testing and Quality Assurance	218MCE03	M.E. CSE	Entrepreneurship - Apply the concepts of nation income and understand the functions of bank and globalization	2018-2019
627	Machine Learning Techniques	318MCT01	M.E. CSE	Skill Development -To build predictive models using advanced Machine Learning Techniques	2019-2020
628	Project Work Phase - I	318MCP02	M.E. CSE	Skill Development- in this phase, students are organised to gather the required data for implementing the project	2019-2020
629	Big Data Analytics	318MCE04	M.E. CSE	Skill Development -This course enables the student to analyse volumes data and skim out valuable information	2019-2020
630	Deep Learning	318MCE09	M.E. CSE	Employability -Learn deep learning ARCHs to build intelligent applications	2019-2020
631	Project Work – Phase II	418MCP01	M.E. CSE	Entrepreneurship -this phase helps students to implement a reatime working software based project	2019-2020
632	Applied Mathematics	118COT01	M.E CS	Skill Development-This course will help the students to apply the mathematics concept to solve the complex problem.	2018-2019
633	Advanced Digital Signal Processing	118COT02	M.E CS	Skill Development-Provide knowledge on basic concepts of signal and system, filter design analog and digital , hence students able to get jobs in design industry	2018-2019
634	Modern Digital Communication Techniques	118COT03	M.E CS	Skill Development-Gives the ability to design various digital communication modules in communication industry	2018-2019
635	Optical and Mobile Communication Networks	118COT04	M.E CS	Employability/Skill Development- Gives the ability to design various optical communication modules in communication industry	2018-2019
636	Advanced Radiation Systems	118COT05	M.E CS	Skill Development-Gives the ability to design various radiation effects in communication industry	2018-2019
637	Communication Systems Laboratory-I	118COP01	M.E CS	Skill Development-Gives the ability to design various analog and digital communication modules in communication industry	2018-2019
638	Advanced Satellite Based Systems	118COE06	M.E CS	Employability - Able to design and test satellite communication protocols in communication industry	2018-2019
639	Software Radio ARCH	218COT01	M.E CS	Skill Development-Design SDR for a specific application	2018-2019
640	Photonic and Microwave Integrated Circuits	218COT02	M.E CS	Employability-Design and fabricate the hybrid MIC's in thick and thin film technology.	2018-2019
641	Multimedia Compression Techniques	218COT03	M.E CS	Employability - Able to design and develop data compression	2018-2019

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				algorithms in data processing applications	
642	CS Laboratory - II	218COP01	M.E CS	Skill Development-Gives the ability to design various analog digital communication modules in communication industry	2018-2019
643	Network Routing Algorithms	218COE07	M.E CS	Employability- Provides knowledge in Networks Routing Protocols, hence student to get employment in core industry	2018-2019
644	DSP Processor ARCH and Programming	218COE14	M.E CS	Employability-Implement the different processor for domestic and industrial applications	2018-2019
645	Cognitive Radio	218COE17	M.E CS	Employability-Able to design the wireless networks based on the cognitive radios	2018-2019
646	Embedded Systems for Communication	318COE01	M.E CS	Employability - Gives the ability to design various embedded modules in communication industry	2019-2020
647	Communication Network Security	318COE03	M.E CS	Employability- This course gives the ability to design and work on network layer security protocols	2019-2020
648	High Speed Switching ARCH	318COE04	M.E CS	Employability- This course gives the ability to design and work on IP layer protocols	2019-2020
649	Project Work (Phase – I)	318COP01	M.E CS	Employability/Entrepreneurship/Skill Development-Develops the research skill on product development	2019-2020
650	Internship	318COP02	M.E CS	Employability - This course will enhance the students on technical paper writing and publication techniques.	2019-2020
651	Project Work (Phase – II)	418COP01	M.E CS	Employability/Entrepreneurship/Skill Development-Develops the research skill on product development	2019-2020
652	System Theory	118PST01	M.E PSE	Skill Development-This course deals with the stability analysis of linear and non linear system which enhance the students skill in the power system control.	2018-2019
653	Power System Optimization Techniques	118PST02	M.E PSE	Employability- This course provides the knowledge about optimization techniques such as neural networks , fuzzy system which ensures the employment in the same domain.	2018-2019
654	Computer Aided Power System Analysis	118PST03	M.E PSE	Skill Development- This course provides the knowledge about software techniques in fault analysis, stability analysis which develops the student skill in power system analysis.	2018-2019
655	Power System Estimation and Security	118PST04	M.E PSE	Employability- This course provides the knowledge about contingency analaysis, marginal pricing analysis and security enhancement in power system which ensures the employment in power system.	2018-2019

