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1.1.3 Average percentage of courses having focus on Employability/ Entrepreneurship/ Skill development offered by the institution during the last five years

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AY 2017 - 18

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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
1	Technical English-I	115ENT01	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	2015-2016
2	Engineering Mathematics-I	115MAT02	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	2015-2016
3	Engineering Physics	115PHT03	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	2015-2016
4	Engineering Chemistry	115CYT04	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	2015-2016
5	Engineering Graphics	115EGT05	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.	2015-2016
6	Basics Of Computing And C Programme	115ESE02	First Year Common	Skill Development - This course enables the student to learn about the basics of computer and problem-solving methods.	2015-2016
7	Engineering Chemistry Lab	115CYP07	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	2015-2016
8	Computer Practices Lab	115ESP01	First Year Common	Skill Development - This course enables the student to learn about the basics of computer and problem-solving methods.	2015-2016
9	Language Lab	115HSP08	First Year Common	Skill Development - This course equips students of engineering and technology with effective speaking, listening, reading and writing skills in English, specifically, presentation, group discussion and report writing skills.	2015-2016
10	Technical English-II	215ENT01	First Year Common	Skill Development - This course facilitates students amplify suitable language skills for academic and professional purposes, vocabulary power, different functions of technical and scientific English	2015-2016
11	Engineering Mathematics-II	215MAT02	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	2015-2016

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

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				the classical theorems involving them.	
12	Applied Physics	215PHT03	First Year Common	Skill Development - This course enables students to understand the structure of solids and properties, classical theory and quantum theory and semiconductor materials	2015-2016
13	Applied Chemistry	215CYT04	First Year Common	Skill Development - This course makes the students conversant with basics of polymer chemistry, photo physical and photochemical processes and spectroscopy.	2015-2016
14	Engineering Mechanics	215EMT05	First Year Common	Skill Development - This course makes the students understand the vectorial and scalar representation of forces and moments, static equilibrium of particles and rigid bodies both in two dimensions	2015-2016
15	Biochemistry	215ESE02	First Year Common	Skill Development - This course provides students to get skill in various metabolic pathways and its regulation	2015-2016
16	Engineering Physics Laboratory	215PHP07	First Year Common	Skill Development - This course makes students understand the practical concepts of Interference and diffraction, the practical concepts of Interference and diffraction, modulus of elasticity and viscosities of liquid	2015-2016
17	Engineering Practices Laboratory	215EPP08	First Year Common	Skill Development - This course provide exposure to the students with various basic engineering practices in mechanical engineering	2015-2016
18	Biochemistry Laboratory	215ESP03	First Year Common	Skill Development - This course provides basic skills on qualitative and quantitative identification of biomolecules	2015-2016
19	Thermodynamics in Aeronautical Engineering	315AET03	AE	Entrepreneurship - Study thermodynamic principles, thermodynamics of state, basic thermodynamic relations,	2016-2017
20	Solid Mechanics	315AET05	AE	Entrepreneurship- Understand the shear force and bending moment diagrams.	2016-2017
21	Production Technology	315AET06	AE	Entrepreneurship- Learn the operation of Lathe, UMM, UDM, and CNC machines	2016-2017
22	Strength of Materials Laboratory	315AEP07	AE	Skill development -Understand the material hardness	2016-2017
23	Thermodynamics Laboratory	315AEP09	AE	Skill development- Study thermodynamic principles, thermodynamics of state, basic thermodynamic relations	2016-2017
24	Aerodynamics - I	415AET02	AE	Skill development - Evaluate and understand the Generation of Lift, wing theory and boundary layer concepts.	2016-2017
25	Aircraft Systems and Instruments	415AET03	AE	Employability - Impart knowledge of the hydraulic and pneumatic systems components and types of instruments and its operation including navigational instruments to the students	2016-2017
26	Aircraft Structures - I	415AET04	AE	Skill development - Study the basics of aircraft structural parts functioning and different types of beams and columns	2016-2017
27	Propulsion-I	415AET05	AE	Skill development - Establish fundamental approach and application of jet engine components	2016-2017

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PRINCIPAL
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Dr.M.G.R. Nagar, HOSUR-635130

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
28	Metal Joining Process and NDT	415AEE06	AE	Entrepreneurship - The basics of Metal joining process	2016-2017
29	Aircraft Structures Laboratory I	415AEP07	AE	Skill development- Identify statically determinate and indeterminate structures.	2016-2017
30	Aerodynamics Laboratory	415AEP08	AE	Employability - Understand the visualization in water flow channel	2016-2017
31	Aircraft Component Drawing Laboratory	415AEP09	AE	Entrepreneurship Skill development - Students can able to assemble the designs on workbench	2016-2017
32	Aircraft structures II	515AET01	AE	Skill development - Evaluate and understand the Generation of Lift, wing theory and boundary layer concepts.	2017-2018
33	Aircraft Performance	515AET02	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	2017-2018
34	Aerodynamics II	515AET03	AE	Skill development - Study the basics of aircraft structural parts functioning and different types of beams and columns	2017-2018
35	Propulsion II	515AET04	AE	Skill development- Establish fundamental approach and application of jet engine components	2017-2018
36	Aircraft rules and regulation	515AEE05	AE	Employability - The basics of Metal joining process	2017-2018
37	Aircraft control engineering	515AEE10	AE	Employability - Identify statically determinate and indeterminate structures.	2017-2018
38	Aircraft Structures Laboratory II	515AEP07	AE	Skill development - Understand the visualization in water flow channel	2017-2018
39	Propulsion Laboratory	515AEP08	AE	Skill development - Understand the milling and its experiments	2017-2018
40	Aircraft structures Repair laboratory	515AEP09	AE	Skill development - Use of sandwich panels for Aircraft industry	2017-2018
41	Heat Transfer	615AET02	AE	Skill development - Know basic study of the phenomena of heat transfer.	2017-2018
42	Experimental Stress Analysis	615AET03	AE	Skill development - Knowledge about measuring instruments, factors affecting measurements, errors and cor rective measurements.	2017-2018
43	Applied Hydraulics and Pneumatics	615MEO05	AE	Employability - Familiar with applications, advantages of the fluid power engineering and transmission systems.	2017-2018
44	Wind Tunnel Techniques	615AEE07	AE	Skill development - Study the principles of model testing	2017-2018
45	Aircraft Design Lab	615AEP07	AE	Employability - Compare different configuration of airplanes on Specifications and performance details of aircraft.	2017-2018
46	Materials Testing Lab	615AEP08	AE	Entrepreneurship - Knowledge about the basic principles of strength of materials to the undergraduate students through a series of experiments.	2017-2018
47	Aero Engine Repair laboratory	615AEP09	AE	Entrepreneurship - Understand the basic concept of piston engine components.	2017-2018
48	Fracture Mechanics And Mechanisms	711AET01	AE	Skill development - Obtain the knowledge about mechanical behaviour of a material under various loading conditions.	2014-2015
49	Avionics	711AET02	AE	Skill development - Understand the needs of avionics for both Civil and Military	2014-2015

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				Aircraft.	
50	Finite Element Analysis (FEA)	711AET04	AE	Skill development - Understand the simple harmonic motion and terminologies involved in D' Alembert's principle of motion.	2014-2015
51	Computer Integrated Manufacturing	711AEE02	AE	Entrepreneurship- Learn the overall configuration and elements of computer integrated manufacturing	2014-2015
52	Nondestructive Testing	711AEE08	AE	Skill development - understand principle behind various NDT techniques.	2014-2015
53	Aircraft Design Laboratory - II	711AEP07	AE	Entrepreneurship - Compare different configuration of airplanes on Specifications and performance details of aircraft.	2014-2015
54	Avionics & Aircraft Systems Laboratory	711AEP08	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.	2014-2015
55	Project Work Phase – I	711AEP10	AE	Entrepreneurship- Design various individual components, sub-assemblies and main assemblies.	2014-2015
56	Rocket and Missiles	811AET01	AE	Employability - Understand the Fundamentals and uses of solid, liquid and hybrid propellants in rocket systems.	2014-2015
57	Operation Research	811AEE02	AE	Skill development-The industrial management and techniques of decision making, customer involvement, work-study, incentive schemes.	2014-2015
58	High Temperature Materials	811AEE03	AE	Employability - Acquaint the student with the fundamentals of creep.	2014-2015
59	Project Work – Phase II	811AEP04	AE	Entrepreneurship- Design various individual components, sub-assemblies and main assemblies.	2014-2015
60	Materials and Construction – I	115ART04	ARCH	Employability/Skill Development - Expose the student to different materials of construction, components and elements of buildings and integrate in the small design spaces of regional context.	2015-2016
61	Architectural Graphics - I	115ART05	ARCH	Employability/Skill Development - Enable students the basics of architectural graphics in terms of both two dimensional and three-dimensional drawing and use these skills in design communication.	2015-2016
62	Art Studio	115ARP06	ARCH	Employability/Skill Development - Enhance free hand drawing as a means to communicate and to train the students to sketch and render natural forms, built forms and presentation drawings manually in various media.	2015-2016
63	Design Studio - I	115ARP07	ARCH	Employability/Entrepreneurship/Skill Development - Sensitize students to different material both planar and train them in visual composition using two dimensional and three dimensional objects and to develop aspects of visual perception.	2015-2016
64	Personality development	115ARE01	ARCH	Employability/Entrepreneurship/Skill Development - Build confidence and inculcate various soft skills and to help Students to identify and achieve their personal potential	2015-2016

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				to develop qualities suited for profession.	
65	Art appreciation	115ARE02	ARCH	Employability/Skill Development - Explore the relationship between materiality & space, between building, the environment and culture and to initiate an understanding of abstraction and analysis of space and form and emphasis on connoisseurs of art rather than consummate artists themselves.	2015-2016
66	Mechanics of Structures – I	215ART01	ARCH	Employability - Sensitize students on how structural resolutions become important in realization of architecture design concept.	2015-2016
67	Materials and Construction – II	215ART04	ARCH	Employability/Skill Development - Focus on the construction techniques, detailing of timber products and their applications and various components through scaled drawings.	2015-2016
68	Architectural Graphics-II	215ART05	ARCH	Employability/Skill Development - Development of visual representation and conceptual communication in the field of spatial design through 3D drawing techniques with applicable renderings that include shades and shadows	2015-2016
69	Computer Studio I	215ARP06	ARCH	Employability/Skill Development - Develop skills required in using computers as a tool for architectural design representation	2015-2016
70	Design Studio - II	215ARP07	ARCH	Employability/Entrepreneurship/Skill Development - Thrust for the design is on the spatial organization with respect to anthropological space standards including physically challenged.	2015-2016
71	Design Fundamentals in Architecture	215ARE03	ARCH	Skill Development - Implemented the design ideas as a tool of communication and for info graphical presentation and develop a sense of visualization of spaces with sketches, models, drawings and computer tools.	2015-2016
72	Communication skills	215ARE04	ARCH	Skill Development - Develop skills in effective communication – both written and verbal and explore the potential of media technology and the Internet to enhance communication.	2015-2016
73	Mechanics of Structures – II	315ART01	ARCH	Employability - Exposed to behavioural of structural elements and implement the analysis in the design problems.	2016-2017
74	Climate Responsive Architecture	315ART03	ARCH	Employability - Equip the students with scientific background required to design climate responsive buildings, and its climate responsive considerations in architectural design of building and built-up areas.	2016-2017
75	Environmental Sciences and Engineering	315ART04	ARCH	Employability - Gain knowledge on the application of concrete in different buildings and construction industry to support the design from foundation to structural details.	2016-2017
76	Materials and Construction – III	315ART05	ARCH	Employability/ Entrepreneurship/ Skill Development - Enable students to develop their design with the help of computation and presentation software to get the output of 2D and 3D model construction.	2016-2017
77	Computer Aided Design Studio	315ARP06	ARCH	Employability/ Entrepreneurship/ Skill Development - Students will have a holistic	2016-2017

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	II			understanding of the built environment as a complex entity shaped by social, economic and geographical factors and design a small-scale project different user.	
78	Design Studio - III	315ARP07	ARCH	Employability/Entrepreneurship/Skill Development - Thrust area for specialization in design shall be on cost effective, vernacular, eco, green or sustainable technologies and visual characteristics of a settlements at micro level.	2016-2017
79	Modular co-ordination	315ARE02	ARCH	Employability - Enable students to understand the pre-plugged design and prefab structures and meet the need of the growing construction industry.	2016-2017
80	Vernacular Architecture	315ARE04	ARCH	Skill Development - Development of significant contribution of vernacular architecture of place in fabric of that city or region.	2016-2017
81	Analysis & Design of Structures – I	415ART01	ARCH	Employability - Enable students to understand on steel and reinforced concrete structures to achieve various design of RC slabs supporting the design need.	2016-2017
82	Site Planning & Analysis	415ART03	ARCH	Employability/Skill Development - Insight about the process involved in analyzing the given site and its parameters and help students in evolving a design solution which responds to any given environment.	2016-2017
83	Building Services I	415ART04	ARCH	Employability - Sensitize students that efficiency of building function also depends on integration of services like water supply and sewage disposal system, and implement in the schematic layout of simple domestic and office buildings.	2016-2017
84	Materials and Construction – IV	415ART05	ARCH	Employability/Skill Development - Develop knowledge to the students of steel and their wider application in the building industry.	2016-2017
85	Design Studio - IV	415ARP06	ARCH	Employability/Entrepreneurship/Skill Development - To explore the spatial organization related socio-cultural aspects and implement principles of climatic responsive architecture.	2016-2017
86	Energy Efficient Architecture	415ARE01	ARCH	Employability - Incorporate energy efficient techniques in planning, design and detailing of buildings	2016-2017
87	Ergonomics in Building Design	415ARE03	ARCH	Skill Development - Explore metrological analysis of the anthropometrics relationship to ergonomic environmental design.	2016-2017
88	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
89	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
90	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

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91	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
92	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
93	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
94	Structure and Architecture	515ARE02	ARCH	Employability -Integrate the contemporary structural design in the form making process of architectural design.	2017-2018
95	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
96	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
97	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
98	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
99	Integrated Surveying	615CEO01	ARCH	Employability/ Entrepreneurship/ Skill Development - Develop a sound knowledge of fundamental principles of surveying and handling various surveying equipment's in fields	2017-2018
100	Sustainable Planning and Architecture	615ARE03	ARCH	Employability - Integrate Sustainable planning and building principles in architectural design.	2017-2018
101	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
102	Internship Programme - I	711ARP01	ARCH	Employability/Entrepreneurship/Skill Development - Provide adequate knowledge on the practice of architecture profession and to learn the administration, managerial and professional skills, and demonstrate the same in the future architectural design study.	2014-2015

