



ADHIYAMAAN COLLEGE OF ENGINEERING

(Autonomous)

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

Accredited by NAAC & NBA - UGC, New Delhi

01.2.1 New courses offered by the institution during the last five years

AY 2017 - 18

S. No	Programme Name	Course Name	Course code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Link
1	AE	Space flight mechanics	515AEE09	Employability - Understand the concept of Interplanetary Trajectories and Missile Trajectories	View
2	AE	Unmanned Aircraft System	515AEE11	Entrepreneurship - Apply the Unmanned Aircraft Systems in the field of Surveillance	
3	AE	Fundamentals of Flight	515AEE13	Employability - Know the Basics of Aerodynamics and Apply in further studies	
4	AE	Hypermesh laboratory	515AEP12	Skill development - Develop the Mesh of Two-dimensional mode	
5	AE	Structural Dynamics	615AEE12	Skill development-Study the effect of periodic and a periodic force on mechanical systems with matrix approach	
6	ARCH	Structure and Architecture	515ARE02	Employability - Integrate the contemporary structural design in the form making process of architectural design.	View
7	ARCH	Safety Systems and Building Management	515ARE03	Employability - Impart the basic knowledge in fire safety, security and Integrated building management systems.	
8	ARCH	Integrated Surveying	615CEO01	Employability/ Entrepreneurship/ Skill Development - Develop a sound knowledge of fundamental principles of surveying and handling various surveying equipment's in fields	
9	ARCH	Valuation of Real Properties	615CEO02	Employability/ Entrepreneurship/ Skill Development - Familizing the students with the issues in financing and investing in real estate with an emphasizing on commercial land values.	
10	ARCH	Graphic and Product Design	615ARE04	Employability/Entrepreneurship/Skill Development - Understand the principle of a Graphic design and product design and enhance their ideas in design application.	
11	BT	Health & Pharmaceutical Biotechnology	615BTT04	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	View
12	BT	Technical Seminar	615BTP09	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.	
13	BME	Diagnostic Equipment	615BMT01	Employability-Helps to understand the diagnosis of various diseases using diagnostic equipment	View
14	BME	Therapeutic Equipment	615BMT02	Employability-This course will help the students to understand different equipment's used to treat the diseases of the patients.	



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15	BME	Employability Skills Lab	615BMP09	Employability-Enhances the employability skills of students with a special focus on presentation skills, group discussion skills and interview skills	
16	CH	Fuel cell Technology	515CHE02	Skill development-Able to differentiate available fuel cells, Fuel Cell Thermodynamic Principle, mass transport concepts, Electrolytes used on fuel cells and the membranes used in fuel cells, Electro - catalysts for different Fuel Cells	View
17	CH	Statistics and Linear Programming	515CHE03	Skill development-Concepts, tools of colloid and interface science, multi-phase nano-systems; mechanics and thermodynamics on small scales, surface and bulk dominated regimes and behaviour and exploitation of nano-behaviour	
18	CH	Energy Conservation in Process Industries	515CHO01	Skill development-analyze differentiate the types of energy and its conservation, analyze differentiate the types of energy and its conservation, importance, energy action planning methods, concept of energy monitoring and targeting	
19	CH	Process Risk Analysis	515CHO02	Skill development- Able to analyse the various risks associated in the design and the execution of the chemical process plant designs	
20	CH	Pollution Control in Biotechnology Industries	515CHO04	Skill development-Understand the importance of EIA and Audit in industries, environmental protection laws and applications, international standards of environmental issues	
21	CH	Biotechnology and its Applications	515BTO05	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	
22	CH	Employability skills Laboratory	515CHP09	Skill development- Able to understand the basics of fermentation techniques, various industrially important biological products production	
23	CH	Energy Conservation and Management in Process Industries	615CHE01	Employability-Analyze differentiate the types of energy and its conservation, assess various environmental issues and impact, understand the importance of energy conservation, energy action planning methods	
24	CH	Industrial Management	615CHE02	Entrepreneurship-Able to understand the function of leadership and organizing culture, importance of quality control in process and planning operations, necessity of planning process and objectives, decision making processes, nature and purpose of organization and importance of staffing selection recruitment	
25	CH	Pulp and Paper Technology	615CHE03	Entrepreneurship- Able to understand the scenario of Indian pulp and paper industry, pulping processes and required raw materials, types of processes for paper manufacturing, various paper machine	



