



ADHIYAMAAN COLLEGE OF ENGINEERING (Autonomous)

Affiliated to Anna University– Chennai & Approved by AICTE–New Delhi.
Accredited by NAAC & NBA-UGC, New Delhi

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

AY 2018-19

| 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 enable students to gain the knowledge on civil works like masonry, roofing, flooring and plastering | 2018-2019 |
| 9 | Communicative English | 218ENT01 | First Year Common | Skill Development - This course facilitate students amplify suitable language skills for academic and professional purposes, vocabulary power, different functions of technical and scientific English | 2018-2019 |
| 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 | 218GET03 | First Year | Skill Development - This course enable students study the nature and facts about | 2018-2019 |

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| | Engineering | | Common | environment | |
| 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 | Thermodynamics in Aeronautical Engineering | 315AET03 | AE | Employability - Study thermodynamic principles, thermodynamics of state, basic thermodynamic relations | 2016-2017 |
| 15 | Solid Mechanics | 315AET05 | AE | Entrepreneurship- Learn the operation of Lathe, UMM, UDM, and CNC machines | 2016-2017 |
| 16 | Production Technology | 315AET06 | AE | Employability -Understand the basic properties and principles behind the flight | 2016-2017 |
| 17 | Strength of Materials Laboratory | 315AEP07 | AE | Entrepreneurship - Students can able to determine the material hardness | 2016-2017 |
| 18 | Thermodynamics Laboratory | 315AEP09 | AE | Skill Development - Study thermodynamic principles, thermodynamics of state, basic thermodynamic relations | 2016-2017 |
| 19 | Aerodynamics - I | 415AET02 | AE | Skill Development - Evaluate and understand the Generation of Lift, wing theory and boundary layer concepts. | 2016-2017 |
| 20 | Aircraft Systems and Instruments | 415AET03 | 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 | 2016-2017 |
| 21 | Aircraft Structures - I | 415AET04 | AE | Skill Development - Study the basics of aircraft structural parts functioning and different types of beams and columns | 2016-2017 |
| 22 | Propulsion-I | 415AET05 | AE | Employability - Establish fundamental approach and application of jet engine components | 2016-2017 |
| 23 | Metal Joining Process and NDT | 415AEE06 | AE | Entrepreneurship - The basics of Metal joining process | 2016-2017 |
| 24 | Aircraft Structures Laboratory I | 415AEP07 | AE | Skill Development- Identify statically determinate and indeterminate structures. | 2016-2017 |
| 25 | Aerodynamics Laboratory | 415AEP08 | AE | Entrepreneurship - Understand the visualization in water flow channel | 2016-2017 |
| 26 | Aircraft Component Drawing Laboratory | 415AEP09 | AE | Skill Development - Students can able to assemble the designs on workbench | 2016-2017 |
| 27 | Aircraft structures II | 515AET01 | AE | Employability - Evaluate and understand the Generation of Lift, wing theory and boundary layer concepts. | 2017-2018 |
| 28 | Aircraft Performance | 515AET02 | AE | Entrepreneurship - Impart knowledge of the hydraulic and pneumatic systems components and types of instruments and its operation including navigational instruments to the students | 2017-2018 |

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|-------|---------------------------------------|-------------|-----------------------|---|----------------------|
| 29 | Aerodynamics II | 515AET03 | AE | Skill Development - Study the basics of aircraft structural parts functioning and different types of beams and columns | 2017-2018 |
| 30 | Propulsion II | 515AET04 | AE | Skill Development- Establish fundamental approach and application of jet engine components | 2017-2018 |
| 31 | Aircraft rules and regulation | 515AEE05 | AE | Skill Development - The basics of Metal joining process | 2017-2018 |
| 32 | Aircraft control engineering | 515AEE10 | AE | Skill Development - Identify statically determinate and indeterminate structures. | 2017-2018 |
| 33 | Aircraft Structures Laboratory II | 515AEP07 | AE | Employability - Understand the visualization in water flow channel | 2017-2018 |
| 34 | Propulsion Laboratory | 515AEP08 | AE | Employability - Understand the milling and its experiments | 2017-2018 |
| 35 | Aircraft structures Repair laboratory | 515AEP09 | AE | Skill Development - Use of sandwich panels for Aircraft industry | 2017-2018 |
| 36 | Composite Materials and Structures | 615AET01 | AE | Skill Development - Know the various composite materials and structures used in aircraft Applications and their test methods. | 2017-2018 |
| 37 | Heat Transfer | 615AET02 | AE | Skill Development - Know basic study of the phenomena of heat transfer. | 2017-2018 |
| 38 | Experimental Stress Analysis | 615AET03 | AE | Employability - Knowledge about measuring instruments, factors affecting measurements, errors and corrective measurements. | 2017-2018 |
| 39 | Applied Hydraulics and Pneumatics | 615MEO05 | AE | Skill Development - Familiar with applications, advantages of the fluid power engineering and transmission systems. | 2017-2018 |
| 40 | Wind Tunnel Techniques | 615AEE07 | AE | Skill Development - Study the principles of model testing | 2017-2018 |
| 41 | Aircraft Design Laboratory | 615AEP07 | AE | Employability - Compare different configuration of airplanes on Specifications and performance details of aircraft. | 2017-2018 |
| 42 | Materials Testing Laboratory | 615AEP08 | AE | Entrepreneurship - Knowledge about the basic principles of strength of materials to the undergraduate students through a series of experiments. | 2017-2018 |
| 43 | Aero Engine Repair laboratory | 615AEP09 | AE | Entrepreneurship - Understand the basic concept of piston engine components. | 2017-2018 |
| 44 | Fracture Mechanics and Mechanisms | 715AET01 | AE | Skill Development - Obtain the knowledge about mechanical behaviour of a material under various loading conditions. | 2018-2019 |
| 45 | Avionics | 715AET02 | AE | Skill Development - Understand the needs of avionics for both Civil and Military Aircraft. | 2018-2019 |
| 46 | Airline and Airport Management | 715AET03 | AE | Skill Development - Gain the knowledge about Airline, Airport management principles and their functions. | 2018-2019 |
| 47 | Vibrations and Aero elasticity | 715AET04 | AE | Skill Development - Understand the simple harmonic motion and terminologies involved in D' Alembert's principle of motion. | 2018-2019 |
| 48 | High Temperature Materials | 715AEE07 | AE | Employability - Acquaint the student with the fundamentals of creep. | 2018-2019 |
| 49 | Avionics and Aircraft Systems Lab | 715AEP07 | AE | Employability - Design and implementation of data buses in avionics with MIL – Std. 1553B and remote terminal configuration and their importance in different | 2018-2019 |

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|-------|--|-------------|-----------------------|--|----------------------|
| | | | | applications in the field of Avionics. | |
| 50 | Design and Fabrication of Aeromodelling (Mini Project) | 715AEP08 | AE | Employability - Conduct experiments by considering the constraints such as economics, environment, health and safety. | 2018-2019 |
| 51 | Industrial internship | 715AEP12 | AE | Entrepreneurship - Establishes desirable work habits, attitudes, and communication skills while developing a sense of responsibility | 2018-2019 |
| 52 | Rocket and missile | 815AEE01 | AE | Employability - Understand the Fundamentals and uses of solid, liquid and hybrid propellants in rocket systems. | 2018-2019 |
| 53 | Computer Integrated Manufacturing | 815AEE07 | AE | Entrepreneurship- Learn the overall configuration and elements of computer integrated manufacturing | 2018-2019 |
| 54 | Operational Research | 815AEE11 | AE | Skill Development-The industrial management and techniques of decision making, customer involvement, work-study, incentive schemes. | 2018-2019 |
| 55 | 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 |
| 56 | Materials and Construction I | 118ART04 | ARCH | Employability/ Skill Development - Equip students with naturally occurring 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 |
| 57 | Art Studio | 118ARP05 | ARCH | Employability/ Skill Development - Enhance the Info graphical presentation skills, visual expression and representation, imaginative thinking and creativity through a hands on working various medium and materials. | 2018-2019 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | Mechanics of Structures - I | 218ART01 | ARCH | Skill Development - Familiarize with the different types of stresses and strains in order to analyse the structural stability. | 2018-2019 |
| 62 | Architectural Drawing - II | 218ART04 | ARCH | Employability/ Skill Development - Enhance the skills of representation in drawings techniques and develop the graphical language of architecture. | 2018-2019 |

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| 63 | Materials and Construction - II | 218ART05 | ARCH | Employability/ Skill Development - Focus on various building materials and construction techniques based on the performing standards and codes with the application of each material in both historical and modern context. | 2018-2019 |
| 64 | 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 |
| 65 | 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 |
| 66 | 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 |
| 67 | Mechanics of Structures – II | 315ART01 | ARCH | Employability/ Skill Development - Familiarize the student with the effects of transverse forces in beams and implement the knowledge in design projects. | 2016-2017 |
| 68 | Climate Responsive Architecture | 315ART03 | 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. | 2016-2017 |
| 69 | Environmental Sciences and Engineering | 315ART04 | ARCH | Employability - Gain knowledge on the application of concrete in different buildings and construction industry to support the design from foundation to structural details. | 2016-2017 |
| 70 | Materials and Construction – III | 315ART05 | 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. | 2016-2017 |
| 71 | Computer Aided Design Studio II | 315ARP06 | 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. | 2016-2017 |
| 72 | Design Studio - III | 315ARP07 | ARCH | Employability/Entrepreneurship/Skill Development - Thrust area for specialization in design shall be on cost effective, vernacular, eco, green or sustainable technologies and visual characteristics of a settlements at micro level. | 2016-2017 |
| 73 | Modular co-ordination | 315ARE02 | ARCH | Employability - Enable students to understand the pre-plugged design and prefab structures and meet the need of the growing construction industry. | 2016-2017 |
| 74 | Vernacular Architecture | 315ARE04 | ARCH | Skill Development - Development of significant contribution of vernacular architecture of place in fabric of that city or region. | 2016-2017 |

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| 75 | Analysis & Design of Structures – I | 415ART01 | ARCH | Employability - Enable students to understand on steel and reinforced concrete structures to achieve various design of RC slabs supporting the design need. | 2016-2017 |
| 76 | Site Planning & Analysis | 415ART03 | ARCH | Employability/Skill Development - Insight about the process involved in analyzing the given site and its parameters and help students in evolving a design solution which responds to any given environment. | 2016-2017 |
| 77 | Building Services I | 415ART04 | ARCH | Employability - Sensitize students that efficiency of building function also depend on integration of services like water supply and sewage disposal system, and implement in the schematic layout of simple domestic and office buildings. | 2016-2017 |
| 78 | Materials and Construction – IV | 415ART05 | ARCH | Employability/Skill Development - Develop knowledge to the students of steel and their wider application in the building industry. | 2016-2017 |
| 79 | Design Studio - IV | 415ARP06 | ARCH | Employability/Entrepreneurship/Skill Development - To explore the spatial organization related socio-cultural aspects and implement principles of climatic responsive architecture. | 2016-2017 |
| 80 | Energy Efficient Architecture | 415ARE01 | ARCH | Employability - Incorporate energy efficient techniques in planning, design and detailing of buildings | 2016-2017 |
| 81 | Ergonomics in Building Design | 415ARE03 | ARCH | Skill Development - Explore metrological analysis of the anthropometrics relationship to ergonomic environmental design. | 2016-2017 |
| 82 | Analysis & Design of Structures - II | 515ART01 | ARCH | Employability - Gain knowledge on structural understanding of steel as a material in the building industry and contributes to the design and detailing skills of the student. | 2017-2018 |
| 83 | Interior Design Principles | 515ART03 | ARCH | Employability/ Skill Development - Explore the ways & means of developing interior spaces proceeding from a general discussion of architectural space to the particular characteristics of interior space in 3 dimensions. | 2017-2018 |
| 84 | Building Services - II | 515ART04 | ARCH | Employability - Educate the importance of building services in attaining a holistic architectural design and achieve proficiency in application of electrical services in design & construction. | 2017-2018 |
| 85 | Materials and Construction –V | 515ART05 | ARCH | Employability/ Skill Development - To expose the students to the new/emerging materials like special glasses, Aluminium etc and make them aware of advanced techniques and use in the design. | 2017-2018 |
| 86 | Design Studio - V | 515ARP06 | ARCH | Employability/ Entrepreneurship/ Skill Development - Understand the process of designing for public, involving multiple activities and thrust shall be on structural grid, Development regulations, bye-laws and services. | 2017-2018 |
| 87 | Waste management and recycling | 515ARE01 | ARCH | Employability - Encourage the use of by products from the industrial waste as alternative building material and thereby reducing its impact on environment. | 2017-2018 |
| 88 | Structure and Architecture | 515ARE02 | ARCH | Employability -Integrate the contemporary structural design in the form making | 2017-2018 |

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| | | | | process of architectural design. | |
| 89 | Analysis & Design of Structures - III | 615ART01 | ARCH | Employability - Expose the students to various types of progressive structures and provide knowledge about the factors to be considered while designing such structures. | 2017-2018 |
| 90 | Building Services – III | 615ART03 | ARCH | Employability - Gain Knowledge on the specialized services and integrate the layout of simple air conditioning system for domestic and office buildings and understanding of intelligent buildings and devices used in them. | 2017-2018 |
| 91 | Materials and Construction –VI | 615ART04 | ARCH | Employability/ Skill Development - Comprehend and apply knowledge of advanced construction technologies for large span and complex buildings using panelling, pre-cast and pre-stressed concrete elements etc and vertical connectivity for high rise buildings | 2017-2018 |
| 92 | Design Studio - VI | 615ARP05 | ARCH | Employability/ Entrepreneurship/ Skill Development -Focus shall be on the integration of intelligent service systems in to the design of the building and involving the process of designing buildings for multiple layers and innovate the use of materials, intense building services and large span structural systems. | 2017-2018 |
| 93 | Integrated Surveying | 615CEO01 | ARCH | Employability/ Entrepreneurship/ Skill Development - Develop a sound knowledge of fundamental principles of surveying and handling various surveying equipment's in fields | 2017-2018 |
| 94 | Sustainable Planning and Architecture | 615ARE03 | ARCH | Employability - Integrate Sustainable planning and building principles in architectural design. | 2017-2018 |
| 95 | Graphic and Product Design | 615ARE04 | ARCH | Employability/ Entrepreneurship/ Skill Development - Understand the principle of a Graphic design and product design and enhance their ideas in design application. | 2017-2018 |
| 96 | Landscape Architecture and Design | 715ART01 | ARCH | Employability/ Skill Development - Enlighten the students about the components of landscape features and the construction of the same and gain knowledge of the various features of innovative and modern landscape design application of innovative detailing and appropriate technologies to further better landscape planning. | 2018-2019 |
| 97 | Human Settlement & Planning | 715ART02 | ARCH | Employability - To study the patterns of human settlements and their relevance to architecture through which the betterment of human living and welfare is achieved | 2018-2019 |
| 98 | Specification & Estimation | 715ART03 | ARCH | Employability/ Entrepreneurship/ Skill Development - Adequate knowledge in the making the purpose of estimation and train them in tender preparations, students skill in the calculation of the quantities of various materials used in the construction of building and to develop comprehensive knowledge of valuation | 2018-2019 |