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103	Internship Program - II	811ARP01	ARCH	Employability/Entrepreneurship/Skill Development - Provide adequate knowledge on the practice of architecture profession and to learn the administration, managerial and professional skills, and demonstrate the same in the future architectural design study.	2014-2015
104	Professional Practice & Ethics	911ART01	ARCH	Employability - Introduce aspects of professional conduct, duties and responsibilities and legal rights and procedures of the architectural profession.	2015-2016
105	Human Settlements & Planning	911ART02	ARCH	Employability - To study the patterns of human settlements and their relevance to architecture through which the betterment of human living and welfare is achieved	2015-2016
106	Disaster Mitigation & Management	911ART03	ARCH	Employability - Understand the effects of earthquake and response of structures to earthquake and apply the knowledge gained in an architectural design.	2015-2016
107	Architectural Design - VI	911ARP04	ARCH	Employability/ Entrepreneurship/ Skill Development - Evolving sensitivity to design of spaces at the urban scale – creation of nodes and links, visual landmarks, activity and interaction zones, relationship between commercial, recreational and residential areas.	2015-2016
108	Architectural Conservation	911AET01	ARCH	Employability/ Skill Development - Understand the values and ethics of conservation and expose students to conservation process and methodology and need for them in Indian context.	2015-2016
109	Construction and Project Management	911AET02	ARCH	Employability/Skill Development - Explore the involvment of directing and organizing each part of the project life cycle, from ideation to completion. It's a holistic practice.	2015-2016
110	Urban Design & Renewal	911AET04	ARCH	Employability - To give awareness to students about the clearing out of blighted areas in inner cities to clear out slums and to know the there is an opportunity for higher class housing, businesses	2015-2016
111	Thesis	1011ARTH01	ARCH	Employability/ Entrepreneurship/ Skill Development - Demonstrate design project comprehension to independently formulate, analyse, and solve architectural problems.	2015-2016
112	Urban Housing	1011ARE01	ARCH	Employability - Gain Knowledge on development of housing, its management, and how to make the same user friendly through participatory approach.	2015-2016
113	Construction planning & Management	1011ARE02	ARCH	Employability/ Entrepreneurship/ Skill Development - Giving insight of buildings/construction projects towards financial management.	2015-2016
114	Cell Biology	315BTT03	BT	Skill Development - This course enables students' skill in cellular signalling mechanisms, cellular regulations and cell culture techniques	2016-2017
115	Microbiology	315BTT04	BT	Skill Development- This course provides skills in microbial classification, identification and control	2016-2017
116	Cell Biology Lab	315BTP07	BT	Skill Development - This course provides basic skills on identification of cellular	2016-2017

PRINCIPAL
Adhiyamaan College of Engineering (Autonomous)
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				mechanisms	
117	Microbiology Lab	315BTP08	BT	Skill Development - This course enables skills on microbial culture techniques and identification of microorganisms	2016-2017
118	Instrumental Methods of Analysis Lab	315BTP09	BT	Skill Development - This course provides basic skills on biological instrumentation	2016-2017
119	Basic Industrial Biotechnology	315BTE01	BT	Skill Development - This course provides skills on production of biologically important products such as antibiotics, vitamins, alcohol, etc.,	2016-2017
120	Probability And Statistics	415PST01	BT	Skill Development - This course enables skills on design of experiments and research methodologies	2016-2017
121	Molecular Biology	415BTT02	BT	Skill Development - This course provides skills on genomic and plasmid DNA and RNA isolation, PCR based techniques and cloning and expression of vectors	2016-2017
122	Fundamentals of Unit Operations	415BTT04	BT	Skill Development - This course provides skills on bioreactor and heat transfer operations	2016-2017
123	Enzyme Technology	415BTT05	BT	Skill Development - This course provides skills on industrially important enzyme production and activity determination	2016-2017
124	Molecular Biology Lab	415BTP07	BT	Skill Development - This course provides skills on genomic and plasmid DNA and RNA isolation, PCR based techniques and cloning and expression of vectors	2016-2017
125	Enzyme Technology Lab	415BTP08	BT	Skill Development - This course provides skills on industrially important enzyme production and activity determination	2016-2017
126	Chemical Engineering Lab	415BTP09	BT	Skill Development - The course offers the students with the skill set of handling equipment related to heat transfer. The course offers a insight into the basic skill sets like understanding the thermodynamics of the reaction, thermodynamics related to the microbial growth and the product formation	2016-2017
127	Environmental Biotechnology	415BTE01	BT	Skill Development - This course provides skills on environmental studies, bioremediation and waste management	2016-2017
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 provides 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	2017-2018

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				equipment related to heat transfer. In addition, the course provides the students with a deeper insight into the diffusion, distillation, adsorption, extraction and leaching which is most important skills as a chemical process engineer	
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 the basic skill sets like understanding the thermodynamics of the reaction, thermodynamics related to the microbial growth and the product formation	2017-2018
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	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
140	Plant Biotechnology Laboratory	615BTP08	BT	Skill Development - The course is focussed in the manner to provide in-depth application-oriented skills like gene transfer in plants, transgenic and commercialization	2017-2018
141	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
142	Animal Biotechnology	711BTT01	BT	Skill Development - The course provides the students with the skill of animal disease, treatment, micromanipulation and transgenics animal technology	2014-2015
143	Plant Biotechnology	711BTT02	BT	Skill Development - The course is focussed in the manner to provide in-depth	2014-2015

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

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
				application-oriented skills like gene transfer in plants, transgenic and commercialization	
144	Downstream Processing	711BTT03	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	2014-2015
145	Health & Pharmaceutical Biotechnology	711BTT04	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	2014-2015
146	Disaster Management	711BTE05	BT	Skill Development - Aseismic design is mandatory as per IS recommendations. This course develops the skill set required for aseismic design of structures	2014-2015
147	Clinical Research And Database Management	711BTE06	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	2014-2015
148	Plant & Animal Biotechnology Laboratory	711BTP07	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	2014-2015
149	Downstream Processing laboratory	711BTP08	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	2014-2015
150	Communication Skills Laboratory	711BTP09	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.	2014-2015
151	Mini Project	711BTP10	BT	Employability - The Project work provides the student with the skill set of managing project, planning and execution. In addition, they provide the skill like report preparation, and presentation	2014-2015
152	Bioethics, IPR and Entrepreneurship	811BTT01	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	2014-2015
153	Molecular Pathogenesis	811BTE04	BT	Employability - Offers the student with therapeutics of diseases	2014-2015
154	Medical Coding	811BTE09	BT	Employability - The course provides the students with the skill of basics of medical codes and transcripts	2014-2015
155	Project Work	811BTP03	BT	Employability - The Project work provides the student with the skill set of managing project, planning and execution. In addition, they provide the skill like report preparation, and presentation	2014-2015

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

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156	Engineering Mathematics -III	315MAT01	BME	Skill Development-Students can acquire the knowledge to construct partial differential equations	2016-2017
157	Environmental Science and Sustainability	315GET02	BME	Skill Development-Helps to find and implement scientific, technological, economic and political solutions to environmental problems	2016-2017
158	Life Sciences – I	315BMT03	BME	Employability- Course helps to learn the anatomy of human body and diseases causing to the humans	2016-2017
159	Analog Electronics	315BMT04	BME	Skill Development-Students can able to get knowledge in Design circuits using diodes based on required output and apply suitable biasing circuits for BJT and FET	2016-2017
160	Data Structures & Object-Oriented Programming in C++	315BMT06	BME	Skill Development-This course helps to Gain the basic knowledge on Object Oriented Programming and develop Applications, and Implement Features of Object-Oriented Programming to Solve Real World Problems.	2016-2017
161	Life Sciences – I Lab	315BMP07	BME	Employability-This subject will help understood of how eye tests are conducted and demonstrated the contents of blood and how to analyze it	2016-2017
162	Analog & Digital Electronics Laboratory	315BMP08	BME	Skill Development-This subject will help understood the practical application of various electronic circuits like rectifiers, amplifiers.	2016-2017
163	Data Structures & Object Oriented Programming in C++Lab	315BMP09	BME	Skill Development-This subject will help the students to understand how to write a C Programming.	2016-2017
164	Signals and Systems	415ECT02	BME	Skill Development-This course will help the students to understand the types of signals and systems and how to analyze the signals.	2016-2017
165	Sensors and Measurements	415BMT03	BME	Skill Development-Get the knowledge about different types of sensors and measurement techniques	2016-2017
166	Medical Physics	415BMT04	BME	Skill Development-Gain the knowledge on light in medical applications and radiation effects on human body	2016-2017
167	Life Sciences - II	415BMT05	BME	Employability-Students will learn the basic features of chromatography and electrophoresis and to understand principle of microscopes.	2016-2017
168	Electromagnetic Field Theory	415BME07	BME	Skill Development-This course will help understood the coordinate systems and learn mathematical operations related to fields.	2016-2017
169	Life Science-II Laboratory	415BMP08	BME	Employability-Students can get practical knowledge on analysis of carbohydrates, lipids and proteins qualitatively and quantitatively	2016-2017
170	Sensors & Measurements Laboratory	415BMP09	BME	Skill Development-Students will learn the characteristics of sensors	2016-2017
171	Biomedical Instrumentation	515BMT01	BME	Employability-This course will help the students to understand about the different biomedical equipment used in the hospitals and get job in the hospitals and	2017-2018

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

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				industries.	
172	Microprocessor and Microcontroller	515ECT03	BME	Skill Development-This course enables students to understand the architecture and assembly language programming of microprocessors and microcontrollers	2017-2018
173	Bio Control Systems	515BMT04	BME	Skill Development-Students can able to get knowledge on control system concept and different mathematical techniques applied in analysing any given system	2017-2018
174	Analog & Digital Communication	515BMT05	BME	Skill Development-Provides the knowledge different modulation and demodulation techniques used in signal communication	2017-2018
175	Virtual Instrumentation	515BOE06	BME	Skill Development-This course enables students to understand various programming techniques in virtual instrumentation	2017-2018
176	Biomedical Instrumentation Lab	515BMP07	BME	Employability-Provides practical knowledge to handle biomedical equipment's used for in medical applications and helps to get job in healthcare sector	2017-2018
177	Digital Signal Processing Lab	515BMP09	BME	Skill Development-Students can design and analyse various filter techniques using MATLAB.	2017-2018
178	Diagnostic Equipment	615BMT01	BME	Employability-Helps to understand the diagnosis of various diseases using diagnostic equipment	2017-2018
179	Therapeutic Equipment	615BMT02	BME	Employability-This course will help the students to understand different equipment's used to treat the diseases of the patients.	2017-2018
180	Radiological Equipments	615BMT03	BME	Employability-Provides knowledge on how the radiations are used for diagnosis and treatment of diseases using radiological equipment	2017-2018
181	Medical Embedded Systems	615BMT04	BME	Skill Development-This course will help the architecture and programming of ARM processor and outline the concepts of embedded systems	2017-2018
182	Biomaterials & Artificial Organs	615BMT05	BME	Employability-Student can learn the different biomaterials used in the body for the implantable devices.	2017-2018
183	Medical Safety & Quality Assurance	615BME06	BME	Employability-Enable students to understand medical safety standards used for the medical equipment	2017-2018
184	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
185	Employability Skills Lab	615BMP09	BME	Employability-Enhances the employability skills of students with a special focus on presentation skills, group discussion skills and interview skills	2017-2018
186	Medical Optics	711BMT01	BME	Skill Development-This course will help the students to understand the optical principles used in different medical applications	2014-2015
187	Medical Informatics	711BMT03	BME	Skill Development-Students can able to analyse the role of informatics in engineering and medicine	2014-2015
188	Pattern Recognition and Neural	711BMT04	BME	Skill Development-This course will help the students to understand the different	2014-2015

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

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	Networks			algorithms used in the pattern recognition and neural networks.	
189	ICU & Operation theatre Equipments	711BME05	BME	Employability-This course will help the students to understand the various equipment's used in the ICU and Operation Theatres	2014-2015
190	Digital Image Processing Lab	711BMP12	BME	Skill Development-Provides practical knowledge on the medical image processing using MATLAB	2014-2015
191	Electronics Design Lab	711BMP13	BME	Skill Development-Students can design different electronics circuits and develop their employability skills required to industry	2014-2015
192	Hospital Engineering and Management	811BMT01	BME	Entrepreneurship-Enables students to understand fundamentals of hospital administration and management	2014-2015
193	Advanced Medical Instruments	811BME04	BME	Employability-This course will help the students to understand the various biomedical equipment used in the hospital.	2014-2015
194	Assist Devices	811BME07	BME	Employability-This course focuses on orthotic and prosthetic medical devices	2014-2015
195	Project Work	811BMP09	BME	Employability-Students can learn to conceptualize idea, verify system results through various simulation software pertaining to that field and can develop prototype of the system. This will enhance students' ability to provide solutions to real life problems, which increases probability of better employment and entrepreneurship	2014-2015
196	Introduction To Chemical Engineering	215EST05	CH	Skill development- knowledge of chemical engineering and concept about unit operations and process calculations, concepts and applications regarding flow of fluids, of heat and mass transfer operations	2015-2016
197	Organic Chemistry	315CHT03	CH	Skill development- Concepts related to the reaction mechanisms, rearrangements and synthesis of new compounds will develop their skills	2016-2017
198	Chemical Process Calculations	315CHT04	CH	Skill development/Employability-The knowledge of material and energy balance calculations on different Unit operations and Unit process will enhance their employability and skills	2016-2017
199	Principles of Electrical and Electronics Engineering	315EET05	CH	Skill development- Understands the construction, working of electric drives, functioning of motors and circuits at various states	2016-2017
200	Green Chemistry and Engineering	315CHE03	CH	Skill development- Understanding of green chemistry principles, green solvents, reactor design will enhance their skill	2016-2017
201	Material Technology	315CHE05	CH	Employability- Understand the properties of materials and criteria for selecting the material and describe the composite materials, its importance and the different applications	2016-2017
202	Organic Chemistry Laboratory	315CHP07	CH	Employability- Anlayse the nature of organic compound, characteristics of various functional groups	2016-2017
203	Technical Analysis Laboratory	315CHP08	CH	Employability-Analyse the properties of various chemical products will enhance the	2016-2017

