



# 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 2018 - 19

S. No	Programme Name	Course Name	Course code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
1	AE	Basic Civil Electrical and Electronics Engineering	118ESE02	Employability - Knowing about concrete materials and electrical wirings in various areas	2018-2019
2	AE	Problem Solving and Python Programming	218PPT05	Employability - freelancer and working in python	2018-2019
3	AE	Material Science	218BSE01	Employability- crystal in lattice points and crystal science	2018-2019
4	AE	Design and Fabrication of Aeromodelling (Mini Project)	715AEP08	Employability - Conduct experiments by considering the constraints such as economics, environment, health and safety.	2018-2019
5	AE	Industrial Internship	715AEP12	Entrepreneurship - Establishes desirable work habits, attitudes, and communication skills while developing a sense of responsibility	2018-2019
6	ARCH	Personality Development	118ARE01	Employability/Entrepreneurship/Skill Development - Equip students achieve effectiveness in their professional activities, harness skills and develop qualities suited for the profession.	2018 - 2019
7	ARCH	Art Appreciation	118ARE02	Employability/ Skill Development - Enabling students to understand visual awareness, creativity and cultural understanding of Design as a Multidimensional creative Art.	2018 - 2019
8	ARCH	Communication Skills	118ARE03	Skill Development - Equip students with good spoken and written skills in English, awareness and skills about various intellectual gatherings and business presentation skills, advertising, journalism for media and architectural journalism	2018 - 2019
9	ARCH	Foreign Language	118ARE04	Employability/ Skill Development - Equip students with good spoken and written skills in International Languages in terms of business presentation skills, architectural journalism and to peruse higher education.	2018 - 2019
10	ARCH	Clay Modeling	218ARE01	Employability/ Entrepreneurship/ Skill Development - Gain Knowledge on the physical and anatomical elements of 3D forms and capability to express the concepts three dimensionally.	2018 - 2019
11	ARCH	Presentation and Rendering techniques	218ARE02	Employability/ Entrepreneurship/ Skill Development - Acquire skills in presentation, rendering techniques, visual expression and explore in different medium and materials.	2018 - 2019

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12	ARCH	Model Making	218ARE03	Employability/ Entrepreneurship/ Skill Development - Equip students with the basic skills necessary to represent their ideas with various tools essential for making architectural models.	2018 - 2019
13	ARCH	Creative Workshop	218ARE04	Employability/ Entrepreneurship/ Skill Development - Enable students to understand the characters of modeling and visual representation of ideas through different mediums.	2018 - 2019
14	ARCH	Gender, Culture and Development	X18GET01	Skill Development - Awareness of their surroundings, society, social problems and their sustainable solutions, while keeping human relationships and human nature in mind and also become sensitive to their commitment towards what they believe in.	2018 - 2019
15	ARCH	Construction Management	715CEO02	Employability/ Entrepreneurship - Students able to research, analyze, evaluate and discuss a wide range of construction technologies and management strategies.	2018 - 2019
16	ARCH	Services in High Rise Buildings	715ARE01	Employability - Impart knowledge about the Structures and special service requirements of tall buildings and create awareness about the systems, equipment and materials that are commonly employed in high rise buildings.	2018 - 2019
17	ARCH	Advanced Structures	715ARE02	Employability - Inculcate the basic concepts of pre stressing and familiarize the students with the tall building structural system and various types of shells and folded plates for the large span structures.	2018 - 2019
18	ARCH	Contemporary Process in Architecture	715ARE03	Employability/Skill Development - Expose the students to the new processes in the development of concept and design in relation with the computation.	2018 - 2019
19	ARCH	Affordable Housing	715ARE04	Employability - In-depth knowledge of various building materials, specifications and construction detailing techniques of affordable buildings satisfy the need and demand of housing in today context.	2018 - 2019
20	BT	Employability Skills Lab	715BTP09	Employability - The course provides entrepreneurship-based skills like managing a firm, small business and to startups	2018 - 2019
21	BT	Analytical Techniques In Biotechnology Lab	715BTP10	Entrepreneurship - The course will help the students to enhance their language skills to the next level and will hone their presentation skills, active participation in GD, critical thinking and leadership skills.	2018 - 2019