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| | | | | of various buildings. | |
| 99 | Working drawing and detailing | 715ARP04 | ARCH | Employability/ Entrepreneurship/ Skill Development - Gain knowledge about the need and relevance of Working Drawing sets and municipal drawings and their comparison to presentation drawing and their role in construction field. | 2018-2019 |
| 100 | Design Studio - VII | 715ARP05 | ARCH | Employability/ Entrepreneurship/ Skill Development - Enhance the role of architects in creating a sustainable urban environment with the design of large complex. | 2018-2019 |
| 101 | Construction Management | 715CEO02 | ARCH | Employability/ Entrepreneurship - Students able to research, analyze, evaluate and discuss a wide range of construction technologies and management strategies. | 2018-2019 |
| 102 | Contemporary Process in Architecture | 715ARE03 | ARCH | Employability/Skill Development - Expose the students to the new processes in the Development of concept and design in relation with the computation. | 2018-2019 |
| 103 | Affordable Housing | 715ARE04 | ARCH | Employability - In-depth knowledge of various building materials, specifications and construction detailing techniques of affordable buildings satisfy the need and demand of housing in today context. | 2018-2019 |
| 104 | Internship Program | 815ARP01 | ARCH | Employability/ Entrepreneurship/ Skill Development - Provide adequate knowledge on the practice of architecture profession and to learn the administration, managerial and professional skills, and demonstrate the same in the future architectural design study. | 2018-2019 |
| 105 | Professional Practice & Ethics | 911ART01 | ARCH | Employability - Introduce aspects of professional conduct, duties and responsibilities and legal rights and procedures of the architectural profession. | 2015-2016 |
| 106 | Human Settlements & Planning | 911ART02 | ARCH | Employability - To study the patterns of human settlements and their relevance to architecture through which the betterment of human living and welfare is achieved | 2015-2016 |
| 107 | Architectural Design - VI | 911ARP04 | ARCH | Employability/ Entrepreneurship/ Skill Development - Evolving sensitivity to design of spaces at the urban scale – creation of nodes and links, visual landmarks, activity and interaction zones, relationship between commercial, recreational and residential areas. | 2015-2016 |
| 108 | Architectural Conservation | 911AET01 | ARCH | Employability/ Skill Development - Understand the values and ethics of conservation and expose students to conservation process and methodology and need for them in Indian context. | 2015-2016 |
| 109 | Construction and Project Management | 911AET02 | ARCH | Employability/Skill Development - Explore the involvement of directing and organizing each part of the project life cycle, from ideation to completion. It's a holistic practice. | 2015-2016 |

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| 110 | Urban Design & Renewal | 911AET04 | ARCH | Employability - To give awareness to students about the clearing out of blighted areas in inner cities to clear out slums and to know the there is an opportunities for higher class housing, businesses | 2015-2016 |
| 111 | Thesis | 1011ARTH01 | ARCH | Employability/ Entrepreneurship/ Skill Development - Demonstrate design project comprehension to independently formulate, analyse, and solve architectural problems. | 2015-2016 |
| 112 | Urban Housing | 1011ARE01 | ARCH | Employability - Gain Knowledge on Development of housing, its management, and how to make the same user friendly through participatory approach. | 2015-2016 |
| 113 | Construction planning & Management | 1011ARE02 | ARCH | Employability/ Entrepreneurship/ Skill Development - Giving insight of buildings/construction projects towards financial management. | 2015-2016 |
| 114 | Cell Biology | 315BTT03 | BT | Skill Development - This course enables students skill in cellular signalling mechanisms, cellular regulations and cell culture techniques | 2016-2017 |
| 115 | Microbiology | 315BTT04 | BT | Skill Development- This course provides skills in microbial classification, identification and control | 2016-2017 |
| 116 | Instrumental Methods of Analysis | 315BTT05 | BT | Skill Development - This course provides basic skills on biological instrumentation | 2016-2017 |
| 117 | Cell Biology Lab | 315BTP07 | BT | Skill Development - This course provides basic skills on identification of cellular mechanisms | 2016-2017 |
| 118 | Microbiology Lab | 315BTP08 | BT | Skill Development - This course enables skills on microbial culture techniques and identification of microorganisms | 2016-2017 |
| 119 | Instrumental Methods of Analysis Lab | 315BTP09 | BT | Skill Development - This course provides basic skills on biological instrumentation | 2016-2017 |
| 120 | Basic Industrial Biotechnology | 315BTE01 | BT | Skill Development - This course provides skills on production of biologically important products such as antibiotics, vitamins, alcohol, etc., | 2016-2017 |
| 121 | Probability And Statistics | 415PST01 | BT | Skill Development - This course enables skills on design of experiments and research methodologies | 2016-2017 |
| 122 | Molecular Biology | 415BTT02 | BT | Skill Development - This course provide skills on genomic and plasmid DNA and RNA isolation, PCR based techniques and cloning and expression of vectors | 2016-2017 |
| 123 | Instrumental Methods of Analysis | 415BTT03 | BT | Skill Development - This course provide skills on stoichiometric calculations for various industrial operations | 2016-2017 |
| 124 | Fundamentals of Unit Operations | 415BTT04 | BT | Skill Development - This course provide skills on bioreactor and heat transfer operations | 2016-2017 |
| 125 | Enzyme Technology | 415BTT05 | BT | Skill Development - This course provide skills on industrially important enzyme production and activity determination | 2016-2017 |

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|-------|---|-------------|-----------------------|--|----------------------|
| 126 | Molecular Biology Lab | 415BTP07 | BT | Skill Development - This course provide skills on genomic and plasmid DNA and RNA isolation, PCR based techniques and cloning and expression of vectors | 2016-2017 |
| 127 | Enzyme Technology Lab | 415BTP08 | BT | Skill Development - This course provide skills on industrially important enzyme production and activity determination | 2016-2017 |
| 128 | Chemical Engineering Lab | 415BTP09 | 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 | 2016-2017 |
| 129 | Environmental Biotechnology | 415BTE01 | BT | Skill Development - This course provide skills on environmental studies, bioremediation and waste management | 2016-2017 |
| 130 | Immunology | 515BTT01 | BT | Skill Development - The course provides the students with the skillset of raising antigen and antibodies against the various disease, and the detection procedure. | 2017-2018 |
| 131 | Genetic Engineering | 515BTT02 | BT | Skill Development - This course provide skills on genomic and plasmid DNA and RNA isolation, PCR based techniques and cloning and expression of vectors | 2017-2018 |
| 132 | Bioprocess Engineering I | 515BTT03 | 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 | 2017-2018 |
| 133 | Fundamentals of Mass Transfer | 515BTT04 | 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 | 2017-2018 |
| 134 | Chemical Thermodynamics & Biothermodynamics | 515BTT05 | 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 | 2017-2018 |
| 135 | Immunology Lab | 515BTP07 | BT | Skill Development - The course provides the students with the skillset of raising antigen and antibodies against the various disease, and the detection procedure. | 2017-2018 |
| 136 | Genetic Engineering Lab | 515BTP08 | 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 | 2017-2018 |
| 137 | Bioprocess Engineering Lab I | 515BTP09 | 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 | 2017-2018 |
| 138 | Pollution Control In Bioprocess | 515CHO05 | BT | Employability - The course offers skills like design and analysis of ideal and non | 2017-2018 |

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|-------|---------------------------------------|-------------|-----------------------|--|----------------------|
| | Industries | | | -ideal reactors, also provides insight into the skills like Bioreactor assembly and manufacturing | |
| 139 | Bioinformatics | 615BTT01 | BT | Skill Development - The course provides the students with the skill of basics of database in biological system, sequence alignment, phylogeny and CADD | 2017-2018 |
| 140 | Chemical Reaction Engineering | 615BTT02 | 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 | 2017-2018 |
| 141 | Bioprocess Engineering-II | 615BTT03 | 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 | 2017-2018 |
| 142 | Health & Pharmaceutical Biotechnology | 615BTT04 | 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 | 2017-2018 |
| 143 | Plant Biotechnology | 615BTT05 | BT | Skill Development - The course is focussed in the manner to provide in depth application oriented skills like gene transfer in plants, transgenic and commercialization | 2017-2018 |
| 144 | Process Dynamics And Control | 615EIO01 | BT | Employability - The course provides the students with the skill of basics of biological safety measures, industrial process dynamics and its control | 2017-2018 |
| 145 | Bioprocess Engineering Laboratory -II | 615BTP07 | 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 | 2017-2018 |
| 146 | Plant Biotechnology Laboratory | 615BTP08 | BT | Skill Development - The course is focussed in the manner to provide in depth application oriented skills like gene transfer in plants, transgenic and commercialization | 2017-2018 |
| 147 | Technical Seminar | 615BTP09 | BT | Skill Development - 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. | 2017-2018 |
| 148 | Animal Biotechnology | 715BTT01 | BT | Skill Development - The course provides the students with the skill of animal disease, treatment, micromanipulation and transgenic animal technology | 2018-2019 |
| 149 | Downstream Processing | 715BTT02 | 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 | 2018-2019 |
| 150 | Cancer Biology | 715BTT03 | BT | Skill Development - This course enables students skill in cellular signalling mechanisms, cancer cell proliferation and regulations and control mechanisms | 2018-2019 |
| 151 | Disaster Management | 715BTT04 | BT | Skill Development - Aseismic design is mandatory as per IS recommendations. | 2018-2019 |

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|-------|--|-------------|-----------------------|--|----------------------|
| | | | | This course develops the skill set required for aseismic design of structures | |
| 152 | Downstream Processing Lab | 715BTP07 | 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 | 2018-2019 |
| 153 | Employability Skills Lab | 715BTP09 | BT | Employability - The course provides entrepreneurship-based skills like managing a firm, small business and to start-ups | 2018-2019 |
| 154 | Analytical Techniques In Biotechnology Lab | 715BTP10 | 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. | 2018-2019 |
| 155 | Clinical Research And Database Management | 715BTE01 | 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 | 2018-2019 |
| 156 | Genomics And Proteomics | 715BTE10 | BT | Skill Development - The course provides the students with the skill of genome and proteome analysis | 2018-2019 |
| 157 | Bioethics, IPR And Entrepreneurship | 815BTT01 | 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 | 2018-2019 |
| 158 | Molecular Pathogenesis | 815BTE03 | BT | Employability - Offers the student with therapeutics of diseases | 2018-2019 |
| 159 | Medical Coding | 815BTE09 | BT | Employability - The course provides the students with the skill of basics of medical codes and transcripts | 2018-2019 |
| 160 | Industrial Training | 815BTP06 | 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 | 2018-2019 |
| 161 | Electric Circuits and Electron Devices | 218EDT05 | BME | Skill Development-Students can able to learn the basics in electric circuits and electron devices | 2018-2019 |
| 162 | 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 |
| 163 | Life Sciences – I | 315BMT03 | BME | Employability- Course helps to learn the anatomy of human body and diseases causing to the humans | 2016-2017 |
| 164 | Analog Electronics | 315BMT04 | BME | Skill Development-Students can able to get knowledge in Design circuits using diodes based on required output and apply suitable biasing circuits for BJT and FET | 2016-2017 |
| 165 | Data Structures & Object | 315BMT06 | BME | Skill Development-This course helps to Gain the basic knowledge on Object | 2016-2017 |

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|-------|---|-------------|-----------------------|--|----------------------|
| | Oriented Programming in C++ | | | Oriented Programming and develop Applications, and Implement Features of Object Oriented Programming to Solve Real World Problems. | |
| 166 | Life Sciences – I Lab | 315BMP07 | BME | Employability-This subject will help understood of how eye tests are conducted and demonstrated the contents of blood and how to analyse it | 2016-2017 |
| 167 | Analog & Digital Electronics Laboratory | 315BMP08 | BME | Skill Development-This subject will help understood the practical application of various electronic circuits like rectifiers, amplifiers. | 2016-2017 |
| 168 | Data Structures & Object Oriented Programming in C++Lab | 315BMP09 | BME | Skill Development-This subject will help the students to understand how to write a C Programming. | 2016-2017 |
| 169 | Signals and Systems | 415ECT02 | BME | Skill Development-This course will help the students to understand the types of signals and systems and how to analyse the signals. | 2016-2017 |
| 170 | Sensors and Measurements | 415BMT03 | BME | Skill Development-Get the knowledge about different types of sensors and measurement techniques | 2016-2017 |
| 171 | Medical Physics | 415BMT04 | BME | Skill Development-Gain the knowledge on light in medical applications and radiation effects on human body | 2016-2017 |
| 172 | Life Sciences - II | 415BMT05 | BME | Employability-Students will learn the basic features of chromatography and electrophoresis and to understand principle of microscopes. | 2016-2017 |
| 173 | Electromagnetic Field Theory | 415BME07 | BME | Skill Development-This course will help understood the coordinate systems and learn mathematical operations related to fields. | 2016-2017 |
| 174 | Life Science-II Laboratory | 415BMP08 | BME | Employability-Students can get practical knowledge on analysis of carbohydrates, lipids and proteins qualitatively and quantitatively | 2016-2017 |
| 175 | Sensors & Measurements Laboratory | 415BMP09 | BME | Skill Development-Students will learn the characteristics of sensors | 2016-2017 |
| 176 | Biomedical Instrumentation | 515BMT01 | 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. | 2017-2018 |
| 177 | Microprocessor and Microcontroller | 515ECT03 | BME | Skill Development-This course enables students to understand the architecture and assembly language programming of microprocessors and microcontrollers | 2017-2018 |
| 178 | Bio Control Systems | 515BMT04 | BME | Skill Development-Students can able to get knowledge on control system concept and different mathematical techniques applied in analyzing any given system | 2017-2018 |
| 179 | Analog & Digital Communication | 515BMT05 | BME | Skill Development-Provides the knowledge different modulation and demodulation techniques used in signal communication | 2017-2018 |
| 180 | Virtual Instrumentation | 515BOE06 | BME | Skill Development-This course enables students to understand various | 2017-2018 |

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|-------|--|-------------|-----------------------|---|----------------------|
| 181 | Biomedical Instrumentation Lab | 515BMP07 | BME | programming techniques in virtual instrumentation Employability-Provides practical knowledge to handle biomedical equipment used for in medical applications and helps to get job in healthcare sector | 2017-2018 |
| 182 | Microprocessor and Microcontroller Lab | 515ECP08 | BME | Skill Development-Students can develop the code in assembly language programming. | 2017-2018 |
| 183 | Digital Signal Processing Lab | 515BMP09 | BME | Skill Development-Students can design and analyse various filter techniques using MATLAB. | 2017-2018 |
| 184 | Diagnostic Equipment | 615BMT01 | BME | Employability-Helps to understand the diagnosis of various diseases using diagnostic equipment | 2017-2018 |
| 185 | Therapeutic Equipment | 615BMT02 | BME | Employability-This course will help the students to understand different equipment used to treat the diseases of the patients. | 2017-2018 |
| 186 | Radiological Equipments | 615BMT03 | BME | Employability-Provides knowledge on how the radiations are used for diagnosis and treatment of diseases using radiological equipment | 2017-2018 |
| 187 | Medical Embedded Systems | 615BMT04 | BME | Skill Development-This course will help the architecture and programming of ARM processor and outline the concepts of embedded systems | 2017-2018 |
| 188 | Biomaterials & Artificial Organs | 615BMT05 | BME | Employability-Student can learn the different biomaterials used in the body for the implantable devices. | 2017-2018 |
| 189 | Medical Safety & Quality Assurance | 615BME06 | BME | Employability-Enable students to understand medical safety standards used for the medical equipment | 2017-2018 |
| 190 | Diagnostic and Therapeutic Lab | 615BMP08 | BME | Employability-This course will help the students to handle different diagnostic and therapeutic equipment used for diagnosis and therapy | 2017-2018 |
| 191 | Medical Optics | 715BMT01 | BME | Skill Development-This course will help the students to understand the optical principles used in different medical applications | 2018-2019 |
| 192 | Biomechanics | 715BMT03 | BME | Employability-Student can able to apply principles of mechanics that is used to analyse human movement | 2018-2019 |
| 193 | Pattern Recognition & Neural Networks | 715BMT04 | BME | Skill Development-This course will help the students to understand the different algorithms used in the pattern recognition and neural networks. | 2018-2019 |
| 194 | Medical Informatics | 715BMT05 | BME | Skill Development-Students can able to analyse the role of informatics in engineering and medicine | 2018-2019 |
| 195 | Rehabilitation Engineering | 715BME06 | BME | Employability -Students can get knowledge about rehabilitation and orthotic devices in Rehabilitation Engineering | 2018-2019 |
| 196 | Professional Ethics and Human Values | 715BME07 | BME | Entrepreneurship-This course helps to understand human values and engineering ethics and to create a constructive organizational culture in business | 2018-2019 |
| 197 | Digital Image Processing Lab | 715BMP07 | BME | Skill Development-Provides practical knowledge on the medical image | 2018-2019 |