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

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				employability in quality analysis.	
204	Electrical Engineering Laboratory	315CHP09	CH	Skill development- Concepts in the areas of characteristics of DC generators, and DC motors, AC motors & transformers	2016-2017
205	Numerical Methods	415NMT01	CH	Skill development- Able to solve trial and error problems through iterations, interpolations, initial and final value conditions	2016-2017
206	Physical Chemistry	415CHT02	CH	Employability- Understands the concepts regarding to thermo chemical reactions, Distribution law, types of colloids, electrochemistry	2016-2017
207	Instrumental Methods of Analysis	415CHT03	CH	Employability- Understand the principles of various spectroscopic, chromatographic, and electro anlaysis techniques and analyse the quality of chemical products.	2016-2017
208	Chemical Engineering Fluid Mechanics	415CHT04	CH	Skill development-Knowledge on types of fluid flow and also on the discharge measurement by using different equipment at different conditions, Fluid properties, their characteristics while static and during flow through ducts, pipes and porous medium, types of forces, losses and several machineries to transport the fluid and their performance.	2016-2017
209	Mechanical Operations	415CHT05	CH	Skill development-Decide the usage of equipment for industrial application with respect to size reduction, equipment to screen, different blends and mixing techniques, various filtration equipment's and thickeners	2016-2017
210	Renewable Energy Technologies	415CHE03	CH	Entrepreneurship-Recognize the renewable energy sources with their situation and exploration, energy conversion systems in wind and geothermal energy, solar and ocean energy harnessing, biomass and biogas conversion and its application, Fuel and MHD in industries	2016-2017
211	Fluid Mechanics Laboratory	415CHP07	CH	Skill development- Estimate the coefficient of discharge for flow through open and closed channels, show relationship between Reynolds number and friction factor, fluid flow in circular pipes, orifice and venture meters, coefficient of rectangular and triangular notches, characteristic studies of submersible and centrifugal pump	2016-2017
212	Physical Chemistry Laboratory	415CHP08	CH	Skill development-Understand the principles, properties and characteristics of solvents and mixtures, molecular weight of solute using different methods	2016-2017
213	Mechanical Operations Laboratory	415CHP09	CH	Skill development-Able to determine work index, average particle size through experiments by crushers, ball mill, rod mill and conducting size analysis by various size sieves, design size separation equipment's such as cyclone separator, pressure and vacuum filters, determine thickener area	2016-2017
214	Chemical Engineering Thermodynamics	515CHT01	CH	Skill development- Able to learn terminology associated with engineering thermodynamics, design and analyze of the open and closed system in chemical process plants, Predict the changes in the properties of real fluids, vapour-liquid or liquid-liquid equilibria of ideal and non-ideal chemical mixtures, equilibrium	2017-2018

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

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
				constants, standard enthalpy, Gibbs free energy and equilibrium compositions for single and multiple reaction systems	
215	Chemical Process Industries	515CHT02	CH	Skill development- Concepts on various aspects of process industries and understands the methods of production of different chemicals, plant and equipment design	2017-2018
216	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
217	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
218	Process Instrumentation	515CHE01	CH	Skill development- Able to determine thermal conductivity for various conductors and Stefan Boltzmann constants, experimental data to evaluate heat transfer co-efficient and evaluate performance of different types of equipment's including heat exchangers, condensers	2017-2018
219	Biotechnology and its applications	515BTO05	CH	Skill development- Able to understand the basics of fermentation techniques, various industrially important biological products production	2017-2018
220	Heat Transfer Laboratory	515CHP07	CH	Skill development-the thermal conductivity for various conductors and Stefan Boltzmann constants, evaluate heat transfer co-efficient and evaluate performance of different types of equipment's including heat exchangers, condensers, heat transfer co-efficient under natural and forced convection mode of heat transfer	2017-2018
221	Chemical Engineering Computation Laboratory	515CHP08	CH	Skill development-Equipped with the software applications and the numerical solutions of chemical engineering problems, optimize the various factors using the computational techniques	2017-2018
222	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
223	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
224	Chemical Reaction Engineering	615CHT02	CH	Skill development-Apply the basic principles of reaction kinetics, reactor design and non-idealist in reactors in process industries, choose a suitable single or multiple reactor system, design a reactor, non-ideal flow reactors, concept of heterogeneous	2017-2018

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

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
				reactions	
225	Process Dynamics and Control	615CHT03	CH	Skill development-Able to design of process control systems, suggest the suitable advanced controllers for different chemical process	2017-2018
226	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
227	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
228	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
229	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
230	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
231	Chemical Engineering Plant Design and Economics	711CHT01	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	2014-2015
232	Transport Phenomena	711CHT02	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	2014-2015
233	Chemical Reaction Engineering – II	711CHT03	CH	Skill development-Able to evaluate the temperature and pressure effects in ideal reactors, nature of fluid – solid and gas – liquid non catalytic reactions and selection of reactors, catalysis process, mechanism, pore diffusion in catalyst, and operation of heterogeneous catalytic reactors	2014-2015
234	Biochemical Engineering	711CHT04	CH	Employability-Knowledge of microorganisms and enzymes to study different biochemical reactions and rate equations, transport mechanisms including mass transfer and heat transfer and sterilization concepts to design and analyze bioreactors, various downstream processing for product recovery and purification and design of industrial bioreactors	2014-2015
235	Modern Separation Techniques	711CHE05	CH	Skill development-Analyze different types of separation techniques based on size,	2014-2015

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

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				surface properties, cross flow filtration, design equations for membrane separation processes such as RO&UF, affinity and immune chromatographic columns	
236	Membrane Technology	711CHE06	CH	Skill development-understand the purpose of membrane filtration process, different types of membrane process, design various membrane process	2014-2015
237	Food Technology	711CHE08	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	2014-2015
238	Fertilizer Technology	711CHE11	CH	Skill development-Familiarize the production, characteristics, storage and handling of nitrogenous fertilizers, of phosphatic and potassic fertilizers, production, characteristics, storage and handling of complex and miscellaneous fertilizers	2014-2015
239	Chemical Process Equipment Design & Drawing Lab – II	711CHP07	CH	Employability- Design and draw heat and mass transfer equipment's, various heads in chemical plants	2014-2015
240	Chemical Reaction Engineering Lab	711CHP08	CH	Employability- Estimate the rate constant of a chemical reaction through performance analysis of PFR, PBR, CSTR and RTD in reactors and kinetics studies	2014-2015
241	Technical Seminar & Report Writing	711CHP09	CH	Employability-Study and present a seminar on a topic of current relevance in chemical engineering or allied areas	2014-2015
242	Total Quality Management	811CHT01	CH	Entrepreneurship-Knowledge on quality, analysis techniques for quality costs, role of senior management, quality systems and need of quality systems.	2014-2015
243	Oil and Natural Gas Engineering	811CHE02	CH	Skill development-Able to learn properties and composition of cure oil and production of natural gas, properties processing of natural gas, environmental aspects of gas processing	2014-2015
244	Pollution Control in Process Industries	811CHE05	CH	Skill development- Able to classify the different types of pollutants and control of air pollution, treatment methods of wastewater and solid wastes, design air pollution control equipment	2014-2015
245	Corrosion Engineering	811CHE10	CH	Skill development-Principles of Corrosion and understand the environmental effects, different types of corrosion and corrosion testing methods, design and apply modern protection coatings	2014-2015
246	Piping Engineering	811CHE12	CH	Skill development-Understand the nature of compressible and incompressible fluids, design and operation of pipeline, maintenance of pipe lines	2014-2015
247	Project Work and Viva-Voce	811CHP04	CH	Employability/ Entrepreneurship/ Skill development- Able to apply the concepts of Chemical Engineering to solve the existing real time industrial and societal issues	2014-2015
248	Applied Geology	315CET03	CE	Employability -gain knowledge on the elementary concepts of Geology in Civil Engineering	2016-2017
249	Mechanics of Solids	315CET04	CE	Employability-gain knowledge on stress, strain and material properties used in	2016-2017

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

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				construction industry	
250	Mechanics of Fluids	315CET05	CE	Employability-gain knowledge in behaviour and design of hydraulic structures	2016-2017
251	Surveying - I	315CET06	CE	Entrepreneurship/Skill Development - To possess the knowledge on Classification of Surveying. To impart knowledge on applications of levelling in Engineering field.	2016-2017
252	Advanced Construction Techniques	315CEE01	CE	Entrepreneurship - gain knowledge in various building materials and construction techniques	2016-2017
253	Construction resource Planning & Management	315CEE02	CE	Entrepreneurship - knowledge on Construction planning & scheduling helps in High profile construction companies	2016-2017
254	Construction Planning & Orientation	315CEE03	CE	Entrepreneurship - gain knowledge in project monitoring and controlling	2016-2017
255	Building Materials & Construction Practice	315CEE04	CE	Skill development -gain knowledge in testing of various building materials used in construction	2016-2017
256	Surveying Practice - I	315CEP08	CE	Entrepreneurship/Skill Development -gain knowledge in various surveying techniques and equipment's which enhances employment opportunities	2016-2017
257	Strength of Materials Laboratory	315CEP09	CE	Skill Development -gain knowledgen in testing materials for strength	2016-2017
258	Geotechnical Engineering	415CET03	CE	Employability-gain knowledge on deformation and strains under different load action and response in terms of forces and moments	2016-2017
259	Transportation Engineering - I	415CET04	CE	Employability-to understand, soil as an engineering material the load- deformation behaviour, through its index and engineering properties	2016-2017
260	Applied Hydraulic Engineering	415CET05	CE	Employability-helps in planning and design of highway structures	2016-2017
261	Hydrographic Surveying in detail	415CEE01	CE	Employability- Concepts of fluid mechanics and applications to fluid machinery will enable the students to perform better as an engineer during their employability	2016-2017
262	Aerial Surveying in detail	415CEE02	CE	Skill Development - gain knowledge in various surveying techniques and equipment's which enhances employment opportunities	2016-2017
263	Lidar Surveying	415CEE03	CE	Skill Development - gain knowledge in various surveying techniques and equipment's which enhances employment opportunities	2016-2017
264	Surveying - II	415CEE04	CE	Skill Development - gain knowledge in various surveying techniques and equipment's which enhances employment opportunities	2016-2017
265	Photogrammetric Surveying & Image processing	415CEE05	CE	Entrepreneurship/Skill Development -gain knowledge in various surveying techniques and equipment's which enhances employment opportunities	2016-2017
266	Building Planning and Drawing	415CEP07	CE	Entrepreneurship/Skill Development - gain knowledge in various surveying techniques and equipment's which enhances employment opportunities	2016-2017
267	Hydraulic Engineering Laboratory	415CEP08	CE	Skill Development - gain knowledge in preparing plan and building drawings	2016-2017

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

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268	Surveying Practice - II	415CEP09	CE	Skill Development -gain knowledge on various hydraulic engineering problems like open channel flows and hydraulic machines	2016-2017
269	Concrete Technology	515CET01	CE	Employability- This course develops skills in concreting technology	2017-2018
270	Structural Analysis - I	515CET02	CE	Employability-gain basic knowledge on analysing structures	2017-2018
271	Design of RCC Structures	515CET03	CE	Skill Development -Design skill of RC members helps in design of safe and stable RC structures	2017-2018
272	Water Supply Engineering	515CET04	CE	Employability-gain knowledge in water supply system	2017-2018
273	Foundation Engineering	515CET05	CE	Employability-suggest and design a suitable foundation for a structure depending on the type of soil. Also understand and analyze different types of earth pressure and perform stability checks for retaining wall	2017-2018
274	Water Shed Management	515CEE04	CE	Employability - gain knowledge in modern techniques and manage storm water and flood	2017-2018
275	Geotechnical Engineering Laboratory	515CEP07	CE	Skill Development - knowledge on soil tests and investigations helps in civil engineering projects	2017-2018
276	Public Health Engineering Laboratory	515CEP08	CE	Skill Development - gain knowledge on water testing and environmental pollutants	2017-2018
277	Extensive Survey Camp (Two Weeks)	515CEP09	CE	Entrepreneurship/Skill Development -through hands on training and applications on survey methods and equipment's helps in employability opportunities as a surveyor	2017-2018
278	Structural Analysis - II	615CET01	CE	Employability-gain knowledge in analysis of structures to find design forces	2017-2018
279	Design of Steel Structures	615CET02	CE	Skill Development -Design of steel structures as per IS codes is essential for a civil engineer. He can design steel structures such as beams, columns, roof truss, gantry girder, etc.	2017-2018
280	Sanitary Engineering	615CET03	CE	Employability-gain knowledge to design various unit operations and processes for sewage treatment system and hence can handle waste water disposal issues	2017-2018
281	Transportation Engineering - II	615CET04	CE	Employability-gain skills to plan and design Railways, Airports and Harbour structures	2017-2018
282	Irrigation Engineering	615CET05	CE	Employability-design skills for irrigation structures enhance their placement opportunities in the Civil consultancy offices	2017-2018
283	Pre-fabricated Structures	615CEE02	CE	Entrepreneurship-Prefabricated structures is the innovative construction practice and useful for placements	2017-2018
284	Earthquake Resistant Structures	615CEE03	CE	Employability-knowledge on earthquake resistant structures will enhance job opportunities in large scale earthquake resistant projects	2017-2018
285	Design of PSC Structures	615CEE04	CE	Skill Development -Knowledge of prestressed concrete structures helpful in large span bridge and building construction projects	2017-2018

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Dr.M.G.R. Nagar, HOSUR-635130

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
286	Smart Structures	615CEE05	CE	Employability-Work with various types of Sensors used in smart structures	2017-2018
287	Concrete and Highway Laboratory	615CEP07	CE	Skill Development -Find out the properties of cement, aggregate,bitumen,concrete.	2017-2018
288	Computer Aided Design - I	615CEP08	CE	Entrepreneurship/Skill Development -gain knowledge on software used for drafting and it helps in employment opportunities	2017-2018
289	Irrigation Drawing	615CEP10	CE	Skill Development - Design and draft the various components of the Tank. Design and draft the various irrigation impounding structures.	2017-2018
290	Environmental Engineering Drawing	615CEP11	CE	Skill Development -gain knowledge on water testing and environmental pollutants	2017-2018
291	Steel Structural Drawing	615CEP12	CE	Entrepreneurship/Skill Development -gain knowledge on software used for drafting and it helps in employment opportunities	2017-2018
292	Bridge Engineering Drawing	615CEP13	CE	Skill Development -This course enhances the skill set in design of structural members in particular the design of members in a bridge	2017-2018
293	RCC Structural Drawing	615CEP14	CE	Skill Development -gain knowledge on software used for drafting and it helps in employment opportunities	2017-2018
294	Construction Management	711CET01	CE	Skill Development -gain knowledge on software used for drafting and it helps in employment opportunities	2014-2015
295	Estimation and Quantity Surveying	711CET02	CE	Entrepreneurship/Skill Development -Knowledge in cost estimation and valuation enhances the job opportunity in the construction field	2014-2015
296	Remote Sensing & GIS	711CET03	CE	Employability-gain knowledge on different types types of remote sensing platforms and sensors	2014-2015
297	Concrete Technology & Pre-stressed Concrete	711CET04	CE	Employability- This course develops skills in concreting technology	2014-2015
298	Repair and Rehabilitation of Structures	711CEE07	CE	Entrepreneurship-knowledge on repair and rehabilitation of structures will enhance the jobs related to civil consultancy services	2014-2015
299	Instrumentation for Civil Engineers	711CEE10	CE	Entrepreneurship - gain knowledge about measuring techniques in smart structures.	2014-2015
300	Computer Aided Design Laboratory – II	711CEP07	CE	Entrepreneurship/Skill Development -gain knowledge on software used for drafting and it helps in employment opportunities	2014-2015
301	Concrete & Highway Materials Laboratory	711CEP08	CE	Skill Development -find the mechanical properties of concrete and assess the quality of bitumen through laboratory tests.	2014-2015
302	Bridge Engineering	811CET01	CE	Skill Development -This course enhances the skill set in design of structural members in particular the design of members in a bridge	2014-2015
303	Valuation of Real Properties	811CET02	CE	Entrepreneurship - analyse the valuation of residential, commercial and industrial	2014-2015

