



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 2019-20

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 Common	Skill Development - This course enable students study the nature and facts	2018-2019

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mail:principal@adhiyamaan.ac.in

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	Engineering			about 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 AE	318AET02	AE	Employability - Study thermodynamic principles, thermodynamics of state, basic thermodynamic relations,	2019-2020
15	Solid Mechanics	318AET04	AE	Employability - Understand the shear force and bending moment diagrams.	2019-2020
16	Production Technology	318AET05	AE	Entrepreneurship- Learn the operation of Lathe, UMM, UDM, and CNC machines	2019-2020
17	Elements of Aeronautics	318AEE06	AE	Employability -Understand the basic properties and principles behind the flight	2019-2020
18	Strength of Materials Laboratory	318AEP07	AE	Entrepreneurship - Students can able to determine the material hardness	2019-2020
19	Thermodynamics Laboratory	318AEP09	AE	Skill development - Study thermodynamic principles, thermodynamics of state, basic thermodynamic relations	2019-2020
20	Aerodynamics - I	418AET02	AE	Skill development - Evaluate and understand the Generation of Lift, wing theory and boundary layer concepts.	2019-2020
21	Aircraft Systems and Instruments	418AET03	AE	Skill development - Impart knowledge of the hydraulic and pneumatic systems components and types of instruments and its operation including navigational instruments to the students	2019-2020
22	Aircraft Structures - I	418AET04	AE	Skill development - Study the basics of aircraft structural parts functioning and different types of beams and columns	2019-2020
23	Propulsion-I	418AET05	AE	Employability - Establish fundamental approach and application of jet engine components	2019-2020
24	Metal Joining Process and NDT	418AEE06	AE	Entrepreneurship - The basics of Metal joining process	2019-2020
25	Aircraft Structures Laboratory I	418AEP07	AE	Skill development- Identify statically determinate and indeterminate structures.	2019-2020
26	Aerodynamics Laboratory	418AEP08	AE	Entrepreneurship - Understand the visualization in water flow channel	2019-2020
27	Production Technology Laboratory	418AEP09	AE	Skill development - Students can able to assemble the designs on workbench	2019-2020
28	Aircraft structures II	515AET01	AE	Employability - Evaluate and understand the Generation of Lift, wing theory and boundary layer concepts.	2017-2018
29	Aircraft Performance	515AET02	AE	Entrepreneurship - Impart knowledge of the hydraulic and pneumatic	2017-2018

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				systems components and types of instruments and its operation including navigational instruments to the students	
30	Aerodynamics II	515AET03	AE	Skill development - Study the basics of aircraft structural parts functioning and different types of beams and columns	2017-2018
31	Propulsion II	515AET04	AE	Skill development- Establish fundamental approach and application of jet engine components	2017-2018
32	Aircraft rules and regulation	515AEE05	AE	Skill development - The basics of Metal joining process	2017-2018
33	Aircraft control engineering	515AEE10	AE	Skill development - Identify statically determinate and indeterminate structures.	2017-2018
34	Aircraft Structures Laboratory II	515AEP07	AE	Employability - Understand the visualization in water flow channel	2017-2018
35	Propulsion Laboratory	515AEP08	AE	Employability - Understand the milling and its experiments	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 behavior 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

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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 applications in the field of Avionics.	2018-2019
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 Infographical 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 analyze the structural stability.	2018-2019
62	Architectural Drawing - II	218ART04	ARCH	Employability/ Skill Development - Enhance the skills of representation in	2018-2019

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				drawings techniques and develop the graphical language of a ARCH.	
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	318ART01	ARCH	Skill Development - Familiarize the student with the effects of transverse forces in beams and implement the knowledge in design projects.	2019-2020
68	Climate Responsive ARCH	318ART03	ARCH	Employability - Equip the students with scientific background required to design climate responsive buildings, and its climate responsive considerations in architectural design of building and built up areas.	2019-2020
69	Materials and Construction – III	318ART04	ARCH	Employability/ Skill Development - Gain knowledge on the application of concrete in different buildings and construction industry to support the design from foundation to structural details.	2019-2020
70	Computer Aided Design Studio	318ARP06	ARCH	Employability/ Entrepreneurship/ Skill Development - Enable students to develop their design with the help of computation and presentation software to get the output of 2D and 3D model construction.	2019-2020
71	Architectural Design - II	318ARP07	ARCH	Employability/ Entrepreneurship/ Skill Development - Students will have a holistic understanding of the built environment as a complex entity shaped by social, economic and geographical factors and design a small scale project different users.	2019-2020
72	Vernacular ARCH of India	318ARE03	ARCH	Skill Development - Development of significant contribution of vernacular ARCH of place in fabric of that city or region.	2019-2020
73	Theory of Design	318ARE04	ARCH	Skill Development - Equip the students with the knowledge in the effective design process and address the architectural design in the contemporary times to foresee in the future and to prepare innovative methodologies.	2019-2020
74	Analysis & Design of Structures – I	418ART01	ARCH	Employability - Strengthen knowledge about structural forces in buildings	2019-2020

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				and forces acting on vertical structural members and implement in design projects.	
75	Environmental Science and Services	418ART02	ARCH	Employability - Focus on the ecosystem, prevention & protection act and understand about the water treatment, collection & distribution and sewage disposals to implement in the community design projects.	2019-2020
76	Site Planning & Analysis	418ART03	ARCH	Employability/ Skill Development - Equip students with the landform analysis through map and field observation, need and role of Surveying and Levelling related to ARCH, and provide insight in preparing a site analysis & site features in planning roads and parking.	2019-2020
77	Materials and Construction – IV	418ART04	ARCH	Employability/ Skill Development - Focus on ferrous & non-ferrous metals, its application in different building components in current trends.	2019-2020
78	Architectural Design - III	418ARP05	ARCH	Employability/ Entrepreneurship/ Skill Development - Thrust will be on rural materials, construction techniques and design details and understand the physical, technical and visual characteristics of a settlements at micro level.	2019-2020
79	Energy Efficient ARCH	418ARE01	ARCH	Employability - Sensitize the students to space-specific contextual factors in designing a sustainable built environment and the need to use alternative sources of energy in view of the depleting resources and climate change.	2019-2020
80	Ergonomics in Building Design	418ARE03	ARCH	Skill Development - Expose the students to the requirements of designing for the human comfort in accordance with anthropometry and will have knowledge of ergonomics and its applications in design including designing for the physically challenged and the elderly.	2019-2020
81	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
82	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
83	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
84	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

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85	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
86	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
87	Structure and ARCH	515ARE02	ARCH	Employability -Integrate the contemporary structural design in the form making process of architectural design.	2017-2018
88	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
89	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
90	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
91	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
92	Sustainable Planning and ARCH	615ARE03	ARCH	Employability - Integrate Sustainable planning and building principles in architectural design.	2017-2018
93	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
94	Landscape ARCH 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
95	Human Settlement & Planning	715ART02	ARCH	Employability - To study the patterns of human settlements and their	2018-2019

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				relevance to ARCH through which the betterment of human living and welfare is achieved	
96	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 of various buildings.	2018-2019
97	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
98	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
99	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
100	Contemporary Process in ARCH	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
101	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
102	Internship Program	815ARP01	ARCH	Employability/ Entrepreneurship/ Skill Development - Provide adequate knowledge on the practice of ARCH profession and to learn the administration, managerial and professional skills, and demonstrate the same in the future architectural design study.	2018-2019
103	Urban Design	915ART01	ARCH	Employability - Expose the students the role of urban designer and gain knowledge of the urban spaces, designing of public areas.	2019-2020
104	Professional Practice & Ethics	915ART02	ARCH	Employability - Introduce aspects of professional conduct, duties and responsibilities and legal rights and procedures of the architectural profession.	2019-2020
105	Dissertation	915ARP03	ARCH	Skill Development - Introductory guide for students to conduct research on any aspect of the built environment.	2019-2020
106	Design Studio - VIII	915ARP04	ARCH	Employability/ Entrepreneurship/ Skill Development - Evolving sensitivity	2019-2020

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				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.	
107	Architectural Conservation	915ARE01	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.	2019-2020
108	Urban and Regional Planning	915ARE05	ARCH	Employability - Planning and managing infrastructure with different schemes and understand the concepts of planning at regional level, city level.	2019-2020
109	Construction Planning and Management	915ARE06	ARCH	Employability/ Entrepreneurship/ Skill Development - Provide an insight into management of buildings/construction projects involving management financial, machines and human resources.	2019-2020
110	Thesis	1015ARP01	ARCH	Employability/ Entrepreneurship/ Skill Development - Reflect the culmination of the development of the student's architectural skills and design attitude.	2019-2020
111	Biochemistry	318BTT02	BT	Skill Development - This course provides students to get skill in various metabolic pathways and its regulation	2019-2020
112	Cell Biology	318BTT03	BT	Skill Development - This course enables students skill in cellular signalling mechanisms, cellular regulations and cell culture techniques	2019-2020
113	Microbiology	318BTT04	BT	Skill Development- This course provides skills in microbial classification, identification and control	2019-2020
114	Instrumental Methods of Analysis	318BTT05	BT	Skill Development - This course provides basic skills on biological instrumentation	2019-2020
115	Basic Industrial BT	318BTT06	BT	Skill Development - This course provides skills on production of biologically important products such as antibiotics, vitamins, alcohol, etc.,	2019-2020
116	Biochemistry Lab	318BTP07	BT	Skill Development - This course provides basic skills on qualitative and quantitative identification of biomolecules	2019-2020
117	Cell Biology Lab	318BTP08	BT	Skill Development - This course provides basic skills on identification of cellular mechanisms	2019-2020
118	Microbiology Lab	318BTP09	BT	Skill Development - This course enables skills on microbial culture techniques and identification of microorganisms	2019-2020
119	Probability And Statistics	418PBT01	BT	Skill Development - This course enables skills on design of experiments and research methodologies	2019-2020
120	Molecular Biology	418BTT02	BT	Skill Development - This course provide skills on genomic and plasmid	2019-2020

