



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 2021 - 22

S. No	Programme Name	Course Name	Course code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Link
1	AE	Autonomous UAV Laboratory	718AEP11	Entrepreneurship- Students get more knowledge to design the UAV	View
2	AE	Entrepreneurship & Development Management & IPR	818AEE04	Entrepreneurship- learn business management process	
3	AE	Human Values and Professional Ethics	818AEE06	Skill Development- studied about human ethics process Management	
4	AE	Air Transportation and Aircraft Maintenance Management	818AEE09	Employability - Gain the knowledge about Airline, Airport management principles and their functions.	
5	ARCH	Construction Planning & Project Management	718CEE11	Employability/ Entrepreneurship - Expose students to a broad range of management theories including their practical application in the delivery of construction project.	View
6	ARCH	Project Management	818ARE03	Employability/ Entrepreneurship/ Skill Development - Realize the importance of project management methodology that will allow us to initiate and manage projects efficiently and effectively	
7	ARCH	Contemporary Housing	818ARE06	Employability - Exposed to various techniques of Housing project formulation techniques and Housing Design strategies to be competent enough in the growing housing market.	
8	BT	Entrepreneurship Development Lab	718BTP09	Entrepreneurship - The course provides entrepreneurship-based skills like managing a firm, small business and to start-ups	View
9	BT	Bio Similar Technology	718BTE03	Skill Development - The Course provides skills like design, manufacturing of drugs.	
10	BT	Rational Drug Discovery	718BTE04	Skill Development - The Course provides skills like design, manufacturing of drugs.	
11	BT	Bioterrorism And National Security	718BTE05	Skill Development - Enables students to acquire knowledge in distinguishing various types of computer crime, and use computer forensic techniques to identify the digital fingerprints associated with criminal activities	
12	BT	Fundamentals Of Nano Biotechnology	718BTE06	Skill Development - Application of nanomaterial in biology	
13	BT	Process Equipment And Plant Design	718BTE09	Skill Development - The course offers skills like design and analysis of ideal and non -ideal reactors, also provides insight into the skills like Bioreactor assembly and manufacturing	



ADHIYAMAAN COLLEGE OF ENGINEERING

(Autonomous)

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

Accredited by NAAC & NBA - UGC, New Delhi

S. No	Programme Name	Course Name	Course code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Link
14	BT	Tele Medicine	818BTE02	Skill Development - Offers the student with therapeutics of diseases	
15	BT	Industrial Safety	818BTE04	Employability The course provides the students with the skill of basics of industrial safety measures	
16	BT	Total Quality Management	818BTE06	Employability - The course provides entrepreneurship-based skills like managing a firm, small business and to start-ups	
17	BT	Bio Safety	818BTE10	Employability - The course provides the students with the skill of basics of biological safety measures	
18	BME	Hospital Waste Management	718BME10	Employability-This course will help the students to understand the various procedures and techniques used for disposal of hospital waste.	View
19	BME	Intellectual Property Rights	718BME11	Skill Development-This course enables the student to know about the importance and protection of IPR	
20	BME	Interpersonal Skills/Listening & Speaking	718BMP09	Skill Development-This course will help the students can able to improve their communication and listening skills, presentation skills	
21	BME	Internet of Things in Medical Applications	818BME06	Skill Development-This course will help the students to understand the applications of IoT in Medical Field.	
22	CH	Chemical Reaction Engineering – II	718CHT01	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	View
23	CH	Chemical Engineering Simulation Laboratory	718CHP09	Employability- Decide on the optimizations and simulation of the various chemical processes	
24	CE	Pavement Engineering	718CEE01	Employability - gains knowledge on various IRC guidelines for designing rigid and flexible pavements.	View
25	CE	Traffic Engineering and Management	718CEE02	Employability - gain knowledge of traffic control devices and its techniques in transportation interaction	
26	CE	Transport and Environment	718CEE03	Employability - gain knowledge to detect smart, sustainable transport that takes into account economic, ecological, social and cultural perspectives	
27	CE	Transportation Planning and Systems	718CEE04	Employability - gain knowledge to design streets and highways that are safe and efficient	



ADHIYAMAAN COLLEGE OF ENGINEERING

(Autonomous)