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

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				buildings. Also gain comprehensive knowledge related to the investment of finance in real properties	
304	Reinforced Earth and Earth Retaining Structures	811CEE02	CE	skill development - design skill on masonry and RC structures is an important skill for a civil Engineer	2014-2015
305	Ground Water Engineering	811CEE05	CE	Employability - Enhance the knowledge on well characteristics and groundwater exploration.	2014-2015
306	Skill Development Laboratory	811CEP05	CE	Entrepreneurship/ Skill Development - gain field knowledge in vrious Civil Engineering subjects	2014-2015
307	Data Structures	315CST04	CSE	Employability -Enhancing the problem-solving Skills through the knowledge of data structures	2016-2017
308	Data Structures Laboratory	315CSP08	CSE	Employability -Enhancing the problem-solving Skills through the knowledge of data structures	2016-2017
309	Discrete Mathematics and Graph Theory	415DMT01	CSE	Skill Development -Course enables students to apply Maths for Computer Science	2016-2017
310	Software Engineering	415CST04	CSE	Employability -Exposure to discipline of software development life cycle models	2016-2017
311	Unix Internals	415CSE01	CSE	Skill Development - This course is designed to enable the student to use the UNIX operating system.	2016-2017
312	Formal Languages and Automata Theory	415CSE04	CSE	Skill Development- working with automata	2016-2017
313	PC Hardware and Trouble shooting	415CSE05	CSE	Employability/Entrepreneurship/Skill Development - working with system hardware	2016-2017
314	Probability and Queuing Theory	515PQT01	CSE	Employability, Skill Development - Student can understand the basic concepts of random processes which are widely used in IT fields	2017-2018
315	Micro-Processor and Microcontroller with Applications	515CST02	CSE	Skill Development- working with assembler devices	2017-2018
316	Modeling and Design	515CST03	CSE	Skill Development- testing software models and designs	2017-2018
317	Theory of Computation	515CST04	CSE	Skill Development - Course helps to construct various mathematical models	2017-2018
318	Micro-Processor and Microcontroller Laboratory	515CSP07	CSE	Skill Development- implementing assembler devices	2017-2018
319	Modeling and Design Laboratory	515CSP08	CSE	Skill Development- implementing software models and designs	2017-2018
320	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
321	C# and .NET Programming	515CSE07	CSE	Skill Development -This course enables the student to develop real time-based	2017-2018

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

ADHIYAMAAN COLLEGE OF ENGINEERING
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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
				solutions using C# and .NET Framework	
322	Computer Graphics and Multimedia Systems	515CIE08	CSE	Employability -Developing multimedia-based applications	2017-2018
323	Advanced Java Programming	515CSE09	CSE	Skill Development -This course enables the student to develop object oriented based solutions using java programming language	2017-2018
324	Network Protocols	515CSE10	CSE	Skill Development- working with network protocols	2017-2018
325	Agent Based Intelligent system	515CSE11	CSE	Skill Development- working with system hardware	2017-2018
326	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
327	Mobile Application Development	615CST03	CSE	Employability/Entrepreneurship - developing mobile application	2017-2018
328	Web Programming	615CST04	CSE	Skill Development - Course provides Skills for applying Web Programming concepts	2017-2018
329	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
330	Mobile Application Development Laboratory	615CSP08	CSE	Entrepreneurship - implementing mobile applications	2017-2018
331	Web Programming Laboratory	615CSP09	CSE	Skill Development - Course provides Skills for applying Web Programming concepts with safe and secure usage and storage of data.	2017-2018
332	Resource Management Techniques	615RMT05	CSE	Entrepreneurship - Student will learn about various resource can be allocated for a project	2017-2018
333	Service Oriented Architecture	615CSE07	CSE	Skill Development - This course, students can gain knowledge SOA (Service-Oriented Architecture) to structure web-based systems.	2017-2018
334	Parallel and Distributed Computing	615CSE08	CSE	Skill Development - This course covers a broad range of topics related to parallel computing.	2017-2018
335	Soft Computing	615CSE09	CSE	Skill Development - Students can able to apply evolutionary algorithms in hybrid soft computing techniques	2017-2018
336	Pervasive Computing	615CSE10	CSE	Employability - Developing mobile applications	2017-2018
337	Mainframe Technologies	615CSE11	CSE	Skill Development- designing mainframe of systems	2017-2018
338	XML and Web Services	615CSE12	CSE	Employability - executing web services and XML files	2017-2018
339	Open Source Software	711CST03	CSE	Skill Development - Provides an opportunity to Improving accessibility and access to higher education.	2014-2015
340	Object Oriented System Analysis and Design	711CST04	CSE	Skill Development -This course enables the students to analyse, design a software system or business by using Object Oriented concepts.	2014-2015
341	Web Technology & OSS Lab	711CSP07	CSE	Skill Development - Course provides Skills for applying Web Programming concepts with safe and secure usage and storage of data.	2014-2015

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

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
342	Mini Project	711CSP09	CSE	Skill Development - This course helps the students to develop projects using recent technologies.	2014-2015
343	User Interface Design	711CIE02	CSE	Skill development -This course helps the student to explore various tools and utilities to develop front-end applications	2014-2015
344	Professional Ethics	711CIE08	CSE	Skill Development - This course, Student can able to Identify the basic tenets of leadership and to become a worthy professional.	2014-2015
345	Distributed Database	711CSE09	CSE	Skill Development- working with database	2014-2015
346	Software Quality Assurance	811CST01	CSE	Employability -Exposure to discipline of software development life cycle models	2014-2015
347	Software Quality management	811CSE02	CSE	Employability -Exposure to discipline of software development life cycle models	2014-2015
348	Open Source Tools	811CSE11	CSE	Employability - working with open-source tools	2014-2015
349	Engineering Mathematics-III	315MAT01	ECE	Employability-This course will help the students to model the real-life problems	2016-2017
350	Data Structures and Object Oriented Programming in C++	315ECT03	ECE	Employability/Skill Development-Students can learn and write C++ programs for real-time applications	2016-2017
351	Digital Electronics	315ECT04	ECE	Employability-Provides knowledge in Integrated Circuits which avails the student employment in core industry	2016-2017
352	Analog Electronics - I	315ECT05	ECE	Employability-Students can design and test analog circuits such as amplifiers and in electronic system design	2016-2017
353	Data Structure and Object Oriented Programming in C++ Laboratory	315ECP07	ECE	Employability/Skill Development-Students can learn and write C++ programs for real-time applications	2016-2017
354	Digital Electronics Laboratory	315ECP08	ECE	Employability-Provides knowledge in Integrated Circuits which avails the student employment in core industry	2016-2017
355	Analog Electronics-I Laboratory	315ECP09	ECE	Employability-Students can design and test analog circuits such as amplifiers and in electronic system design	2016-2017
356	Probability and Random Processes	415PRT01	ECE	Skill Development-Provides the fundamentals of probability logic and statistics in building analytics-based solutions.	2016-2017
357	Signals and Systems	415ECT02	ECE	Skill Development-Able to test analog and digital signals and process the same in real time applications.	2016-2017
358	Linear Integrated Circuits	415ECT03	ECE	Skill Development-Provide knowledge in usage of IC's, designing and developing theoretical device/circuit operation of digital circuits	2016-2017
359	Analog Electronics -II	415ECT04	ECE	Employability-Students can design and test analog circuits such as amplifiers and oscillators	2016-2017
360	Linear Integrated Circuit Laboratory	415ECP07	ECE	Skill Development-Provide knowledge in usage of IC's, designing and developing theoretical device/circuit operation of digital circuits	2016-2017

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Dr.M.G.R. Nagar, HOSUR-635130

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
361	Analog Electronics-II Laboratory	415ECP08	ECE	Employability-Students can design and test analog circuits such as amplifiers and oscillators	2016-2017
362	Industrial Electronics	415ECE01	ECE	Entrepreneurship-This course provide an opportunity to develop industry need based applications	2016-2017
363	Consumer Electronics	415ECE02	ECE	Employability-This course provide an opportunity to develop consumer need-based applications	2016-2017
364	Green Electronics	415ECE03	ECE	Employability-This course provide an opportunity to develop socio-environmental need-based applications	2016-2017
365	Optoelectronic Devices	415ECE04	ECE	Employability-This course provide an opportunity to develop optoelectronic based applications	2016-2017
366	PCB Design	415ECE05	ECE	Employability-This Course content to help the students to build the PCB circuits	2016-2017
367	Solid State Devices	415ECE06	ECE	Employability- Provides knowledge in Solid State Devices to get employment in core industry	2016-2017
368	Digital Signal Processing	515ECT02	ECE	Employability-Able to design analog and digital filters in signal processing	2017-2018
369	Microprocessors and Microcontrollers	515ECT03	ECE	Employability-Students can work in controller programming to control various real-time applications	2017-2018
370	Computer Communication and Networks	515ECT04	ECE	Employability-Students can design and analyse various computer network protocols for real-time applications	2017-2018
371	Digital Signal Processing Laboratory	515ECP07	ECE	Employability-Able to design analog and digital filters in signal processing	2017-2018
372	Microprocessors and Microcontrollers Laboratory	515ECP08	ECE	Employability-Students can work in controller programming to control various real-time applications	2017-2018
373	Computer Networks Laboratory	515ECP09	ECE	Employability-Students can design and analyse various computer network protocols for real-time applications	2017-2018
374	VLSI Design	615ECT02	ECE	Employability/Skill Development- Provides a chance to work in VLSI semiconductor industry to design and fabricate integrated circuits	2017-2018
375	Digital Communication	615ECT03	ECE	Skill Development-Gives the ability to design various digital communication modules in tele-communication industry	2017-2018
376	Antenna and Wave Propagation	615ECT04	ECE	Skill Development-Gives the ability to design and analyse various antenna modules in communication industry	2017-2018
377	Employability Skills Laboratory	615ECP07	ECE	Employability/Skill development- Provides career by enhancing employability and industry need skills.	2017-2018
378	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

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Dr.M.G.R. Nagar, HOSUR-635130

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
379	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
380	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
381	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
382	Information Theory and Coding	615ECE04	ECE	Employability-Information coding techniques knowledge helps in abstract modelling and designing systems	2017-2018
383	Professional Ethics and Human Values	711ECT01	ECE	Employability-Provides knowledge on code of ethics that a student has to follow in an organization.	2014-2015
384	Embedded Systems	711ECT02	ECE	Employability/Entrepreneurship/Skill Development-Enables the student to learn various embedded system concepts	2014-2015
385	Optical Communication	711ECT03	ECE	Employability/Skill Development- Gives the ability to design various optical communication modules in communication industry	2014-2015
386	Microwave Engineering	711ECT04	ECE	Employability/Skill Development- Gives the ability to design various microwave communication modules in communication industry	2014-2015
387	Electronic System Design Laboratory	711ECP07	ECE	Employability/Skill Development-students can design and test electronic circuits	2014-2015
388	Optical and Microwave Laboratory	711ECP08	ECE	Employability/Skill Development- Gives the ability to design various microwave and optical communication modules in communication industry	2014-2015
389	Mini Project	711ECP09	ECE	Employability/Entrepreneurship/Skill Development-Students can develop various projects using recent technologies.	2014-2015
390	Principles of Management	711ECE04	ECE	Entrepreneurship/ Employability-This course help in managing and maintaining the aspects with respect to administration and productivity.	2014-2015
391	RTOS	711ECE06	ECE	Skill Development-Student can learn about Real Time Operating System.	2014-2015
392	Television and Video Engineering	711ECE08	ECE	Employability- Able to analyse and troubleshoot the problems in Television modules	2014-2015
393	High Speed Networks	711ECE09	ECE	Employability - Students can develop and test high speed networks in communication industry	2014-2015
394	Cellular and Mobile Communication	811ECT01	ECE	Employability - Gives the ability to design various mobile communication modules in communication industry	2014-2015
395	Satellite Communication	811ECE01	ECE	Skill Development-Gives the ability to design various communication modules in communication industry	2014-2015

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Dr.M.G.R. Nagar, HOSUR-635130

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396	Telecommunication Switching and Networks	811ECE02	ECE	Skill Development-Gives the ability to design various communication modules in communication industry	2014-2015
397	Wireless networks	811ECE03	ECE	Skill Development-Gives the ability to design various wireless network protocols in communication industry	2014-2015
398	Microwave Integrated Circuits Design	811ECE06	ECE	Employability - Provides an opportunity to design and analyse microwave systems in industry	2014-2015
399	Total Quality Management	811ECE09	ECE	Employability- Concepts in TQM is required for Managerial concepts	2014-2015
400	Mobile Adhoc Networks	811ECE11	ECE	Skill Development-Students can compare and analyze ad hoc network protocol performance and related security threats	2014-2015
401	ARM System Architecture & applications	811ECE12	ECE	Employability- Students can design real time applications-based ARM processors	2014-2015
402	Intellectual Property Rights	811ECE16	ECE	Skill Development-Students can understand the various IPR and its advantages	2014-2015
403	Network Analysis and Synthesis	315EET03	EEE	Skill Development- This course deals with design of filter etc so that students develop their designing skills	2016-2017
404	Electromagnetic Theory	315EET04	EEE	Employability- This course deals with the real time applications of electromagnetic circuits which enhances the employability skills of the students.	2016-2017
405	Measurements and Instrumentation	315EEE06	EEE	Entrepreneurship- This course offers the knowledge about the real time application and procedure of instrumentation which help the student to get involved in manufacturing industries.	2016-2017
406	Linear Integrated Circuits Lab	315EEP07	EEE	Skill Development- This course develops the practical knowledge about op amp and other IC characteristics by practicing the lab experiments.	2016-2017
407	Measurements and Instrumentation Lab	315EEP08	EEE	Skill Development- This course gives the knowledge to develop the instrumentation handling skills.	2016-2017
408	Electrical and Electronics Circuits simulation Lab	315EEP09	EEE	Skill Development-This course develops the knowledge in real time simulation of electrical and electronics circuits by practicing the lab experiments.	2016-2017
409	Digital Electronic Circuits	415EET03	EEE	Skill Development- This course offers the knowledge to develop the skill about synchronous and asynchronous circuits.	2016-2017
410	Power Generation Systems	415EET04	EEE	Employability-This course provides the knowledge of various methods of electrical power generation by renewable and non renewable sources that makes the students employable in those fields.	2016-2017
411	Electrical Machines – I	415EET05	EEE	Employability- This Course provides the knowledge about the D.C electrical machines and Transformers.	2016-2017
412	Control Systems Laboratory	415EEP07	EEE	Skill Development-This programme develops the knowledge in Transfer Function and stability concepts by practicing the lab experiments.	2016-2017