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22	BME	Problem Solving and Python Programming	118PPT05	Skill Development- This course will help students to understand python programs with conditionals and loops	2018 - 2019
23	BME	Problem Solving and Python Programming Laboratory	118PPP08	Skill Development- This course will help to implement python programs with conditionals and loops	2018 - 2019
24	BME	Disaster Management and Mitigation	815BME06	Skill development-Students can able to understand the basic concepts of fundamentals of disaster management and get the knowledge of environmental disaster	2018 - 2019
25	BME	Brain Computer Interface and Application	815BME08	Employability-Learn the concept of machine learning methods and brain activation patterns	2018 - 2019
26	BME	Medical Robotics	815BME09	Skill Development-Enable student to get knowledge on basics of inverse kinematics and concept of robot vision	2018 - 2019
27	BME	Wearable Systems	815BME10	Skill Development-This course enable students to understand the technical challenges of sensor design and energy harvesting for wearable devices	2018 - 2019
28	CH	Environmental Science and Engineering	218GET03	Skill development-Development and improvement in standard of living has led to serious environmental disasters	2018 - 2019
29	CH	Problem Solving and Python Programming	218PPT05	Skill development-Develop algorithmic solutions to simple computational problems, Structure simple Python programs for solving problems	2018 - 2019
30	CH	Problem Solving and Python Programming Laboratory	218PPP08	Skill development- Implement Python programs with conditionals and loops, debug and develop Python programs step-wise by defining functions and calling	2018 - 2019
31	CH	Chemistry for Technologists	218ESE08	Skill development- Suggest the applications of gas laws in real life situations, characteristics and properties of solutions	2018 - 2019
32	CH	Mathematical Methods for Chemical Engineers	715CHE01	Skill development-Analyze the involvement of matrix and linear Algebraic equations in chemical engineering, of eigen values and eigen vectors in process control, application of ordinary differential equations in chemical reaction engineering, application of hyperbolic, elliptic and parabolic equations in mass transfer, numerical solution of linear and nonlinear algebraic equations in fluid mechanics and separation processes	2018 - 2019
33	CH	Introduction to Statistical Thermodynamics	715CHE03	Skill development-Understand how partial function relates the basic thermodynamic	2018 - 2019

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				properties, equations relating the thermodynamic properties and intermolecular potential and chemical equilibrium	
34	CH	Solid waste Management	715CHE05	Skill development-Judge the nature and characteristics of municipal solid wastes and the regulatory requirements regarding municipal solid waste management and plan waste minimization, design and storage to reduce waste	2018 - 2019
35	CH	Programming Using MATLAB	715CHE06	Skill development-Suggest MATLAB in solving complex problems of chemical engineering through implementation of arrays, functions and statements	2018 - 2019
36	CH	Catalyst Science and Technology	715CHE09	Skill development- Suggest a kinetics for heterogeneous reaction, preparation of catalyst, its characterization, modelling and simulation	2018 - 2019
37	CH	Chemical Process flow sheeting	815CHE03	Skill development- Suggest an equation modular approach to solve complex problems by applying P&ID methods for any process	2018 - 2019
38	CH	Air Pollution Control and Design of Equipment	815CHE05	Skill development-Design an air pollution control equipment such as cyclone separator, fabric filter, electrostatic precipitator and wet scrubber through the identification of sources and effects	2018 - 2019
39	CH	Drugs and Pharmaceutical Technology	815CHE06	Skill development- Design and develop new drug, formulate the excipients in tablets, powders, capsules, microcapsules and coating techniques	2018 - 2019
40	CH	Heterogeneous Catalysis	815CHE07	Skill development- Design reactors for heterogeneous catalytic reactions, mechanisms and kinetic analysis by characterizing the catalyst	2018 - 2019
41	CH	Bioreactor Design	815CHE08	Skill development- Design a bioreactor considering mass transfer between different phases, accessories and internals like agitator, sterilizer, controllers, bioreactor considering all its related problems	2018 - 2019
42	CH	Supply Chain Management	815CHE09	Entrepreneurship- Decide on the logistics/supply chain system by implementation of effective inventory management policy, demand variability, forecasting of revenue management	2018 - 2019
43	CH	Professional Ethics and Human Values	815CHE12	Entrepreneurship-Judge role in various global issues and apply ethical principles to resolve situations and also pursue career with professional ethics by adopting ethical theories	2018 - 2019