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				DNA and RNA isolation, PCR based techniques and cloning and expression of vectors	
121	Stoichiometric And Process Calculations	418BTT03	BT	Skill Development - This course provide skills on stoichiometric calculations for various industrial operations	2019-2020
122	Fundamentals of Unit Operations	418BTT04	BT	Skill Development - This course provide skills on bioreactor and heat transfer operations	2019-2020
123	Enzyme Technology	418BTT05	BT	Skill Development - This course provide skills on industrially important enzyme production and activity determination	2019-2020
124	Environmental BT	418BTT06	BT	Skill Development - This course provide skills on environmental studies, bioremediation and waste management	2019-2020
125	Molecular Biology Lab	418BTP07	BT	Skill Development - This course provide skills on genomic and plasmid DNA and RNA isolation, PCR based techniques and cloning and expression of vectors	2019-2020
126	Instrumental Methods of Analysis Lab	418BTP08	BT	Skill Development - This course provides basic skills on biological instrumentation	2019-2020
127	Enzyme Technology Lab	418BTP09	BT	Skill Development - This course provide skills on industrially important enzyme production and activity determination	2019-2020
128	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
129	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
130	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
131	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
132	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	2017-2018

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				the basic skill sets like understanding the thermodynamics of the reaction, thermodynamics related to the microbial growth and the product formation	
133	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
134	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
135	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
136	Pollution Control In Bioprocess Industries	515CHO05	BT	Employability - 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
137	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
138	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
139	Health & Pharmaceutical BT	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
140	Plant BT	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
141	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
142	Plant BT 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
143	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

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144	Animal BT	715BTT01	BT	Skill Development - The course provides the students with the skill of animal disease, treatment, micromanipulation and transgenic animal technology	2018-2019
145	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
146	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
147	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
148	Employability Skills Lab	715BTP09	BT	Employability - The course provides entrepreneurship-based skills like managing a firm, small business and to start-ups	2018-2019
149	Analytical Techniques In BT 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
150	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
151	Genomics And Proteomics	715BTE10	BT	Skill Development - The course provides the students with the skill of genome and proteome analysis	2018-2019
152	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
153	Molecular Pathogenesis	815BTE03	BT	Employability - Offers the student with therapeutics of diseases	2018-2019
154	Medical Coding	815BTE09	BT	Employability - The course provides the students with the skill of basics of medical codes and transcripts	2018-2019
155	Project Work	815BTP05	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
156	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	2018-2019

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				skill like report preparation, and presentation	
157	Electric Circuits and Electron Devices	218EDT05	BME	Skill Development-Students can able to learn the basics in electric circuits and electron devices	2018-2019
158	Physics for Electronics Engineering	218BSE08	BME	Skill Development-This course helps to understand the essential principles of electrical properties of materials and semiconductors	2018-2019
159	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
160	Electrical Machines	318BMT02	BME	Skill Development-This course will help the students to understand the performance of AC and DC machines and transformers	2019-2020
161	Human Anatomy and Physiology	318BMT03	BME	Employability-Give knowledge about the different systems of the human body	2019-2020
162	Sensors and Measurements	318BMT04	BME	Skill Development-Get the knowledge about different types of sensors and measurement techniques	2019-2020
163	Medical Physics	318BMT05	BME	Skill Development-Gain the knowledge on light in medical applications and radiation effects on human body	2019-2020
164	Fundamentals of Data Structures In C	318BMT06	BME	Skill Development-Provides the knowledge on basic concepts of C programming.	2019-2020
165	Human Anatomy and Physiology Laboratory	318BMP07	BME	Employability-This subject will help the students to understand how the basic tests conducted in the clinical laboratory and provides opportunity to work in hospitals	2019-2020
166	Sensors and Measurements Laboratory	318BMP08	BME	Skill Development-Students will learn the characteristics of sensors	2019-2020
167	Fundamentals of Data Structures in C Laboratory	318BMP09	BME	Skill Development-This subject will help the students to understand how to write a C Programming.	2019-2020
168	Analog Integrated Circuits	418BMT02	BME	Skill Development- Learn the basic concepts of feedback amplifiers and current and voltage sources	2019-2020
169	Digital Logic Design	418BMT03	BME	Skill Development-Students can able to design sequential logic circuits.	2019-2020
170	Pathology and Microbiology	418BMT04	BME	Employability-This course will help the students to understand various diseases in humans caused by pathogens and microbes	2019-2020
171	Biochemistry	418BMT05	BME	Employability-Gain knowledge on biomolecules and its chemical reactions in the human body.	2019-2020
172	Signals, Systems and Analysis	418BMT06	BME	Skill Development-This course will help the students to understand the types of signals and systems and how to analyze the signals.	2019-2020
173	Integrated Circuits Laboratory	418BMP07	BME	Skill Development-This course will help the learn how to design filter	2019-2020

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				circuits, oscillators and wave form generators using op amp.	
174	Pathology and Microbiology Laboratory	418BMP08	BME	Employability-Students can able to estimate hematological parameters	2019-2020
175	Biochemistry Laboratory	418BMP09	BME	Employability-Students can get practical knowledge on analysis of carbohydrates, lipids and proteins qualitatively and quantitatively	2019-2020
176	Microprocessor and Microcontroller	515ECT03	BME	Skill Development-This course enables students to understand the ARCH and assembly language programming of microprocessors and microcontrollers	2017-2018
177	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
178	Analog & Digital Communication	515BMT05	BME	Skill Development-Provides the knowledge different modulation and demodulation techniques used in signal communication	2017-2018
179	Biomedical Instrumentation Lab	515BMP07	BME	Employability-Provides practical knowledge to handle biomedical equipments used for in medical applications and helps to get job in healthcare sector	2017-2018
180	Digital Signal Processing Lab	515BMP09	BME	Skill Development-Students can design and analyse various filter techniques using MATLAB.	2017-2018
181	Diagnostic Equipment	615BMT01	BME	Employability-Helps to understand the diagnosis of various diseases using diagnostic equipment	2017-2018
182	Therapeutic Equipment	615BMT02	BME	Employability-This course will help the students to understand different equipments used to treat the diseases of the patients.	2017-2018
183	Radiological Equipments	615BMT03	BME	Employability-Provides knowledge on how the radiations are used for diagnosis and treatment of diseases using radiological equipment	2017-2018
184	Medical Embedded Systems	615BMT04	BME	Skill Development-This course will help the ARCH and programming of ARM processor and outline the concepts of embedded systems	2017-2018
185	Biomaterials & Artificial Organs	615BMT05	BME	Employability-Student can learn the different biomaterials used in the body for the implantable devices.	2017-2018
186	Medical Safety & Quality Assurance	615BME06	BME	Employability-Enable students to understand medical safety standards used for the medical equipment	2017-2018
187	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
188	Medical Optics	715BMT01	BME	Skill Development-This course will help the students to understand the optical principles used in different medical applications	2018-2019

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189	Biomechanics	715BMT03	BME	Employability-Student can able to apply principles of mechanics that is used to analyse human movement	2018-2019
190	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
191	Medical Informatics	715BMT05	BME	Skill Development-Students can able to analyse the role of informatics in engineering and medicine	2018-2019
192	Rehabilitation Engineering	715BME06	BME	Employability-Students can get knowledge about rehabilitation and orthotic devices in Rehabilitation Engineering	2018-2019
193	Digital Image Processing Lab	715BMP07	BME	Skill Development-Provides practical knowledge on the medical image processing using MATLAB	2018-2019
194	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
195	Hospital Engineering & Management	815BMT01	BME	Entrepreneurship-Enables students to understand fundamentals of hospital administration and management	2018-2019
196	Assist Devices	815BME04	BME	Employability-This course focuses on orthotic and prosthetic medical devices	2018-2019
197	Advanced Medical Instrumentation	815BME07	BME	Employability-This course will help the students to understand the various biomedical equipment used in the hospital.	2018-2019
198	Chemistry for Technologists	218BSE03	CH	Skill development- Suggest the applications of gas laws in real life situations, characteristics and properties of solutions	2018-2019
199	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
200	Organic Chemistry	318CHT02	CH	Skill development- Concepts related to the reaction mechanisms, rearrangements and synthesis of new compounds will develop their skills	2019-2020
201	Chemical Process Calculations	318CHT03	CH	Skill development/Employability-The knowledge of material and energy balance calculations on different Unit operations and Unit process will enhance their employability and skills	2019-2020
202	Instrumentation Methods And Analysis	318CHT04	CH	Employability- Understand the principles of various spectroscopic , chromatographic, and electro analysis techniques and analyse the quality of chemical products.	2019-2020
203	Materials Technology	318CHE04	CH	Skill development-Able to design the support column, beams, pipelines, storage tanks and reaction columns and also solve the problems related to beams, shafts and columns.	2019-2020

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204	Organic Chemistry Laboratory	318CHP07	CH	Employability- Analyse the nature of organic compound, characteristics of various functional groups	2019-2020
205	Technical Analysis Laboratory	318CHP08	CH	Employability-Analyse the properties of various chemical products will enhance the employability in quality analysis.	2019-2020
206	CH Fluid Mechanics	418CHT04	CH	Skill development-Knowledge on types of fluid flow and also on the discharge measurement by using different equipment at different conditions, Fluid properties, their characteristics while static and during flow through ducts, pipes and porous medium, types of forces, losses and several machineries to transport the fluid and their performance.	2019-2020
207	Mechanical Operations	418CHT05	CH	Skill development-Decide the usage of equipment for industrial application with respect to size reduction, equipment to screen ,different blends and mixing techniques ,various filtration equipment's and thickeners	2019-2020
208	Renewable Energy Technologies	418CHE03	CH	Entrepreneurship-Recognize the renewable energy sources with their situation and exploration ,energy conversion systems in wind and geothermal energy, solar and ocean energy harnessing,biomass and biogas conversion and its application,Fuel and MHD in industries	2019-2020
209	Fluid Mechanics Laboratory	418CHP07	CH	Skill development- Estimate the coefficient of discharge for flow through open and closed channels, show relationship between Reynolds number and friction factor,fluid flow in circular pipes, orifice and venture meters, coefficient of rectangular and triangular notches,characteristic studies of submersible and centrifugal pump	2019-2020
210	Physical Chemistry Laboratory	418CHP08	CH	Skill development-Understand the principles, properties and characteristics of solvents and mixtures,molecular weight of solute using different methods	2019-2020
211	Mechanical Operations Laboratory	418CHP09	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 equipments such as cycloneseparator, pressure and vacuum filters,determine thickener area	2019-2020
212	CH 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 equillibria 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
213	Chemical Process Industries	515CHT02	CH	Skill development- Concepts on various aspects of process industries and	2017-2018