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656	Mathematics for Electrical Engineers	118PST05	M.E PSE	Skill Development-This course develops the student skills which helps to apply the mathematics knowledge to solve the power system engineering problems.	2018-2019
657	Energy Auditing and Management	118PSE02	M.E PSE	Employability- This course provides the knowledge about the techniques to maximize the profit in electrical energy and manage the electrical power in an optimized way which ensure the employment in energy auditing work.	2018-2019
658	Computer Aided Power System analysis Laboratory	118PSP01	M.E PSE	Skill Development-This course provides the knowledge about software techniques in fault analysis, stability analysis which develop the student skill in power system by conducting the lab experiments.	2018-2019
659	Power System Planning and Reliability	218PST01	M.E PSE	Employability- This course provides the knowledge about contingency analysis, marginal price analysis for planning to provide the profitable and reliable power to consumer.	2018-2019
660	Power System Dynamics and Stability	218PST02	M.E PSE	Skill Development- This courses provides the knowledge about the stability analysis of power system in the dynamic disturbance.	2018-2019
661	Advanced Power System Protection	218PST03	M.E PSE	Employability- This courses provides the knowledge about the techniques to protect the equipment's and protection schemes in the substation which ensures the employment in the substation.	2018-2019
662	Distributed Generation and Micro Grid	218PST04	M.E PSE	Employability- This course discusses about the principles and structure of Micro Grid for smart electrical power generation which ensures the student employment in power grid.	2018-2019
663	Power Quality Management	218PSE01	M.E PSE	Employability- This course provides the knowledge about the power quality issues and the solution to solve it which ensures the job opportunity in the power quality management sector.	2018-2019
664	Power Electronics for Renewable Energy Systems	218PSE08	M.E PSE	Skill Development-The course deals with the applications of latest power electronics devices in the field of renewable energy systems.	2018-2019
665	Advanced Power System Simulation Laboratory	218PSP02	M.E PSE	Skill Development-This course provides the knowledge about simulation of software techniques in fault analysis, stability analysis which develops the student skill in power system simulation by conducting the lab experiments.	2018-2019

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666	Seminar	218PSP01	M.E PSE	Skill Development- This course enhances the student's presentation skills in the power system.	2018-2019
667	EHV Power Transmission	318PST01	M.E PSE	Employability- This course provides the knowledge in electrical power transmission in EHV system which ensures the employment in the power system grid.	2019-2020
668	Smart Grid Design and Analysis	318PSE03	M.E PSE	Employability- This course provides the knowledge about the designing and analysis methods of smart grid which ensures the job opportunity in the power system grid.	2019-2020
669	Power System Instrumentation	318PSE05	M.E PSE	Skill Development- This course provides the knowledge about the working principle and types of instruments in the substation which develops the students designing skills in power system.	2019-2020
670	Project Work (Phase – I)	318PSP01	M.E PSE	Employability-This course helps the students to apply their Power Systems knowledge in real time applications.	2019-2020
671	Project Work (Phase - II)	418PSP01	M.E PSE	Employability-This course helps the students to apply their Power Systems knowledge in real time applications.	2019-2020
672	Applied Mathematics	118SET01	M.E SE	Employability - Students will develop skills in mathematics to solve problems	2018-2019
673	Advanced Concrete Design	118SET02	M.E SE	Skill Development - The course provides knowledge in design of concrete structures which helps in executing projects	2018-2019
674	Structural Dynamics	118SET03	M.E SE	Employability - The course develops skills in solving dynamic problems related to structural elements and as a whole	2018-2019
675	Theory Of Elasticity And Plasticity	118SET04	M.E SE	Employability - Skills on solving structural elements for various boundary conditions will be developed in this course	2018-2019
676	Advanced Concrete Technology	118SEE01	M.E SE	Entrepreneurship - This course develops skills in concreting technology	2018-2019
677	Maintenance and Rehabilitation of Structures	118SEE07	M.E SE	Entrepreneurship - Students will develop skill sets regrind the materials and techniques required for maintenance and rehabilitation of structures	2018-2019
678	Finite Element Analysis	218SET01	M.E SE	Skill Development- This course enhances the skill set related to finite element method of analysing a structure	2018-2019
679	Experimental Techniques and Instrumentation	218SET02	M.E SE	Skill Development - gain knowledge on the principles of measurements using various electronic and physical testing machines. Also test various CE structures using non-destructive testing methodologies	2018-2019

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680	Design of Bridges	218SEE01	M.E SE	Skill Development - This course enhances the skill set in design of structural members in particular the design of members in a bridge	2018-2019
681	Stability of Structures	218SEE05	M.E SE	Employability - Skills in assessing the stability of structural elements is focused in this course	2018-2019
682	Advanced SE Laboratory	218SEP01	M.E SE	Entrepreneurship - This laboratory course exposes the students to various techniques and methods available for material testing and conducting research which helps them to gain knowledge to become entrepreneurs	2018-2019
683	Prefabricated Structures	318SEE03	M.E SE	Skill Development-Prefabricated structures is the innovative construction practice and useful for placements	2019-2020
684	Pre-stressed Concrete	318SEE06	M.E SE	Skill Development - This course enhances the skill set related to design of restressed concrete structures.	2019-2020
685	Sub Structure Design	318SEE12	M.E SE	Skill Development - This course helps to understand the concepts involved in design of substructures so that a structural engineer can interact with a geotechnical engineer which helps in project execution	2019-2020
686	Practical Training (4 Weeks)	318SEP01	M.E SE	Entrepreneurship, Skill Development - Students will get experience in industry during this course which helps them to identify skill sets required to be developed so that they become employable	2019-2020
687	Seminar	318SEP02	M.E SE	Skill Development - The course enhances the technical presentation and documentation skills which aids in employability	2019-2020
688	Project Work (Phase- I)	318SEP03	M.E SE	Entrepreneurship, Skill Development - Students develop their skills in doing research or design and enhance their technical report writing and presentation	2019-2020
689	Project Work (Phase - II)	418SEP01	M.E SE	Entrepreneurship, Skill Development - Students develop their skills in doing research or design and enhance their technical report writing and presentation	2019-2020

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