



# ADHIYAMAAN COLLEGE OF ENGINEERING

(Autonomous)

Affiliated to Anna University – Chennai & Approved by AICTE – New Delhi.

Accredited by NAAC & NBA - UGC, New Delhi

## 1.2.1 New courses offered by the institution during the last five years

AY 2019 - 20

S. No	Programme Name	Course Name	Course code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
1	AE	Airline Operations and managements	318AEE07	Employability - Gain the knowledge about Airline, Airport management principles and their functions.	2019-2020
2	AE	Experimental Aerodynamics	418AEE09	Employability- Evaluate and understand the Generation of Lift, wing theory and boundary layer concepts.	2019-2020
3	ARCH	Urban Design	915ART01	Employability - Expose the students the role of urban designer and gain knowledge of the urban spaces, designing of public areas.	2019-2020
4	ARCH	Dissertation	915ARP03	Skill Development - Introductory guide for students to conduct research on any aspect of the built environment.	2019-2020
5	ARCH	Advanced Building Materials & Techniques	915ARE03	Skill Development - Familiarize the students with the various advanced construction methods and technology.	2019-2020
6	ARCH	Urban and Regional Planning	915ARE05	Employability - Planning and managing infrastructure with different schemes and understand the concepts of planning at regional level, city level.	2019-2020
7	ARCH	Steel in Architecture Design	915ARE07	Employability - Understand the use of steel in large span structures and to develop the sense of structural aesthetics.	2019-2020
8	BME	Human Anatomy and Physiology	318BMT03	Employability-Give knowledge about the different systems of the human body	2019-2020
9	BME	Fundamentals of Data Structures In C	318BMT06	Skill Development-Provides the knowledge on basic concepts of C programming.	2019-2020
10	BME	Fundamentals of Data Structures in C Laboratory	318BMP09	Skill Development-This subject will help the students to understand how to write a C Programming.	2019-2020
11	BME	Pathology and Microbiology	418BMT04	Employability-This course will help the students to understand various diseases in humans caused by pathogens and microbes	2019-2020
12	BME	Biochemistry	418BMT05	Employability-Gain knowledge on biomolecules and its chemical reactions in the human body.	2019-2020
13	BME	Pathology and Microbiology Laboratory	418BMP08	Employability-Students can able to estimate haematological parameters	2019-2020
14	CE	Value Education Program	318CET06	Employability- to understand engineering ethics and human values which is important in career throughout	2019-2020

Dr. M.G.R. Nagar, Hosur – 635 130, Krishnagiri (Dt), Tamil Nadu, India. Phone: Office: 04344 – 260570, 261001-3, 261034. Fax: 04344 – 260573 Website : [www.adhiyamaan.ac.in](http://www.adhiyamaan.ac.in) E-mail : [principal@adhiyamaan.ac.in](mailto:principal@adhiyamaan.ac.in).

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15	CE	3D Printing and Design	418CEE06	Entrepreneurship/Skill Development-gain knowledge in 3D Printing techniques which enhances the skill of the student	2019-2020
16	EEE	Fundamentals of Data Structures in C	318EET06	Skill Development- This course offers the knowledge about basic C programming skill.	2019-2020
17	EEE	Fundamentals of Data Structures in C Laboratory	318EEP09	Skill Development- This course provides the knowledge to apply the basic C language programming skills.	2019-2020
18	EEE	Fundamentals of Nano Science	418EEE09	Skill Development- This course develops the basic idea about the fundamentals of nano science.	2019-2020
19	EIE	Measurement Engineering	318EIT02	Skill Development - Ability to apply the mathematical knowledge and science & engineering fundamentals gained to solve problems pertaining to measurement applications	2019-2020
20	EIE	Electronic Devices and Circuits	318EIT04	Skill Development - Acquire knowledge of Working principles, characteristics and applications of semiconductor devices and electronic circuits	2019-2020
21	EIE	Fundamentals of Data Structures in C	318EIT06	Skill Development - Develop programs for Realtime application using functions, structures, union and operations of data structures	2019-2020
22	EIE	Measurement Engineering lab	318EIP08	Skill Development - Implement the characteristics of various transducers and infer the reasons for the behaviour	2019-2020
23	EIE	Fundamentals of Data Structures in C Lab	318EIP09	Skill Development - Implement functions and recursive functions in C and data structures	2019-2020
24	IT	Digital Electronics	318CIT02	Employability - This course helps students in Solving problems in areas of digital electronics.	2019-2020
25	IT	Computer Organization	318CIT06	Skill Development -Acquiring Knowledge of basic building blocks of computer systems	2019-2020
26	IT	Design and Analysis of Algorithms	418CIT02	Employability -Various algorithm design strategies help to develop efficient algorithms	2019-2020
27	MBA	Managerial Skill development - II	318BAV02	Employability- This course helps in the knowledge and ability of the individuals in a managerial position to fulfil some specific management activities or tasks Entrepreneurship- This course helps certain attributes or abilities that an executive should possess in order to fulfil specific tasks in an organization to run successfully Skill Development- This course helps to planning, organizing, leading, and controlling, managers must use a wide variety of skills	2019-2020