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				understands the methods of production of different chemicals, plant and equipment design	
214	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
215	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 Cooling towers, dryers and crystallizers	2017-2018
216	Oil and Natural Gas Engineering	515CHE04	CH	Skill development-Able to learn properties and composition of crude oil and production of natural gas,properties processing of natural gas,environmental aspects of gas processing	2017-2018
217	BT and its applications	515BTO05	CH	Skill development- Able to understand the basics of fermentation techniques, various industrially important biological products production	2017-2018
218	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
219	CH Computation Laboratory	515CHP08	CH	Skill development-Equipped with the software applications and the numerical solutions of CH problems,optimize the various factors using the computational techniques	2017-2018
220	Employability skills Laboratory	515CHP09	CH	Skill development-Articulate their views clearly and concisely with self-confidence and persuasiveness,prevailing practices of testing in the recruitment process by the corporates and the institutional selection processes,communicate the corporate and social requirements in an impressive written mode	2017-2018
221	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
222	Chemical Reaction Engineering	615CHT02	CH	Skill development-Apply the basic principles of reaction kinetics, reactor design and non ideality in reactors in process industries ,choose a suitable single or multiple reactor system,design a reactor ,non ideal flow reactors, concept of heterogeneous reactions	2017-2018
223	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

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224	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
225	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
226	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
227	Chemical Process Equipment Design and Drawing Laboratory - I	615CHP09	CH	Employability- Able to design and draw considerations of process equipment through performing required calculations for the process equipment design	2017-2018
228	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
229	CH 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
230	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
231	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
232	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
233	Industrial waste water Treatment	715CHE08	CH	Skill development- Decide on different treatment techniques physical,	2018-2019

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				chemical, and biological methods for the treatment of industrial waste water and finds a solution	
234	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
235	Chemical Process Equipment Design & Drawing Laboratory -II	715CHP08	CH	Employability- Design and draw heat and mass transfer equipments, various heads in chemical plants	2018-2019
236	Technical Seminar & Report Writing Laboratory	715CHP09	CH	Employability-Study and present a seminar on a topic of current relevance in CH or allied areas	2018-2019
237	Total Quality Management	815CHT01	CH	Entrepreneurship-Knowledge on quality, analysis techniques for quality costs, role of senior management, quality systems and need of quality systems.	2018-2019
238	Petroleum Refinery Engineering	815CHE02	CH	Skill development-Knowledge about various exploration techniques of petroleum with properties and specifications of various petroleum products, various separation processes, various conversion processes employed with safety and pollution aspect	2018-2019
239	Heterogeneous Catalysis	815CHE07	CH	Skill development- Design reactors for heterogeneous catalytic reactions, mechanisms and kinetic analysis by characterizing the catalyst	2018-2019
240	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
241	Project Work & Viva Voce	815CHP04	CH	Employability/ Entrepreneurship/ Skill development- Able to apply the concepts of CH to solve the existing real time industrial and societal issues	2018-2019
242	Physics for CE	218BSE05	CE	Employability - Content in the syllabus will help to Integrate the principles in the projects undertaken in field of CE	2018-2019
243	Mechanics of Solids	318CET02	CE	Employability-gain knowledge on stress, strain and material properties used in construction industry	2019-2020
244	Mechanics of Fluids	318CET03	CE	Employability-gain knowledge in behaviour and design of hydraulic structures	2019-2020
245	Construction Materials & Structural Geology	318CET04	CE	Entrepreneurship--gain knowledge in various building materials and construction techniques and geology of earth	2019-2020
246	Engineering Survey	318CET05	CE	Entrepreneurship/Skill Development-gain knowledge in various surveying techniques and equipments which enhances employment opportunities	2019-2020
247	Value Education Program	318CET06	CE	Employability- to understand engineering ethics and human values which is	2019-2020

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mail:principal@adhiyamaan.ac.in.

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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				important in career throughout	
248	Engineering Survey Laboratory	318CEP07	CE	Skill Development-gain knowledge in various surveying techniques and equipments which enhances employment opportunities	2019-2020
249	Applied Hydraulic Engineering	418CET03	CE	Employability- Concepts of fluid mechanics and applications to fluid machinery will enable the students to perform better as an engineer during their employability	2019-2020
250	Geotechnical Engineering	418CET04	CE	Employability-to understand, soil as an engineering material the load-deformation behaviour, through its index and engineering properties	2019-2020
251	3D Printing and Design	418CEE06	CE	Entrepreneurship/Skill Development-gain knowledge in 3D Printing techniques which enhances the skill of the student	2019-2020
252	Strength of Materials Laboratory	418CEP07	CE	Skill Development-gain knowledge in testing materials for strength	2019-2020
253	Hydraulic Engineering Laboratory	418CEP08	CE	Skill Development-gain knowledge on various hydraulic engineering problems like open channel flows and hydraulic machines	2019-2020
254	Concrete Technology	515CET01	CE	Employability- This course develops skills in concreting technology	2017-2018
255	Structural Analysis - I	515CET02	CE	Employability-gain basic knowledge on analysing structures	2017-2018
256	Design of RCC Structures	515CET03	CE	Skill Development-Design skill of RC members helps in design of safe and stable RC structures	2017-2018
257	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
258	Water Shed Management	515CEE04	CE	Employability - gain knowledge in modern techniques and manage storm water and flood	2017-2018
259	Geotechnical Engineering Laboratory	515CEP07	CE	Skill Development - knowledge on soil tests and investigations helps in CE projects	2017-2018
260	Public Health Engineering Laboratory	515CEP08	CE	Skill Development - gain knowledge on water testing and environmental pollutants	2017-2018
261	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
262	Structural Analysis - II	615CET01	CE	Employability-gain knowledge in analysis of structures to find design forces	2017-2018
263	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



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264	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
265	Transportation Engineering - II	615CET04	CE	Employability-gain skills to plan and design Railways , Airports and Harbour structures	2017-2018
266	Irrigation Engineering	615CET05	CE	Employability-design skills for irrigation structures enhance their placement opportunities in the Civil consultancy offices	2017-2018
267	Pre-fabricated Structures	615CEE02	CE	Entrepreneurship-Prefabricated structures is the innovative construction practice and useful for placements	2017-2018
268	Earthquake Resistant Structures	615CEE03	CE	Employability-knowledge on earthquake resistant structures wil enhance job opportunities in Large scale earthquake resistant projects	2017-2018
269	Design of PSC Structures	615CEE04	CE	Skill Development-Knowledge of prestressed concrete structures helpful in large span bridge and building construction projects	2017-2018
270	Smart Structures	615CEE05	CE	Employability-Work with various types of Sensors used in smart structures	2017-2018
271	Concrete and Highway Laboratory	615CEP07	CE	Skill Development-Find out the properties of cement, aggregate, bitumen, concrete.	2017-2018
272	Computer Aided Design - I	615CEP08	CE	Entrepreneurship/Skill Development-gain knowledge on software used for drafting and it helps in employment opportunities	2017-2018
273	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
274	Environmental Engineering Drawing	615CEP11	CE	Skill Development-gain knowledge on water testing and environmental pollutants	2017-2018
275	Steel Structural Drawing	615CEP12	CE	Entrepreneurship/Skill Development -gain knowledge on software used for drafting and it helps in employment opportunities	2017-2018
276	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
277	RCC Structural Drawing	615CEP14	CE	Skill Development-gain knowledge on software used for drafting and it helps in employment opportunities	2017-2018
278	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
279	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	2018-2019

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				and separation in road and other works.	
280	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
281	Construction Planning & Project Management	715CEE13	CE	Entrepreneurship-knowledge on Construction planning & scheduling helps in High profile construction companies	2018-2019
282	ARCH & 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
283	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
284	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
285	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
286	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
287	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
288	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
289	Database Management Systems Laboratory	318CSP08	CSE	Skill Development -course content helps to learn various DB design principles and techniques to build web application	2019-2020
290	OOPs and Data Structures Laboratory	318CSP09	CSE	Employability -Enhancing the problem solving Skills through the knowledge of data structures	2019-2020
291	Computer Networks	418CST05	CSE	Skill Development - this course helps in understanding different network protocols	2019-2020
292	Computer Networks Laboratory	418CSP09	CSE	Skill Development- helps to understand the simulation of networks	2019-2020
293	Probability and Queuing Theory	515PQT01	CSE	Skill Development- this course helps students in boosting their calculating ability	2017-2018
294	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	2017-2018

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				any projects.	
295	Modeling and Design	515CST03	CSE	Skill Development - students would indulge in testing software models and designs	2017-2018
296	Theory of Computation	515CST04	CSE	Skill Development- it helps students to find how efficiently problems can be solved on a model of computation, using an algorithm	2017-2018
297	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
298	Modeling and Design Laboratory	515CSP08	CSE	Skill Development - students will implement software models and designs at labs	2017-2018
299	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
300	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
301	Computer Graphics and Multimedia Systems	515CIE08	CSE	Employability -Developing multimedia based applications	2017-2018
302	Advanced Java Programming	515CSE09	CSE	Skill Development- this course helps students in implementing their programming based knowledge with servlets and JSP	2017-2018
303	Agent Based Intelligent system	515CSE11	CSE	Entrepreneurship - This course enable students to learn more and better knowledge.	2017-2018
304	Mobile Computing	615CST01	CSE	Skill Development - Student will learn about modification of user program can be easily made and implemented as execution proceeds.	2017-2018
305	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
306	Web Programming	615CST04	CSE	Employability - this course helps students to design web based applications	2017-2018
307	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
308	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
309	Web Programming Laboratory	615CSP09	CSE	Skill Development- this course helps in performing software oriented products and handling them with required measures	2017-2018
310	Digital Signal Processing	515ECT02	CSE	Employability -Provide knowledge on basic concepts of signal and system, filter design analog and digital , hence students able to get jobs in design industry	2017-2018