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|-------|---|-------------|-----------------------|---|----------------------|
| | | | | processing using MATLAB | |
| 198 | Hospital Training Lab | 715BMP08 | BME | Entrepreneurship-Students can get training of various equipment in hospital and get opportunity to work in hospitals and industries | 2018-2019 |
| 199 | Hospital Engineering & Management | 815BMT01 | BME | Entrepreneurship-Enables students to understand fundamentals of hospital administration and management | 2018-2019 |
| 200 | Assist Devices | 815BME04 | BME | Employability-This course focuses on orthotic and prosthetic medical devices | 2018-2019 |
| 201 | Advanced Medical Instrumentation | 815BME07 | BME | Employability-This course will help the students to understand the various biomedical equipment used in the hospital. | 2018-2019 |
| 202 | Chemistry for Technologists | 218BSE03 | CH | Skill Development- Suggest the applications of gas laws in real life situations, characteristics and properties of solutions | 2018-2019 |
| 203 | Problem Solving and Python Programming Laboratory | 218PPP08 | CH | Skill Development- Implement Python programs with conditionals and loops, debug and develop Python programs step-wise by defining functions and calling | 2018-2019 |
| 204 | Organic Chemistry | 315CHT03 | CH | Skill Development- Concepts related to the reaction mechanisms, rearrangements and synthesis of new compounds will develop their skills | 2016-2017 |
| 205 | Chemical Process Calculations | 315CHT04 | 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 | 2016-2017 |
| 206 | Materials Technology | 315CHE05 | 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. | 2016-2017 |
| 207 | Organic Chemistry Laboratory | 315CHP07 | CH | Employability- Analyse the nature of organic compound, characteristics of various functional groups | 2016-2017 |
| 208 | Technical Analysis Laboratory | 315CHP08 | CH | Employability-Analyse the properties of various chemical products will enhance the employability in quality analysis. | 2016-2017 |
| 209 | Electrical Engineering Laboratory | 315CHP09 | CH | Skill Development- Concepts in the areas of characteristics of DC generators, and DC motors, AC motors & transformers | 2016-2017 |
| 210 | Instrumental Methods of Analysis | 415CHT03 | CH | Skill Development- Concepts on various aspects of process industries and understands the methods of production of different chemicals, plant and equipment design | 2016-2017 |
| 211 | Chemical Engineering Fluid Mechanics | 415CHT04 | 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 transport the fluid and their performance. | 2016-2017 |

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|-------|-------------------------------------|-------------|-----------------------|---|----------------------|
| 212 | Mechanical Operations | 415CHT05 | 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 and thickeners | 2016-2017 |
| 213 | Renewable Energy Technologies | 415CHE03 | 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 | 2016-2017 |
| 214 | Fuel and Combustion Technologies | 415CHE06 | CH | Skill Development- Understand the concepts of classification and purification methods of solid ,liquid fuels and gaseous fuels ,kinetics and mechanism and design of equipment for combustion process | 2016-2017 |
| 215 | Fluid Mechanics Laboratory | 415CHP07 | 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 | 2016-2017 |
| 216 | Physical Chemistry Laboratory | 415CHP08 | CH | Skill Development-Understand the principles, properties and characteristics of solvents and mixtures, molecular weight of solute using different methods | 2016-2017 |
| 217 | Mechanical Operations Laboratory | 415CHP09 | CH | Skill Development-Able to determine work index, average particle size through experiments by crushers, ball mill, rod mill and conducting size analysis by various size sieves, design size separation equipment such as cyclone separator, pressure and vacuum filters, determine thickener area | 2016-2017 |
| 218 | Chemical Engineering Thermodynamics | 515CHT01 | 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 equilibria of ideal and non-ideal chemical mixtures, equilibrium constants, standard enthalpy, Gibbs free energy and equilibrium compositions for single and multiple reaction systems | 2017-2018 |
| 219 | Chemical Process Industries | 515CHT02 | CH | Skill Development- Concepts on various aspects of process industries and understands the methods of production of different chemicals, plant and equipment design | 2017-2018 |
| 220 | Heat Transfer | 515CHT03 | CH | Skill Development-Concepts of different modes of heat transfer ,heat transfer with and without change of phase ,decide the type of evaporator required for a specific purpose, concepts of heat exchangers | 2017-2018 |
| 221 | Mass Transfer-I | 515CHT04 | 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 | 2017-2018 |

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|-------|---|-------------|-----------------------|---|----------------------|
| | | | | Cooling towers, dryers and crystallizers | |
| 222 | Process Instrumentation | 515CHE01 | CH | Skill Development- Able to determine thermal conductivity for various conductors and Stefan Boltzmann constants ,experimental data to evaluate heat transfer co-efficient and evaluate performance of different types of equipment including heat exchangers, condensers | 2017-2018 |
| 223 | Biotechnology and its applications | 515BTO05 | CH | Skill Development- Able to understand the basics of fermentation techniques, various industrially important biological products production | 2017-2018 |
| 224 | Heat Transfer Laboratory | 515CHP07 | CH | Skill Development-Concepts of different modes of heat transfer ,heat transfer with and without change of phase ,decide the type of evaporator required for a specific purpose, concepts of heat exchangers | 2017-2018 |
| 225 | Chemical Engineering Computation Laboratory | 515CHP08 | CH | Skill Development-Equipped with the software applications and the numerical solutions of chemical engineering problems, optimize the various factors using the computational techniques | 2017-2018 |
| 226 | Mass Transfer – II | 615CHT01 | 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 | 2017-2018 |
| 227 | Chemical Process Plant Safety | 615CHT04 | CH | Employability-Able to perform hazard analysis, identify various accidents ,provide proper remedial measures, understand the safe working environment | 2017-2018 |
| 228 | Analytical Instrumentation | 615EIO01 | CH | Skill Development- Concepts on thermal measurement, pressure measurement, spectroscopic methods, level measurement instrumentations and applications | 2017-2018 |
| 229 | Industrial Management | 615CHE02 | CH | Entrepreneurship-Able to understand the function of leadership and organizing culture, importance of quality control in process and planning operations, necessity of planning process and objectives, decision making processes ,nature and purpose of organization and importance of staffing selection recruitment | 2017-2018 |
| 230 | Food Science and Technology | 615CHE06 | 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 | 2017-2018 |
| 231 | Process Control Lab | 615CHP07 | CH | Employability-Able to evaluate of its performance using MATLAB Simu-link software in dynamic study of processes, and design of controllers | 2017-2018 |
| 232 | Mass Transfer Laboratory | 615CHP08 | CH | Employability-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 | 2017-2018 |
| 233 | Chemical Process Equipment | 615CHP09 | CH | Employability- Able to design and draw considerations of process equipment | 2017-2018 |

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|-------|---|-------------|-----------------------|---|----------------------|
| | Design and Drawing Laboratory - I | | | through performing required calculations for the process equipment design | |
| 234 | Process Modeling and Simulation | 715CHT01 | CH | Skill Development-Apply the fundamentals of modelling 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 | 2018-2019 |
| 235 | Chemical Engineering Plant Design and Economics | 715CHT02 | 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 | 2018-2019 |
| 236 | Transport Phenomena | 715CHT03 | 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 | 2018-2019 |
| 237 | Modern Separation Techniques | 715CHT04 | CH | Skill Development-Analyze different types of separation techniques based on size, surface properties, cross flow filtration ,design equations for membrane separation processes such as RO&UF, affinity and immuno chromatographic columns | 2018-2019 |
| 238 | Solid waste Management | 715CHE05 | 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 | 2018-2019 |
| 239 | Fundamentals of Nanotechnology | 715CHE10 | CH | Skill Development-application of carbon nanotubes and process the involved, learn microfabrication different types of NEMS, MEMS and learn principles of microscopes | 2018-2019 |
| 240 | Chemical Reaction Engineering Laboratory | 715CHP07 | CH | Employability- Estimate the rate constant of a chemical reaction through performance analysis of PFR, PBR, CSTR and RTD in reactors and kinetics studies | 2018-2019 |
| 241 | Chemical Process Equipment Design & Drawing Laboratory - II | 715CHP08 | CH | Employability- Design and draw heat and mass transfer equipment, various heads in chemical plants | 2018-2019 |
| 242 | Technical Seminar & Report Writing Laboratory | 715CHP09 | CH | Employability-Study and present a seminar on a topic of current relevance in chemical engineering or allied areas | 2018-2019 |
| 243 | Petroleum Refinery Engineering | 815CHE02 | CH | Skill Development-Knowledge about various exploration techniques of petroleum with properties and specifications of various petroleum products, | 2018-2019 |

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|-------|---|-------------|-----------------------|--|----------------------|
| | | | | various separation processes ,various conversion processes employed with safety and pollution aspect | |
| 244 | Drugs and Pharmaceutical Engineering | 815CHE06 | CH | Skill Development- Design and develop new drug, formulate the excipients in tablets, powders, capsules, microcapsules and coating techniques | 2018-2019 |
| 245 | Bioreactor Design | 815CHE08 | CH | Skill Development- Design a bioreactor considering mass transfer between different phases, accessories and internals like agitator, sterilizer, controllers ,bioreactor considering all its related problems | 2018-2019 |
| 246 | Corrosion Engineering | 815CHE10 | 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 | 2018-2019 |
| 247 | Project Work & Viva Voce | 815CHP04 | CH | Employability/ Entrepreneurship/ Skill Development- Able to apply the concepts of Chemical Engineering to solve the existing real time industrial and societal issues | 2018-2019 |
| 248 | Physics for Civil Engineering | 218BSE05 | CE | Employability - Content in the syllabus will help to Integrate the principles in the projects undertaken in field of Civil Engineering | 2018-2019 |
| 249 | Applied Geology | 315CET03 | CE | Employability -gain knowledge on the elementary concepts of Geology in Civil Engineering | 2016-2017 |
| 250 | Mechanics of Solids | 315CET04 | CE | Employability-gain knowledge on stress, strain and material properties used in construction industry | 2016-2017 |
| 251 | Mechanics of Fluids | 315CET05 | CE | Employability-gain knowledge in behaviour and design of hydraulic structures | 2016-2017 |
| 252 | Surveying - I | 315CET06 | CE | Entrepreneurship/Skill Development - To possess the knowledge on Classification of Surveying. To impart knowledge on applications of levelling in Engineering field. | 2016-2017 |
| 253 | Advanced Construction Techniques | 315CEE01 | CE | Entrepreneurship - gain knowledge in various building materials and construction techniques | 2016-2017 |
| 254 | Construction resource Planning & Management | 315CEE02 | CE | Entrepreneurship - knowledge on Construction planning & scheduling helps in High profile construction companies | 2016-2017 |
| 255 | Construction Planning & Orientation | 315CEE03 | CE | Entrepreneurship - gain knowledge in project monitoring and controlling | 2016-2017 |
| 256 | Building Materials & Construction Practice | 315CEE04 | CE | Skill Development -gain knowledge in testing of various building materials used in construction | 2016-2017 |
| 257 | Surveying Practice - I | 315CEP08 | CE | Entrepreneurship/Skill Development -gain knowledge in various surveying techniques and equipments which enhances employment opportunities | 2016-2017 |
| 258 | Strength of Materials | 315CEP09 | CE | Skill Development-gain knowledge in testing materials for strength | 2016-2017 |

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|-------|-------------------------------------|-------------|-----------------------|---|----------------------|
| | Laboratory | | | | |
| 259 | Geotechnical Engineering | 415CET03 | CE | Employability-gain knowledge on deformation and strains under different load action and response in terms of forces and moments | 2016-2017 |
| 260 | Transportation Engineering - I | 415CET04 | CE | Employability-to understand, soil as an engineering material the load-deformation behaviour, through its index and engineering properties | 2016-2017 |
| 261 | Applied Hydraulic Engineering | 415CET05 | CE | Employability-helps in planning and design of highway structures | 2016-2017 |
| 262 | Hydrographic Surveying in detail | 415CEE01 | CE | Employability- Concepts of fluid mechanics and applications to fluid machinery will enable the students to perform better as an engineer during their employability | 2016-2017 |
| 263 | Aerial Surveying in detail | 415CEE02 | CE | Skill Development - gain knowledge in various surveying techniques and equipments which enhances employment opportunities | 2016-2017 |
| 264 | Lidar Surveying | 415CEE03 | CE | Skill Development - gain knowledge in various surveying techniques and equipments which enhances employment opportunities | 2016-2017 |
| 265 | Surveying - II | 415CEE04 | CE | Skill Development - gain knowledge in various surveying techniques and equipments which enhances employment opportunities | 2016-2017 |
| 266 | Building Planning and Drawing | 415CEP07 | CE | Entrepreneurship/Skill Development - gain knowledge in various surveying techniques and equipments which enhances employment opportunities | 2016-2017 |
| 267 | Hydraulic Engineering Laboratory | 415CEP08 | CE | Skill Development- gain knowledge in preparing plan and building drawings | 2016-2017 |
| 268 | Surveying Practice - II | 415CEP09 | CE | Skill Development-gain knowledge on various hydraulic engineering problems like open channel flows and hydraulic machines | 2016-2017 |
| 269 | Concrete Technology | 515CET01 | CE | Employability- This course develops skills in concreting technology | 2017-2018 |
| 270 | Structural Analysis - I | 515CET02 | CE | Employability-gain basic knowledge on analysing structures | 2017-2018 |
| 271 | Design of RCC Structures | 515CET03 | CE | Skill Development-Design skill of RC members helps in design of safe and stable RC structures | 2017-2018 |
| 272 | Water Supply Engineering | 515CET04 | CE | Employability-gain knowledge in water supply system | 2017-2018 |
| 273 | Foundation Engineering | 515CET05 | 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 | 2017-2018 |
| 274 | Water Shed Management | 515CEE04 | CE | Employability - gain knowledge in modern techniques and manage storm water and flood | 2017-2018 |
| 275 | Geotechnical Engineering Laboratory | 515CEP07 | CE | Skill Development - knowledge on soil tests and investigations helps in civil engineering projects | 2017-2018 |
| 276 | Public Health Engineering | 515CEP08 | CE | Skill Development - gain knowledge on water testing and environmental | 2017-2018 |