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

Accredited by NAAC & NBA - UGC, New Delhi

S. No	Programme Name	Course Name	Course code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Link
				to move vehicular traffic, accommodate transit, pedestrians and bicyclists with minimal environmental impacts	
28	CE	Urban Planning and Development	718CEE05	Employability - enable students to have the knowledge on planning process and to introduce to the students about the regulations and laws related to Urban Planning.	
29	CE	Geo-Environmental Engineering	718CEE06	Employability - gain knowledge of concepts and principles of Geo-environmental Engineering and prepare the suitable disposal system for waste.	
30	CE	Soil Dynamics and Machine Foundations	718CEE08	Employability-The course develops skills to assess the influence of vibrations and selection of remediation methods based on the nature of vibration, properties and behaviour of soil.	
31	CE	Energy Efficient Architecture	718ARO01	Employability - gain knowledge on the importance of site planning, vegetation types, water bodies as factors inspiring concepts of design	
32	CE	Services for High- rise Buildings	718ARO02	Entrepreneurship - gain knowledge on the service requirements for a high rise building as per the National Building Code.	
33	CE	Affordable Housing	718ARO03	Employability - gain knowledge about the various standards backed by BIS, NBC, and DCR including layout conditions, Buildings rules related to housing in high rise context.	
34	CE	Urban Housing	718ARO04	Employability - gain knowledge about the various stages involved in development of housing, its management, and how to make the same user friendly through participatory approach.	
35	CE	Building Automation	718EIO01	Skill Development - gain knowledge of intelligent buildings and Building automation systems.	
36	CE	Entrepreneurship and e-business	718MEO01	Skill Development - This course provides the students, with an opportunity to gain the knowledge in the field of entrepreneur, entrepreneurship and management of resources	
37	CE	Irrigation and Environmental Engineering Drawing	718CEP07	Skill Development - Design various concept of reinforced concrete structures regarding environmental and irrigation operations which helps in Consultancy services for Government projects	
38	CE	Design of Plate and Shell Structures	818CEE01	Skill Development-This course is intended to develop a particular skill set related to design of plates, sheets and spatial structures	



ADHIYAMAAN COLLEGE OF ENGINEERING

(Autonomous)

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

Accredited by NAAC & NBA - UGC, New Delhi

S. No	Programme Name	Course Name	Course code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Link
39	CE	Power plant Structures	818CEE08	Employability-Understand the Process involved in power plants	
40	CSE	Machine Learning Laboratory	718CSP07	Skill Development -To build predictive models using advanced Machine Learning Techniques	View
41	CSE	Cyber Security and Law	718CIE06	Skill Development - It helps to protect computer and data from cyber-attacks and evaluate existing legal framework and laws on cyber security.	
42	CSE	Blockchain Technologies	818CSE06	Skill Development- this course helps students to work under block chain related concepts and technologies	
43	CSE	Deep Learning	818CSE09	Employability -Learn deep learning architectures to build intelligent applications	
44	CSE	Visualizaion Techniques	818CSE10	Skill Development- this course helps the students to study about the data based on the metadata	
45	ECE	Adhoc and Wireless Sensor Networks	718ECT01	Skill development-Students can compare and analyze ad hoc network protocol performance and related security threats	View
46	ECE	Multimedia Compression Techniques	718ECE03	Employability - Able to design and develop data compression algorithms in data processing applications	
47	ECE	Nano Technology	718ECE04	Skill development - This course supports students in designing nano sensors using Simulation tools	
48	ECE	Optical Networks	718ECE06	Skill Development- Develop optical components according to industry needs.	
49	ECE	Cognitive Radio	718ECE07	Skill Development- Understand the concepts behind the wireless networks and next generation network	
50	ECE	Detection and Estimation Theory	718ECE11	Skill Development-Develop the principles of signal detection in relevant situations and design the various algorithms to estimate random parameters of signals	
51	ECE	CMOS Analog IC Design	718ECE12	Employability/Skill Development- Students learn the concepts of Analog MOS devices and current mirror circuits and different configuration of Amplifiers and feedback circuits to develop real time applications.	
52	ECE	Parallel and Distributed processing	818ECE04	Skill Development-Students can design distributed and parallel systems, and hence get an opportunity to employ in core industries.	
53	ECE	Compressive sensing	818ECE05	Skill Development-Students can design applications in compressive systems, sensing hence get se opportunity to employ in core industries.	