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311	Statistics and Numerical Methods	615SNM04	CSE	Skill Development- this course helps students in boosting their calculating ability	2017-2018
312	Service Oriented ARCH	615CSE07	CSE	Skill Development- this course helps in performing software oriented products and handling them with required measures	2017-2018
313	Parallel and Distributed Computing	615CSE08	CSE	Skill Development - This course covers a broad range of topics related to parallel and distributed computing.	2017-2018
314	Soft Computing	615CSE09	CSE	Skill Development - Able to apply evolutionary algorithms in hybrid soft computing techniques	2017-2018
315	Pervasive Computing	615CSE10	CSE	Skill Development- this course helps students in performing pervasive computing	2017-2018
316	Mainframe Technologies	615CSE11	CSE	Skill Development- this course helps students to work with excel sheets	2017-2018
317	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
318	Data ware Housing and Data mining	715CIT02	CSE	Skill Development- this course helps to work with metadata and store them in a storage grid and perform metadata handling	2018-2019
319	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
320	Grid and Cloud Computing	715CST04	CSE	Skill Development and Employability - Foundations to emerging technology - Study of virtualization concepts and various Cloud Computing ARCH, Service and Delivery models	2018-2019
321	Grid and Cloud Computing Laboratory	715CSP07	CSE	Skill Development and Employability - Foundations to emerging technology - Study of virtualization concepts and various Cloud Computing ARCH, Service and Delivery models	2018-2019
322	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
323	Building Enterprise Application	715CSE02	CSE	Skill Development- this course helps students in building a working commercial application	2018-2019
324	Business Intelligence and its Applications	715CSE03	CSE	Entrepreneurship -this course helps students in working with business related applications	2018-2019
325	Information Storage Management	715CSE04	CSE	Skill Development- this course helps to prevent data breach and secure data	2018-2019
326	Multi core ARCH	715CSE05	CSE	Skill Development- this course helps to learn about the working of hardware systems	2018-2019
327	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

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328	Software Project Management	715CSE08	CSE	Skill Development - The students gets knowledge of the Innovation and Product Development process in the Business Context.	2018-2019
329	Information Retrieval Techniques	715CSE09	CSE	Skill Development- this course gives the knowledge of retrieving of lost or damaged information	2018-2019
330	Enterprise Resource Planning	715CSE10	CSE	Entrepreneurship - this course indulge students in working with software related projects	2018-2019
331	Visualization Techniques	715CSE11	CSE	Skill Development- this course helps the students to study about the data based on the metadata	2018-2019
332	System Modeling and Simulation	715CSE12	CSE	Skill Development - students would indulge in testing software models and designs	2018-2019
333	Adhoc and Sensor Network	815CSE03	CSE	Skill Development- this course provides the knowledge of simulating adhoc networks	2018-2019
334	High Performance Network	815CSE04	CSE	Employability - Students can develop and test high speed networks in communication industry	2018-2019
335	Software Quality and Testing	815CSE06	CSE	Entrepreneurship - Apply the concepts of nation income and understand the functions of bank and globalization	2018-2019
336	Knowledge Management	815CSE07	CSE	Skill Development- this course helps individuals in developing their enhancement of knowledge	2018-2019
337	Web Design and Management	815CSE08	CSE	Employability/Entrepreneurship - helps students to develop web based application	2018-2019
338	Cyber Forensics and Ethical Hacking	815CSE09	CSE	Skill Development-this course helps in calculating the performing of security in systems	2018-2019
339	Software Design and ARCH	815CSE10	CSE	Skill Development- this course provides knowledge about managing software tools	2018-2019
340	Physics for Electronics Engineering	218BSE08	ECE	Skill Development-This course gives knowledge about fundamental physics in electronics engineering	2018-2019
341	Signals and Systems	318ECT02	ECE	Skill Development-Able to test analog and digital signals and process the same in real time applications.	2019-2020
342	Analog Electronics - I	318ECT04	ECE	Employability-Provides knowledge in Integrated Circuits which avails the student employment in core industry	2019-2020
343	Digital Electronics	318ECT05	ECE	Employability-Students can design and test analog circuits such as amplifiers and in electronic system design	2019-2020
344	Fundamentals of Data Structures in C Laboratory	318ECP07	ECE	Employability/Skill Development-Students can develop programs for real time industry based applications	2019-2020



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345	Analog Electronics –I Laboratory	318ECP08	ECE	Employability-Provides knowledge in Integrated Circuits which avails the student employment in core industry	2019-2020
346	Digital Electronics Laboratory	318ECP09	ECE	Employability-Students can design and test analog circuits such as amplifiers and in electronic system design	2019-2020
347	Probability and Random Processes	418PRT01	ECE	Skill Development-Provides the fundamentals of probability logic and statistics in building analytics-based solutions.	2019-2020
348	Electrical Engineering and Instrumentation	418ECT02	ECE	Employability-Provides skill in Electrical Engineering and Instrumentation, hence student to get employment in core industry	2019-2020
349	Linear Integrated Circuits	418ECT03	ECE	Skill Development-Provide knowledge in usage of IC's, designing and developing theoretical device/circuit operation of digital circuits	2019-2020
350	Analog Electronics -II	418ECT04	ECE	Employability-Students can design and test analog circuits such as amplifiers and oscillators	2019-2020
351	Industrial Electronics	418ECE01	ECE	Entrepreneurship-This course provide an opportunity to develop industry need based applications	2019-2020
352	Consumer Electronics	418ECE02	ECE	Employability-This course provide an opportunity to develop consumer need based applications	2019-2020
353	Green Electronics	418ECE03	ECE	Employability-This course provide an opportunity to develop socio-environmental need based applications	2019-2020
354	Optoelectronic Devices	418ECE04	ECE	Employability-This course provide an opportunity to develop optoelectronic based applications	2019-2020
355	Electrical Engineering Laboratory	418ECP07	ECE	Employability-Provides skill in Electrical Engineering and Instrumentation, hence student to get employment in core industry	2019-2020
356	Linear Integrated Circuit Laboratory	418ECP08	ECE	Skill Development-Provide knowledge in usage of IC's, designing and developing theoretical device/circuit operation of digital circuits	2019-2020
357	Analog Electronics-II Laboratory	418ECP09	ECE	Employability-Students can design and test analog circuits such as amplifiers and oscillators	2019-2020
358	Communication Theory	515ECT01	ECE	Skill Development-This course helps students to Identify, prevent and troubleshoot industrial communications problems	2017-2018
359	Digital Signal Processing	515ECT02	ECE	Employability-Able to design analog and digital filters in signal processing	2017-2018
360	Microprocessors and Microcontrollers	515ECT03	ECE	Employability-Students can work in controller programming to control various real-time applications	2017-2018
361	Computer Communication and Networks	515ECT04	ECE	Employability-Students can design and analyse various computer network protocols for real-time applications	2017-2018
362	Control Systems	515ECT05	ECE	Employability -Provide knowledge on basic concepts of control systems to	2017-2018

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				model complex design to get employment in core industry	
363	Digital Signal Processing Laboratory	515ECP07	ECE	Employability-Able to design analog and digital filters in signal processing	2017-2018
364	Microprocessors and Microcontrollers Laboratory	515ECP08	ECE	Employability-Students can work in controller programming to control various real-time applications	2017-2018
365	Computer Networks Laboratory	515ECP09	ECE	Employability-Students can design and analyse various computer network protocols for real-time applications	2017-2018
366	Transmission Lines and Waveguides	615ECT01	ECE	Skill Development-Enables student to design various waveguide models in communication industry	2017-2018
367	VLSI Design	615ECT02	ECE	Employability/Skill Development- Provides a chance to work in VLSI semiconductor industry to design and fabricate integrated circuits	2017-2018
368	Digital Communication	615ECT03	ECE	Skill Development-Gives the ability to design various digital communication modules in tele-communication industry	2017-2018
369	Antenna and Wave Propagation	615ECT04	ECE	Skill Development-Gives the ability to design and analyse various antenna modules in communication industry	2017-2018
370	Employability Skills Laboratory	615ECP07	ECE	Employability/Skill development- Provides career by enhancing employability and industry need skills.	2017-2018
371	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
372	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
373	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
374	Advanced Digital Signal Processing	615ECE02	ECE	Skill Development-Provide knowledge on basic concepts of signal and system, filter design analog and digital to get jobs in core industry	2017-2018
375	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
376	Information Theory and Coding	615ECE04	ECE	Employability-Information coding techniques knowledge helps in abstract modelling and designing systems	2017-2018
377	RF System Design	715ECT01	ECE	Skill Development- Students can analyse and test RF Circuits in communication industry	2018-2019
378	Optical Communication	715ECT02	ECE	Employability/Skill Development- Gives the ability to design various optical communication modules in communication industry	2018-2019
379	Microwave Engineering	715ECT03	ECE	Employability/Skill Development- Gives the ability to design various	2018-2019

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				microwave communication modules in communication industry	
380	Embedded Systems	715ECT04	ECE	Employability/Entrepreneurship/Skill Development-Enables the student to learn various embedded system concepts	2018-2019
381	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
382	Electronic System Design Laboratory	715ECP08	ECE	Employability/Skill Development-students can design and test electronic circuits	2018-2019
383	Mini Project	715ECP09	ECE	Employability/Entrepreneurship/Skill Development-Students can develop various projects using recent technologies.	2018-2019
384	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
385	Principles of Management	715ECE02	ECE	Entrepreneurship/ Employability-This course help in managing and maintaining the aspects with respect to administration and productivity.	2018-2019
386	High Speed Networks	715ECE03	ECE	Employability - Students can develop and test high speed networks in communication industry	2018-2019
387	Telecommunication Switching Networks	715ECE09	ECE	Skill Development-Gives the ability to design various communication modules in communication industry	2018-2019
388	Wireless Communication	715ECE10	ECE	Skill Development-Enables students to design various wireless communication modules in communication industry	2018-2019
389	Advanced Microcontrollers	715ECE11	ECE	Employability-Students can work in controller programming to control various real-time applications	2018-2019
390	Disaster Mitigation and Management	815ECT01	ECE	Employability/Skill Development-Students can predict the disasters and suggest preventive measures	2018-2019
391	Cellular and Mobile Communication	815ECE01	ECE	Employability - Gives the ability to design various mobile communication modules in communication industry	2018-2019
392	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
393	ARM System ARCH and applications	815ECE03	ECE	Employability- Students can design real time applications based ARM processors	2018-2019
394	Radar and Navigational Aids	815ECE04	ECE	Skill Development-students learn about radar and navigational aids	2018-2019
395	ASIC Design	815ECE08	ECE	Employability - Provides chance to work in ASIC VLSI industry to design and fabricate integrated circuits	2018-2019
396	Satellite Communication	815ECE09	ECE	Employability - Gives the ability to design various communication modules	2018-2019

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mail:principal@adhiyamaan.ac.in.