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|-------|-----------------------------------|-------------|-----------------------|--|----------------------|
| | Laboratory | | | pollutants | |
| 277 | Extensive Survey Camp (Two Weeks) | 515CEP09 | CE | Entrepreneurship/Skill Development-through hands on training and applications on survey methods and equipments helps in employability opportunities as a surveyor | 2017-2018 |
| 278 | Structural Analysis - II | 615CET01 | CE | Employability-gain knowledge in analysis of structures to find design forces | 2017-2018 |
| 279 | Design of Steel Structures | 615CET02 | 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. | 2017-2018 |
| 280 | Sanitary Engineering | 615CET03 | CE | Employability-gain knowledge to design various unit operations and processes for sewage treatment system and hence can handle waste water disposal issues | 2017-2018 |
| 281 | Transportation Engineering - II | 615CET04 | CE | Employability-gain skills to plan and design Railways , Airports and Harbour structures | 2017-2018 |
| 282 | Irrigation Engineering | 615CET05 | CE | Employability-design skills for irrigation structures enhance their placement opportunities in the Civil consultancy offices | 2017-2018 |
| 283 | Pre-fabricated Structures | 615CEE02 | CE | Entrepreneurship-Prefabricated structures is the innovative construction practice and useful for placements | 2017-2018 |
| 284 | Earthquake Resistant Structures | 615CEE03 | CE | Employability-knowledge on earthquake resistant structures will enhance job opportunities in Large scale earthquake resistant projects | 2017-2018 |
| 285 | Design of PSC Structures | 615CEE04 | CE | Skill Development-Knowledge of prestressed concrete structures helpful in large span bridge and building construction projects | 2017-2018 |
| 286 | Smart Structures | 615CEE05 | CE | Employability-Work with various types of Sensors used in smart structures | 2017-2018 |
| 287 | Concrete and Highway Laboratory | 615CEP07 | CE | Skill Development-Find out the properties of cement, aggregate, bitumen, concrete. | 2017-2018 |
| 288 | Computer Aided Design - I | 615CEP08 | CE | Entrepreneurship/Skill Development-gain knowledge on software used for drafting and it helps in employment opportunities | 2017-2018 |
| 289 | Irrigation Drawing | 615CEP10 | CE | Skill Development- Design and draft the various components of the Tank. Design and draft the various irrigation impounding structures. | 2017-2018 |
| 290 | Environmental Engineering Drawing | 615CEP11 | CE | Skill Development-gain knowledge on water testing and environmental pollutants | 2017-2018 |
| 291 | Steel Structural Drawing | 615CEP12 | CE | Entrepreneurship/Skill Development -gain knowledge on software used for drafting and it helps in employment opportunities | 2017-2018 |
| 292 | Bridge Engineering Drawing | 615CEP13 | CE | Skill Development-This course enhances the skill set in design of structural members in particular the design of members in a bridge | 2017-2018 |
| 293 | RCC Structural Drawing | 615CEP14 | CE | Skill Development-gain knowledge on software used for drafting and it helps in | 2017-2018 |

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|-------|--|-------------|-----------------------|--|----------------------|
| | | | | employment opportunities | |
| 294 | Estimation and Quantity Surveying | 715CET01 | CE | Entrepreneurship/Skill Development -Knowledge in cost estimation and valuation enhances the job opportunity in the construction field | 2018-2019 |
| 295 | Ground Improvement Techniques | 715CET02 | 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. | 2018-2019 |
| 296 | Rock Mechanics | 715CEE03 | CE | Employability -gain knowledge on geological factor on rock and solve the field problems associated with rocks and have a knowledge of classification of rock mass | 2018-2019 |
| 297 | Construction Planning & Project Management | 715CEE13 | CE | Entrepreneurship-knowledge on Construction planning & scheduling helps in High profile construction companies | 2018-2019 |
| 298 | Architecture & Town Planning | 715CEE15 | CE | Employability-Knowledge in Urban and regional planning helps in taking up smart city projects and grow as an entrepreneur | 2018-2019 |
| 299 | Computer Aided Design Laboratory - II | 715CEP07 | CE | Entrepreneurship/Skill Development-gain knowledge on software used for drafting and it helps in employment opportunities | 2018-2019 |
| 300 | Employability Skills Laboratory | 715CEP08 | CE | Entrepreneurship/Skill Development - gain field knowledge in various Civil Engineering subjects | 2018-2019 |
| 301 | Design Project | 715CEP09 | CE | Entrepreneurship/Skill Development - Students develop their skills in doing research or design and enhance their technical report writing and presentation | 2018-2019 |
| 302 | Disaster Mitigation & Management | 815CET01 | CE | Employability - gain knowledge about information technologies in disaster risk management. Also enhances awareness of Disaster Risk Management institutional processes in India | 2018-2019 |
| 303 | Repair & Rehabilitation of Structures | 815CEE01 | CE | Entrepreneurship-knowledge on repair and rehabilitation of structures will enhance the jobs related to civil consultancy services | 2018-2019 |
| 304 | Valuation of Real Properties | 815CEE05 | CE | Entrepreneurship - Analyse the valuation of residential, commercial and industrial buildings. Also gain comprehensive knowledge related to the investment of finance in real properties | 2018-2019 |
| 305 | Fundamental of Bridge structures | 815CEE08 | CE | Skill Development-This course enhances the skill set in design of structural members in particular the design of members in a bridge | 2018-2019 |
| 306 | Data Structures | 315CST04 | CSE | Employability -Enhancing the problem solving Skills through the knowledge of data structures | 2016-2017 |
| 307 | Discrete Mathematics and Graph Theory | 415DMT01 | CSE | Skill Development- this course helps students in boosting their calculating ability | 2016-2017 |

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|-------|---|-------------|-----------------------|--|----------------------|
| 308 | Software Engineering | 415CST04 | CSE | Skill Development -Course provides Skills to learn and use agile software and usability Engineering | 2016-2017 |
| 309 | Formal Languages and Automata Theory | 415CSE04 | CSE | Skill Development - this course helps to construct algorithms for related problems and decide whether a string is in language or not | 2016-2017 |
| 310 | PC Hardware and Trouble shooting | 415CSE05 | CSE | Skill Development- this course helps in working with assembly and disassembly of hardware devices | 2016-2017 |
| 311 | Micro-Processor and Microcontroller with Applications | 515CST02 | CSE | Skill Development -Provide programming Skills in microprocessor and microcontroller both ALP and embedded C, hence students able to design any projects. | 2017-2018 |
| 312 | Modeling and Design | 515CST03 | CSE | Skill Development - students would indulge in testing software models and designs | 2017-2018 |
| 313 | Micro-Processor and Microcontroller Laboratory | 515CSP07 | CSE | Skill Development -Provide programming Skills in microprocessor and microcontroller both ALP and embedded C, hence students able to design any projects. | 2017-2018 |
| 314 | Modeling and Design Laboratory | 515CSP08 | CSE | Skill Development - students will implement software models and designs at labs | 2017-2018 |
| 315 | Employability Skill Laboratory | 515CSP09 | CSE | Employability - Students can help to identify Skill gaps and plan your Skill Development to build a portfolio of Skills valued by employers. | 2017-2018 |
| 316 | C# and .NET Programming | 515CSE07 | CSE | Skill Development -This course enables the student to develop real time based solutions using C# and .NET Framework | 2017-2018 |
| 317 | Computer Graphics and Multimedia Systems | 515CIE08 | CSE | Employability -Developing multimedia based applications | 2017-2018 |
| 318 | Advanced Java Programming | 515CSE09 | CSE | Skill Development- this course helps students in implementing their programming based knowledge with servlets and JSP | 2017-2018 |
| 319 | Agent Based Intelligent system | 515CSE11 | CSE | Entrepreneurship - This course enable students to learn more and better knowledge. | 2017-2018 |
| 320 | Compiler Design | 615CST02 | CSE | Skill Development - Student will learn about modification of user program can be easily made and implemented as execution proceeds. | 2017-2018 |
| 321 | Web Programming | 615CST04 | CSE | Employability - this course helps students to design web based applications | 2017-2018 |
| 322 | Compiler Design Laboratory | 615CSP07 | CSE | Skill Development - This course will help the students the basic techniques that underlie the practice of Compiler Construction. | 2017-2018 |
| 323 | Mobile Application Development Laboratory | 615CSP08 | CSE | Skill Development - This course enables the student to develop his Practical Skills set in mobile application Development | 2017-2018 |
| 324 | Web Programming Laboratory | 615CSP09 | CSE | Employability - this course helps students to design web based applications | 2017-2018 |

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|-------|--|-------------|-----------------------|---|----------------------|
| 325 | Service Oriented Architecture | 615CSE07 | CSE | Skill Development- this course helps in performing software oriented products and handling them with required measures | 2017-2018 |
| 326 | Parallel and Distributed Computing | 615CSE08 | CSE | Skill Development - This course covers a broad range of topics related to parallel and distributed computing. | 2017-2018 |
| 327 | Soft Computing | 615CSE09 | CSE | Skill Development - Able to apply evolutionary algorithms in hybrid soft computing techniques | 2017-2018 |
| 328 | Pervasive Computing | 615CSE10 | CSE | Skill Development- this course helps students in performing pervasive computing | 2017-2018 |
| 329 | Mainframe Technologies | 615CSE11 | CSE | Skill Development- this course helps students to work with excel sheets | 2017-2018 |
| 330 | XML and Web Services | 615CSE12 | CSE | Skill Development - This course is to teach the students the concepts, technologies and techniques underlying and making up the Semantic Web | 2017-2018 |
| 331 | Data ware Housing and Data mining | 715CIT 02 | CSE | Skill Development- this course helps to work with metadata and store them in a storage grid and perform metadata handling | 2018-2019 |
| 332 | Scripting Languages | 715CST03 | CSE | Skill Development - This course is to provide students with an overview of the concepts and fundamentals of Principles of Programming Languages. | 2018-2019 |
| 333 | Grid and Cloud Computing | 715CST04 | CSE | Skill Development and Employability - Foundations to emerging technology - Study of virtualization concepts and various Cloud Computing Architecture, Service and Delivery models | 2018-2019 |
| 334 | Grid and Cloud Computing Laboratory | 715CSP07 | CSE | Skill Development and Employability - Foundations to emerging technology - Study of virtualization concepts and various Cloud Computing Architecture, Service and Delivery models | 2018-2019 |
| 335 | Scripting Language Laboratory | 715CSP08 | CSE | Skill Development - This course is to provide students with implementing the concepts and fundamentals of Principles of Programming Languages. | 2018-2019 |
| 336 | Building Enterprise Application | 715CSE02 | CSE | Skill Development- this course helps students in building a working commercial application | 2018-2019 |
| 337 | Business Intelligence and its Applications | 715CSE03 | CSE | Entrepreneurship -this course helps students in working with business related applications | 2018-2019 |
| 338 | Information Storage Management | 715CSE04 | CSE | Skill Development- this course helps to prevent data breach and secure data | 2018-2019 |
| 339 | Multi core Architecture | 715CSE05 | CSE | Skill Development- this course helps to learn about the working of hardware systems | 2018-2019 |
| 340 | Foundation Skills in Product Development | 715CSE06 | CSE | Skill Development - The students gets knowledge of the Innovation and Product Development process in the Business Context. | 2018-2019 |
| 341 | Machine Learning Techniques | 715CSE07 | CSE | Skill Development -To build predictive models using advanced Machine | 2018-2019 |

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| | | | | Learning Techniques | |
| 342 | Software Project Management | 715CSE08 | CSE | Skill Development - The students gets knowledge of the Innovation and Product Development process in the Business Context. | 2018-2019 |
| 343 | Information Retrieval Techniques | 715CSE09 | CSE | Skill Development- this course gives the knowledge of retrieving of lost or damaged information | 2018-2019 |
| 344 | Enterprise Resource Planning | 715CSE10 | CSE | Entrepreneurship - this course indulge students in working with software related projects | 2018-2019 |
| 345 | Visualization Techniques | 715CSE11 | CSE | Skill Development- this course helps the students to study about the data based on the metadata | 2018-2019 |
| 346 | System Modeling and Simulation | 715CSE12 | CSE | Skill Development - students would indulge in testing software models and designs | 2018-2019 |
| 347 | Social Network Analysis | 815CSE02 | CSE | Skill Development- students involve in working with social media data and analysing the different updates of technologies that taking place up to date | 2018-2019 |
| 348 | Adhoc and Sensor Network | 815CSE03 | CSE | Skill Development- this course provides the knowledge of simulating adhoc networks | 2018-2019 |
| 349 | High Performance Network | 815CSE04 | CSE | Employability - Students can develop and test high speed networks in communication industry | 2018-2019 |
| 350 | Software Quality and Testing | 815CSE06 | CSE | Entrepreneurship - Apply the concepts of nation income and understand the functions of bank and globalization | 2018-2019 |
| 351 | Knowledge Management | 815CSE07 | CSE | Skill Development- this course helps individuals in developing their enhancement of knowledge | 2018-2019 |
| 352 | Web Design and Management | 815CSE08 | CSE | Employability/Entrepreneurship - helps students to develop web based application | 2018-2019 |
| 353 | Cyber Forensics and Ethical Hacking | 815CSE09 | CSE | Skill Development-this course helps in calculating the performing of security in systems | 2018-2019 |
| 354 | Software Design and Architecture | 815CSE10 | CSE | Skill Development- this course provides knowledge about managing software tools | 2018-2019 |
| 355 | Physics for Electronics Engineering | 218BSE08 | ECE | Skill Development-This course gives knowledge about fundamental physics in electronics engineering | 2018-2019 |
| 356 | Engineering Mathematics-III | 315MAT01 | ECE | Employability-This course will help the students to model the real life problems | 2016-2017 |
| 357 | Data Structures and Object Oriented Programming in C++ | 315ECT03 | ECE | Employability/Skill Development-Students can learn and write C++ programs for real-time applications | 2016-2017 |
| 358 | Digital Electronics | 315ECT04 | ECE | Employability-Provides knowledge in Integrated Circuits which avails the student employment in core industry | 2016-2017 |

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|-------|--|-------------|-----------------------|---|----------------------|
| 359 | Analog Electronics - I | 315ECT05 | ECE | Employability-Students can design and test analog circuits such as amplifiers and in electronic system design | 2016-2017 |
| 360 | Data Structure and Object Oriented Programming in C++ Laboratory | 315ECP07 | ECE | Employability/Skill Development-Students can learn and write C++ programs for real-time applications | 2016-2017 |
| 361 | Digital Electronics Laboratory | 315ECP08 | ECE | Employability-Provides knowledge in Integrated Circuits which avails the student employment in core industry | 2016-2017 |
| 362 | Analog Electronics-I Laboratory | 315ECP09 | ECE | Employability-Students can design and test analog circuits such as amplifiers and in electronic system design | 2016-2017 |
| 363 | Probability and Random Processes | 415PRT01 | ECE | Skill Development-Provides the fundamentals of probability logic and statistics in building analytics-based solutions. | 2016-2017 |
| 364 | Signals and Systems | 415ECT02 | ECE | Skill Development-Able to test analog and digital signals and process the same in real time applications. | 2016-2017 |
| 365 | Linear Integrated Circuits | 415ECT03 | ECE | Skill Development-Provide knowledge in usage of IC's, designing and developing theoretical device/circuit operation of digital circuits | 2016-2017 |
| 366 | Analog Electronics -II | 415ECT04 | ECE | Employability-Students can design and test analog circuits such as amplifiers and oscillators | 2016-2017 |
| 367 | Linear Integrated Circuit Laboratory | 415ECP07 | ECE | Skill Development-Provide knowledge in usage of IC's, designing and developing theoretical device/circuit operation of digital circuits | 2016-2017 |
| 368 | Analog Electronics-II Laboratory | 415ECP08 | ECE | Employability-Students can design and test analog circuits such as amplifiers and oscillators | 2016-2017 |
| 369 | Industrial Electronics | 415ECE01 | ECE | Entrepreneurship-This course provide an opportunity to develop industry need based applications | 2016-2017 |
| 370 | Consumer Electronics | 415ECE02 | ECE | Employability-This course provide an opportunity to develop consumer need based applications | 2016-2017 |
| 371 | Green Electronics | 415ECE03 | ECE | Employability-This course provide an opportunity to develop socio-environmental need based applications | 2016-2017 |
| 372 | Optoelectronic Devices | 415ECE04 | ECE | Employability-This course provide an opportunity to develop optoelectronic based applications | 2016-2017 |
| 373 | PCB Design | 415ECE05 | ECE | Employability-This Course content to help the students to build the PCB circuits | 2016-2017 |
| 374 | Solid State Devices | 415ECE06 | ECE | Employability- Provides knowledge in Solid State Devices to get employment in core industry | 2016-2017 |
| 375 | Digital Signal Processing | 515ECT02 | ECE | Employability-Able to design analog and digital filters in signal processing | 2017-2018 |
| 376 | Microprocessors and | 515ECT03 | ECE | Employability-Students can work in controller programming to control various | 2017-2018 |