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

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
413	Electrical Machines Laboratory-I	415EEP08	EEE	Skill Development-This course develops the knowledge in real time application of D.C machines and transformer by practicing the lab experiments.	2016-2017
414	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
415	Advanced Control Theory	515EET03	EEE	Skill Development- This course explains the concept of stability analysis in nonlinear systems which develop the analytical skills.	2017-2018
416	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
417	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
418	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
419	Electrical Machines Laboratory – II	515EEP07	EEE	Skill Development-This course develops the knowledge in real time application of A.C machines by practicing the lab experiments.	2017-2018
420	Digital Electronics Laboratory	515EEP09	EEE	Skill Development-This course develops the knowledge in real time applications of digital electronics by practicing the lab experiments.	2017-2018
421	Electrical Machine Design	615EET01	EEE	Entrepreneurship- This course deals with the designing of DC and AC machines which develops the entrepreneurship skills.	2017-2018
422	Power Electronics	615EET02	EEE	Employability- This course deals with the characteristics of power electronics devices.	2017-2018
423	Power System Analysis and Stability	615EET03	EEE	Skill Development- This course deals with the stability analyis of power system which ensures the development of analytical skill.	2017-2018
424	High Voltage Engineering	615EET04	EEE	Skill Development- This course deals with the generation and testing of high voltage.	2017-2018
425	Advanced Power Semiconductor Devices	615EEE04	EEE	Skill Development- This course deals with the internal structure and characteristics of various semiconductor devices.	2017-2018
426	Electrical Safety, Operation, Regulations	615EEE05	EEE	Employability- This course discusses about the electrical safety measures and the standards	2017-2018
427	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
428	Employability Skills Lab	615EEP08	EEE	Employability- This course enhances the employability skills of the students by developing conversation and discussion abilities.	2017-2018
429	Electronic System Design lab	615EEP09	EEE	Skill Development-This course helps the students to design and develop electronic	2017-2018

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

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				circuits.	
430	Power System Operation and Control	711EET01	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.	2014-2015
431	Electric Drives and Control	711EET02	EEE	Entrepreneurship-This course provides details of DC and AC drives and their characteristics.	2014-2015
432	Special Electrical Machines	711EET03	EEE	Skill Development- This course provides the knowledge of principles, characteristics and applications of certain special machines.	2014-2015
433	High Voltage Engineering	711EET04	EEE	Skill Development- This course deals with the generation and testing of high voltage.	2014-2015
434	VLSI Design	711EEE01	EEE	Skill Development- This course provide the designing skill in VLSI domain.	2014-2015
435	Electric Drives and Control Laboratory	711EEP07	EEE	Skill Development-This course develops the analytical skills of the students through practical experiments on DC and AC electric drives.	2014-2015
436	Power System Simulation Laboratory	711EEP08	EEE	Skill Development-This course develops the knowledge in real time simulation of power system analysis by practicing the lab experiments.	2014-2015
437	Mini project	711EEP09	EEE	Skill Development-This Course helps the students to apply their knowledge in real time application and to develop the mini project.	2014-2015
438	Electric Power Utilization and Energy Auditing	811EET01	EEE	Employability- This course deals with the lighting system configuration and working procedure and the energy auditing methods.	2014-2015
439	Advanced Power Semiconductor Devices	811EEE01	EEE	Skill Development- This course deals with the internal structure and characteristics of various semiconductor devices.	2014-2015
440	Medical Instrumentation	811EEE03	EEE	Skill Development-This course provides the knowledge about the medical equipment handling skills through working principle of medical instruments.	2014-2015
441	Renewable Energy Sources	811EEE10	EEE	Employability- The course deals with the principles of renewable energy sources for electrical power generation which ensures the student employment in power stations.	2014-2015
442	Project Viva-Voce	811EEP04	EEE	Skill Development-This course helps the students to apply their knowledge in developing real time applications.	2014-2015
443	Electron Devices	115EST09	EIE	Skill Development- This course provides knowledge on electron devices.	2015-2016
444	Electron Devices Lab	115ESP09	EIE	Skill Development- This course provides practical knowledge of electron devices and their characteristics through the experiments.	2015-2016
445	Circuit Theory	215EST10	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.	2015-2016
446	Electric Circuits Lab	215ESP07	EIE	Skill Development- This course provides practical knowledge of electrical circuits and electron devices by practicing the experiments.	2015-2016
447	Analog Electronics	315EIT03	EIE	Skill Development - Design the circuits using diodes, BJT and FET & IC Fabrication	2016-2017

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

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
448	Digital Electronics	315EIT04	EIE	Skill Development - Concept of combinational circuits, synchronous, asynchronous circuit and PLD	2016-2017
449	Electrical Machines	315EIT05	EIE	Skill Development - Understand the construction, working, characteristics and applications of DC generators & DC motors, testing of single-phase transformers	2016-2017
450	Circuit Simulation lab	315EIP07	EIE	Skill Development - OSCAD and SCI Lab software and implementation of transient and parametric analysis of RL, RC and RLC	2016-2017
451	Analog and Digital Electronics Lab	315EIP08	EIE	Skill Development - Design the various code converters, shift registers, counters, Multiplexers and Timers	2016-2017
452	Electrical Machines Lab	315EIP09	EIE	Skill Development - Analysing characteristics of DC motor, AC motor and Transformers	2016-2017
453	Electrical and Electronic Measurements	415EIT02	EIE	Skill Development - Understand and analyze the calibration of industrial meters and apply the appropriate measuring techniques to real time applications	2016-2017
454	Control systems	415EIT03	EIE	Skill Development - Analyze the time-domain and frequency response of systems and design compensators	2016-2017
455	Transducers Engineering	415EIT04	EIE	Skill Development - Understand the adequate knowledge of transducers for pressure, force, temperature, density and torque measurement	2016-2017
456	Thermodynamics & Fluid Mechanics	415EIT05	EIE	Skill Development - Acquire the knowledge, capability of analysing problems associated with the dimensional and modal analysis	2016-2017
457	Object Oriented Programming and data structures	415EIT06	EIE	Skill Development - Understanding of object-oriented programming concepts, particularly in C++	2016-2017
458	Transducers Laboratory	415EIP07	EIE	Skill Development - Ability to analyse the characteristics of various transducers and infer the reasons for the behaviour	2016-2017
459	Thermodynamics & Fluid Mechanics Laboratory	415EIP08	EIE	Skill Development - Perform experiments on engine, compressor, refrigerators and air conditioning	2016-2017
460	Data structures Laboratory	415EIP09	EIE	Skill Development - Data structures for implementing solutions to practical problems	2016-2017
461	Microprocessors ,Microcontrollers and its Applications	515EET01	EIE	Skill Development - Acquire the knowledge of interfacing the peripheral devices with 8085 microprocessor and 8051 micro controllers	2017-2018
462	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
463	Analytical Instrumentation	515EIT03	EIE	Skill Development - Analyze the principal operation of chromatographic Techniques, PH meters and analysers	2017-2018
464	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

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

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465	Virtual Instrumentation Lab	515EIP06	EIE	Skill Development - Simulation in LabVIEW, Arithmetic and Logic operations ,Creating and Debugging a VI	2017-2018
466	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
467	Microprocessors Microcontrollers Laboratory	515EEP08	EIE	Skill Development - Implement the developed code using 8085 processors and 8051 controllers	2017-2018
468	Digital signal analysis and Processing	515EIE01	EIE	Skill Development - Understand and analyze multirate signal processing techniques and their applications	2017-2018
469	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
470	Instrumentation System Design	615EIT01	EIE	Employability - Provides the comprehensive knowledge for various instrumentation system like Pressure, Level and temperature Measurement	2017-2018
471	Industrial Instrumentation	615EIT02	EIE	Skill Development - Understand the various measurements adopted in industry environment	2017-2018
472	Logic and Distributed control system	615EIT03	EIE	Employability - Understand DCS, I/O modules and field devices of an industrial automation system	2017-2018
473	Applied Soft Computing	615EIT04	EIE	Skill Development - Adequate knowledge about feedback neural networks, fuzzy and neuro-fuzzy system and genetic Algorithm	2017-2018
474	Instrumentation System Design Lab	615EIP05	EIE	Skill Development - Designing of square root extractor, linearizing circuit for thermocouples, ON/OFF and PID Controllers	2017-2018
475	Industrial Instrumentation Lab	615EIP06	EIE	Skill Development - Analyze Instrumentation systems and their applications to various Industries	2017-2018
476	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
477	VLSI Design and Techniques	711EIT01	EIE	Employability - Ability to design the inverter and logic gates using the CMOS technology	2014-2015
478	Instrumentation Systems Design	711EIT02	EIE	Employability - Provides the comprehensive knowledge for various instrumentation system like Pressure, Level and temperature Measurement	2014-2015
479	Computer Networks and Control of Processes	711EIT03	EIE	Skill Development - Provides knowledge about Digital Controllers, computer networks, and industrial data communication	2014-2015
480	Programmable Logic Controller and Distributed Control Systems	711EIT04	EIE	Employability - Students will be able to program in PLC and basic concepts DCS, HART and Field bus	2014-2015

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

ADHIYAMAAN COLLEGE OF ENGINEERING
(Autonomous)
Affiliated to Anna University– Chennai & Approved by AICTE–New Delhi.
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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
481	Computer Control of Process Laboratory	711EIP05	EIE	Skill Development - Ability to design digital Controllers, feedback, feed forward, ratio and cascade complex control systems	2014-2015
482	Instrumentation System Design Laboratory	711EIP06	EIE	Skill Development - Designing of square root extractor, linearizing circuit for thermocouples, ON/OFF and PID Controllers	2014-2015
483	Comprehension and aptitude skills	711EIP07	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	2014-2015
484	Robotics and Automation	711EIE08	EIE	Employability - Analyze the various parts of robots and fields of robotics	2014-2015
485	Micro Electro Mechanical Systems (MEMS)	711EIE09	EIE	Skill Development - Providing the knowledge of sensors, wireless communications, fluidic systems, micro engines, semiconductors and solid mechanics to fabricate MEMS devices	2014-2015
486	Power Plant Instrumentation	811EIT01	EIE	Employability - Analyze various measurements and control in power generation plants and SCADA in power plants	2014-2015
487	Instrumentation and control in cement and steel industries	811EIE02	EIE	Employability - Knowledge of various measurement, analyzers and controls in cement & steel industry	2014-2015
488	Fiber optics and laser Instrumentation	811EIE07	EIE	Skill Development - Adequate knowledge about Industrial application of lasers & Medical applications of Lasers	2014-2015
489	Basic Electrical and Electronics Engineering	115ESE11	IT	Skill Development - Provides knowledge in basic electric circuits and devices its performances, hence students able to enhance their skills to get employment in core industry.	2015-2016
490	Object Oriented Programming	215ESE11	IT	Employability -The course will help the candidates to enhance their Java programming language skills	2015-2016
491	Object Oriented Programming Laboratory	215ESP06	IT	Employability -The course will help the candidates to enhance their Java programming language skills	2015-2016
492	Digital Principles and System Design	315ITT03	IT	Employability - This course helps students in Solving problems in areas of digital electronics.	2016-2017
493	Data Structures and Algorithms	315ITT04	IT	Employability -Enhancing the problem-solving skills through the knowledge of data structures	2016-2017
494	Computer Organization and Architecture	315CIT06	IT	Skill Development -Acquiring Knowledge of basic building blocks of computer systems	2016-2017
495	Digital Laboratory	315ITP07	IT	Employability - This course helps students in Solving problems in areas of digital electronics, measurements, sensors and industrial instrumentation	2016-2017
496	Data Structures and Algorithms Laboratory	315ITP08	IT	Employability -Enhancing the problem-solving skills through the knowledge of data structures	2016-2017

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

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
497	Java Programming Laboratory	315CIP09	IT	Skill Development -The students will be aware of the important topics and principles of software development and have the ability to write a computer program to solve specified problems with help of Java Programming Lab.	2016-2017
498	Probability and Queuing Theory	415PQT01	IT	Employability, Skill Development - Student can understand the basic concepts of random processes which are widely used in IT fields	2016-2017
499	Operating System	415CIT02	IT	Employability -Acquiring Knowledge of basic functionalities of operation systems	2016-2017
500	Database Management Systems	415CIT03	IT	Skill Development - Students can able to understand the transaction processing concurrency control.	2016-2017
501	Microprocessors & Microcontrollers	415ITT04	IT	Skill Development -Provide programming skills in microprocessor and microcontroller both ALP and embedded C, hence students able to design any projects.	2016-2017
502	Computer Networks	415CIT05	IT	Employability - Provides skill in Network and System, hence student to get employment in core industry	2016-2017
503	Design and Analysis of Algorithms	415CIE03	IT	Skill Development -This subject enhances the problem analysis skills	2016-2017
504	Operating System Laboratory	415CIP07	IT	Employability -Acquiring Knowledge of basic functionalities of operation systems	2016-2017
505	Database Management Systems Laboratory	415CIP08	IT	Skill Development -To familiarise the students with major DBMS concepts	2016-2017
506	Computer Networks Laboratory	415CIP09	IT	Employability - Course help them to learn various protocols, compare different topologies and summarize the functionality of network layers	2016-2017
507	Internet Programming	515ITT01	IT	Skill Development - Students could design and develop websites and documents using HTML and XML	2017-2018
508	Software Engineering & Quality Assurance	515ITT02	IT	Employability -Exposure to discipline of software development life cycle models	2017-2018
509	Object Oriented Analysis and Design	515ITT03	IT	Skill Development -This course enables the students to analyse, design a software system or business by using Object Oriented concepts.	2017-2018
510	Communication Engineering	515ITT04	IT	Employability - Gives the ability to design various communication modules in communication industry	2017-2018
511	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
512	Applied Statistics and Numerical Methods	515MAE01	IT	Employability - This course will help the students to model the real-life problems	2017-2018
513	Internet Programming Laboratory	515ITP07	IT	Skill Development - Students could design and develop websites and documents using HTML and XML	2017-2018

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

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
514	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
515	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
516	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
517	Cryptography and Security in Computing	615ITT02	IT	Skill Development - Knowledge about cryptographic algorithms helps to enhance secured communications	2017-2018
518	UNIX Internals	615ITT03	IT	Skill Development - This course is designed to enable the student to use the UNIX operating system.	2017-2018
519	Open Source Software	615ITT04	IT	Skill Development - Provides an opportunity to Improving accessibility and access to higher education.	2017-2018
520	Software Project Management	615ITE02	IT	Entrepreneurship - This course imparts knowledge on how to implement project management concepts related to managing software development projects.	2017-2018
521	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
522	Open Source Software Laboratory	615ITP08	IT	Skill Development - Provides an opportunity to Improving accessibility and access to higher education with Practical skills.	2017-2018
523	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
524	Web Technology	711CIT02	IT	Skill Development - Course provides skills for applying Web Programming concepts	2014-2015
525	Enterprise Computing	711ITT04	IT	Skill Development - This course provides students with the opportunity to develop and apply an understanding of enterprise computing systems in the safe and secure usage and storage of data.	2014-2015
526	Building Enterprise Applications	711CIE07	IT	Employability - This course is to give an overall and complete understanding of Enterprise Software and Design Patterns.	2014-2015
527	Cloud Computing	711ITE09	IT	Skill Development - Exposure to various platforms that helps in building cloud applications	2014-2015
528	Mobile Computing Laboratory	711ITP07	IT	Employability - Developing mobile applications with tools.	2014-2015
529	Web Technology Lab and Enterprise Computing Laboratory	711CIP08	IT	Skill Development - Course provides skills for applying Web Programming concepts with safe and secure usage and storage of data.	2014-2015
530	Service Oriented Architecture	811ITT01	IT	Skill Development - This course, students can gain knowledge SOA (Service-Oriented Architecture) to structure web-based systems.	2014-2015