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28	MBA	Strategic Brand Management	318BAM01	Employability-This Course help to support in getting or improving brand recognition, boosting revenue, and achieving long-term business goals Skill Development-This Course helps in understanding the market place to find where the brand can fit in and resonate. Defining the brand positioning and thinking strategically about a brand's functional and emotional benefits. Performing competitor analysis to gain a strategic market advantage	2019-2020
29	M.E CSE	Video Processing	318MCE02	Skill Development- this course helps in learning the processing of digital video files and performing required editing works	2019-2020
30	M.E CSE	Integrate Software Project Management	318MCE03	Skill Development - The students get knowledge of the Innovation and Product Development process in the Business Context.	2019-2020
31	M.E CSE	Virtualization Techniques	318MCE05	Skill Development- this course helps the students to study about the data based on the metadata	2019-2020
32	M.E CSE	Modelling and Simulation of Wireless Communication System	318MCE06	Entrepreneurship - Apply the concepts of nation income and understand the functions of bank and globalization	2019-2020
33	M.E CSE	Speech Processing	318MCE07	Skill Development- this course helps students in working with machine learning techniques for processing speech-based inputs	2019-2020
34	M.E CSE	ERP and Concepts	318MCE08	Skill Development- this course involves in learning and working with ERP and also their concepts	2019-2020
35	M.E CSE	Deep Learning	318MCE09	Employability -Learn deep learning architectures to build intelligent applications	2019-2020
36	M.E CSE	Digital Forensics	318MCE10	Skill Development- this course helps in viewing and analysing Realtime data inputs that has to be configured	2019-2020
37	M.E.CS	Internship	318COP02	Employability - This course will enhance the students on technical paper writing and publication techniques.	2019-2020
38	M.E-CS	OFDM for Communication Systems	318COE05	Employability- This course gives the ability to design and implement the applications of OFDM	2019-2020
39	M.E-CS	Beamforming in Wireless Communication	318COE06	Skill Development- Students understand about various Beamforming techniques	2019-2020
40	M.E-CS	Advanced Mobile Computing	318COE12	Employability-Students develop personal communication systems and model the mobile internet protocol.	2019-2020

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41	M.E-CS	Advanced Techniques for Wireless Reception	318COE14	Skill Development-Design the signal processing and coherent detection of the OFDM and EM algorithm.	2019-2020
42	M.E-CS	Wavelets and Multiresolution Processing	318COE15	Employability- Apply and develop wavelet transform for various signal & image processing applications in core industries	2019-2020
43	M.E. ED	Engineering Materials and their Applications	318EDE02	Employability - This course enhance the students to know about the group technology concepts which is normally used in manufacturing industries.	2019-2020
44	M.E. ED	Research Methodology and IPR	318EDE13	Skill Development - This course emphasis the students to develop the skills of research related activities.	2019-2020
45	M.E. PSE	Smart Grid Design and Analysis	318PSE03	Employability- This course provides the knowledge about the designing and analysis methods of smart grid which ensures the job opportunity in the power system grid.	2019-2020
46	M.E. PSE	Design of Controllers in Power Application	318PSE06	Skill Development-This course provides the knowledge about the designing of controllers for power applications.	2019-2020
47	M.E. SE	Industrial Structures	318SEE01	Employability - gain knowledge about functional requirements in design of Industrial structures	2019-2020
48	M.E. SE	Smart Structures and Applications	318SEE04	Employability - gain knowledge about measuring techniques in smart structures.	2019-2020
49	M.E. SE	Power Plant Structures	318SEE07	Employability - gain knowledge in the design of all types of machine foundations	2019-2020
50	M.E. SE	Energy Efficient Structures	318SEE08	Employability - gain knowledge on design of buildings according to thermal environment	2019-2020
51	M.E. SE	Random Vibrations and Structural Reliability	318SEE11	Employability - gain knowledge on statistical analysis of materials, structural reliability analysis	2019-2020
52	M.E-VLSI	Nano Scale Transistors	318VLE04	Employability-Design and fabricate nanowire FETs and transistors	2019-2020
53	M.E-VLSI	Genetic Algorithms and its Applications	318VLE08	Skill Development-: Design and implement Genetic algorithm in VLSI Circuits in fabrication industry	2019-2020
54	M.E-VLSI	Submicron VLSI Design	318VLE09	Skill Development-: Design hardware and software co-design.	2019-2020
55	M.E-VLSI	IP Based VLSI Design	318VLE10	Employability- Design and implement the IP Security protocols	2019-2020
56	M.E-VLSI	High Speed VLSI	318VLE18	Skill Development-Develop multi core architectures for High-Speed VLSI	2019-2020

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