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|-------|---|-------------|-----------------------|--|----------------------|
| | Microcontrollers | | | real-time applications | |
| 377 | Computer Communication and Networks | 515ECT04 | ECE | Employability-Students can design and analyse various computer network protocols for real-time applications | 2017-2018 |
| 378 | Digital Signal Processing Laboratory | 515ECP07 | ECE | Employability-Able to design analog and digital filters in signal processing | 2017-2018 |
| 379 | Microprocessors and Microcontrollers Laboratory | 515ECP08 | ECE | Employability-Students can work in controller programming to control various real-time applications | 2017-2018 |
| 380 | Computer Networks Laboratory | 515ECP09 | ECE | Employability-Students can design and analyse various computer network protocols for real-time applications | 2017-2018 |
| 381 | VLSI Design | 615ECT02 | ECE | Employability/Skill Development- Provides a chance to work in VLSI semiconductor industry to design and fabricate integrated circuits | 2017-2018 |
| 382 | Digital Communication | 615ECT03 | ECE | Skill Development-Gives the ability to design various digital communication modules in tele-communication industry | 2017-2018 |
| 383 | Antenna and Wave Propagation | 615ECT04 | ECE | Skill Development-Gives the ability to design and analyse various antenna modules in communication industry | 2017-2018 |
| 384 | Employability Skills Laboratory | 615ECP07 | ECE | Employability/Skill Development- Provides career by enhancing employability and industry need skills. | 2017-2018 |
| 385 | VLSI Design Laboratory | 615ECP08 | ECE | Employability/Skill Development- Provides a chance to work in VLSI semiconductor industry to design and fabricate integrated circuits | 2017-2018 |
| 386 | Analog and Digital Communication Systems Laboratory | 615ECP09 | ECE | Skill Development-Gives the ability to design various analog and digital communication modules in tele-communication industry | 2017-2018 |
| 387 | Digital Image Processing | 615ECE01 | ECE | Skill Development-Students can learn image analysis techniques in the form of image segmentation and evaluate the methodologies for segmentation | 2017-2018 |
| 388 | Digital System Design using VHDL | 615ECE03 | ECE | Employability- Provides knowledge in digital design which makes the student to get employed in product Development industry | 2017-2018 |
| 389 | Information Theory and Coding | 615ECE04 | ECE | Employability-Information coding techniques knowledge helps in abstract modelling and designing systems | 2017-2018 |
| 390 | RF System Design | 715ECT01 | ECE | Skill Development- Students can analyse and test RF Circuits in communication industry | 2018-2019 |
| 391 | Optical Communication | 715ECT02 | ECE | Employability/Skill Development- Gives the ability to design various optical communication modules in communication industry | 2018-2019 |
| 392 | Microwave Engineering | 715ECT03 | ECE | Employability/Skill Development- Gives the ability to design various microwave communication modules in communication industry | 2018-2019 |

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|-------|--|-------------|-----------------------|--|----------------------|
| 393 | Embedded Systems | 715ECT04 | ECE | Employability/Entrepreneurship/Skill Development-Enables the student to learn various embedded system concepts | 2018-2019 |
| 394 | Optical and Microwave Laboratory | 715ECP07 | ECE | Employability/Skill Development- Gives the ability to design various microwave and optical communication modules in communication industry | 2018-2019 |
| 395 | Electronic System Design Laboratory | 715ECP08 | ECE | Employability/Skill Development-students can design and test electronic circuits | 2018-2019 |
| 396 | Mini Project | 715ECP09 | ECE | Employability/Entrepreneurship/Skill Development-Students can develop various projects using recent technologies. | 2018-2019 |
| 397 | Engineering Ethics And Human Values | 715ECE01 | ECE | Employability-Provides knowledge on code of ethics that a student has to follow in an organization. | 2018-2019 |
| 398 | Principles of Management | 715ECE02 | ECE | Entrepreneurship/ Employability-This course help in managing and maintaining the aspects with respect to administration and productivity. | 2018-2019 |
| 399 | Telecommunication Switching Networks | 715ECE09 | ECE | Skill Development-Gives the ability to design various communication modules in communication industry | 2018-2019 |
| 400 | Wireless Communication | 715ECE10 | ECE | Skill Development-Enables students to design various wireless communication modules in communication industry | 2018-2019 |
| 401 | Advanced Microcontrollers | 715ECE11 | ECE | Employability-Students can work in controller programming to control various real-time applications | 2018-2019 |
| 402 | Disaster Mitigation and Management | 815ECT01 | ECE | Employability/Skill Development-Students can predict the disasters and suggest preventive measures | 2018-2019 |
| 403 | Cellular and Mobile Communication | 815ECE01 | ECE | Employability - Gives the ability to design various mobile communication modules in communication industry | 2018-2019 |
| 404 | Electromagnetic Interference and Compatibility | 815ECE02 | ECE | Skill Development-Gives the ability to analyse various electric and magnetic fields with respect to Electromagnetic Interference and Compatibility | 2018-2019 |
| 405 | ARM System Architecture and applications | 815ECE03 | ECE | Employability- Students can design real time applications based ARM processors | 2018-2019 |
| 406 | Satellite Communication | 815ECE09 | ECE | Employability - Gives the ability to design various communication modules in communication industry | 2018-2019 |
| 407 | Microwave Integrated Circuits Design | 815ECE10 | ECE | Employability - Provides an opportunity to design and analyse microwave systems in industry | 2018-2019 |
| 408 | Low Power VLSI Design | 815ECE11 | ECE | Employability - Students can work in VLSI industry to design and fabricate integrated circuits | 2018-2019 |
| 409 | Project Work | 815ECP04 | ECE | Employability/Entrepreneurship/Skill Development-Develops the research skill on product Development | 2018-2019 |

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|-------|--|-------------|-----------------------|---|----------------------|
| 410 | Electromagnetic Theory | 315EET04 | EEE | Employability- This course deals with the real time applications of electro magnetic circuits which enhances the employability skills of the students. | 2016-2017 |
| 411 | Linear Integrated Circuits and Applications | 315EET05 | EEE | Entrepreneurship- This course gives the knowledge about the operational amplifiers and other Ics, hence student can develop them in real time. | 2016-2017 |
| 412 | Measurements and Instrumentation | 315EEE06 | 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. | 2016-2017 |
| 413 | Linear Integrated Circuits Lab | 315EEP07 | EEE | Skill Development- This course develops the practical knowledge about op amp and other IC characteristics by practicing the lab experiments. | 2016-2017 |
| 414 | Measurements and Instrumentation Lab | 315EEP08 | EEE | Skill Development- This course gives the knowledge to develop the instrumentation handling skills. | 2016-2017 |
| 415 | Electrical and Electronics Circuits simulation Lab | 315EEP09 | EEE | Skill Development-This course develops the knowledge in real time simulation of electrical and electronics circuits by practicing the lab experiments. | 2016-2017 |
| 416 | Numerical Methods | 415NMT01 | EEE | Skill Development- This course develops the practical knowledge about op amp and other IC characteristics by practicing the lab experiments. | 2016-2017 |
| 417 | Digital Electronic Circuits | 415EET03 | EEE | Skill Development-This course develops the knowledge in real time simulation of electrical and electronics circuits by practicing the lab experiments. | 2016-2017 |
| 418 | Power Generation Systems | 415EET04 | 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. | 2016-2017 |
| 419 | Electrical Machines – I | 415EET05 | EEE | Employability- This Course provides the knowledge about the D.C electrical machines and Transformers. | 2016-2017 |
| 420 | Control Systems Laboratory | 415EEP07 | EEE | Skill Development-This programme develops the knowledge in Transfer Function and stability concepts by practicing the lab experiments. | 2016-2017 |
| 421 | Electrical Machines Laboratory- I | 415EEP08 | EEE | Skill Development-This course develops the knowledge in real time application of D.C machines and transformer by practicing the lab experiments. | 2016-2017 |
| 422 | Electrical Machines – II | 515EET02 | EEE | Employability- This course deals with the Construction, working principle of A.C machines which ensures the employability opportunity to the students. | 2017-2018 |
| 423 | Advanced Control Theory | 515EET03 | EEE | Skill Development- This course explains the concept of stability analysis in non linear systems which develop the analytical skills. | 2017-2018 |
| 424 | Protection and Switchgear | 515EET04 | EEE | Entrepreneurship- This course provides the knowledge about working structure of relays in detail which supports the entrepreneurship skill to the students. | 2017-2018 |
| 425 | Transmission and Distribution | 515EET05 | EEE | Employability- This course deals the operation methods of power transmission and distribution in the electrical network hence student get the employability in | 2017-2018 |

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|-------|-------------------------------------|-------------|-----------------------|--|----------------------|
| | | | | the electrical core field. | |
| 426 | Communication Theory | 515EOE01 | EEE | Skill Development- This course provides the knowledge about the communication of analog signal and digital signal which develops the students skills in electronic communication area. | 2017-2018 |
| 427 | Electrical Machines Laboratory – II | 515EEP07 | EEE | Skill Development-This course develops the knowledge in real time application of A.C machines by practicing the lab experiments. | 2017-2018 |
| 428 | Digital Electronics Laboratory | 515EEP09 | EEE | Skill Development-This course develops the knowledge in real time applications of digital electronics by practicing the lab experiments. | 2017-2018 |
| 429 | Electrical Machine Design | 615EET01 | EEE | Entrepreneurship- This course deals with the designing of DC and AC machines which develops the entrepreneurship skills. | 2017-2018 |
| 430 | Power Electronics | 615EET02 | EEE | Employability- This course deals with the characteristics of power electronics devices. | 2017-2018 |
| 431 | Power System Analysis and Stability | 615EET03 | EEE | Skill Development- This course deals with the stability analysis of power system which ensures the Development of analytical skill. | 2017-2018 |
| 432 | High Voltage Engineering | 615EET04 | EEE | Skill Development- This course deals with the generation and testing of high voltage. | 2017-2018 |
| 433 | Industrial Automation | 615EEE01 | EEE | Employability- This course deals the Automation methods in the industrial platform which gives employment opportunities to the student | 2017-2018 |
| 434 | Power Electronics Lab | 615EEP07 | EEE | Skill Development-This course develops the practical knowledge about characteristics of power electronics devices through the lab experiments. | 2017-2018 |
| 435 | Electronic System Design lab | 615EEP09 | EEE | Skill Development-This course helps the students to design and develop electronic circuits. | 2017-2018 |
| 436 | Power System Operation and Control | 715EET02 | 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. | 2018-2019 |
| 437 | Electric Drives and Control | 715EET03 | EEE | Entrepreneurship-This course provides details of DC and AC drives and their characteristics. | 2018-2019 |
| 438 | Renewable Energy Sources | 715EET04 | EEE | Employability- The course deals with the principles of renewable energy sources for electrical power generation which ensures the student employment in power stations. | 2018-2019 |
| 439 | Special Electrical Machines | 715EEE10 | EEE | Skill Development- This course provides the knowledge of principles, characteristics and applications of certain special machines. | 2018-2019 |
| 440 | Power System Simulation Laboratory | 715EEP08 | EEE | Skill Development-This course develops the knowledge in real time simulation of power system analysis by practicing the lab experiments. | 2018-2019 |

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|-------|--|-------------|-----------------------|---|----------------------|
| 441 | Electric Drives lab | 715EEP09 | EEE | Skill Development-This course develops the analytical skills of the students through practical experiments on DC and AC electric drives. | 2018-2019 |
| 442 | Electric Power Utilization and Energy Auditing | 815EET01 | EEE | Employability- This course deals with the lighting system configuration and working procedure and the energy auditing methods. | 2018-2019 |
| 443 | EHVAC Power Transmissions | 815EEE01 | EEE | Employability- This course provides the knowledge in EHV electrical power transmission system which ensures the employability in the power sector. | 2018-2019 |
| 444 | VLSI Design | 815EEE08 | EEE | Skill Development- This course provide the designing skill in VLSI domain. | 2018-2019 |
| 445 | Circuit Theory | 218CAT05 | EIE | 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 |
| 446 | Physics Of Semiconductor | 218BSE07 | EIE | Skill Development- The course helps to develop the basic knowledge about semiconductor devices. | 2018-2019 |
| 447 | Engineering Chemistry Laboratory | 218CYP07 | EIE | Skill Development- This lab courses deals with the real time chemicals in the laboratory so that student can develop their skills. | 2018-2019 |
| 448 | Electron Devices and Circuits Laboratory | 218EDP09 | EIE | Skill Development- This course provides practical knowledge of electrical circuits and electron devices by practicing the experiments. | 2018-2019 |
| 449 | Analog Electronics | 315EIT03 | EIE | Skill Development - Design the circuits using diodes, BJT and FET & IC Fabrication | 2016-2017 |
| 450 | Digital Electronics | 315EIT04 | EIE | Skill Development - Concept of combinational circuits, synchronous, asynchronous circuit and PLD | 2016-2017 |
| 451 | Electrical Machines | 315EIT05 | EIE | Skill Development - Understand the construction, working, characteristics and applications of DC generators & DC motors, testing of single phase transformers | 2016-2017 |
| 452 | Circuit Simulation lab | 315EIP07 | EIE | Skill Development - OSCAD and SCI Lab software and implementation of transient and parametric analysis of RL, RC and RLC | 2016-2017 |
| 453 | Analog and Digital Electronics Lab | 315EIP08 | EIE | Skill Development - Design the various code converters, shift registers, counters, Multiplexers and Timers | 2016-2017 |
| 454 | Electrical Machines Lab | 315EIP09 | EIE | Skill Development - Analysing characteristics of DC motor, AC motor and Transformers | 2016-2017 |
| 455 | Network Analysis and Synthesis | 315EEE01 | EIE | Skill Development - Evaluate one-port networks and two-port network parameters and Understand the impact of various types of filters and attenuators | 2016-2017 |
| 456 | Electrical and Electronic Measurements | 415EIT02 | EIE | Skill Development - Understand and analyze the calibration of industrial meters and apply the appropriate measuring techniques to real time applications | 2016-2017 |
| 457 | Control systems | 415EIT03 | EIE | Skill Development - Analyze the time-domain and frequency response of systems and design compensators | 2016-2017 |
| 458 | Transducers Engineering | 415EIT04 | EIE | Skill Development - Understand the adequate knowledge of transducers for | 2016-2017 |

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|-------|--|-------------|-----------------------|--|----------------------|
| | | | | pressure, force, temperature, density and torque measurement | |
| 459 | Thermodynamics & Fluid Mechanics | 415EIT05 | EIE | Skill Development - Acquire the knowledge, capability of analyzing problems associated with the dimensional and modal analysis | 2016-2017 |
| 460 | Transducers Laboratory | 415EIP07 | EIE | Skill Development - Ability to analyse the characteristics of various transducers and infer the reasons for the behaviour | 2016-2017 |
| 461 | Thermodynamics & Fluid Mechanics Laboratory | 415EIP08 | EIE | Skill Development - Perform experiments on engine, compressor, refrigerators and air conditioning | 2016-2017 |
| 462 | Data structures Laboratory | 415EIP09 | EIE | Skill Development - Data structures for implementing solutions to practical problems | 2016-2017 |
| 463 | Microprocessors ,Microcontrollers and its Applications | 515EET01 | EIE | Skill Development - Acquire the knowledge of interfacing the peripheral devices with 8085 microprocessor and 8051 micro controller | 2017-2018 |
| 464 | Analytical Instrumentation | 515EIT03 | EIE | Skill Development - Analyze the principle operation of chromatographic Techniques, PH meters and analyzers | 2017-2018 |
| 465 | Principles of communication systems | 515EIT04 | EIE | Skill Development - Understand the concepts of modulation and demodulation, fiber optic communication system and data communication codes | 2017-2018 |
| 466 | Virtual Instrumentation Lab | 515EIP06 | EIE | Skill Development - Simulation in LabVIEW, Arithmetic and Logic operations ,Creating and Debugging a VI | 2017-2018 |
| 467 | Process Control Laboratory | 515EIP07 | 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 | 2017-2018 |
| 468 | Microprocessors Microcontrollers Laboratory | 515EEP08 | EIE | Skill Development - Implement the developed code using 8085 processors and 8051 controllers | 2017-2018 |
| 469 | Digital signal analysis and Processing | 515EIE01 | EIE | Skill Development - Understand and analyze multirate signal processing techniques and their applications | 2017-2018 |
| 470 | MEMS and its application | 515EIE06 | EIE | Skill Development - Providing the knowledge of sensors, wireless communications, fluidic systems, micro engines, semiconductors and solid mechanics to fabricate MEMS devices | 2017-2018 |
| 471 | Instrumentation System Design | 615EIT01 | EIE | Employability - Provides the comprehensive knowledge for various instrumentation system like Pressure, Level and temperature Measurement | 2017-2018 |
| 472 | Industrial Instrumentation | 615EIT02 | EIE | Skill Development - Understand the various measurements adopted in industry environment | 2017-2018 |
| 473 | Logic and Distributed control system | 615EIT03 | EIE | Employability - Understand DCS, I/O modules and field devices of an industrial automation system | 2017-2018 |