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

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531	Software Testing	811CIE07	IT	Skill Development - This course helps to know about various testing types and tools.	2014-2015
532	Adhoc and Sensor Networks	811ITE09	IT	Employability - The students get knowledge about the current technology trends for the implementation and deployment of wireless ad-hoc/sensor networks.	2014-2015
533	Basic Civil and Mechanical Engineering	215ESE01	ME	Skill Development - This course will give more knowledge on pattern, moulding sand, refrigeration system and basic processes in mechanical field.	2015-2016
534	CAD & Modeling Lab	215ESP02	ME	Skill Development - This course focus on concepts of engineering graphics and to design components using modelling software based on industry needs.	2015-2016
535	Engineering Thermodynamics	315MET02	ME	Employability - Concepts of Engineering Thermodynamics and its applications will enable the students to perform better as an engineer during their employability.	2016-2017
536	Fluid Mechanics and Machinery	315MET03	ME	Employability - Concepts of fluid mechanics and applications to fluid machinery will enable the students to perform better as an engineer during their employability.	2016-2017
537	Manufacturing Technology-I	315MET04	ME	Employability - This course will enable the students to understand the manufacturing processes like casting, welding, machining with lathe, milling, etc.	2016-2017
538	Electrical Drives and Controls	315EEE06	ME	Skill Development - This course focuses on electrical components, wiring and basic concepts of house hold electrical appliances, etc.	2016-2017
539	Fluid Mechanics and Machinery Laboratory	315MEP07	ME	Skill Development- Students will gain skill in testing related to fluid flow.	2016-2017
540	Manufacturing Technology Laboratory -I	315MEP08	ME	Skill Development- This course will enhance the students with different manufacturing processes and develop their skills in the analysing of materials.	2016-2017
541	Electrical Drives and Controls Laboratory	315EEP09	ME	Skill Development - This course will give practical knowledge on electrical components, wiring and basic concepts of house hold electrical appliances, etc.	2016-2017
542	Statistics and Numerical Methods	415MAT01	ME	Skill Development - This course will focus on methods of numerical solutions of ordinary differential equations with initial conditions and statistical methods for analysis of variance and control limits.	2016-2017
543	Engineering Materials and Metallurgy	415MET02	ME	Employability - This course will give more knowledge on different types of materials and its characteristics used in the industry level which will help the students to work in comfortably in industries.	2016-2017
544	Thermal Engineering	415MET03	ME	Skill Development - This course will enhance the students to understand various process in air standard cycles and to learn the performance of internal combustion engines.	2016-2017
545	Strength of Materials	415MET04	ME	Employability - This course will be focused on the concepts of stress, strain, principal stresses and principal planes which will be useful in industry during manufacturing.	2016-2017
546	Manufacturing Technology-II	415MET05	ME	Entrepreneurship - Students will know about the fundamentals of metal cutting,	2016-2017

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

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				special purpose machines used in industrial applications.	
547	Machine Drawing	415MET06	ME	Skill Development - This course focus on concepts of machine drawing and to design machine parts based on industry needs.	2016-2017
548	Thermal Engineering Laboratory-I	415MEP07	ME	Skill Development - Students will be familiar on various thermodynamic concepts and principles, heat balance test, energy balance test.	2016-2017
549	Material Testing and Metallurgy Laboratory	415MEP08	ME	Skill Development - Students will have more skills in testing of materials under untreated and heat treated conditions and various NDT methods.	2016-2017
550	Manufacturing Technology Laboratory-II	415MEP09	ME	Skill development - This course will give more practical knowledge on different machining operations on shaper, lathe, milling, drilling and slotting.	2016-2017
551	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
552	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
553	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
554	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
555	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
556	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
557	Advanced Manufacturing Processes	515MEE06	ME	Employability - Students will have an ability to work with different manufacturing processes used in industries.	2017-2018
558	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
559	Thermal Engineering Laboratory-II	515MEP08	ME	Skill Development - This course will enhance the students to conduct performance test on various refrigeration systems.	2017-2018
560	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
561	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	2017-2018

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

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
				freedom.	
562	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
563	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
564	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
565	Refrigeration and Air Conditioning	615MEE02	ME	Skill Development - This course focus on vapour compression and vapour absorption system operation of different refrigerants.	2017-2018
566	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
567	Additive Manufacturing	615MEE09	ME	Employability - By knowing different rapid prototyping techniques, students can adhere to industry environment easily.	2017-2018
568	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
569	Professional Ethics and Human Values	615MEE13	ME	Entrepreneurship - Students will know more about the codes of ethics and industrial standards, responsibility on safety and risk which will be more useful to be an good entrepreneur.	2017-2018
570	Dynamics Laboratory	615MEP07	ME	Skill Development - This course will give more practical knowledge to calculate mass moment of inertia of body experimentally.	2017-2018
571	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
572	Engineering Economics and Cost Analysis	711MET01	ME	Entrepreneurship - This course will give more knowledge on cost calculations, replacement policies and types of depreciation methods which an entrepreneur should know.	2014-2015
573	Mechatronics and Robotics	711MET02	ME	Employability - This course enhances with various types of sensors and transducers, types of grippers used for automation in industry.	2014-2015
574	Finite Element Analysis	711MET03	ME	Employability - This course will give more mathematical knowledge along with FEA concepts to analysis different types of problems.	2014-2015
575	Automobile Engineering	711MET04	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.	2014-2015
576	Power Plant and Energy Engineering	711MET05	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	2014-2015

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

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				with that.	
577	Process Planning and Cost Estimation	711MEE01	ME	Entrepreneurship - This course will give more knowledge on step-by-step procedures in the cost estimation of any product.	2014-2015
578	Analysis and Simulation Laboratory	711MEP07	ME	Skill Development - This course will help the students to solve problems related to FEA techniques by using software's like ANSYS, IDEAS, etc.	2014-2015
579	Mechatronics Laboratory	711MEP08	ME	Skill Development - This course focus on designing components based on hydraulic and pneumatic systems for industrial automation.	2014-2015
580	Design and Fabrication Project	711MEP09	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.	2014-2015
581	Total Quality Management	811MET01	ME	Employability - This course focus on TQM principles, tools and Philosophies which is used in industries throughout the world.	2014-2015
582	Advanced I.C. Engines	811MEE04	ME	Skill Development - This course will give strong knowledge on SI and CI engines, pollutant formation and its control in IC engines.	2014-2015
583	Maintenance Engineering	811MEE05	ME	Employability - This course focus on principles, function and practices adapted in industry for the successful management of maintenance activities.	2014-2015
584	Entrepreneurship Development	811MEE10	ME	Entrepreneurship - This course focus on gaining the knowledge in the field of entrepreneur, entrepreneurship and management of resources.	2014-2015
585	Automation in Manufacturing	811MEE12	ME	Employability - This course will enhance the student to go for automation in manufacturing sectors.	2014-2015
586	Project Work	811MEP04	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.	2014-2015
587	Business Statistics	115BAT01	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.	2015-2016
588	Management Concepts and Practices	115BAT02	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	2015-2016
589	Economic Analysis for Business	115BAT03	MBA	Employability- This Course helps in providing income to poor families, revives	2015-2016

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

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				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'	
590	Organisational Behaviour	115BAT04	MBA	Employability-This Course helps analyses the effect of social and environmental factors that affect the way employees Entrepreneurship-This Course helps on the individuals, the groups and the organization and also on their interactional relationships Skill Development- This Course helps in bring a change in the values, norms, attitudes, perception, and behaviour of people	2015-2016
591	Management Accounting for Business Decisions	115BAT05	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	2015-2016
592	Legal Aspects of Business	115BAE01	MBA	Employability-This Course helps for Start-up name should be legal and must not violate the legal rights of others Skill Development-This Course helps in learning Business Law deals with the laws on the basis of which every deal between people and commercial firms are governed	2015-2016
593	Executive Communication	115BAE11	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 use when giving and receiving different kinds of information	2015-2016
594	Business Application Software	115BAP01	MBA	Employability-This Course helps for performing activities that express creativity, fulfil productivity and improve communication Skill Development-This Course helps in learning steps are used to create a workflow pipeline, a sequence of steps that when followed produce high-quality software deliverables	2015-2016
595	Hospitality Management	215BAT01	MBA	Employability-This Course helps in understandings and personal attributes – that makes graduates more likely to gain employment and be successful in their chosen occupations Skill Development-This Course helps to adapt to new situations like the one we are	2015-2016

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

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
				currently	
596	Operation Research	215BAT02	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	2015-2016
597	Human Resource Management	215BAT03	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	2015-2016
598	Advanced Financial Management	215BAT04	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	2015-2016
599	Marketing Management	215BAT05	MBA	Employability-This Course helps in identifies market opportunities and comes out with appropriate strategies for exploring those opportunities profitably Entrepreneurship-This Course helps as a strategies, tools and analyses used in promoting a business. Businesses use marketing management techniques to identify opportunities for growth and connect effectively with new target markets Skill Development-This Course helps in development of content management, social media, responsive design, partner management, analytics, knowledge of the latest tech tools, distributed experts' skills, people skills, and team building / motivation	2015-2016
600	Management Information System	215BAT06	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	2015-2016
601	Operations Management	215BAT07	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	2015-2016

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

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602	Statistical Package for Social Science	215BAP01	MBA	Employability-This Course helps social statistics and quantitative data analysis are key tools for understanding society and social change for job Skill Development-This Course helps in providing data analysis for descriptive and bivariate statistics, numeral outcome predictions and predictions for identifying groups	2015-2016
603	Strategic Management	315BAT12	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	2016-2017
604	Business Research Methods	315BAT13	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	2016-2017
605	Industrial Relations and Labor Legislations	315BAH01	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	2016-2017
606	Performance Management	315BAH02	MBA	Employability-This Course helps for ongoing process of communication between a supervisor and an employee that occurs throughout the year, in support of accomplishing the strategic objectives of the organization. Entrepreneurship-This Course helps in promotion and development Programmes are being organized regularly to nurture the talent of youth by enlightening them Skill Development-This Course helps in the identification of capability of an individual to channel the talents of employees towards the attainment of organizational goals	2016-2017
607	Training and Development	315BAH03	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	2016-2017

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

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				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	
608	Derivatives Management	315BAF01	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	2016-2017
609	Security Analysis and Portfolio Management	315BAF02	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	2016-2017
610	Merchant Banking and Financial Services	315BAF04	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	2016-2017
611	Retail Management	315BAM02	MBA	Employability-This Course helps in developing as a store manager, retail managers, retail buyers, retail designers, visual merchandisers, merchandise 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	2016-2017
612	Services Marketing	315BAM03	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	2016-2017
613	Digital Marketing Analytics	315BAM04	MBA	Employability-This Course helps analytics measures, tracks, and analyses your campaign performance for better decision-making for job betterment Skill Development-This Course helps in providing insights to understand audience behaviour better, improve strategies, and avoid wasting resources	2016-2017
614	Project Management	315BAO01	MBA	Employability-This Course helps plan and implement projects from start to finish in order to help an organization meet its goals	2016-2017

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

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				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	
615	Services Operations Management	315BAO02	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	2016-2017
616	Supply Chain Management	315BAO03	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	2016-2017
617	E - Commerce	315BAS01	MBA	Employability-This Course help in generating jobs directly and indirectly, and to disregard jobs that no longer require social involvement. Entrepreneurship-This Course helps in buying and selling of goods or services using the internet, and the transfer of money and data to execute these transactions. Skill Development-This Course helps in enhancement of communication and marketing expertise, professionals who run e-commerce platforms can benefit from technical skills	2016-2017
618	Advance Database Management System	315BAS02	MBA	Employability-This Course helps to store, organize, and monitor big or small information, just by using one software application. The use and implementation of a data system can help businesses in performing well and allows them to save overall costs that lead to more job opportunity Skill Development-This Course helps to understand how to use and to impose a logical, structured organization on the data	2016-2017
619	Enterprise Resource Planning	315BAS03	MBA	Employability-This Course helps to automate various business tasks and processes while increasing efficiency in numerous departments lead to more job opportunity Skill Development-This Course helps integrate and manage critical business processes within a company, from finance, sales and marketing to procurement, inventory, the supply chain and HR.	2016-2017
620	Data Warehousing and Data Mining	315BAB01	MBA	Employability-This Course help to organizing and compiling data into one database, whereas data mining deals with fetching important data from databases support career growth Skill Development-This Course helps to determining data patterns. A data warehouse	2016-2017

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

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				is a database system designed for analytics	
621	Decision and Risk Analytics	315BAB02	MBA	Employability-This Course helps in empowers decision makers with the ability to evaluate possible events using rapid fire interactive what-if scenario risk analytics dashboards Skill Development-This Course helps take the guesswork out of managing risk-related issues by using a range of techniques and technologies to extrapolate insights, calculate likely scenarios, and predict future events	2016-2017
622	Statistics for Analytics	315BAB03	MBA	Employability-This Course helps as the rise of big data, machine learning, and technology in our society has created a high demand for statistical analysts, and it's an exciting time to develop Skill Development-This Course helps gives people a better understanding of how to review data critically to gather useful information. This information serves to help in important problem-solving and decision-making processes. Students can use this skill in several industries, including economics, education, business and medical	2016-2017
623	Accounting for Hospitality	315BAHO01	MBA	Employability-This Course helps because by recording and monitoring cash flows both in and out, you can better forecast for the future, have a more realistic idea of your hotel's projected costs, and ensure that yearly budgets are maintained Skill Development-This Course helps to develop Negotiation skills Diplomacy, public relations and business development skills are needed by great Hotel Accountants in their role	2016-2017
624	Business and Hospitality Laws	315BAHO02	MBA	Employability-This Course helps to regulate hotels, restaurants, bars, country clubs and other public accommodations, so as to provide safety measures within the law to protect the customers Skill Development-This Course helps crucial to tourism and hospitality because it is a labour intensive industry that involves a high degree of customer contact	2016-2017
625	Event Management	315BAHO03	MBA	Employability-This Course helps for project management to the creation and development of small and/or large-scale personal or corporate events such as festivals, conferences, ceremonies, weddings, formal parties, concerts, or conventions Entrepreneurship-This Course helps in managing events throughout their lifecycle is the purpose of event management Skill Development-This Course helps in ability to make decisions thoughtfully, quickly and confidently are all essential traits of an event manager	2016-2017
626	Summer Internship Training	315BAP01	MBA	Employability-This Course help the students to build their resumes and take the first step towards a successful professional	2016-2017