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Adhiyamaan College of Engineering (Autonomous)
Dr.M.G.R. Nagar, HOSUR-635130



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S.No.	Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
				in communication industry	
397	Microwave Integrated Circuits Design	815ECE10	ECE	Employability - Provides an opportunity to design and analyse microwave systems in industry	2018-2019
398	Low Power VLSI Design	815ECE11	ECE	Employability - Students can work in VLSI industry to design and fabricate integrated circuits	2018-2019
399	Project Work	815ECP04	ECE	Employability/Entrepreneurship/Skill Development-Develops the research skill on product development	2018-2019
400	Electromagnetic Theory	318EET02	EEE	Employability- This course deals with the real time applications of electro magnetic circuits which enhances the employability skills of the students.	2019-2020
401	Network Analysis and Synthesis	318EET03	EEE	Skill Development- This course deals with design of filter etc so that students develop their designing skills	2019-2020
402	Linear Integrated Circuits and Applications	318EET04	EEE	Entrepreneurship- This course gives the knowledge about the operational amplifiers and other Ics, hence student can develop them in real time.	2019-2020
403	Measurements and Instrumentation	318EET05	EEE	Entrepreneurship- This courses offers the knowledge about the real time application and procedure of instrumentation which help the student to get involved in manufacturing industries.	2019-2020
404	Linear Integrated Circuits Laboratory	318EEP07	EEE	Skill Development- This course develops the practical knowledge about op amp and other IC characteristics by practicing the lab experiments.	2019-2020
405	Measurements and Instrumentation Laboratory	318EEP08	EEE	Skill Development- This course gives the knowledge to develop the instrumentation handling skills.	2019-2020
406	Fundamentals of Data Structures in C Laboratory	318EEP09	EEE	Skill Development- This course provides the knowledge to apply the basic C language programing skills.	2019-2020
407	Numerical Methods	418NMT01	EEE	Skill Development- This course deals with Direct and Iterative methods to solve equations.	2019-2020
408	Digital Electronic Circuits	418EET03	EEE	Skill Development- This course offers the knowledge to develop the skill about synchronous and asynchronous circuits.	2019-2020
409	Power Generation Systems	418EET04	EEE	Employability-This course provides the knowledge of various methods of electrical power generation by renewable and non renewable sources that makes the students employable in those fields.	2019-2020
410	Electrical Machines – I	418EET05	EEE	Employability- This Course provides the knowledge about the D.C electrical machines and Transformers.	2019-2020
411	Neural Networks and Fuzzy Systems	418EEE07	EEE	Skill Development- This course provides the optimization techniques in neural networks and the fuzzy systems.	2019-2020
412	Fundamentals of Nano Science	418EEE09	EEE	Skill Development- This course develops the basic idea about the	2019-2020

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				fundamentals of nano science.	
413	Electrical Machines-I Laboratory	418EEP07	EEE	Skill Development-This course develops the knowledge in real time application of D.C machines and transformer by practicing the lab experiments.	2019-2020
414	Electrical and Electronic Circuits Simulation Laboratory	418EEP08	EEE	Skill Development-This course develops the knowledge in real time simulation of electrical and electronics circuits by practicing the lab experiments.	2019-2020
415	Control Systems Laboratory	418EEP09	EEE	Skill Development-This programme develops the knowledge in Transfer Function and stability concepts by practicing the lab experiments.	2019-2020
416	Microprocessors and Microcontrollers	515EET01	EEE	Employability- This course deals the microprocessors and microcontrollers ARCH, pin diagram configuration which ensures the employability opportunity to the students	2017-2018
417	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
418	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
419	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
420	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 the electrical core field.	2017-2018
421	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
422	Electrical Machines Laboratory – II	515BEP07	EEE	Skill Development-This course develops the knowledge in real time application of A.C machines by practicing the lab experiments.	2017-2018
423	Electrical Machine Design	615EET01	EEE	Entrepreneurship- This course deals with the designing of DC and AC machines which develops the entrepreneurship skills.	2017-2018
424	Power Electronics	615EET02	EEE	Employability- This course deals with the characteristics of power electronics devices.	2017-2018
425	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

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426	High Voltage Engineering	615EET04	EEE	Skill Development- This course deals with the generation and testing of high voltage.	2017-2018
427	Industrial Automation	615EEE01	EEE	Employability- This course deals the Automation methods in the industrial platform which gives employment opportunities to the student	2017-2018
428	Electrical Safety, Operation, Regulations	615EEE05	EEE	Employability- This course discusses about the electrical safety measures and the standards	2017-2018
429	Electrical Engineering Materials	615EEE07	EEE	Skill Development- This course develops the knowledge on electrical engineering materials and their characteristics.	2017-2018
430	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
431	Electronic System Design lab	615EEP09	EEE	Skill Development-This course helps the students to design and develop electronic circuits.	2017-2018
432	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
433	Electric Drives and Control	715EET03	EEE	Entrepreneurship-This course provides details of DC and AC drives and their characteristics.	2018-2019
434	Power Quality Management	715EEE06	EEE	Employability- This course provides the knowledge about the monitoring and analysis of power quality which ensures the employment of students.	2018-2019
435	Special Electrical Machines	715EEE10	EEE	Skill Development- This course provides the knowledge of principles, characteristics and applications of certain special machines.	2018-2019
436	Mini Project	715EEP07	EEE	Skill Development-This course helps the students to apply their knowledge in real time application and to develop the mini project.	2018-2019
437	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
438	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
439	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
440	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
441	Advanced Electric Drives	815EEE03	EEE	Entrepreneurship-This course deals with the latest technologies in the field of electric drives and the controllers.	2018-2019



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442	Distributed Generation and Micro Grid	815EEE04	EEE	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
443	HVDC Transmission Systems	815EEE05	EEE	Skill Development-This course deals with the HVDC power transmission which develops the student skills in bulk power DC transmission area.	2018-2019
444	Virtual Instrumentation	815EEE07	EEE	Skill Development- This course deals with the Lab view software tools and the programming ideas.	2018-2019
445	VLSI Design	815EEE08	EEE	Skill Development- This course provide the designing skill in VLSI domain.	2018-2019
446	Project Work	815EEP04	EEE	Skill Development-This course helps the students to apply their knowledge in developing real time applications.	2018-2019
447	Technical English	118ENT01	EIE	Skill Development-This course helps the students to develop their listening and reading skills.	2018-2019
448	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
449	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
450	Measurement Engineering	318EIT02	EIE	Skill Development - Ability to apply the mathematical knowledge and science & engineering fundamentals gained to solve problems pertaining to measurement applications	2019-2020
451	Network Analysis and Synthesis	318EIT03	EIE	Skill Development - Evaluate one-port networks and two-port network parameters and Understand the impact of various types of filters and attenuators	2019-2020
452	Electronic Devices and Circuits	318EIT04	EIE	Skill Development - Acquire knowledge of Working principles, characteristics and applications of semiconductor devices and electronic circuits	2019-2020
453	Electrical Machines	318EIT05	EIE	Skill Development - Understand the construction, working, characteristics and applications of DC generators & DC motors, testing of single phase transformers	2019-2020
454	Fundamentals of Data Structures in C	318EIT06	EIE	Skill Development - Develop programs for realtime application using functions, structures, union and operations of data structures	2019-2020
455	Electrical Machines Lab	318EIP07	EIE	Skill Development - Analysing characteristics of DC motor, AC motor and Transformers	2019-2020

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456	Measurement Engineering lab	318EIP08	EIE	Skill Development - Implement the characteristics of various transducers and infer the reasons for the behaviour	2019-2020
457	Fundamentals of Data Structures in C Lab	318EIP09	EIE	Skill Development - Implement functions and recursive functions in C and data structures	2019-2020
458	Analog Electronics	418EIT02	EIE	Skill Development - Design the circuits using diodes, BJT and FET & IC Fabrication	2019-2020
459	Digital Electronics Circuits	418EIT03	EIE	Skill Development - Concept of combinational circuits, synchronous, asynchronous circuit and PLD	2019-2020
460	Industrial Instrumentation - I	418EIT04	EIE	Skill Development - Understand the adequate knowledge of transducers for pressure, force, temperature, density and torque measurement	2019-2020
461	Thermodynamics & Fluid Mechanics	418EIT06	EIE	Skill Development - Acquire the knowledge, capability of analyzing problems associated with the dimensional and modal analysis	2019-2020
462	Analog and Digital Electronics Laboratory	418EIP07	EIE	Skill Development - Design the various code converters, shift registers, counters, Multiplexers and Timers	2019-2020
463	Circuit Simulation Laboratory	418EIP08	EIE	Skill Development - OSCAD and SCI Lab software and implementation of transient and parametric analysis of RL, RC and RLC	2019-2020
464	Thermodynamics & Fluid Mechanics Laboratory	418EIP09	EIE	Skill Development - Perform experiments on engine, compressor, refrigerators and air conditioning	2019-2020
465	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
466	Process Dynamics and Control	515EIT02	EIE	Employability - Understand the characteristics of various controller modes and design of Pneumatic controllers, Electronic controllers and control valves	2017-2018
467	Analytical Instrumentation	515EIT03	EIE	Skill Development - Analyze the principle operation of chromatographic Techniques, PH meters and analyzers	2017-2018
468	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
469	Virtual Instrumentation Lab	515EIP06	EIE	Skill Development - Simulation in LabVIEW, Arithmetic and Logic operations ,Creating and Debugging a VI	2017-2018
470	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
471	Microprocessors Microcontrollers	515EEP08	EIE	Skill Development - Implement the developed code using 8085 processors	2017-2018