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|-------|--|-------------|-----------------------|---|----------------------|
| 474 | Applied Soft Computing | 615EIT04 | EIE | Skill Development - Adequate knowledge about feedback neural networks, fuzzy and neuro-fuzzy system and genetic Algorithm | 2017-2018 |
| 475 | Instrumentation System Design Lab | 615EIP05 | EIE | Skill Development - Designing of square root extractor, linearizing circuit for thermocouples, ON/OFF and PID Controllers | 2017-2018 |
| 476 | Industrial Instrumentation Lab | 615EIP06 | EIE | Skill Development - Analyze Instrumentation systems and their applications to various Industries | 2017-2018 |
| 477 | Employability Skills | 615EIP07 | EIE | Employability - Enhance the employability skills of students with a special focus on Presentation skills, Group discussion skills and Interview skills | 2017-2018 |
| 478 | Principles of Management | 615EIE03 | EIE | Entrepreneurship - Understand of managerial functions like planning, organizing, staffing, leading & controlling | 2017-2018 |
| 479 | Industrial Data Networks | 715EIT01 | EIE | Skill Development - Knowledge about the computer networks, the methods of internetworking and industrial data communication | 2018-2019 |
| 480 | Computer Control of Processes | 715EIT02 | EIE | Skill Development - Provides knowledge about design of Digital Controllers and multiloop system analysis | 2018-2019 |
| 481 | Robotics and Automation | 715EIT04 | EIE | Employability - Analyze the various parts of robots and fields of robotics | 2018-2019 |
| 482 | Computer Control of Process Laboratory | 715EIP05 | EIE | Skill Development - Ability to design digital Controllers, feedback, feed forward, ratio and cascade complex control systems | 2018-2019 |
| 483 | Technical Seminar and Aptitude skills | 715EIP07 | 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 | 2018-2019 |
| 484 | Wireless sensor networks | 715EIE09 | EIE | Skill Development - Knowledge in Architectures to Link the hardware and Software network nodes | 2018-2019 |
| 485 | Power Plant Instrumentation | 815EIT01 | EIE | Employability - Analyze various measurements and control in power generation plants and SCADA in power plants | 2018-2019 |
| 486 | Project Work and Viva-voce | 815EIP02 | EIE | Skill Development - Develop a model / prototype of an idea related to the field of Electronics and instrumentation | 2018-2019 |
| 487 | Instrumentation in Industrial Application | 815EIE01 | EIE | Employability - Acquire an adequate knowledge about the measurement of various parameters in cement, steel, petrochemical and pharmaceutical Industries | 2018-2019 |
| 488 | Building Automation | 815EIE08 | EIE | Employability - Analyze current philosophy, technology, terminology, and practices used in building automation | 2018-2019 |
| 489 | Basic Electrical Electronics and Instrumentation Engineering | 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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|-------|---|-------------|-----------------------|--|----------------------|
| 490 | Programming in C | 218CPT05 | IT | Skill Development -Course helps to learn the fundamental programming concepts using C | 2018-2019 |
| 491 | Programming in C Laboratory | 218CPP09 | IT | Skill Development -Course helps to learn the fundamental programming concepts using C | 2018-2019 |
| 492 | 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 |
| 493 | Environmental Science & Sustainability | 315GET02 | IT | Employability - To learn the various unit process and operation of water and wastewater and understand the water distribution networks and plumbing system | 2016-2017 |
| 494 | Digital Principles and System Design | 315ITT03 | IT | Employability - This course helps students in Solving problems in areas of digital electronics. | 2016-2017 |
| 495 | Data Structures and Algorithms | 315ITT04 | IT | Employability -Enhancing the problem solving skills through the knowledge of data structures | 2016-2017 |
| 496 | Computer Organization and Architecture | 315CIT06 | IT | Skill Development -Acquiring Knowledge of basic building blocks of computer systems | 2016-2017 |
| 497 | Digital Laboratory | 315ITP07 | IT | Employability - This course helps students in Solving problems in areas of digital electronics, measurements, sensors and industrial instrumentation | 2016-2017 |
| 498 | Data Structures and Algorithms Laboratory | 315ITP08 | IT | Employability -Enhancing the problem solving skills through the knowledge of data structures | 2016-2017 |
| 499 | Java Programming Laboratory | 315CIP09 | 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. | 2016-2017 |
| 500 | Probability and Queuing Theory | 415PQT01 | IT | Employability, Skill Development - Student can understand the basic concepts of random processes which are widely used in IT fields | 2016-2017 |
| 501 | Operating System | 415CIT02 | IT | Employability -Acquiring Knowledge of basic functionalities of operation systems | 2016-2017 |
| 502 | Database Management Systems | 415CIT03 | IT | Skill Development - Students can able to understand the transaction processing concurrency control. | 2016-2017 |
| 503 | Microprocessors & Microcontrollers | 415ITT04 | IT | Skill Development -Provide programming skills in microprocessor and microcontroller both ALP and embedded C, hence students able to design any projects. | 2016-2017 |
| 504 | Computer Networks | 415CIT05 | IT | Employability - Provides skill in Network and System, hence student to get employment in core industry | 2016-2017 |
| 505 | Design and Analysis of Algorithms | 415CIE03 | IT | Skill Development -This subject enhances the problem analysis skills | 2016-2017 |

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| 506 | Operating System Laboratory | 415CIP07 | IT | Employability -Acquiring Knowledge of basic functionalities of operation systems | 2016-2017 |
| 507 | Database Management Systems Laboratory | 415CIP08 | IT | Skill Development -To familiarise the students with major DBMS concepts | 2016-2017 |
| 508 | Computer Networks Laboratory | 415CIP09 | IT | Employability - Course help them to learn various protocols, compare different topologies and summarize the functionality of network layers | 2016-2017 |
| 509 | Software Engineering & Quality Assurance | 515ITT02 | IT | Employability -Exposure to discipline of software Development life cycle models | 2017-2018 |
| 510 | Object Oriented Analysis and Design | 515ITT03 | IT | Skill Development -This course enables the students to analyse, design a software system or business by using Object Oriented concepts. | 2017-2018 |
| 511 | Communication Engineering | 515ITT04 | IT | Employability - Gives the ability to design various communication modules in communication industry | 2017-2018 |
| 512 | C# & .NET Programming | 515CIE05 | IT | Skill Development -This course enables the student to develop real time based solutions using C# and .NET Framework | 2017-2018 |
| 513 | Applied Statistics and Numerical Methods | 515MAE01 | IT | Employability - This course will help the students to model the real life problems | 2017-2018 |
| 514 | Internet Programming Laboratory | 515ITP07 | IT | Skill Development - Students could design and develop websites and documents using HTML and XML | 2017-2018 |
| 515 | Object Oriented Analysis and Design Laboratory | 515ITP08 | IT | Skill Development -This course enables the students to analyse, design a software system or business by using Object Oriented concepts. | 2017-2018 |
| 516 | C# & .NET Programming Laboratory | 515IEP05 | IT | Skill Development -This course enables the student to develop real time based solutions Practical Oriented using C# and .NET Framework | 2017-2018 |
| 517 | Compiler Engineering | 615ITT01 | IT | Skill Development - Student will learn about modification of user program can be easily made and implemented as execution proceeds. | 2017-2018 |
| 518 | Cryptography and Security in Computing | 615ITT02 | IT | Skill Development - Knowledge about cryptographic algorithms, helps to enhance secured communications | 2017-2018 |
| 519 | UNIX Internals | 615ITT03 | IT | Skill Development - This course is designed to enable the student to use the UNIX operating system. | 2017-2018 |
| 520 | Open Source Software | 615ITT04 | IT | Skill Development - Provides an opportunity to Improving accessibility and access to higher education. | 2017-2018 |
| 521 | Building Enterprise Applications | 615ITE01 | IT | Employability - this course is to give an overall and complete understanding of Enterprise Software and Design Patterns. | 2017-2018 |
| 522 | Compiler and Security Laboratory | 615ITP07 | IT | Skill Development - This course will help the students the basic techniques that underlie the practice of Compiler Construction. | 2017-2018 |

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|-------|---|-------------|-----------------------|--|----------------------|
| 523 | Open Source Software Laboratory | 615ITP08 | IT | Skill Development - Provides an opportunity to Improving accessibility and access to higher education with Practical skills. | 2017-2018 |
| 524 | Employability Skills Laboratory | 615CIP09 | IT | Employability - Students can help to identify skill gaps and plan your Skill Development to build a portfolio of skills valued by employers. | 2017-2018 |
| 525 | Mobile Communications | 715ITT01 | IT | Employability -Developing mobile applications | 2018-2019 |
| 526 | Data Warehousing and Data Mining | 715CIT02 | IT | Skill Development - This course helps to explore datamining algorithms and Visualization concepts | 2018-2019 |
| 527 | Mobile Application Development | 715CIT03 | IT | Skill Development - This course enables the student to develop his skills set in mobile application Development | 2018-2019 |
| 528 | Cloud Computing | 715CIT04 | IT | Skill Development -Exposure to various platforms that helps in building cloud applications | 2018-2019 |
| 529 | Internet of Things | 715CIE01 | IT | Employability - Learning various IoT platforms to build smart applications | 2018-2019 |
| 530 | Engineering Ethics & Human Values | 715BAO03 | IT | Entrepreneurship - The students gets knowledge about the disaster management strategies which helps in developing entrepreneurship | 2018-2019 |
| 531 | Mobile Application Development Laboratory | 715CIP07 | IT | Skill Development - This course enables the student to develop his Practical skills set in mobile application Development | 2018-2019 |
| 532 | Cloud Computing Laboratory | 715CIP08 | IT | Skill Development and Employability - Foundations to emerging technology - Study of virtualization concepts and various Cloud Computing Architecture, Service and Delivery models | 2018-2019 |
| 533 | Big Data Analytics | 815CIT01 | IT | Skill Development -This course enables the student to analyse volumes data and skim out valuable information | 2018-2019 |
| 534 | Software Testing | 815ITE02 | IT | Skill Development -This course helps to know about various testing types and tools . | 2018-2019 |
| 535 | Adhoc and Sensor Networks | 815ITE06 | IT | Employability- The students gets knowledge about the current technology trends for the implementation and deployment of wireless ad-hoc/sensor networks. | 2018-2019 |
| 536 | Basic Civil, Electrical and Electronics Engineering | 118ESE02 | ME | Skill Development - Students will know about various discipline in the field of engineering which will give more confidence among the students. | 2018-2019 |
| 537 | Engineering Practice Laboratory | 118EPP07 | ME | Skill Development - This course will give more practical exposure on different processes like welding, sheet metal, plumbing, carpentry, etc. | 2018-2019 |
| 538 | Material Science | 218BSE01 | ME | Employability - This course will give more knowledge on different types of materials and its characteristics used in the industry level which will help the students to work in comfortably in industries. | 2018-2019 |
| 539 | Engineering Thermodynamics | 315MET02 | ME | Employability - Concepts of Engineering Thermodynamics and its applications will enable the students to perform better as an engineer during their | 2016-2017 |

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|-------|---|-------------|-----------------------|--|----------------------|
| | | | | employability. | |
| 540 | Fluid Mechanics and Machinery | 315MET03 | ME | Employability - Concepts of fluid mechanics and applications to fluid machinery will enable the students to perform better as an engineer during their employability. | 2016-2017 |
| 541 | Manufacturing Technology-I | 315MET04 | ME | Employability - This course will enable the students to understand the manufacturing processes like casting, welding, machining with lathe, milling, etc. | 2016-2017 |
| 542 | Electrical Drives and Controls | 315EEE06 | ME | Skill Development - This course focuses on electrical components, wiring and basic concepts of house hold electrical appliances, etc. | 2016-2017 |
| 543 | Fluid Mechanics and Machinery Laboratory | 315MEP07 | ME | Skill Development- Students will gain skill in testing related to fluid flow. | 2016-2017 |
| 544 | Manufacturing Technology Laboratory -I | 315MEP08 | ME | Skill Development- This course will enhance the students with different manufacturing processes and develop their skills in the analysing of materials. | 2016-2017 |
| 545 | Electrical Drives and Controls Laboratory | 315EEP09 | ME | Skill Development - This course will give practical knowledge on electrical components, wiring and basic concepts of house hold electrical appliances, etc. | 2016-2017 |
| 546 | Statistics and Numerical Methods | 415MAT01 | ME | 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. | 2016-2017 |
| 547 | Engineering Materials and Metallurgy | 415MET02 | ME | Employability - This course will give more knowledge on different types of materials and its characteristics used in the industry level which will help the students to work in comfortably in industries. | 2016-2017 |
| 548 | Thermal Engineering | 415MET03 | ME | 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. | 2016-2017 |
| 549 | Strength of Materials | 415MET04 | ME | 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. | 2016-2017 |
| 550 | Manufacturing Technology-II | 415MET05 | ME | Entrepreneurship - Students will know about the fundamentals of metal cutting, special purpose machines used in industrial applications. | 2016-2017 |
| 551 | Machine Drawing | 415MET06 | ME | Skill Development - This course focus on concepts of machine drawing and to design machine parts based on industry needs. | 2016-2017 |
| 552 | Thermal Engineering Laboratory-I | 415MEP07 | ME | Skill Development - Students will be familiar on various thermodynamic concepts and principles, heat balance test, energy balance test. | 2016-2017 |
| 553 | Material Testing and Metallurgy | 415MEP08 | ME | Skill Development - Students will have more skills in testing of materials under | 2016-2017 |

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|-------|--|-------------|-----------------------|--|----------------------|
| | Laboratory | | | untreated and heat treated conditions and various NDT methods. | |
| 554 | Manufacturing Technology Laboratory-II | 415MEP09 | ME | Skill Development - This course will give more practical knowledge on different machining operations on shaper, lathe, milling, drilling and slotting. | 2016-2017 |
| 555 | Metrology and Instrumentation | 515MET01 | ME | Employability - This course focus on measurement of mechanical parameter by using different instrument and devices in practical applications. | 2017-2018 |
| 556 | Heat and Mass Transfer | 515MET02 | ME | Skill Development - This course will enhance the students about the basic concepts of heat transfer modes, mass transfer and its applications. | 2017-2018 |
| 557 | Kinematics of Machinery | 515MET03 | ME | 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. | 2017-2018 |
| 558 | Design of Machine Elements | 515MET04 | ME | Employability - This course will enhance with designing various components considering strength and functional requirement which is necessary for industry oriented. | 2017-2018 |
| 559 | Applied Hydraulics and Pneumatics | 515MET05 | ME | Skill Development - This course is focus on designing circuits based on hydraulic and pneumatic components as per the industrial applications. | 2017-2018 |
| 560 | Advanced Manufacturing Processes | 515MEE06 | ME | Employability - Students will have an ability to work with different manufacturing processes used in industries. | 2017-2018 |
| 561 | Metrology and Instrumentation Laboratory | 515MEP07 | ME | Skill Development - This course will give more practical knowledge on measuring components based on linear and angular measurement, calibration of various measuring devices | 2017-2018 |
| 562 | Thermal Engineering Laboratory-II | 515MEP08 | ME | Skill Development - This course will enhance the students to conduct performance test on various refrigeration systems. | 2017-2018 |
| 563 | Computer Aided Machine Drawing | 515MEP09 | ME | Skill Development - This course focus on concepts of machine drawing and to design machine parts using modelling software based on industry needs. | 2017-2018 |
| 564 | Dynamics of Machinery | 615MET01 | ME | 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. | 2017-2018 |
| 565 | Gas Dynamics and Jet Propulsion | 615MET02 | ME | Skill Development - This course will give more knowledge on shock waves and its effects on flow and perform calculation for rocket propulsion. | 2017-2018 |
| 566 | Design of Transmission Systems | 615MET03 | ME | Employability - This course will focus to design various types of gears using design knowledge which will suit for practical applications. | 2017-2018 |
| 567 | CAD/CAM/CIM | 615MET04 | ME | Skill Development - Students will be able to use skills in integrating manufacturing processes with the help of computer. | 2017-2018 |
| 568 | Principles of Management and | 615MEE03 | ME | Entrepreneurship - This course focus on how to start an organization by knowing | 2017-2018 |