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44	CE	Engineering Optimization	715CEE02	Employability-Students will learn important skills associated with optimization of different processes	2018 - 2019
45	CE	Rock Mechanics	715CEE03	Employability -gain knowledge on geological factor on rock and solve the field problems associated with rocks and have a knowledge of classification of rock mass	2018 - 2019
46	CE	Fundamentals of Mining	715CEE04	Employability-Analyze the concepts of Mining and their impacts	2018 - 2019
47	CE	Cartography	715CEE05	Employability-Understand data model and data structure used for spatial data	2018 - 2019
48	CE	Global warming	715CEE06	Employability-An insight into carbon cycle, physical basis of the natural greenhouse effect, including the meaning of the term radiative forcing, climate change, global warming and measures to adapt and to mitigate the impacts of climate change	2018 - 2019
49	CE	Indian Constitutional Society	715CEE09	Employability-Have knowledge on Structures of the Union Government and Functions	2018 - 2019
50	CE	House Planning & Management	715CEE12	Employability- knowledge on planning, design, evaluation, construction and financing of housing projects	2018 - 2019
51	CE	Performance appraisal of Large projects	715CEE14	Entrepreneurship-Ability to understand objectives of performance management. Ability to know the realities of ethics in management.	2018 - 2019
52	CE	Urban & Regional Planning	715CEE16	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.	2018 - 2019
53	CE	Rural Infrastructure Development	715CEE17	Employability- gain knowledge on rural infrastructure and transportation systems	2018 - 2019
54	CE	Cadastral Mapping & Land Management	715CEE19	Skill Development- knowledge of Large Scale and Cadastral Mapping.	2018 - 2019
55	CE	Transport Project Planning & Evaluation	815CEE07	Employability-Understand principles of transportation Systems Approach and modeling the complex and dynamic traffic and transportations systems.	2018 - 2019
56	CE	Fundamental of Industrial structures	815CEE09	Skill Development-Identify the various types of steel roof trusses and various loads acting over it , analyze and design it.	2018 - 2019
57	CE	Offshore structures	815CEE10	Employability-The students will get an exposure to analyse and design the offshore structures in addition to modelling	2018 - 2019
58	CE	Tall structures	815CEE11	Employability-knowledge on analyse the behavior of tall buildings subjected to lateral	2018 - 2019

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				loading and perform computerized general three-dimensional analysis for high rise building	
59	CSE	Problem Solving and Python Programming	118PPT05	Employability -The course will help the student to enhance their python programming language Skills to apply in Real Time problems	2018-2019
60	CSE	Problem Solving and Python Programming Laboratory	118PPP08	Employability -The course will help the student to enhance their python programming language Skills to apply in Real Time problems	2018-2019
61	ECE	Problem Solving and Python Programming	118PPT05	Employability -The course will help the student to enhance their python programming language skills to apply in Real Time problems	2018-2019
62	ECE	Problem Solving and Python Programming Laboratory	118PPP08	Employability -The course will help the student to enhance their python programming language skills to apply in Real Time problems	2018-2019
63	ECE	Basic Electrical Electronics and Instrumentation Engineering	118ESE06	Employability -This course practical knowledge in electrical, electronics and instrumentation Engineering for Real Time problems	2018-2019
64	ECE	Physics for Electronics Engineering	218BSE08	Skill Development-This course gives knowledge about fundamental physics in electronics engineering	2018-2019
65	ECE	RF System Design	715ECT01	Skill Development- Students can analyse and test RF Circuits in communication industry	2018-2019
66	ECE	Engineering Ethics And Human Values	715ECE01	Employability-Provides knowledge on code of ethics that a student has to follow in an organization.	2018-2019
67	ECE	Remote Sensing	715ECE07	Skill Development-student should have knowledge on concepts and applications leading to modelling of earth resources management using remote sensing	2018-2019
68	ECE	Wireless Communication	715ECE10	Skill Development-Enables students to design various wireless communication modules in communication industry	2018-2019
69	ECE	Advanced Microcontrollers	715ECE11	Employability-Students can work in controller programming to control various real-time applications	2018-2019
70	ECE	Statistical Signal Processing	815ECE05	Employability - Able to design analog and digital filters in signal processing	2018-2019
71	ECE	Wavelets and its applications	815ECE07	Skill Development-Students able to learn different wavelets patterns and apply in real time applications	2018-2019
72	ECE	ASIC Design	815ECE08	Employability - Provides chance to work in ASIC VLSI industry to design and fabricate integrated circuits	2018-2019
73	ECE	Satellite Communication	815ECE09	Employability - Gives the ability to design various communication modules in	2018-2019