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	Laboratory			and 8051 controllers	
472	Digital signal analysis and Processing	515EIE01	EIE	Skill Development - Understand and analyze multirate signal processing techniques and their applications	2017-2018
473	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
474	Instrumentation System Design	615EIT01	EIE	Employability - Provides the comprehensive knowledge for various instrumentation system like Pressure, Level and temperature Measurement	2017-2018
475	Industrial Instrumentation	615EIT02	EIE	Skill Development - Understand the various measurements adopted in industry environment	2017-2018
476	Logic and Distributed control system	615EIT03	EIE	Employability - Understand DCS, I/O modules and field devices of an industrial automation system	2017-2018
477	Applied Soft Computing	615EIT04	EIE	Skill Development - Adequate knowledge about feedback neural networks, fuzzy and neuro-fuzzy system and genetic Aalgorithm	2017-2018
478	Instrumentation System Design Lab	615EIP05	EIE	Skill Development - Designing of square root extractor, linearizing circuit for thermocouples, ON/OFF and PID Controllers	2017-2018
479	Industrial Instrumentation Lab	615EIP06	EIE	Skill Development - Analyze Instrumentation systems and their applications to various Industries	2017-2018
480	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
481	Principles of Management	615EIE03	EIE	Entrepreneurship - Understand of managerial functions like planning, organizing, staffing, leading & controlling	2017-2018
482	Industrial Data Networks	715EIT01	EIE	Skill Development - Knowledge about the computer networks, the methods of internetworking and industrial data communication	2018-2019
483	Computer Control of Processes	715EIT02	EIE	Skill Development - Provides knowledge about design of Digital Controllers and multiloop system analysis	2018-2019
484	Robotics and Automation	715EIT04	EIE	Employability - Analyze the various parts of robots and fields of robotics	2018-2019
485	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
486	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
487	Automotive Instrumentation and control	715EIE03	EIE	Skill Development - Designing a braking system and a suspension/direction system and large technological knowledge in	2018-2019

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				instrumentation & control and to define the functioning of a vehicle engine	
488	Wireless sensor networks	715EIE09	EIE	Skill Development - Knowledge in ARCHs to Link the hardware and Software network nodes	2018-2019
489	Power Plant Instrumentation	815EIT01	EIE	Employability - Analyze various measurements and control in power generation plants and SCADA in power plants	2018-2019
490	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
491	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
492	Building Automation	815EIE08	EIE	Employability - Analyze current philosophy, technology, terminology, and practices used in building automation	2018-2019
493	Basic Electrical EIE	118ESE06	IT	Skill Development - This course helps students can acquire the knowledge about applications of electronics measurements and understand the actual field where electronics measurements are required for measurement purpose in instrumentation field.	2018-2019
494	Programming in C	218CPT05	IT	Skill Development -Course helps to learn the fundamental programming concepts using C	2018-2019
495	Programming in C Laboratory	218CPP09	IT	Skill Development -Course helps to learn the fundamental programming concepts using C	2018-2019
496	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
497	Digital Electronics	318CIT02	IT	Employability - This course helps students in Solving problems in areas of digital electronics.	2019-2020
498	Communication Engineering	318ITT03	IT	Employability - Gives the ability to design various communication modules in communication industry	2019-2020
499	Object Oriented Programming in C++	318CIT04	IT	Employability -The course will help the candidates to enhance their java programming language skills	2019-2020
500	Data Structures	318CIT05	IT	Employability -Enhancing the problem solving skills through the knowledge of data structures	2019-2020
501	Computer Organization	318CIT06	IT	Skill Development -Acquiring Knowledge of basic building blocks of computer systems	2019-2020
502	Digital Electronics Laboratory	318CIP07	IT	Employability - This course helps students in Solving problems in areas of digital electronics, measurements, sensors and industrial instrumentation	2019-2020

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503	Object Oriented Programming Laboratory	318ITP08	IT	Employability -The course will help the candidates to enhance their java programming language skills	2019-2020
504	Data Structures Laboratory	318ITP09	IT	Employability -Enhancing the problem solving skills through the knowledge of data structures	2019-2020
505	Discrete Mathematics	418DMT01	IT	Skill Development -Course enables students to apply Maths for Computer Science	2019-2020
506	Design and Analysis of Algorithms	418CIT02	IT	Employability -Various algorithm design strategies helps to develop efficient algorithms	2019-2020
507	Java Programming	418CIT03	IT	Skill Development -This course enables the student to develop object oriented based solutions using java programming language	2019-2020
508	Operating System	418CIT04	IT	Employability -Acquiring Knowledge of basic functionalities of operation systems	2019-2020
509	Database Management Systems	418ITT05	IT	Skill Development - able to understand the transaction processing concurrency control	2019-2020
510	Software Engineering	418CIT06	IT	Employability -Exposure to discipline of software development life cycle models	2019-2020
511	Java Programming Laboratory	418CIP07	IT	Skill Development -The students will be aware of the important topics and principles of software development and Have the ability to write a computer program to solve specified problems with help of Java Programming Lab.	2019-2020
512	Operating System Laboratory	418CIP08	IT	Employability -Acquiring Knowledge of basic functionalities of operation systems	2019-2020
513	Database Management System Laboratory	418ITP09	IT	Skill Development -To familiarise the students with major DBMS concepts	2019-2020
514	Software Engineering & Quality Assurance	515ITT02	IT	Employability -Exposure to discipline of software development life cycle models	2017-2018
515	Communication Engineering	515ITT04	IT	Employability - Gives the ability to design various communication modules in communication industry	2017-2018
516	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
517	Applied Statistics and Numerical Methods	515MAE01	IT	Employability - This course will help the students to model the real life problems	2017-2018
518	Internet Programming Laboratory	515ITP07	IT	Skill Development - Students could design and develop websites and documents using HTML and XML	2017-2018

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519	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
520	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
521	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
522	Cryptography and Security in Computing	615ITT02	IT	Skill Development - Knowledge about cryptographic algorithms helps to enhance secured communications	2017-2018
523	UNIX Internals	615ITT03	IT	Skill Development - This course is designed to enable the student to use the UNIX operating system.	2017-2018
524	Open Source Software	615ITT04	IT	Skill Development - Provides an opportunity to Improving accessibility and access to higher education.	2017-2018
525	Building Enterprise Applications	615ITE01	IT	Employability - this course is to give an overall and complete understanding of Enterprise Software and Design Patterns.	2017-2018
526	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
527	Open Source Software Laboratory	615ITP08	IT	Skill Development - Provides an opportunity to Improving accessibility and access to higher education with Practical skills.	2017-2018
528	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
529	Mobile Communications	715ITT01	IT	Employability -Developing mobile applications	2018-2019
530	Cloud Computing	715CIT04	IT	Skill Development -Exposure to various platforms that helps in building cloud applications	2018-2019
531	Internet of Things	715CIE01	IT	Employability - Learning various IoT platforms to build smart applications	2018-2019
532	Engineering Ethics & Human Values	715BAO03	IT	Entrepreneurship - Apply the concepts of nation income and understand the functions of bank and globalization	2018-2019
533	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
534	Cloud Computing Laboratory	715CIP08	IT	Skill Development and Employability - Foundations to emerging technology - Study of virtualization concepts and various Cloud Computing ARCH, Service and Delivery models	2018-2019
535	Big Data Analytics	815CIT01	IT	Skill Development -This course enables the student to analyse volumes data and skim out valuable information	2018-2019
536	Software Testing	815ITE02	IT	Skill Development -This course helps to know about various testing types	2018-2019



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537	Information Security	815ITE10	IT	Employability -Awareness about various information security related problems faced by industries	2018-2019
538	Project Work	815ITP01	IT	Skill Development - This course enables the student to pool the knowledge acquired in various technical subjects to develop enterprise solutions and work as a team in organizations	2018-2019
539	Basic Civil, EEE	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
540	Engineering Thermodynamics	318MET02	ME	Employability - Concepts of Engineering Thermodynamics and its applications will enable the students to perform better as an engineer during their employability.	2019-2020
541	Fluid Mechanics and Machinery	318MET03	ME	Employability - Concepts of fluid mechanics and applications to fluid machinery will enable the students to perform better as an engineer during their employability.	2019-2020
542	Composite Materials	318MET04	ME	Employability - This course will be used to understand and analyse the composite material properties and enhance the applications of new materials for sustainability.	2019-2020
543	Manufacturing Technology-I	318MET05	ME	Employability - This course will enable the students to understand the manufacturing processes like casting, welding, machining with lathe, milling, etc.	2019-2020
544	Electrical Drives and Controls	318MOE01	ME	Skill Development - This course focuses on electrical components, wiring and basic concepts of house hold electrical appliances, etc.	2019-2020
545	Fluid Mechanics and Machinery Laboratory	318MEP07	ME	Skill Development- Students will gain skill in testing related to fluid flow.	2019-2020
546	Manufacturing Technology Laboratory -I	318MEP08	ME	Skill Development- This course will enhance the students with different manufacturing processes and develop their skills in the analysing of materials.	2019-2020
547	Electrical Drives and Controls Laboratory	318MOP01	ME	Skill Development - This course will give practical knowledge on electrical components, wiring and basic concepts of house hold electrical appliances, etc.	2019-2020
548	Statistics and Numerical Methods	418MAT01	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.	2019-2020
549	Kinematics of Machinery	418MET02	ME	Skill Development - This course will give more knowledge on velocity and acceleration diagrams for different linkages, designing cam profile for the	2019-2020