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|-------|--|-------------|-----------------------|---|----------------------|
| | Business Concepts | | | the concepts of marketing and various business activities. | |
| 569 | Additive Manufacturing | 615MEE09 | ME | Employability - By knowing different rapid prototyping techniques, students can adhere to industry environment easily. | 2017-2018 |
| 570 | Non Destructive Testing and Materials | 615MEE12 | ME | Employability - This course will enhance the students to know more about the NDT techniques for flaw detection in different materials used in industry. | 2017-2018 |
| 571 | Dynamics Laboratory | 615MEP07 | ME | Skill Development - This course will give more practical knowledge to calculate mass moment of inertia of body experimentally. | 2017-2018 |
| 572 | CAM Laboratory | 615MEP08 | ME | Skill Development - The students will acquire practical knowledge about the fundamentals of numerical control machines and its controlling techniques. | 2017-2018 |
| 573 | Mechatronics and Robotics | 715MET01 | ME | Employability - This course enhance with various types of sensors and transducers, types of grippers used for automation in industry. | 2018-2019 |
| 574 | Power Plant and Energy Engineering | 715MET03 | ME | Employability - This course will enhance the students to know about the various components, operations and applications of different types of power plants to work with that. | 2018-2019 |
| 575 | Composite Materials | 715MET04 | ME | Employability - This course will be used to understand and analyse the composite material properties and enhance the applications of new materials for sustainability. | 2018-2019 |
| 576 | Process Planning and Cost Estimation | 715MEE01 | ME | Entrepreneurship - This course will give more knowledge on step by step procedures in the cost estimation of any product. | 2018-2019 |
| 577 | Power Plant Instrumentation | 715EIO01 | ME | Employability - This course will enhance the students to know about the various components, operations and applications of different types of power plants to work with that. | 2018-2019 |
| 578 | Automotive Instrumentation and Control | 715EIO02 | ME | Employability - This course will give the students more focus on employability in the field of automobile engineering. | 2018-2019 |
| 579 | Internship & Technical Seminar | 715MEP07 | ME | Skill Development - This course will give practical exposure and learn about various activities happening in the industries. | 2018-2019 |
| 580 | Mechatronics Laboratory | 715MEP08 | ME | Skill Development - This course focus on designing components based on hydraulic and pneumatic systems for industrial automation. | 2018-2019 |
| 581 | CAE Laboratory | 715MEP09 | ME | Skill Development - This course will help the students to solve problems related to FEA techniques by using softwares like ANSYS, IDEAS, etc. | 2018-2019 |
| 582 | Design and Fabrication Project | 715MEP10 | ME | 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. | 2018-2019 |

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|-------|--|-------------|-----------------------|--|----------------------|
| 583 | Automobile Engineering | 815MET01 | ME | Employability - This course focus on engine auxiliary and emission system, transmission system, steering, suspension and braking system which will be useful in automotive industries. | 2018-2019 |
| 584 | Industrial Safety and Hazard Managements | 815MEE04 | ME | Entrepreneurship - This course focus on safety measures to be maintained in the industry. | 2018-2019 |
| 585 | Total Quality Management | 815MEE09 | ME | Employability - This course focus on TQM principles, tools and Philosophies which is used in industries through out the world. | 2018-2019 |
| 586 | Entrepreneurship and E-Business | 815MEE14 | ME | Entrepreneurship - This course focus on gaining the knowledge in the field of entrepreneur, entrepreneurship and management of resources. | 2018-2019 |
| 587 | Project Work | 815MEP04 | ME | 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. | 2018-2019 |
| 588 | 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 |
| 589 | 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 objectives Skill Development- This Course help develop managers/executives for better performance on their present job | 2018-2019 |
| 590 | 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 |
| 591 | 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 |

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|-------|-----------------------------------|-------------|-----------------------|---|----------------------|
| 592 | 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 relationships Skill Development- This Course helps in bring a change in the values, norms, attitudes, perception, and behaviour of people | 2018-2019 |
| 593 | 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 |
| 594 | 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 |
| 595 | 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 |
| 596 | 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 |
| 597 | Optimization Techniques | 218BAT07 | MBA | Employability-This Course helps for analysts write memos, reports, and other documents explaining their findings and recommendations Skill Development-This Course helps in developing and applying advanced analytical methods to improve decision-making | 2018-2019 |
| 598 | 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 | 2018-2019 |

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|-------|--------------------------------------|-------------|-----------------------|--|----------------------|
| | | | | 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 | |
| 599 | 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 |
| 600 | 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 |
| 601 | Operations Management | 218BAT11 | MBA | Employability-This Course helps in a business organisation because it helps effectively manage, control and supervise goods, services and people Skill Development-This Course helps by learn to support company strategies that enhance efficiency in the process successfully | 2018-2019 |
| 602 | 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 |
| 603 | 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 | 2018-2019 |

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|-------|---|-------------|-----------------------|---|----------------------|
| | | | | growth Skill Development-This Course helps in providing data analysis for descriptive and bivariate statistics, numeral outcome predictions and predictions for identifying groups | |
| 604 | 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 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 | 2018-2019 |
| 605 | 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 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 | 2019-2020 |
| 606 | 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 mindset | 2019-2020 |
| 607 | Industrial Relations and Labor 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 |
| 608 | 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 | 2019-2020 |

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|-------|--|-------------|-----------------------|--|----------------------|
| | | | | 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 | |
| 609 | 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 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 | 2019-2020 |
| 610 | 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 |
| 611 | 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 |
| 612 | 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 |
| 613 | Strategic Brand Management | 318BAM01 | MBA | Employability-This Course help to support in getting or improving brand recognition, boosting revenue, and achieving long-term business goals Skill Development-This Course helps in understanding the market place to find where the brand can fit in and resonate. Defining the brand positioning and thinking strategically about a brand's functional and emotional benefits. Performing competitor analysis to gain a strategic market advantage | 2019-2020 |
| 614 | Retail Management | 318BAM02 | MBA | Employability-This Course helps in developing as a store manager, retail managers, retail buyers, retail designers, visual merchandisers, merchandise | 2019-2020 |

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|-------|-----------------------------------|-------------|-----------------------|---|----------------------|
| | | | | planning and product developers Skill Development-This Course helps for specific set of skills that enable retail managers to supervise sales operations, manage a sales team, provide excellent customer service and sell products to consumers | |
| 615 | Services Marketing | 318BAM03 | MBA | Employability-This Course helps in the form of marketing businesses that provide a service to their customers use to increase brand awareness and sales Skill Development-This Course helps to know how great customer service leads to better customer loyalty, higher revenue, and lower costs | 2019-2020 |
| 616 | 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 |
| 617 | 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 Skill Development-This Course helps to maintain business satisfaction and confidence in IT through effective and efficient delivery support of agreed services | 2019-2020 |
| 618 | 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 |
| 619 | 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 |
| 620 | 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 | 2019-2020 |

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|-------|---|-------------|-----------------------|---|----------------------|
| | | | | successfully Skill Development- This course helps to planning, organizing, leading, and controlling, managers must use a wide variety of skills | |
| 621 | 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 |
| 622 | Introduction to Unix | 118CAE09 | MCA | Skill Development- Establish knowledge in Unix platform | 2018-2019 |
| 623 | Unix Lab | 118CAL05 | MCA | Skill Development- Establish knowledge in Unix platform | 2018-2019 |
| 624 | Internet Programming | 218CAT02 | MCA | Skill Development- Extended knowledge in Internet with to develop various applications | 2018-2019 |
| 625 | Object Oriented Programming and Data Structures | 218CAT03 | MCA | Skill Development - Explore the Programming based on Object Oriented with Data Structure- How and where the data stroed. | 2018-2019 |
| 626 | Internet Programming Lab | 218CAP06 | MCA | Skill Development-Lab Exercise in extended knowledge in Internet with to develop various applications | 2018-2019 |
| 627 | Management Information System | 218CAE02 | MCA | Entrepreneurship- Understand and organize the Business World with management information | 2018-2019 |
| 628 | Datastructure Lab using C++ | 218CAL02 | MCA | Skill Development- Program with Data structure to represent different types using c++ | 2018-2019 |
| 629 | Advanced Java Progammng | 315CAT01 | MCA | Skill Development- Java Programming with J2EE and J2ME Concept implemented to develop an applications | 2016-2017 |
| 630 | C# and Dot Net Programming | 315CAT03 | MCA | Skill Development- Dot Net Programming with CLR Concept along with console, window and web based applications | 2016-2017 |
| 631 | Advanced Java Progammng Lab | 315CAP06 | MCA | Skill Development- Java Programming Lab exercise with J2EE and J2ME Concept implemented to develop an applications | 2016-2017 |
| 632 | Advanced database Management Systems | 315CAE03 | MCA | Skill Development- Database with advanced concept using recent tools for AI and ML based applications | 2016-2017 |
| 633 | Human Resource Mangement | 315CAE07 | MCA | Entrepreneurship - Management in terms of company policy and human policy | 2016-2017 |
| 634 | C# and Dot Net Programming Lab | 315CAL01 | MCA | Skill Development- Dot Net Programming Lab Exercise with CLR Concept along with console, window and web based applications | 2016-2017 |
| 635 | Web Programming | 415CAT01 | MCA | Skill Development - Programming based on PHP with MySql to develop an web based applications | 2016-2017 |

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|-------|---|-------------|-----------------------|--|----------------------|
| 636 | Mobile Computing | 415CAT03 | MCA | Skill Development - A Study of GPS/ GSM Architecture related with Mobile Computing | 2016-2017 |
| 637 | Web Programming Lab | 415CAP06 | MCA | Skill Development - Program based on PHP with MySql to develop an web based applications along with third party. | 2016-2017 |
| 638 | Data Warehousing and Data Mining | 415CAE01 | MCA | Skill Development - Detailed process of Mining and Warehouse related to various applications in the real world scenario. | 2016-2017 |
| 639 | Professional Communications | 415CAE08 | MCA | Entrepreneurship -Communications Skills Which leads to professional for their Development of business. | 2016-2017 |
| 640 | XML and Web Services Lab | 415CAL01 | MCA | Skill Development- A Designing skills based on the programmer friendly described in XML with Various Web Services. | 2016-2017 |
| 641 | Executive Communication Lab | 415CAL05 | MCA | Employability- Presentation focused on Seminar, develop of communication skills for the corporate world. | 2016-2017 |
| 642 | Internet of Things | 515CAT01 | MCA | Skill Development- A Physical design to interact a device with internet application explored the embeded system. | 2017-2018 |
| 643 | Mobile Application Development | 515CAT02 | MCA | Skill Development- Analytical and Technical Skills were developed in the mobile applications | 2017-2018 |
| 644 | Big Data Management | 515CAT03 | MCA | Skill Development- Semantic skill with data representation focused on Volume, Velocity and variety. | 2017-2018 |
| 645 | Mini Project | 515CAP06 | MCA | Employability- Various Application designed in house to sustain the availability of the corporate world. | 2017-2018 |
| 646 | Open Source Technologies | 515CAE02 | MCA | Skill Development- Programming Skills with open source were developed to attain the requirements of IT Sector | 2017-2018 |
| 647 | Digital MarktingManegment | 515CAE09 | MCA | Entrepreneurship - Marketing strategies in the digital world to develop the business in Local / National / International Level | 2017-2018 |
| 648 | Mobile Application Development Lab | 515CAL01 | MCA | Skill Development- Exercise based Analytical and Technical Skills were developed in the mobile applications | 2017-2018 |
| 649 | Open Source Technologies Lab | 515CAL02 | MCA | Skill Development- Program Skills with open source were developed to attain the requirements of IT Sector | 2017-2018 |
| 650 | Project Work | 615CAP01 | MCA | Employability- Various Application designedto sustain the availability of the corporate world. | 2017-2018 |
| 651 | Advanced Mathematics for Computing | 118MCT01 | M.E CSE | Skill Development- this course helps students in boosting their calculating ability | 2018-2019 |
| 652 | Advanced Data Structures and Algorithms | 118MCT02 | M.E CSE | Employability -Various algorithm design strategies helps to develop efficient algorithms | 2018-2019 |



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|-------|---|-------------|-----------------------|--|----------------------|
| 653 | Advanced Computer Architecture | 118MCT03 | M.E CSE | Skill Development- this course indulge in learning in depth of the computer architecture | 2018-2019 |
| 654 | Network Protocols | 118MCT04 | M.E CSE | Skill Development- this course helps in understanding different network protocols | 2018-2019 |
| 655 | Advanced Software Engineering | 118MCT05 | M.E CSE | Skill Development- this course provides knowledge about managing software tools | 2018-2019 |
| 656 | 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 |
| 657 | Network Simulation Laboratory | 118MCP08 | M.E CSE | Skill Development- this course helps in the implementation of programming of softwares using the analysed metadata | 2018-2019 |
| 658 | Artificial Intelligence | 118MCE04 | M.E CSE | Skill Development- this course provides the knowledge of understanding and developing an artificial intelligence | 2018-2019 |
| 659 | 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 |
| 660 | Security in Computing | 218MCT02 | M.E CSE | Skill Development-this course helps in calculating the performing of security in systems | 2018-2019 |
| 661 | 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 |
| 662 | Internet of Things | 218MCT04 | M.E CSE | Employability - Learning various IoT platforms to build smart applications | 2018-2019 |
| 663 | Operating System Internals | 218MCT05 | M.E CSE | Employability - this course helps students to working with various kinds of different operating systems | 2018-2019 |
| 664 | 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 |
| 665 | 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 metadata handling | 2018-2019 |
| 666 | Social Network Mining and Analysis | 218MCE04 | M.E CSE | Skill Development- students involve in working with social media data and analysing the different updates of technologies that taking place up to date | 2018-2019 |
| 667 | Information Security | 315MCT01 | M.E CSE | Skill Development- this course helps to prevent data breach and secure data | 2016-2017 |
| 668 | Research Methodology | 315MCE01 | M.E CSE | Skill Development- this course helps in enhancing the research methodologies | 2016-2017 |
| 669 | Information Retrieval | 315MCE09 | M.E CSE | Skill Development- this course gives the knowledge of retrieving of lost or damaged information | 2016-2017 |
| 670 | Project Work- Phase - I | 315MCP01 | M.E CSE | Skill Development- in this phase, students are organised to gather the required data for implementing the project | 2016-2017 |