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

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				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	
627	Project Work	415BAP04	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	2016-2017
628	Object Oriented Programming lab using c++	115CAL02	MCA	Skill Development- Application development based on object-oriented programming with various types of applications.	2015-2016
629	Office Automation Lab	115CAL03	MCA	Employability - Documentations for various format related to government and non-government agency.	2015-2016
630	Internet and Java Programming	215CAT02	MCA	Skill Development- Extended knowledge in Internet with programming to develop various applications	2015-2016
631	Accounting and Financial Management	215CAE08	MCA	Entrepreneurship- Develop their Management based on Accounting and Financial Related during Trading of business	2015-2016
632	Internet and java Programming Lab	215CAL02	MCA	Skill Development- Extended knowledge in Internet with programming lab exercise to develop various applications	2015-2016
633	Advanced Java Progamming	315CAT01	MCA	Skill Development- Java Programming with J2EE and J2ME Concept implemented to develop an application	2016-2017
634	C# and Dot Net Programming	315CAT03	MCA	Skill Development- Dot Net Programming with CLR Concept along with console, window and web-based applications	2016-2017
635	Advanced Java Progamming Lab	315CAP06	MCA	Skill Development- Java Programming Lab exercise with J2EE and J2ME Concept implemented to develop an application	2016-2017
636	Advanced database Management Systems	315CAE03	MCA	Skill Development- Database with advanced concept using recent tools for AI and ML based applications	2016-2017
637	Web Programming	415CAT01	MCA	Skill Development - Programming based on PHP with MySQL to develop an web based applications	2016-2017
638	Mobile Computing	415CAT03	MCA	Skill Development - A Study of GPS/ GSM Architecture related with Mobile Computing	2016-2017
639	Web Programming Lab	415CAP06	MCA	Skill Development - Program based on PHP with MySQL to develop an web based applications along with third party.	2016-2017

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

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640	Data Warehousing and Data Mining	415CAE01	MCA	Skill Development - Detailed process of Mining and Warehouse related to various applications in the real-world scenario.	2016-2017
641	Cloud Computing	415CAE03	MCA	Skill Development- Various Services as as IaaS, Paas, and SaaS related to cloud computing were explored.	2016-2017
642	Professional Communications	415CAE08	MCA	Entrepreneurship -Communications Skills Which leads to professional for their development of business.	2016-2017
643	XML and Web Services Lab	415CAL01	MCA	Skill Development- A Designing skills based on the programmer friendly described in XML with Various Web Services.	2016-2017
644	Executive Communication Lab	415CAL05	MCA	Employability- Presentation focused on Seminar, develop of communication skills for the corporate world.	2016-2017
645	Internet of Things	515CAT01	MCA	Skill Development- A Physical design to interact a device with internet application explored the embedded system.	2017-2018
646	Mobile Application Development	515CAT02	MCA	Skill Development- Analytical and Technical Skills were developed in the mobile applications	2017-2018
647	Big Data Management	515CAT03	MCA	Skill Development- Semantic skill with data representation focused on Volume, Velocity and variety.	2017-2018
648	Mini Project	515CAP06	MCA	Employability- Various Application designed in house to sustain the availability of the corporate world.	2017-2018
649	Open Source Technologies	515CAE02	MCA	Skill Development- Programming Skills with open source were developed to attain the requirements of IT Sector	2017-2018
650	Digital Markting Manegment	515CAE09	MCA	Entrepreneurship - Marketing strategies in the digital world to develop the business in Local / National / International Level	2017-2018
651	Mobile Application Development Lab	515CAL01	MCA	Skill Development- Exercise based Analytical and Technical Skills were developed in the mobile applications	2017-2018
652	Open Source Technologies Lab	515CAL02	MCA	Skill Development- Program Skills with open source were developed to attain the requirements of IT Sector	2017-2018
653	Project Work	615CAP01	MCA	Employability- Various Application designedto sustain the availability of the corporate world.	2017-2018
654	Advanced Data Structures	115MCT01	M.E CSE	Skill Development -course content helps to learn various DB design principles and techniques to build web application	2015-2016
655	Advanced Operating System	115MCT02	M.E CSE	Employability -Acquiring Knowledge of basic functionalities of operation systems	2015-2016
656	Compiler Construction and Optimization	115MCT03	M.E CSE	Skill Development- designing a compiler	2015-2016
657	Software Engineering	115MCT04	M.E CSE	Skill Development- improving software methodologies	2015-2016

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

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
	Methodologies				
658	Mathematical Foundations for Computer Science	115MCT05	M.E CSE	Skill Development- mathematical analysis	2015-2016
659	Advanced Data Structures Laboratory	115MCP07	M.E CSE	Employability -Enhancing the problem-solving Skills through the knowledge of data structures	2015-2016
660	Operating Systems and Compiler Design Laboratory	115MCP08	M.E CSE	Skill Development- designing a compiler	2015-2016
661	Mobile and Wireless Networks	115MCE06	M.E CSE	Skill Development- working with wireless networks	2015-2016
662	Advanced Database Technology	215MCT01	M.E CSE	Employability - working with database using objects	2015-2016
663	Network Protocols	215MCT02	M.E CSE	Skill Development- understanding network protocols	2015-2016
664	Internet Technology	215MCT03	M.E CSE	Employability - understanding concepts of the internet	2015-2016
665	Security in Computing	215MCT04	M.E CSE	Skill Development - This course will help the students the basic techniques that underlie the practice of Compiler Construction.	2015-2016
666	Database and Internet Technology Laboratory	215MCP07	M.E CSE	Employability - implementing database and internet	2015-2016
667	Simulation Laboratory	215MCP08	M.E CSE	Skill Development- simulating of network	2015-2016
668	Data Warehousing and Data Mining	215MCE01	M.E CSE	Skill Development - This course helps to explore datamining algorithms and Visualization concepts	2015-2016
669	Mobile Ad-Hoc Networks	215MCE09	M.E CSE	Skill Development- working with adhoc networks	2015-2016
670	Information Security	315MCT01	M.E CSE	Employability - Awareness about various information security related problems faced by industries	2016-2017
671	Research Methodology	315MCE01	M.E CSE	Skill Development- enhancing research methodologies	2016-2017
672	Information Retrieval	315MCE09	M.E CSE	Skill Development- retrieving of information	2016-2017
673	Project Work- Phase - I	315MCP01	M.E CSE	Skill Development- in this phase, students are organised to gather the required data for implementing the project	2016-2017
674	Project Work- Phase - II	415MCP01	M.E CSE	Skill Development - This course enables the student to pool the knowledge acquired in various technical subjects to develop enterprise solutions and work as a team in organizations	2016-2017
675	Advanced Digital Signal Processing	115COT02	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	2015-2016
676	Modern Digital Communication Techniques	115COT03	M.E CS	Skill Development-Gives the ability to design various digital communication modules in communication industry	2015-2016
677	Optical and Mobile Communication Networks	115COT04	M.E CS	Employability/Skill Development- Gives the ability to design various optical communication modules in communication industry	2015-2016

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

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678	Advanced Radiation Systems	115COT05	M.E CS	Skill Development-Gives the ability to design various radiation effects in communication industry	2015-2016
679	Communication Systems Laboratory-I	115COP01	M.E CS	Skill Development-Gives the ability to design various analog and digital communication modules in communication industry	2015-2016
680	Advanced Satellite Based Systems	115COE04	M.E CS	Employability - Able to design and test satellite communication protocols in communication industry	2015-2016
681	Software Radio Architecture	215COT01	M.E CS	Skill Development-Design SDR for a specific application	2015-2016
682	Photonic And Microwave Integrated Circuits	215COT02	M.E CS	Employability-Design and fabricate the hybrid MIC's in thick and thin film technology.	2015-2016
683	Multimedia Compression Techniques	215COT03	M.E CS	Employability - Able to design and develop data compression algorithms in data processing applications	2015-2016
684	Communication Systems Laboratory - II	215COP01	M.E CS	Skill Development-Gives the ability to design various analog digital communication modules in communication industry	2015-2016
685	RF System Design	215COE01	M.E CS	Employability-Design the filter realizations and implementations according to the industry applications.	2015-2016
686	Network Routing Algorithms	215COE06	M.E CS	Employability- Provides knowledge in Networks Routing Protocols, hence student to get employment in core industry	2015-2016
687	Project Work (Phase – I)	315COP01	M.E CS	Employability/Entrepreneurship/Skill Development-Develops the research skill on product development	2016-2017
688	Technical Seminar	315COP02	M.E CS	Employability - This course will enhance the students on technical paper writing and publication techniques.	2016-2017
689	Embedded Systems for Communication	315COE01	M.E CS	Employability - Gives the ability to design various embedded modules in communication industry	2016-2017
690	Communication Network Security	315COE03	M.E CS	Employability- This course gives the ability to design and work on network layer security protocols	2016-2017
691	High Speed Switching Architecture	315COE04	M.E CS	Employability- This course gives the ability to design and work on IP layer protocols	2016-2017
692	Project Work (Phase – II)	415COP01	M.E CS	Employability/Entrepreneurship/Skill Development-Develops the research skill on product development	2016-2017
693	Advanced Mathematics	115EDT01	M.E ED	Skill Development - This course focus on solving numerical problems based on the boundary conditions to find the appropriate solution.	2015-2016
694	Advanced Mechanics of Materials	115EDT02	M.E ED	Employability - This course will give more knowledge on how to calculate stresses and deflection in an unsymmetrical beam, pressure vessels, etc.	2015-2016
695	Concepts of Engineering Design	115EDT03	M.E ED	Employability - This course enhances the students to familiar with design process,	2015-2016

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				selection of materials and role of environmental issues in design.	
696	Computer Application in Design	115EDT04	M.E ED	Skill Development - This course focus on application of computer graphics in designing based on geometrical modelling and reverse engineering techniques.	2015-2016
697	Advanced Finite Element Analysis	115EDT05	M.E ED	Employability - This course enhances the students to solve dynamic analysis problems in the field of thermal and fluid flow using FEA techniques.	2015-2016
698	Additive Manufacturing & Tooling	115EDE02	M.E ED	Employability - This course emphasis on producing different types of components in a rapid manner using rapid prototyping techniques.	2015-2016
699	CAE Laboratory-I	115EDP07	M.E ED	Skill Development - This course emphasis on analysis of different structures with the help of software such ANSYS, NASTRAN, etc.	2015-2016
700	Mechanics of Composite Materials	215EDT01	M.E ED	Employability - This course enhances the students to produce different types of composites and to perform test on composite materials.	2015-2016
701	Mechanical Vibration	215EDT02	M.E ED	Skill Development - This course focus on basic aspects of vibrations and to reduce it using mathematical model.	2015-2016
702	Advanced Mechanism Design	215EDT03	M.E ED	Employability - This course will enhance the students to develop innovative mechanisms for different applications.	2015-2016
703	Advanced Machine Design	215EDT04	M.E ED	Skill Development - This course will focus on mechanical properties of different materials and to analysis the failure of materials through fatigue, crack, etc.	2015-2016
704	Integrated Manufacturing Systems	215EDE02	M.E ED	Employability - This course enhances the students to know about the group technology concepts which is normally used in manufacturing industries.	2015-2016
705	Design for Manufacture, Assembly and Environment	215EDE03	M.E ED	Employability - This course will give the knowledge about the process capability and tolerances based on form design.	2015-2016
706	CAE Laboratory-II	215EDP07	M.E ED	Skill Development - This course give practical knowledge for solving complex problems with the help of analysing software's.	2015-2016
707	Micro Electro Mechanical Systems	315EDE01	M.E ED	Skill Development - This course will give more knowledge on micro mechanics, micro manufacturing, micro fabrication and its applications.	2016-2017
708	Product Life Cycle Management	315EDE03	M.E ED	Skill Development - This course provides detailed concepts on product life cycle management along with latest industry views.	2016-2017
709	Design of Materials Handling Systems	315EDE04	M.E ED	Employability - This course focus on designing of material handling equipment such as hoist, conveyors, elevators, escalators, etc. applicable for different industries.	2016-2017
710	Project Work (Phase – I)	315EDP01	M.E ED	Skill Development - This course will recollect the fundamental knowledge acquired during the earlier semesters and apply the same to real life problems and provide solution to the problems.	2016-2017
711	Internship & Technical Seminar	315EDP02	M.E ED	Skill Development - This course will give practical exposure and learn about various activities happening in the industries.	2016-2017

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

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712	Project Work (Phase-II)	415EDP01	M.E ED	Skill Development - This course will recollect the fundamental knowledge acquired during the earlier semesters and apply the same to real life problems and provide solution to the problems.	2016-2017
713	System Theory	115PST01	M.E PSE	Skill Development-This course deals with the stability analysis of linear and nonlinear system which enhance the students skill in the power system control.	2015-2016
714	Power System Optimization Techniques	115PST02	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.	2015-2016
715	Computer Aided Power System Analysis	115PST03	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.	2015-2016
716	Power System Estimation And Security	115PST04	M.E PSE	Employability- This course provides the knowledge about contingency analysis, marginal pricing analysis and security enhancement in power system which ensures the employment in power system.	2015-2016
717	Mathematics for Electrical Engineers	115PST05	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.	2015-2016
718	Wind and Solar Energy Systems	115PSE06	M.E PSE	Employability- This course provides the knowledge about generating electrical power from wind and solar energy and the associated technical issues which provides the job opportunity the electrical power generation stations.	2015-2016
719	Computer Aided Power System analysis Laboratory	115PSP07	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.	2015-2016
720	Reactive Power Compensation and Management	215PST01	M.E PSE	Employability- This course provides the knowledge about the reactive power management by using FACTS devices which enhances the job opportunity in the electrical power grid.	2015-2016
721	Power System Dynamics and Stability	215PST02	M.E PSE	Skill Development- This course provides the knowledge about the stability analysis of power system in the dynamic disturbance.	2015-2016
722	Power Quality Management	215PSE05	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.	2015-2016
723	Power Electronics for Renewable Energy Systems	215PSE12	M.E PSE	Skill Development-The course deals with the applications of latest power electronics devices in the field of renewable energy systems.	2015-2016
724	Advanced Power System Simulation Laboratory	215PSP08	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.	2015-2016