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				communication industry	
74	ECE	Low Power VLSI Design	815ECE11	Employability - Students can work in VLSI industry to design and fabricate integrated circuits	2018-2019
75	EEE	Problem Solving And Python Programming	118PPT05	Skill Development-This Course helps to develop the basic software language skill to the students.	2018-2019
76	EEE	Problem Solving and Python Programming Laboratory	118PPP08	Skill Development-This course develops the knowledge of python language skill to the students by applying the programming language in real time applications.	2018-2019
77	EEE	Environmental Science and Engineering	218GET03	Skill Development- This course deals with the environmental issues in the real world and the way to solve the environmental disaster by applying the engineering skills.	2018-2019
78	EEE	Electron Devices and Circuits Laboratory	218EDP09	Skill Development- This course provides practical knowledge of electrical circuits and electron devices by practicing the experiments.	2018-2019
79	EEE	Renewable Energy Sources	715EET04	Employability- The course deals with the principles of renewable energy sources for electrical power generation which ensures the student employment in power stations.	2018-2019
80	EEE	Microcontroller Based System Design	715EEE05	Employability- This course deals with the microcontroller-based system design concepts which ensures the employability opportunity to the students.	2018-2019
81	EEE	Artificial Neural Networks	715EEE08	Skill Development- This programme provides the optimization techniques skills in neural networks	2018-2019
82	EEE	Advanced Digital Signal Processing	715EEE11	Skill Development- This course deals with the filter design and advanced transform techniques	2018-2019
83	EEE	Modeling and Simulation of Dynamics Systems	715EEE13	Skill Development- This course provides knowledge about system and sensor modeling and the effects.	2018-2019
84	EEE	Distributed Generation and Micro Grid	815EEE04	Employability- This course discusses about the principles and structure of Micro Grid for smart electrical power generation which ensures the student employment in power grid.	2018-2019
85	EEE	ARM core Architecture and Programming	815EEE06	Skill Development- This course provides knowledge about the Arm processor, its architecture and programming.	2018-2019
86	EIE	Problem Solving and Python Programming	118PPT05	Skill Development-This Course helps to develop the basic software language skill to the students.	2018-2019
87	EIE	Problem Solving and Python Programming Laboratory	118PPP08	Skill Development-This course develops the knowledge of python language skill to the	2018-2019

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				students by applying the programming language in real time applications	
88	EIE	Environmental Science and Engineering	218GET03	Skill Development- This course deals with the environmental issues in the real world and the way to solve the environmental disaster by applying the engineering skills	2018-2019
89	EIE	Electron Devices and Circuits Laboratory	218EDP09	Skill Development- This course provides practical knowledge of electrical circuits and electron devices by practicing the experiments.	2018-2019
90	EIE	Industrial Data Networks	715EIT01	Skill Development - Knowledge about the computer networks, the methods of internetworking and industrial data communication	2018-2019
91	EIE	Product design and Development	715EIT04	Employability - Analyze the various parts of robots and fields of robotics	2018-2019
92	EIE	ASIC Design	715EIE05	Skill Development - Design of digital system and programming skills in HDL language	2018-2019
93	EIE	Digital Video Analytics	715EIE07	Skill Development - Analysis of video analytics and their applications	2018-2019
94	EIE	Fault Detection and Diagnosis	715EIE08	Skill Development - knowledge of Faults and different issues involved in FDD and Fault diagnosis	2018-2019
95	EIE	Mechatronics	715EIE10	Skill Development - Knowledge of Actuation Systems, system models and controllers	2018-2019
96	EIE	Disaster Management	815EIE05	Entrepreneurship - Application of technology in disaster management	2018-2019
97	EIE	Reliability engineering	815EIE06	Skill Development - Analyzing Reliability Prediction methodologies and Allocation	2018-2019
98	EIE	Vibration Analysis and Control	815EIE07	Skill Development - Understand the basics of vibration and its importance in Engineering field	2018-2019
99	EIE	Building Automation	815EIE08	Employability - Analyze current philosophy, technology, terminology, and practices used in building automation	2018-2019
100	IT	Problem Solving and Python Programming	118PPT05	Employability -The course will help the student to enhance their python programming language skills to apply in Real Time problems	2018-2019
101	IT	Problem Solving and Python Programming Laboratory	118PPP08	Employability -The course will help the student to enhance their python programming language skills to apply in Real Time problems	2018-2019
102	IT	Basic Electrical Electronics and Instrumentation Engineering	118ESE06	Skill Development - This course helps students can acquire the knowledge about applications of electronics measurements and understand the actual field where electronics measurements are required for measurement purpose in instrumentation field.	2018-2019
103	IT	Physics for Information	218BSE09	Employability - Course helps to understand the	2018-2019