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26	CH	Electrochemical Engineering	615CHE04	Employability-Learn different types of electrodes used for electrochemical processes, concepts of potential theory for design of advanced electrodes, transport properties, potential properties	
27	CH	Disaster mitigation and Management	615CHE05	Skill development-Analyze differentiate the types of disasters, causes and their impact on environment and society, assess vulnerability, methods of risk reduction measures as well as mitigation, analyze Disaster damage assessment and management	
28	CH	Analytical Instrumentation	615EIO01	Skill development- Concepts on thermal measurement, pressure measurement, spectroscopic methods, level measurement instrumentations and applications	
29	CE	Computational Methods in Hydrology	515CEE03	Employability - Impart knowledge on computational methods in water resources planning and management	
30	CE	Water Shed Management	515CEE04	Employability - gain knowledge in modern techniques and manage storm water and flood	
31	CE	Application of Remote Sensing & GIS in Water Resources System	515CEE05	Skill Development - gain knowledge on different types of remote sensing platforms and sensors	
32	CE	Ground Water Development & Management	515CEE06	Skill Development - develop skills in analyzing steady flow and unsteady flow situation in groundwater studies	View
33	CE	Steel Structural Drawing	615CEP12	Entrepreneurship/Skill Development -gain knowledge on software used for drafting and it helps in employment opportunities	
34	CE	Bridge Engineering Drawing	615CEP13	Skill Development-This course enhances the skill set in design of structural members in particular the design of members in a bridge	
35	CE	RCC Structural Drawing	615CEP14	Skill Development-gain knowledge on software used for drafting and it helps in employment opportunities	
36	CSE	Modeling and Design	515CST03	Employability - this course helps students to design web-based applications	
37	CSE	Modeling and Design Laboratory	515CSP08	Skill Development- implementing software models and designs	
38	CSE	Employability Skill Laboratory	515CSP09	Employability - Students can help to identify Skill gaps and plan your Skill Development to build a portfolio of Skills valued by employers.	View
39	CSE	Medical Informatics	515BMO04	Skill Development - this course would help students to understand the requirement of biotechnology	
40	CSE	Linear Integrated Circuits	515ECO03	Skill Development - this course helps to circuits with devices and managing connections	
41	CSE	Agent Based Intelligent system	515CSE04	Entrepreneurship - This course enables students to learn more and better knowledge.	



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42	CSE	Scripting Languages	615CST03	Skill Development - This course is to provide students with an overview of the concepts and fundamentals of Principles of Programming Languages.	
43	CSE	Web Programming	615CST04	Employability/Entrepreneurship - helps students to develop web-based application	
44	CSE	Scripting Languages Laboratory	615CSP08	Skill Development - This course is to provide students with implementing the concepts and fundamentals of Principles of Programming Languages.	
45	CSE	Web Programming Laboratory	615CSP09	Employability - this course helps students to design web-based applications	
46	CSE	Communication Theory	615ECO01	Skill Development - it helps students to understand hardware machines	
47	CSE	Digital Communication	615ECO03	Skill Development - this course helps to work with hardware-based devices	
48	CSE	Algebra and Number Theory	615MAO03	Employability - This course will help the students to model the real-life problems	
49	CSE	Disaster Mitigation and management	615CEO01	Skill Development - this course helps in preventing natural and man-made disasters and handling eco system management	
50	CSE	Multicore Architecture	615CSE01	Skill Development - it helps in working with system hardware and its internal architecture	
51	CSE	Machine Learning Techniques	615CSE05	Skill Development -To build predictive models using advanced Machine Learning Techniques	
52	CSE	Pervasive Computing	615CSE04	Skill Development - this course helps in learning pervasive computing and its applications	
53	ECE	Biomedical Instrumentation	515BMO02	Employability - Latest ideas on devices of non-electrical devices, modern methods of imaging techniques	
54	ECE	Computer Organization and Architecture	515CIO06	Skill Development -Acquiring Knowledge of basic building blocks of computer systems	
55	ECE	Operating Systems	515CIO02	Employability - This course helps students to working with various kinds of different operating systems	
56	ECE	Network Analysis and Synthesis	515EEO03	Skill Development- This course deals with design of filter etc so that students develop their designing skills	
57	ECE	Java Programming	515CIO05	Skill Development -This course enables the student to develop object oriented based solutions using java programming language	View
58	ECE	VLSI Design	615ECT02	Employability/Skill Development- Provides a chance to work in VLSI semiconductor industry to design and fabricate integrated circuits	
59	ECE	Information Theory and Coding	615ECE04	Employability-Information coding techniques knowledge helps in abstract modelling and designing systems	
60	ECE	Web Programming	615CSO04	Skill Development - Programming language to develop a web-based applications	
61	ECE	Power Electronics	615EEO02	Employability- This course deals with the characteristics of power electronics devices.	