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 E-mail : principal@adhiyamaan.ac.in



ADHIYAMAAN COLLEGE OF ENGINEERING

(Autonomous)

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

Accredited by NAAC & NBA - UGC, New Delhi

S. No	Programme Name	Course Name	Course code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Link
54	ECE	MEMS and NEMS	818ECE06	Employability - Able to design and fabricate various RF MEMS models in electronics industry	
55	ECE	DSP Architecture and Programming	818ECE12	Skill Development-Students can design and test the architecture DSP systems, Architecture hence gets an opportunity to employ in core industries.	
56	EEE	Smart Grid	718EEE07	Employability- This course deals with the advancement of technology in the power system network which provides the employment in power system area.	
57	EEE	Modern Power Converters	718EEE08	Skill Development- This course helps the students to develop their skills about the advancement of power electronics devices.	
58	EEE	Aircraft Electrical Systems	718EEE11	Skill Development- This course develops the student skill by providing the knowledge about aircraft electrical system.	View
59	EEE	Electric Vehicle Technology	818EEE03	Entrepreneurship-This course deals with the advanced techniques in the electric vehicle design and management hence develops the entrepreneurship skills among the students.	
60	EEE	Wireless Power Transfer Technologies	818EEE09	Employability- This course deals with latest concepts of wireless power transfer methods and the advancements in the research.	
61	EIE	Instrumentation In Industrial Application	818EIT01	Employability - Acquire an adequate knowledge about the measurement of various parameters in cement, steel, petrochemical and pharmaceutical Industries	
62	EIE	Advanced Process Control	818EIE05	Skill Development - Ability to use the FDI Techniques, such as Principal component Analysis, state observer to detect and diagnose faults in sensors and actuators	View
63	EIE	Multi Sensor Data Fusion	818EIE06	Skill Development - Realize algorithms for data fusion	
64	EIE	Nano Science	818EIE08	Skill Development - Utilization of the characterization techniques and nano particles in various industrial applications	
65	IT	Fundamentals of Machine Learning	718ITT02	Skill Development -To build predictive models using advanced Machine Learning Techniques	
66	IT	Building Enterprise Application	718CIE02	Employability - This course is to give an overall and complete understanding of Enterprise Software and Design Patterns.	View
67	IT	Agile Software Development	718CIE05	Skill Development -Course provides skills to learn and use agile software and usability Engineering	
68	IT	Cyber Security and Law	718CIE06	Skill Development - It helps to protect computer and data from cyber-attacks and	



ADHIYAMAAN COLLEGE OF ENGINEERING

(Autonomous)

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

Accredited by NAAC & NBA - UGC, New Delhi

S. No	Programme Name	Course Name	Course code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Link
				evaluate existing legal framework and laws on cyber security.	
69	IT	Advanced Java Scripting Language	718ITE09	Skill Development -Course provides skills to learn Build and Develop familiarity with the JavaScript language	
70	IT	Software Defined Networks	818CIE01	Skill Development - The students get knowledge about how it is changing the way communications networks are managed, maintained, and secured.	
71	IT	Swarm Intelligence	818ITE03	Skill Development - This course, student can gain knowledge of individual/intelligent agents for modelling of industrial, social and biological systems.	
72	IT	Virtual and Augmented Reality	818ITE08	Skill Development -Course enables students to learn Virtual and Augmented Reality concepts	
73	IT	Deep Learning	818ITE09	Employability -Learn deep learning architectures to build intelligent applications	
74	IT	Information Visualization	818ITE10	Employability -Dashboard design techniques help in better decision making	
75	ME	Industrial Safety and Hazard Managements	718MOE11	Entrepreneurship - This course focus on safety measures to be maintained in the industry.	
76	ME	Disaster Management	718MOE12	Skill Development - This course will enhance the students to be familiar with the natural calamities and be prepared for any situation in real life.	
77	ME	Intellectual Property Rights	718MOE13	Skill Development - This course will enhance the students to do innovation in the field of mechanical engineering and to go for patent.	
78	ME	Engineering Acoustics	718MOE14	Skill Development - This course will give more knowledge on acoustics measures which will be helpful in testing the components mechanically.	View
79	ME	Human Resource Management	718MOE15	Skill Development - Students will have an idea about the usage of human resources at different situations.	
80	ME	Energy Conservation in Industries	818MEE05	Entrepreneurship - This course focus on energy demand and energy supply and other financial techniques for energy savings.	
81	ME	Advanced IC Engines	818MEE10	Skill Development - This course will give more knowledge on internal combustion engines and its characteristics.	
82	MCA	Agile Software Development	320CAE03	Skill Development- Explored the knowledge in the development of software using agile methodologies.	View