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

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725	EHV Power Transmission	315PST01	M.E PSE	Employability- This course provides the knowledge in electrical power transmission in EHV system which ensures the employment in the power system grid.	2016-2017
726	Power System Instrumentation	315PSE06	M.E PSE	Skill Development- This course provides the knowledge about the working principle and types of instruments in the substation which develops the students' designing skills in power system.	2016-2017
727	Project Work (Phase – I)	315PSP01	M.E PSE	Employability-This course helps the students to apply their Power Systems knowledge in real time applications.	2016-2017
728	Project Work (Phase - II)	415PSP01	M.E PSE	Employability-This course helps the students to apply their Power Systems knowledge in real time applications.	2016-2017
729	Applied Mathematics	115SET01	M.E SE	Employability - Students will develop skills in mathematics to solve problems	2015-2016
730	Advanced Concrete Design	115SET02	M.E SE	Skill Development - The course provides knowledge in design of concrete structures which helps in executing projects	2015-2016
731	Structural Dynamics	115SET03	M.E SE	Employability - The course develops skills in solving dynamic problems related to structural elements and as a whole	2015-2016
732	Theory Of Elasticity And Plasticity	115SET04	M.E SE	Employability - Skills on solving structural elements for various boundary conditions will be developed in this course	2015-2016
733	Advanced Concrete Technology	115SEE01	M.E SE	Entrepreneurship - This course develops skills in concreting technology	2015-2016
734	Maintenance and Rehabilitation of Structures	115SEE07	M.E SE	Entrepreneurship - Students will develop skill sets regarind the materails and techniques required for maintenance and rehabilitation of structures	2015-2016
735	Finite Element Analysis	215SET01	M.E SE	Skill Development - This course enhances the skill set related to finite element method of analysing a structure	2015-2016
736	Experimental Techniques and Instrumentation	215SET02	M.E SE	Skill Development - gain knowledge on the principles of measurements using various electronic and physical testing machines. Also test variuos civil engineering structures using non-destructive testing methodologies	2015-2016
737	Advanced Structural Steel Design	215SET03	M.E SE	Skill Development - The rise in steel industry requires structural engineers to gain knowledge related to steel structures. This course provides information for a student to establish himself in the steel industries	2015-2016
738	Earthquake Analysis and Design of Structures	215SET04	M.E SE	Employability - Aseismic design is mandatory as per IS recommendations. This course develops the skill set required for aseismic design of structures	2015-2016
739	Design of Bridges	215SEE01	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	2015-2016
740	Design of Sub Structures	215SEE03	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	2015-2016

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

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741	Stability of Structures	215SEE05	M.E SE	Employability - Skills in assessing the stability of structural elements is focused in this course	2015-2016
742	Advanced Structural Engineering Laboratory	215SEP01	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	2015-2016
743	Prefabricated Structures	315SEE01	M.E SE	Skill Development -Prefabricated structures is the innovative construction practice and useful for placements	2016-2017
744	Pre-stressed Concrete	315SEE03	M.E SE	Skill Development - This course enhances the skill set related to desgin of prestressed concrete structures.	2016-2017
745	Sub Structure Design	315SEE07	M.E SE	Skill Development - This course helps to understand the concepts involved in design of substructures so that a structural engineer can interact with a geotechnical engineer which helps in project execution	2016-2017
746	Practical Training (4 Weeks)	315SEP01	M.E SE	Entrepreneurship, Skill Development - Students will get experience in industry during this course which helps them to identify skill sets required to be developed so that they become employable	2016-2017
747	Seminar	315SEP02	M.E SE	Skill Development - The course enhances the technical presentation and documentation skills which aids in employability	2016-2017
748	Project Work (Phase- I)	315SEP03	M.E SE	Entrepreneurship, Skill Development - Students develop their skills in doing research or design and enhance their technical report writing and presentation	2016-2017
749	Project Work (Phase - II)	415SEP01	M.E SE	Entrepreneurship, Skill Development - Students develop their skills in doing research or design and enhance their technical report writing and presentation	2016-2017
750	VLSI Signal Processing	115VLT02	M.E VLSI	Employability/Skill Development- Provides a chance to work in VLSI semiconductor industry to design and fabricate integrated circuits	2015-2016
751	VLSI Design Techniques	115VLT03	M.E VLSI	Employability/Skill Development- Provides a chance to work in VLSI semiconductor industry to design and fabricate integrated circuits	2015-2016
752	ASIC and FPGA Design	115VLT04	M.E VLSI	Employability - Provides chance to work in ASIC VLSI industry to design and fabricate integrated circuits	2015-2016
753	Advanced Digital System Design	115VLT05	M.E VLSI	Employability- Provides knowledge in digital design and so the students get employed in product development industry	2015-2016
754	VLSI Design Laboratory-I	115VLP01	M.E VLSI	Employability/Skill Development- Provides a chance to work in VLSI semiconductor industry to design and fabricate integrated circuits	2015-2016
755	Digital Image Processing	115VLE04	M.E VLSI	Skill Development-Students can learn image analysis techniques in the form of image segmentation and evaluate the methodologies for segmentation	2015-2016
756	Analysis and Design of Analog	215VLT01	M.E VLSI	Employability - Students can work in VLSI industry to design and fabricate	2015-2016

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

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	Integrated Circuits			integrated circuits	
757	Testing of VLSI Circuits	215VLT02	M.E VLSI	Employability/Skill Development - Students can work in VLSI industry to design, test and fabricate integrated circuits	2015-2016
758	Low Power VLSI Design	215VLT03	M.E VLSI	Employability - Students can work in VLSI industry to design and fabricate integrated circuits	2015-2016
759	VLSI Design Laboratory-II	215VLP01	M.E VLSI	Skill development - The students can design simple combinational and sequential logic using VHDL programming and analyse the combinational and sequential circuits using simulation tool.	2015-2016
760	Computer Architecture and Parallel Processing	215VLE02	M.E VLSI	Skill Development-this course enables the students to understand parallel processing, pipelining and scheduling concepts.	2015-2016
761	MEMS and NEMS	215VLE08	M.E VLSI	Employability - Able to design and fabricate various RF MEMS models in electronics industry	2015-2016
762	Physical Design of VLSI Circuits	215VLE10	M.E VLSI	Employability - Students can work in VLSI industry to design and fabricate integrated circuits	2015-2016
763	Project Work (Phase – I)	315VLP01	M.E VLSI	Employability/Entrepreneurship/Skill Development-Develops the research skill on product development	2016-2017
764	Technical Seminar	315VLP02	M.E VLSI	Employability - This course will enhance the students on technical paper writing and publication techniques.	2016-2017
765	System on Chip Design	315VLE06	M.E VLSI	Employability - Students can work in VLSI industry to design and fabricate integrated circuits	2016-2017
766	Real Time Embedded Systems	315VLE11	M.E VLSI	Skill development- The course give insight on the concepts of automotive embedded systems and to impart skills in developing models.	2016-2017
767	VLSI for Wireless Communication	315VLE12	M.E VLSI	Employability/Skill Development- This course enhance the students in developing real time VLSI applications for wireless communication.	2016-2017
768	Project Work (Phase – II)	415VLP01	M.E VLSI	Employability/Entrepreneurship/Skill Development-Develops the research skill on product development	2016-2017
769	Advanced Mathematics	115CDT01	M.E CAD	Skill Development - This course focus on solving numerical problems based on the boundary conditions to find the appropriate solution.	2015-2016
770	Advanced Mechanics of Materials	115CDT02	M.E CAD	Employability - This course will give more knowledge on how to calculate stresses and deflection in an unsymmetrical beam, pressure vessels, etc.	2015-2016
771	Quality Concepts in Design	115CDT03	M.E CAD	Employability - This course enhances the students to familiar with design process, selection of materials and role of environmental issues in quality design.	2015-2016
772	Computer Application in Design	115CDT04	M.E CAD	Skill Development - This course focus on application of computer graphics in designing based on geometrical modelling and reverse engineering techniques.	2015-2016

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

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773	Advanced Finite Element Analysis	115CDT05	M.E CAD	Employability - This course enhances the students to solve dynamic analysis problems in the field of thermal and fluid flow using FEA techniques.	2015-2016
774	Additive Manufacturing & Tooling	115CDE02	M.E CAD	Employability - This course emphasis on producing different types of components in a rapid manner using rapid prototyping techniques.	2015-2016
775	CAE Laboratory-I	115CDP07	M.E CAD	Skill Development - This course emphasis on analysis of different structures with the help of software such ANSYS, NASTRAN, etc.	2015-2016
776	Mechanics of Composite Materials	215CDT01	M.E CAD	Employability - This course enhances the students to produce different types of composites and to perform test on composite materials.	2015-2016
777	Mechanical Vibration	215CDT02	M.E CAD	Skill Development - This course focus on basic aspects of vibrations and to reduce it using mathematical model.	2015-2016
778	Advanced Mechanism Design	215CDT03	M.E CAD	Employability - This course will enhance the students to develop innovative mechanisms for different applications.	2015-2016
779	Computer Aided Tools	215CDT04	M.E CAD	Skill Development - This course will focus on different computer aided tools used for manufacturing of components.	2015-2016
780	Integrated Manufacturing Systems	215CDE02	M.E CAD	Employability - This course enhances the students to know about the group technology concepts which is normally used in manufacturing industries.	2015-2016
781	Design for Manufacture, Assembly and Environment	215CDE03	M.E CAD	Employability - This course will give the knowledge about the process capability and tolerances based on form design.	2015-2016
782	CAE Laboratory-II	215CDP07	M.E CAD	Skill Development - This course give practical knowledge for solving complex problems with the help of analysing software's.	2015-2016
783	Micro Electro Mechanical Systems	315CDE01	M.E CAD	Skill Development - This course will give more knowledge on micro mechanics, micro manufacturing, micro fabrication and its applications.	2016-2017
784	Product Life Cycle Management	315CDE03	M.E CAD	Skill Development - This course provides detailed concepts on product life cycle management along with latest industry views.	2016-2017
785	Design of Materials Handling Systems	315CDE04	M.E CAD	Employability - This course focus on designing of material handling equipment such as hoist, conveyors, elevators, escalators, etc. applicable for different industries.	2016-2017
786	Project Work (Phase – I)	315CDP01	M.E CAD	Skill Development - This course will recollect the fundamental knowledge acquired during the earlier semesters and apply the same to real life problems and provide solution to the problems.	2016-2017
787	Internship & Technical Seminar	315CDP02	M.E CAD	Skill Development - This course will give practical exposure and learn about various activities happening in the industries.	2016-2017
788	Project Work (Phase-II)	415CDP01	M.E CAD	Skill Development - This course will recollect the fundamental knowledge acquired during the earlier semesters and apply the same to real life problems and provide solution to the problems.	2016-2017

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

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
789	Probability and Statistical methods	115RST01	M.TECH RS	Employability - gain knowledge they will be well accomplished in the application of statistical methods for analysis of research problems.	2015-2016
790	Theory of Remote Sensing	115RST02	M.TECH RS	Employability -gain knowledge on familiarize about the basic principles of Remote Sensing Including the physics of remote sensing	2015-2016
791	Photogrammetry	115RST03	M.TECH RS	Entrepreneurship- gain knowledge on being well accomplished in the processing and interpretation and application of Aerial Photographs	2015-2016
792	Geographic Information System	115RST04	M.TECH RS	Skill Development -gain knowledge on having a clear knowledge of GIS Principles and Techniques.	2015-2016
793	Cartography	115RST05	M.TECH RS	Employability - gain knowledge about understanding of Projections, Coordinate System, Map Design & Production methods.	2015-2016
794	Theory of Electronic Surveying	115RSE01	M.TECH RS	Skill Development - gain knowledge about EDM instruments, methods, data processing and error estimation	2015-2016
795	Geographical Information System Laboratory	115RSP01	M.TECH RS	Skill Development -to give practical exposure to the students on spatial data input, data storage, data analysis and data output capabilities of a standard GIS software.	2015-2016
796	Photogrammetry Laboratory	115RSP02	M.TECH RS	Skill Development - To acquire knowledge about IO, RO and AO using Analog& Analytical Stereo plotter	2015-2016
797	Digital Image Processing	215RST01	M.TECH RS	Skill Development - to enlighten the students on satellite data analysis procedures. Students will understand various data products, enhancement techniques, extraction and classification of features and thematic mapping concepts.	2015-2016
798	Thermal and Microwave Remote Sensing	215RST02	M.TECH RS	Employability - to impart knowledge on Thermal and Microwave Remote Sensing techniques and its applications. The course will enlighten the students about AVHRR, RADAR, SEASAT, SIRA, SIRB, ERS, JERS, and RADARSAT	2015-2016
799	Integrated Surveying	215RST03	M.TECH RS	Entrepreneurship - to enlighten the students on various surveying instruments and techniques. At the end of the course, students will be well-versed with the various survey methodologies like topographic, hydrographic and other advanced surveys and preparation of cartographic maps.	2015-2016
800	Visual Programming and Customisation	215RST04	M.TECH RS	Employability -This course will facilitate the students to understand the fundamentals of VB programming, Database connectivity, VB.NET Programming. The course will also enhance knowledge on GIS customization methods.	2015-2016
801	RS and GIS Applications in Earth Systems	215RSE01	M.TECH RS	Employability - To impart knowledge on earth features and processes that includes land, water and atmosphere.	2015-2016
802	RS and GIS Applications in Hydrology and Water Resources	215RSE06	M.TECH RS	Entrepreneurship - To impart knowledge on RS and GIS based analyses of surface water and ground water.	2015-2016
803	Image Processing Lab	215RSP01	M.TECH RS	Skill Development - to give practical exposure to the students on image restoration,	2015-2016

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

ADHIYAMAAN COLLEGE OF ENGINEERING
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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
				enhancement and interpretation of satellite images for extraction of earth features	
804	Technical Seminar	215RSP02	M.TECH RS	Skill Development - this course will help the students to get knowledge on presenting their ideas, creativity and paper presentation	2015-2016
805	RS and GIS for Coastal Zone Management	315RSE04	M.TECH RS	Employability - they will be having a clear knowledge of coastal processes and resources.	2016-2017
806	RS and GIS Applications for Urban & Regional Planning and Rural Management	315RSE07	M.TECH RS	Skill Development - They will be skilled to effectively utilize RS and GIS Products for Urban and Rural Studies.	2016-2017
807	Service GIS	315RSE11	M.TECH RS	Employability - They will have a clear focus on GIS utilization in Business field.	2016-2017
808	Review of Journal Articles and Technical Report Presentation	315RSP01	M.TECH RS	Skill Development - to gain knowledge on journal articles and technical report presentation	2016-2017
809	Integrated Surveying Laboratory	315RSP02	M.TECH RS	Entrepreneurship skill development - To give exposure to the students on advanced surveying instruments and techniques. At the end of the course, students will be well-versed with the sophisticated and precise topographic and land surveys scale/cadastral mapping and map updation.	2016-2017
810	Project Phase - I	315RSP03	M.TECH RS	Entrepreneurship skill development - To acquire knowledge about relative project title.	2016-2017
811	Project Phase - II	415RSP01	M.TECH RS	Entrepreneurship skill development - To acquire knowledge about relative project title.	2016-2017

PRINCIPAL

Adhiyamaan College of Engineering (Autonomous)

Dr.M.G.R. Nagar, HOSUR-635130