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62	ECE	Biometrics	615BMO11	Skill Development-Gain the knowledge on various applications of biometrics in medical field	
63	EEE	Communication Theory	515EOE01	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.	View
64	EEE	Computers Networks	515EOE02	Skill Development- This course develops the basic skill about the architecture of computer networks and the functionalities.	
65	EEE	Computer Organization and Architecture	515EOE03	Skill Development- This course develops the basic skills about the architecture of computer organization.	
66	EEE	Signals and Systems	515EOE04	Skill Development- This course develops the basic knowledge about analog and digital signals and the analysing techniques.	
67	EIE	Principles of communication systems	515EIT04	Skill Development - Understand the concepts of modulation and demodulation, fiber optic communication system and data communication codes	View
68	EIE	Smart sensors	515EIE06	Employability - Understand the recent trends in smart sensor standards	
69	EIE	Satellite Control and Instrumentation	515EIE09	Skill Development - Adequate knowledge on the application of satellite system	
70	EIE	Management and Entrepreneurship	615EIE05	Entrepreneurship - Analyze the Evolution of entrepreneurship	
71	IT	Internet Programming	515ITT01	Skill Development - Students could design and develop websites and documents using HTML and XML	View
72	IT	Internet Programming Laboratory	515ITP07	Skill Development - Students could design and develop websites and documents using HTML and XML	
73	IT	Advanced Database Management Systems	515ITE04	Skill Development -course content helps to learn various DB design principles and techniques to build web application	
74	IT	Applied Statistics and Numerical Methods	515MAE01	Employability - This course will help the students to model the real-life problems	
75	IT	Discrete Mathematics	515MAE02	Skill Development -Course enables students to apply Maths for Computer Science	
76	IT	Algebra and Number Theory	515MAE03	Employability - This course will help the students to model the real-life problems	
77	IT	Graph Theory and its Applications	515MAE04	Skill Development - This beginner course covers the fundamental concepts in graph theory and some of its applications.	
78	IT	UNIX Internals	615ITT03	Skill Development - This course is designed to enable the student to use the UNIX operating system.	
79	IT	Open Source Software Laboratory	615ITP08	Skill Development - This course is designed to enable the student to use the UNIX operating system.	
80	IT	Semantic Web	615ITE03	Skill Development - This course is to teach the students the concepts, technologies and techniques underlying and making up the Semantic Web	

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81	IT	Game Programming	615ITE05	Skill Development - This course introduces students to the creation of 2D digital images, 3D games assets and the design of levels using assets.		
82	ME	Design Concepts in Engineering	515MEE01	Employability - This course will enhance students in design process, material selection and material processing for designing machine members according to current scenario of the industry.	View	
83	ME	Production and Operations Management	515MEE02	Skill Development - This course focus on role of operations management in the overall business strategy of the firm.		
84	ME	Introduction to Nanotechnology	515MEE03	Skill Development - Students will be more familiar on various synthesis and characterization techniques involved in nanotechnology.		
85	ME	Computer Aided Machine Drawing	515MEP09	Skill Development - This course focus on concepts of machine drawing and to design machine parts using modelling software based on industry needs.		
86	ME	Industrial Relation and Organizational Development	615MEE01	Entrepreneurship - This course will give knowledge on industrial conflicts, industrial safety system, integration, centralization, decentralization and standardization which will be useful to be a good entrepreneur.		
87	ME	Metal Forming Techniques	615MEE06	Employability - Students will have the ability to work with the forging and rolling operations and to develop new components by using new techniques.		
88	ME	Additive Manufacturing	615MEE09	Employability - By knowing different rapid prototyping techniques, students can adhere to industry environment easily.		
89	ME	Non-Destructive Testing and Materials	615MEE12	Employability - This course will enhance the students to know more about the NDT techniques for flaw detection in different materials used in industry.		
90	MCA	Internet of Things	515CAT01	Skill Development- A Physical design to interact a device with internet application explored the embedded system.		View
91	MCA	Big Data Management	515CAT03	Skill Development- Semantic skill with data representation focused on Volume, Velocity and variety.		
92	MCA	Open-Source Technologies	515CAE02	Skill Development- Programming Skills with open source were developed to attain the requirements of IT Sector		
93	MCA	Digital Marketing Management	515CAE09	Entrepreneurship - Marketing strategies in the digital world to develop the business in Local / National / International Level		
94	MCA	Open-Source Technologies Lab	515CAL02	Skill Development- Program Skills with open source were developed to attain the requirements of IT Sector		