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| 671 | Project Work- Phase - II | 415MCP01 | M.E CSE | 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 | 2016-2017 |
| 672 | Applied Mathematics | 118COT01 | M.E CSE | Skill Development-This course will help the students to apply the mathematics concept to solve the complex problem. | 2018-2019 |
| 673 | 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 |
| 674 | Modern Digital Communication Techniques | 118COT03 | M.E CS | Skill Development-Gives the ability to design various digital communication modules in communication industry | 2018-2019 |
| 675 | 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 |
| 676 | Advanced Radiation Systems | 118COT05 | M.E CS | Skill Development-Gives the ability to design various radiation effects in communication industry | 2018-2019 |
| 677 | 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 |
| 678 | Advanced Satellite Based Systems | 118COE06 | M.E CS | Employability - Able to design and test satellite communication protocols in communication industry | 2018-2019 |
| 679 | Software Radio Architecture | 218COT01 | M.E CS | Skill Development-Design SDR for a specific application | 2018-2019 |
| 680 | 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 |
| 681 | Multimedia Compression Techniques | 218COT03 | M.E CS | Employability - Able to design and develop data compression algorithms in data processing applications | 2018-2019 |
| 682 | Communication Systems Laboratory - II | 218COP01 | M.E CS | Skill Development-Gives the ability to design various analog digital communication modules in communication industry | 2018-2019 |
| 683 | Network Routing Algorithms | 218COE07 | M.E CS | Employability- Provides knowledge in Networks Routing Protocols, hence student to get employment in core industry | 2018-2019 |
| 684 | DSP Processor Architecture and Programming | 218COE14 | M.E CS | Employability-Implement the different processor for domestic and industrial applications | 2018-2019 |
| 685 | Cognitive Radio | 218COE17 | M.E CS | Employability-Able to design the wireless networks based on the cognitive radios | 2018-2019 |
| 686 | Project Work (Phase – I) | 315COP01 | M.E CS | Employability/Entrepreneurship/Skill Development-Develops the research skill on product Development | 2016-2017 |
| 687 | Technical Seminar | 315COP02 | M.E CS | Employability - This course will enhance the students on technical paper writing and publication techniques. | 2016-2017 |

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|-------|---|-------------|-----------------------|---|----------------------|
| 688 | Embedded Systems for Communication | 315COE01 | M.E CS | Employability - Gives the ability to design various embedded modules in communication industry . | 2016-2017 |
| 689 | Communication Network Security | 315COE03 | M.E CS | Employability- This course gives the ability to design and work on network layer security protocols | 2016-2017 |
| 690 | High Speed Switching Architecture | 315COE04 | M.E CS | Employability- This course gives the ability to design and work on IP layer protocols | 2016-2017 |
| 691 | Project Work (Phase – II) | 415COP01 | M.E CS | Employability/Entrepreneurship/Skill Development-Develops the research skill on product Development | 2016-2017 |
| 692 | Advanced Numerical Methods | 118EDT01 | M.E ED | Skill Development - This course focus on solving numerical problems based on the boundary conditions to find the appropriate solution. | 2018-2019 |
| 693 | Concepts of Engineering Design | 118EDT02 | M.E ED | Employability - This course enhance the students to familiar with design process, selection of materials and role of environmental issues in design. | 2018-2019 |
| 694 | Computer Application in Design | 118EDT03 | M.E ED | Skill Development - This course focus on application of computer graphics in designing based on geometrical modeling and reverse engineering techniques. | 2018-2019 |
| 695 | Finite Element Analysis | 118EDT04 | M.E ED | Employability - This course enhance the students to solve dynamic analysis problems in the field of thermal and fluid flow using FEA techniques. | 2018-2019 |
| 696 | Optimization Techniques in Design | 118EDT05 | M.E ED | Employability - This course will give more knowledge on optimization techniques and its application on various industries. | 2018-2019 |
| 697 | Additive Manufacturing | 118EDE02 | M.E ED | Employability - This course emphasis on producing different types of components in a rapid manner using rapid prototyping techniques. | 2018-2019 |
| 698 | CAE Laboratory-I | 118EDP07 | M.E ED | Skill Development - This course emphasis on analysis of different structures with the help of software such ANSYS, NASTRAN, etc. | 2018-2019 |
| 699 | Tribology in Design | 218EDT01 | M.E ED | Employability - This course will focus on design consideration, friction, wear and lubrication which is required for industry oriented activities. | 2018-2019 |
| 700 | Vibration Analysis and Control | 218EDT02 | M.E ED | Employability - Students will know more about the principles of vibration measurement devices used in industry to reduce the effect of vibrations in machinery. | 2018-2019 |
| 701 | Integrated Mechanical Design | 218EDT03 | M.E ED | Skill Development - This course emphasis on designing different machine elements such as shaft, gear boxes, brakes,etc. | 2018-2019 |
| 702 | Mechanisms Design and Simulation | 218EDT04 | M.E ED | Employability - This course will enhance the students to develop innovative mechanisms for different applications. | 2018-2019 |
| 703 | Concepts of Design for Manufacture and Assembly | 218EDE03 | M.E ED | Employability - This course will give the knowledge about the process capability and tolerances based on form design. | 2018-2019 |
| 704 | Engineering Fracture Mechanics | 218EDE04 | M.E ED | Employability - This course enhance the students to know about properties of | 2018-2019 |

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|-------|--------------------------------------|-------------|-----------------------|---|----------------------|
| | | | | materials and to analyze the failure due to fatigue. | |
| 705 | CAE Laboratory-II | 218EDP07 | M.E ED | Skill Development - This course give practical knowledge for solving complex problems with the help of analysing softwares. | 2018-2019 |
| 706 | Product Life Cycle Management | 315EDE03 | M.E ED | Skill Development - This course provides detailed concepts on product life cycle management along with latest industry views. | 2016-2017 |
| 707 | Design of Materials Handling Systems | 315EDE04 | M.E ED | Employability - This course focus on designing of material handling equipment such as hoist, conveyors, elevators, escalators, etc. applicable for different industries. | 2016-2017 |
| 708 | Industrial Robotics & Experts System | 315EDE08 | M.E ED | Employability - This course focus on various robot kinematic, motion and control with the help of robot programming. | 2016-2017 |
| 709 | Project Work (Phase – I) | 315EDP01 | M.E ED | 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. | 2016-2017 |
| 710 | Internship & Technical Seminar | 315EDP02 | M.E ED | Skill Development - This course will give practical exposure and learn about various activities happening in the industries. | 2016-2017 |
| 711 | Project Work (Phase-II) | 415EDP01 | M.E ED | 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. | 2016-2017 |
| 712 | 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 |
| 713 | 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 |
| 714 | 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 |
| 715 | Power System Estimation and Security | 118PST04 | M.E PSE | Employability- This course provides the knowledge about contingency analysis, marginal pricing analysis and security enhancement in power system which ensures the employment in power system. | 2018-2019 |
| 716 | 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 |
| 717 | 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 |

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| 718 | 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 |
| 719 | 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 |
| 720 | 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 |
| 721 | Advanced Power System Protection | 218PST03 | M.E PSE | Employability- This courses provides the knowledge about the techniques to protect the equipment and protection schemes in the substation which ensures the employment in the substation. | 2018-2019 |
| 722 | 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 |
| 723 | 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 |
| 724 | 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 |
| 725 | 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 |
| 726 | Seminar | 218PSP01 | M.E PSE | Skill Development- This course enhances the student's presentation skills in the power system. | 2018-2019 |
| 727 | EHV Power Transmission | 315PST01 | 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. | 2016-2017 |
| 728 | Power System Instrumentation | 315PSE06 | 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. | 2016-2017 |
| 729 | Project Work (Phase – I) | 315PSP01 | M.E PSE | Employability-This course helps the students to apply their Power Systems knowledge in real time applications. | 2016-2017 |
| 730 | Project Work (Phase - II) | 415PSP01 | M.E PSE | Employability-This course helps the students to apply their Power Systems knowledge in real time applications. | 2016-2017 |
| 731 | Applied Mathematics | 118SET01 | M.E SE | Employability - Students will develop skills in mathematics to solve problems | 2018-2019 |

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|-------|--|-------------|-----------------------|---|----------------------|
| 732 | 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 |
| 733 | 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 |
| 734 | 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 |
| 735 | Advanced Concrete Technology | 118SEE01 | M.E SE | Entrepreneurship - This course develops skills in concreting technology | 2018-2019 |
| 736 | 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 |
| 737 | 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 |
| 738 | 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 civil engineering structures using non-destructive testing methodologies | 2018-2019 |
| 739 | 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 |
| 740 | Stability of Structures | 218SEE05 | M.E SE | Employability - Skills in assessing the stability of structural elements is focused in this course | 2018-2019 |
| 741 | Advanced Structural Engineering 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 |
| 742 | Prefabricated Structures | 315SEE01 | M.E SE | Skill Development-Prefabricated structures is the innovative construction practice and useful for placements | 2016-2017 |
| 743 | Pre-stressed Concrete | 315SEE03 | M.E SE | Skill Development - This course enhances the skill set related to design of prestressed concrete structures. | 2016-2017 |
| 744 | Sub Structure Design | 315SEE07 | 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 | 2016-2017 |
| 745 | Practical Training (4 Weeks) | 315SEP01 | 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 | 2016-2017 |
| 746 | Seminar | 315SEP02 | M.E SE | Skill Development - The course enhances the technical presentation and documentation skills which aids in employability | 2016-2017 |
| 747 | Project Work (Phase- I) | 315SEP03 | M.E SE | Entrepreneurship, Skill Development - Students develop their skills in doing | 2016-2017 |

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|-------|---|-------------|-----------------------|---|----------------------|
| | | | | research or design and enhance their technical report writing and presentation | |
| 748 | Project Work (Phase - II) | 415SEP01 | M.E SE | Entrepreneurship, Skill Development - Students develop their skills in doing research or design and enhance their technical report writing and presentation | 2016-2017 |
| 749 | Applied Mathematics | 118VLT01 | M.E VLSI | Skill Development-This course will help the students to apply the mathematics concept to solve the complex problem. | 2018-2019 |
| 750 | VLSI Signal Processing | 118VLT02 | M.E VLSI | Employability/Skill Development- Provides a chance to work in VLSI semiconductor industry to design and fabricate integrated circuits | 2018-2019 |
| 751 | VLSI Design Techniques | 118VLT03 | M.E VLSI | Employability/Skill Development- Provides a chance to work in VLSI semiconductor industry to design and fabricate integrated circuits | 2018-2019 |
| 752 | ASIC and FPGA Design | 118VLT04 | M.E VLSI | Employability - Provides chance to work in ASIC VLSI industry to design and fabricate integrated circuits | 2018-2019 |
| 753 | Advanced Digital System Design | 118VLT05 | M.E VLSI | Employability- Provides knowledge in digital design and so the students get employed in product Development industry | 2018-2019 |
| 754 | VLSI Design Laboratory-I | 118VLP01 | M.E VLSI | Employability/Skill Development- Provides a chance to work in VLSI semiconductor industry to design and fabricate integrated circuits | 2018-2019 |
| 755 | Digital Image Processing | 118VLE06 | M.E VLSI | Skill Development-Students can learn image analysis techniques in the form of image segmentation and evaluate the methodologies for segmentation | 2018-2019 |
| 756 | Analysis and Design of Analog Integrated Circuits | 218VLT01 | M.E VLSI | Employability - Students can work in VLSI industry to design and fabricate integrated circuits | 2018-2019 |
| 757 | Testing of VLSI Circuits | 218VLT02 | M.E VLSI | Employability/Skill Development - Students can work in VLSI industry to design, test and fabricate integrated circuits | 2018-2019 |
| 758 | Low Power VLSI Design | 218VLT03 | M.E VLSI | Employability - Students can work in VLSI industry to design and fabricate integrated circuits | 2018-2019 |
| 759 | VLSI Design Laboratory-II | 218VLP01 | M.E VLSI | Skill Development - The students can design simple combinational and sequential logic using VHDL programming and analyze the combinational and sequential circuits using simulation tool. | 2018-2019 |
| 760 | Computer Architecture and Parallel Processing | 218VLE02 | M.E VLSI | Skill Development-this course enables the students to understand parallel processing, pipelining and scheduling concepts. | 2018-2019 |
| 761 | MEMS and NEMS | 218VLE10 | M.E VLSI | Employability - Able to design and fabricate various RF MEMS models in electronics industry | 2018-2019 |
| 762 | Physical Design of VLSI Circuits | 218VLE13 | M.E VLSI | Employability - Students can work in VLSI industry to design and fabricate integrated circuits | 2018-2019 |
| 763 | Project Work (Phase – I) | 315VLP01 | M.E VLSI | Employability/Entrepreneurship/Skill Development-Develops the research skill on product Development | 2016-2017 |

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|-------|--|-------------|-----------------------|---|----------------------|
| 764 | Technical Seminar | 315VLP02 | M.E VLSI | Employability - This course will enhance the students on technical paper writing and publication techniques. | 2016-2017 |
| 765 | System on Chip Design | 315VLE06 | M.E VLSI | Employability - Students can work in VLSI industry to design and fabricate integrated circuits | 2016-2017 |
| 766 | Real Time Embedded Systems | 315VLE11 | M.E VLSI | Skill Development- The course give insight on the concepts of automotive embedded systems and to impart skills in developing models. | 2016-2017 |
| 767 | VLSI for Wireless Communication | 315VLE12 | M.E VLSI | Employability/Skill Development- This course enhance the students in developing real time VLSI applications for wireless communication. | 2016-2017 |
| 768 | Project Work (Phase – II) | 415VLP01 | M.E VLSI | Employability/Entrepreneurship/Skill Development-Develops the research skill on product Development | 2016-2017 |
| 769 | Micro Electro Mechanical Systems | 315CDE01 | M.E CAD | Skill Development - This course will give more knowledge on micro mechanics, micro manufacturing, micro fabrication and its applications. | 2016-2017 |
| 770 | Product Life Cycle Management | 315CDE03 | M.E CAD | Skill Development - This course provides detailed concepts on product life cycle management along with latest industry views. | 2016-2017 |
| 771 | Design of Materials Handling Systems | 315CDE04 | M.E CAD | Employability - This course focus on designing of material handling equipment such as hoist, conveyors, elevators, escalators, etc. applicable for different industries. | 2016-2017 |
| 772 | Project Work (Phase – I) | 315CDP01 | M.E CAD | 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. | 2016-2017 |
| 773 | Internship & Technical Seminar | 315CDP02 | M.E CAD | Skill Development - This course will give practical exposure and learn about various activities happening in the industries. | 2016-2017 |
| 774 | Project Work (Phase-II) | 415CDP01 | M.E CAD | 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. | 2016-2017 |
| 775 | RS and GIS for Coastal Zone Management | 315RSE04 | M.TECH RS | Employability - they will be having a clear knowledge of coastal processes and resources. | 2016-2017 |
| 776 | RS and GIS Applications for Urban & Regional Planning and Rural Management | 315RSE07 | M.TECH RS | Skill Development - They will be skilled to effectively utilize RS and GIS Products for Urban and Rural Studies. | 2016-2017 |
| 777 | Service GIS | 315RSE11 | M.TECH RS | Employability - They will have a clear focus on GIS utilization in Business field. | 2016-2017 |
| 778 | Review of Journal Articles and Technical Report Presentation | 315RSP01 | M.TECH RS | Skill Development - to gain knowledge on journal articles and technical report presentation | 2016-2017 |

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| 779 | Integrated Surveying Laboratory | 315RSP02 | M.TECH RS | Entrepreneurship skill Development - To give exposure to the students on advanced surveying instruments and techniques. At the end of the course, students will be well-versed with the sophisticated and precise topographic and land surveys scale/cadastral mapping and map updation. | 2016-2017 |
| 780 | Project Phase - I | 315RSP03 | M.TECH RS | Entrepreneurship skill Development - To acquire knowledge about relative project title. | 2016-2017 |
| 781 | Project Phase - II | 415RSP01 | M.TECH RS | Entrepreneurship skill Development - To acquire knowledge about relative project title. | 2016-2017 |


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