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 mail:principal@adhiyamaan.ac.in

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				desired follower motion and synthesis linkages.	
550	Thermal Engineering	418MET03	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.	2019-2020
551	Strength of Materials	418MET04	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.	2019-2020
552	Manufacturing Technology-II	418MET05	ME	Entrepreneurship - Students will know about the fundamentals of metal cutting, special purpose machines used in industrial applications.	2019-2020
553	Process Planning and Cost Estimation	418MET06	ME	Entrepreneurship - This course will give more knowledge on step by step procedures in the cost estimation of any product.	2019-2020
554	Thermal Engineering Laboratory	418MEP07	ME	Skill Development - Students will be familiar on various thermodynamic concepts and principles, heat balance test, energy balance test.	2019-2020
555	Material Testing and Metallurgy Laboratory	418MEP08	ME	Skill Development - Students will have more skills in testing of materials under untreated and heat treated conditions and various NDT methods.	2019-2020
556	Manufacturing Technology Laboratory-II	418MEP09	ME	Skill development - This course will give more practical knowledge on different machining operations on shaper, lathe, milling, drilling and slotting.	2019-2020
557	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
558	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
559	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
560	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
561	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
562	Renewable Energy Sources	515MEE04	ME	Skill Development - This course focus with various forms of solar energy, utilization of wind energy, new energy resources and its estimation.	2017-2018
563	Advanced Manufacturing Processes	515MEE06	ME	Employability - Students will have an ability to work with different	2017-2018

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				manufacturing processes used in industries.	
564	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
565	Thermal Engineering Laboratory-II	515MEP08	ME	Skill Development - This course will enhance the students to conduct performance test on various refrigeration systems.	2017-2018
566	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
567	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
568	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
569	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
570	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
571	Principles of Management and Business Concepts	615MEE03	ME	Entrepreneurship - This course focus on how to start an organization by knowing the concepts of marketing and various business activities.	2017-2018
572	Additive Manufacturing	615MEE09	ME	Employability - By knowing different rapid prototyping techniques, students can adhere to industry environment easily.	2017-2018
573	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
574	Dynamics Laboratory	615MEP07	ME	Skill Development - This course will give more practical knowledge to calculate mass moment of inertia of body experimentally.	2017-2018
575	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
576	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
577	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

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578	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
579	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
580	Maintenance Engineering	715MEE02	ME	Employability - This course focus on principles, function and practices adapted in industry for the successful management of maintenance activities.	2018-2019
581	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
582	Internship & Technical Seminar	715MEP07	ME	Skill Development - This course will give practical exposure and learn about various activities happening in the industries.	2018-2019
583	Mechatronics Laboratory	715MEP08	ME	Skill Development - This course focus on designing components based on hydraulic and pneumatic systems for industrial automation.	2018-2019
584	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
585	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
586	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
587	Engineering Economics and Cost Analysis	815MEE02	ME	Entrepreneurship - This course will give more knowledge on cost calculations, replacement policies and types of depreciation methods which an entrepreneur should know.	2018-2019
588	Industrial Safety and Hazard Managements	815MEE04	ME	Entrepreneurship - This course focus on safety measures to be maintained in the industry.	2018-2019
589	Total Quality Management	815MEE09	ME	Employability - This course focus on TQM principles, tools and Philosophies which is used in industries throughout the world.	2018-2019
590	Disaster Management	815MEE10	ME	Skill Development - This course will enhance the students to be familiar with the natural calamities and be prepared for any situation in real life.	2018-2019
591	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

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592	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
593	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
594	Management Concepts and Practices	118BAT02	MBA	Employability-This Course helps as the systematic process of creating effective managers. Entrepreneurship-This course helps critical function is to translate leadership and Entrepreneurship objectives Skill Development- This Course help develop managers/executives for better performance on their present job	2018-2019
595	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
596	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
597	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 behavior of people	2018-2019
598	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	2018-2019

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				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	
599	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
600	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
601	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
602	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
603	Human Resource Management	218BAT08	MBA	Employability- This Course helps recruiting new hires, evaluating employee performance, ensuring fair compensation and benefits, training employees and supporting education and development, and protecting the health and safety of all employees Entrepreneurship-This Course helps as acts as a supporter to perform the entrepreneurial activities effectively and efficiently Skill Development- This Course helps workers meet organizational standards, cuts down replacement costs and improves workplace performance	2018-2019
604	Marketing Management	218BAT09	MBA	Employability-This Course helps in identifies market opportunities and comes out with appropriate strategies for exploring those opportunities	2018-2019

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				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	
605	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
606	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
607	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
608	Data Analysis and Business Modelling	218BAP02	MBA	Employability-This Course helps Social statistics and quantitative data analysis are key tools for understanding society and social change for job Entrepreneurship-This Course helps in profit-making plan which defines the products or services it will sell, its target market, and any expected business growth Skill Development-This Course helps in providing data analysis for descriptive and bivariate statistics, numeral outcome predictions and predictions for identifying groups	2018-2019
609	Managerial Skill Development - 1	218BAV01	MBA	Employability- This course helps in the knowledge and ability of the	2018-2019

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				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	
610	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
611	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
612	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
613	Performance Management	318BAH02	MBA	Employability-This Course helps for ongoing process of communication between a supervisor and an employee that occurs throughout the year, in support of accomplishing the strategic objectives of the organization. Entrepreneurship-This Course helps in promotion and development Programmes are being organized regularly to nurture the talent of youth by enlightening them	2019-2020



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				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	
614	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
615	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
616	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
617	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
618	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
619	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	
620	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
621	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
622	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
623	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
624	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
625	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	2019-2020

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				activities or tasks Employability- 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	
626	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
627	Office Automation Lab	118CAL03	MCA	Employability - Exercise focused on various format related to government and non government agency.	2018-2019
628	Internet Programming	218CAT02	MCA	Skill Development- Extended knowledge in Internet with to develop various applications	2018-2019
629	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 stored.	2018-2019
630	Internet Programming Lab	218CAP06	MCA	Skill Development-Lab Exercise in extended knowledge in Internet with to develop various applications	2018-2019
631	Management Information System	218CAE02	MCA	Entrepreneurship- Understand and organize the Business World with management information	2018-2019
632	Object Oriented Analysis and Design	218CAE04	MCA	Skill Development- Analysis and Design Skill in the development of object oriented applications.	2018-2019
633	Datastructure Lab using C++	218CAL02	MCA	Skill Development- Program with Data structure to represent different types using c++	2018-2019
634	Java Programming	318CAT01	MCA	Skill Development- Java Programming with J2EE and J2ME Concept implemented to develop an applications	2019-2020
635	C# and Dot Net Programming	318CAT03	MCA	Skill Development- Dot Net Programming with CLR Concept along with console, window and web based applications	2019-2020
636	Java Programming Lab	318CAP06	MCA	Skill Development- Java Programming Lab exercise with J2EE and J2ME Concept implemented to develop an applications	2019-2020
637	Advanced database Management Systems	318CAE03	MCA	Skill Development- Database with advanced concept using recent tools for AI and ML based applications	2019-2020
638	Human Resource Mangement	318CAE07	MCA	Entrepreneurship - Management in terms of company policy and human policy	2019-2020

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639	C# and Dot Net Programming Lab	318CAL01	MCA	Skill Development- Dot Net Programming Lab Exercise with CLR Concept along with console, window and web based applications	2019-2020
640	Web Programming	418CAT01	MCA	Skill Development - Programming based on PHP with MySQL to develop an web based applications	2019-2020
641	Data Warehousing and Data Mining	418CAT02	MCA	Skill Development - Detailed process of Mining and Warehouse related to various applications in the real-world scenario.	2019-2020
642	Mobile Application Development	418CAT03	MCA	Skill Development- Analytical and Technical Skills were developed in the mobile applications	2019-2020
643	Web Programming Lab	418CAP06	MCA	Skill Development - Program based on PHP with MySQL to develop an web based applications along with third party.	2019-2020
644	Professional Communications	418CAE08	MCA	Entrepreneurship -Communications Skills Which leads to professional for their development of business.	2019-2020
645	Executive Communication Lab	418CAL04	MCA	Employability- Presentation focused on Seminar, develop of communication skills for the corporate world.	2019-2020
646	Internet of Things	515CAT01	MCA	Skill Development- A Physical design to interact a device with internet application explored the embedded system.	2015-2016
647	Mobile Application Development	515CAT02	MCA	Skill Development- Analytical and Technical Skills were developed in the mobile applications	2015-2016
648	Big Data Management	515CAT03	MCA	Skill Development- Semantic skill with data representation focused on Volume, Velocity and variety.	2015-2016
649	Mini Project	515CAP06	MCA	Employability- Various Application designed in house to sustain the availability of the corporate world.	2015-2016
650	Open Source Technologies	515CAE02	MCA	Skill Development- Programming Skills with open source were developed to attain the requirements of IT Sector	2015-2016
651	Digital Marketing Manegment	515CAE09	MCA	Entrepreneurship - Marketing strategies in the digital world to develop the business in Local / National / International Level	2015-2016
652	Mobile Application Development Lab	515CAL01	MCA	Skill Development- Exercise based Analytical and Technical Skills were developed in the mobile applications	2015-2016
653	Open Source Technologies Lab	515CAL02	MCA	Skill Development- Program Skills with open source were developed to attain the requirements of IT Sector	2015-2016
654	Project Work	615CAP01	MCA	Employability- Various Application designed to sustain the availability of the corporate world.	2015-2016
655	Advanced Mathematics for Computing	118MCT01	M.E. CSE	Skill Development- this course helps students in boosting their calculating ability	2018 -2019

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mail:principal@adhiyamaan.ac.in

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656	Advanced Data Structures and Algorithms	118MCT02	M.E. CSE	Employability -Various algorithm design strategies helps to develop efficient algorithms	2018 -2019
657	Advanced Computer ARCH	118MCT03	M.E. CSE	Skill Development- this course indulge in learning in depth of the computer ARCH	2018 -2019
658	Network Protocols	118MCT04	M.E. CSE	Skill Development- this course helps in understanding different network protocols	2018 -2019
659	Advanced Software Engineering	118MCT05	M.E. CSE	Skill Development- this course provides knowledge about managing software tools	2018 -2019
660	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
661	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
662	Artificial Intelligence	118MCE04	M.E. CSE	Skill Development- this course provides the knowledge of understanding and developing an artificial intelligence	2018 -2019
663	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
664	Security in Computing	218MCT02	M.E. CSE	Skill Development-this course helps in calculating the performing of security in systems	2018 -2019
665	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
666	Internet of Things	218MCT04	M.E. CSE	Employability - Learning various IoT platforms to build smart applications	2018 -2019
667	Operating System Internals	218MCT05	M.E. CSE	Employability - this course helps students to working with various kinds of different operating systems	2018 -2019
668	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
669	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
670	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
671	Machine Learning Techniques	318MCT01	M.E. CSE	Skill Development -To build predictive models using advanced Machine Learning Techniques	2019-2020
672	Project Work Phase - I	318MCP02	M.E. CSE	Skill Development- in this phase, students are organised to gather the required data for implementing the project	2019-2020
673	Big Data Analytics	318MCE04	M.E. CSE	Skill Development -This course enables the student to analyse volumes	2019-2020

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 mail:principal@adhiyamaan.ac.in

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				data and skim out valuable information	
674	Deep Learning	318MCE09	M.E. CSE	Employability -Learn deep learning ARCHs to build intelligent applications	2019-2020
675	Project Work – Phase II	418MCP01	M.E. CSE	Entrepreneurship -this phase helps students to implement a realtime working software based project	2019-2020
676	Applied Mathematics	118COT01	M.E. CS	Skill Development-This course will help the students to apply the mathematics concept to solve the complex problem.	2018-2019
677	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
678	Modern Digital Communication Techniques	118COT03	M.E. CS	Skill Development-Gives the ability to design various digital communication modules in communication industry	2018-2019
679	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
680	Advanced Radiation Systems	118COT05	M.E. CS	Skill Development-Gives the ability to design various radiation effects in communication industry	2018-2019
681	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
682	Advanced Satellite Based Systems	118COE06	M.E. CS	Employability - Able to design and test satellite communication protocols in communication industry	2018-2019
683	Software Radio ARCH	218COT01	M.E. CS	Skill Development-Design SDR for a specific application	2018-2019
684	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
685	Multimedia Compression Techniques	218COT03	M.E. CS	Employability - Able to design and develop data compression algorithms in data processing applications	2018-2019
686	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
687	Network Routing Algorithms	218COE07	M.E. CS	Employability- Provides knowledge in Networks Routing Protocols, hence student to get employment in core industry	2018-2019
688	DSP Processor ARCH and Programming	218COE14	M.E. CS	Employability-Implement the different processor for domestic and industrial applications	2018-2019
689	Cognitive Radio	218COE17	M.E. CS	Employability-Able to design the wireless networks based on the cognitive radios	2018-2019
690	Embedded Systems for	318COE01	M.E. CS	Employability - Gives the ability to design various embedded modules in	2019-2020

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	Communication			communication industry	
691	Communication Network Security	318COE03	M.E. CS	Employability- This course gives the ability to design and work on network layer security protocols	2019-2020
692	High Speed Switching ARCH	318COE04	M.E. CS	Employability- This course gives the ability to design and work on IP layer protocols	2019-2020
693	Project Work (Phase – I)	318COP01	M.E. CS	Employability/Entrepreneurship/Skill Development-Develops the research skill on product development	2019-2020
694	Internship	318COP02	M.E. CS	Employability - This course will enhance the students on technical paper writing and publication techniques.	2019-2020
695	Project Work (Phase – II)	418COP01	M.E. CS	Employability/Entrepreneurship/Skill Development-Develops the research skill on product development	2019-2020
696	Micro Electro Mechanical Systems	318EDE01	M.E. ED	Skill Development - This course will give more knowledge on micro mechanics, micro manufacturing, micro fabrication and its applications.	2019-2020
697	Product Life Cycle Management	318EDE03	M.E. ED	Skill Development - This course provides detailed concepts on product life cycle management along with latest industry views.	2019-2020
698	Project Work (Phase – I)	318EDP01	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.	2019-2020
699	Internship	318EDP02	M.E. ED	Skill Development - This course will give practical exposure and learn about various activities happening in the industries.	2019-2020
700	Project Work (Phase-II)	418EDP01	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.	2019-2020
701	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
702	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
703	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
704	Power System Estimation and	118PST04	M.E. PSE	Employability- This course provides the knowledge about contingency	2018-2019

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	Security			analysis, marginal pricing analysis and security enhancement in power system which ensures the employment in power system.	
705	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
706	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
707	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
708	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
709	Power System Dynamics and Stability	218PST02	M.E. PSE	Skill Development- This course provides the knowledge about the stability analysis of power system in the dynamic disturbance.	2018-2019
710	Advanced Power System Protection	218PST03	M.E. PSE	Employability- This course provides the knowledge about the techniques to protect the equipment's and protection schemes in the substation which ensures the employment in the substation.	2018-2019
711	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
712	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
713	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
714	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
715	Seminar	218PSP01	M.E. PSE	Skill Development- This course enhances the student's presentation skills in the power system.	2018-2019
716	EHV Power Transmission	318PST01	M.E. PSE	Employability- This course provides the knowledge in electrical power	2019-2020

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				transmission in EHV system which ensures the employment in the power system grid.	
717	Restructured Power System	318PSE01	M.E. PSE	Skill Development- This course provides the detailed knowledge about the restructured power system.	2019-2020
718	Power System Instrumentation	318PSE05	M.E. PSE	Skill Development- This course provides the knowledge about the working principle and types of instruments in the substation which develops the students designing skills in power system.	2019-2020
719	Project Work (Phase – I)	318PSP01	M.E. PSE	Employability-This course helps the students to apply their Power Systems knowledge in real time applications.	2019-2020
720	Project Work (Phase - II)	418PSP01	M.E. PSE	Employability-This course helps the students to apply their Power Systems knowledge in real time applications.	2019-2020
721	Applied Mathematics	118SET01	M.E. SE	Employability - Students will develop skills in mathematics to solve problems	2018-2019
722	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
723	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
724	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
725	Advanced Concrete Technology	118SEE01	M.E. SE	Entrepreneurship - This course develops skills in concreting technology	2018-2019
726	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
727	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
728	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 variuos CE structures using non-destructive testing methodologies	2018-2019
729	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
730	Stability of Structures	218SEE05	M.E. SE	Employability - Skills in assessing the stability of structural elements is focused in this course	2018-2019
731	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

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732	Prefabricated Structures	318SEE03	M.E. SE	Skill Development-Prefabricated structures is the innovative construction practice and useful for placements	2019-2020
733	Pre-stressed Concrete	318SEE06	M.E. SE	Skill Development - This course enhances the skill set related to design of prestressed concrete structures.	2019-2020
734	Sub Structure Design	318SEE12	M.E. SE	Skill Development - This course helps to understand the concepts involved in design of substructures so that a structural engineer can interact with a geotechnical engineer which helps in project execution	2019-2020
735	Practical Training (4 Weeks)	318SEP01	M.E. SE	Entrepreneurship, Skill Development - Students will get experience in industry during this course which helps them to identify skill sets required to be developed so that they become employable	2019-2020
736	Seminar	318SEP02	M.E. SE	Skill Development - The course enhances the technical presentation and documentation skills which aids in employability	2019-2020
737	Project Work (Phase- I)	318SEP03	M.E. SE	Entrepreneurship, Skill Development - Students develop their skills in doing research or design and enhance their technical report writing and presentation	2019-2020
738	Project Work (Phase - II)	418SEP01	M.E. SE	Entrepreneurship, Skill Development - Students develop their skills in doing research or design and enhance their technical report writing and presentation	2019-2020
739	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
740	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
741	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
742	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
743	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
744	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
745	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
746	Analysis and Design of Analog	218VLT01	M.E. VLSI	Employability - Students can work in VLSI industry to design and fabricate	2018-2019

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	Integrated Circuits			integrated circuits	
747	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
748	Low Power VLSI Design	218VLT03	M.E. VLSI	Employability - Students can work in VLSI industry to design and fabricate integrated circuits	2018-2019
749	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
750	Computer ARCH and Parallel Processing	218VLE02	M.E. VLSI	Skill Development-this course enables the students to understand parallel processing, pipelining and scheduling concepts.	2018-2019
751	MEMS and NEMS	218VLE10	M.E. VLSI	Employability - Able to design and fabricate various RF MEMS models in electronics industry	2018-2019
752	Physical Design of VLSI Circuits	218VLE13	M.E. VLSI	Employability - Students can work in VLSI industry to design and fabricate integrated circuits	2018-2019
753	Project Work (Phase – I)	318VLP01	M.E. VLSI	Employability/Entrepreneurship/Skill Development-Develops the research skill on product development	2019-2020
754	Internship	318VLP02	M.E. VLSI	Employability - This course will enhance the students on technical paper writing and publication techniques.	2019-2020
755	System on Chip Design	318VLE07	M.E. VLSI	Employability - Students can work in VLSI industry to design and fabricate integrated circuits	2019-2020
756	Real Time Embedded Systems	318VLE15	M.E. VLSI	Skill development- The course give insight on the concepts of automotive embedded systems and to impart skills in developing models.	2019-2020
757	VLSI for Wireless Communication	318VLE16	M.E. VLSI	Employability/Skill Development- This course enhance the students in developing real time VLSI applications for wireless communication.	2019-2020
758	Project Work (Phase – II)	418VLP01	M.E. VLSI	Employability/Entrepreneurship/Skill Development-Develops the research skill on product development	2019-2020


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