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		Science		various aspects of Information science and the skill sets necessary for a data scientist	
104	IT	Mobile Application Development	715CIT03	Skill Development - This course enables the student to develop his skills set in mobile application development	2018-2019
105	IT	Mobile Application Development Laboratory	715CIP07	Skill Development - This course enables the student to develop his Practical skills set in mobile application development	2018-2019
106	IT	Cloud Computing Laboratory	715CIP08	Skill Development and Employability - Foundations to emerging technology - Study of virtualization concepts and various Cloud Computing Architecture, Service and Delivery models	2018-2019
107	IT	Internet of Things	715CIE01	Employability - Learning various IoT platforms to build smart applications	2018-2019
108	IT	Agile Software Development	715CIE05	Skill Development -Course provides skills to learn and use agile software and usability Engineering	2018-2019
109	IT	Big Data Analytics	815CIT01	Skill Development -This course enables the student to analyse volumes data and skim out valuable information	2018-2019
110	IT	Software Defined Networks	815CIE01	Skill Development - The students gets knowledge about how it is changing the way communications networks are managed, maintained, and secured.	2018-2019
111	IT	Foundation Skills in Integrated Product Development	815ITE03	Skill Development - The students get knowledge of the Innovation and Product Development process in the Business Context.	2018-2019
112	IT	High Performance Networks	815CIE04	Employability - Students can develop and test high speed networks in communication industry	2018-2019
113	IT	Green Computing	815CIE05	Entrepreneurship - This course enables the student to Acquire knowledge to adopt green computing practices to minimize negative impacts on the environment.	2018-2019
114	IT	Agent Based Intelligent Systems	815ITE08	Entrepreneurship - This course enables students to learn more and better knowledge.	2018-2019
115	IT	Cyber Forensic and Ethical Hacking	815CIE09	Employability, Entrepreneurship - Students can understanding who 'hackers' typically are, the techniques they use to break into systems and the way we defend against them.	2018-2019
116	ME	Internship & Technical Seminar	715MEP07	Skill Development - This course will give practical exposure and learn about various activities happening in the industries.	2018-2019
117	ME	Design of Materials Handling Equipment	715MEE06	Employability - This course focus on designing of material handling equipment such as hoist, conveyors, elevators, escalators, etc. applicable	2018-2019

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				for different industries.	
118	ME	Design of Thermal Equipments	715MEE08	Employability - This course will give an exposure to design thermal equipment such as heat exchangers, cooling towers, etc.	2018-2019
119	ME	Supply Chain Management	815MEE01	Skill Development - This course focus on logistics and supply chain management, design network, revenue management related to industry.	2018-2019
120	ME	Fracture Mechanics	815MEE03	Employability - This course will enhance on fatigue crack growth of different materials, behavior of material failures.	2018-2019
121	ME	Industrial Safety and Hazard Managements	815MEE04	Entrepreneurship - This course focus on safety measures to be maintained in the industry.	2018-2019
122	ME	Theory of Elasticity	815MEE08	Employability - This course will give more knowledge on different types of stress, strain and its applications.	2018-2019
123	ME	Disaster Management	815MEE10	Skill Development - This course will enhance the students to be familiar with the natural calamities and be prepared for any situation in real life.	2018-2019
124	ME	Cogeneration and Waste Heat Recovery Systems	815MEE12	Skill Development - This course will give more knowledge on waste heat recovery systems and to carry out its economic analysis.	2018-2019
125	MBA	Executive Communication	118BAP01	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	2018-2019
126	MBA	Information Management	118BAE11	Employability-This Course helps by boosting knowledge and skill will put you in a position where your career can move forward into managerial roles Skill Development-This Course helps for studying of people, technology, organizations, and the relationships among them	2018-2019
127	MBA	International Business Management	218BAT06	Employability-This Course give students an understanding of the different business management practices found all over the world Entrepreneurship-This Course teach students a wide range of skills including developing new products and ideas, business processes to start a new venture, and evaluating a new business	2018-2019

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				Skill Development-This course support students able to work, communicate, sell to or buy from people in different countries, working in different times zones, with different ways of doing things is essential	
128	MBA	Managerial Skill development - I	218BAV01	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 fulfill specific tasks in an organization to run successfully Skill Development- This course helps to planning, organizing, leading, and controlling, managers must use a wide variety of skills	2018-2019
129	MBA	Data Analysis and Business Modelling Lab	218BAP02	Employability- This course is management framework based on the belief that an organization can build long-term success by having all its members, from low-level workers to its highest ranking executives, focus on improving quality and, thus, delivering customer satisfaction Skill Development- This course helps to determination of a quality policy, creating and implementing quality planning and assurance, and quality control and quality improvement	2018-2019
130	MCA	Introduction to Unix	118CAE09	Skill Development- Establish knowledge in Unix platform	2018-2019
131	MCA	Unix Lab	118CAL05	Skill Development- Establish knowledge in Unix platform	2018-2019
132	MCA	Internet Programming	218CAT02	Skill Development- Extended knowledge in Internet with to develop various applications	2018-2019
133	MCA	Object Oriented Programming and Data Structures	218CAT03	Skill Development - Explore the Programming based on Object Oriented with Data Structure-How and where the data stored.	2018-2019
134	MCA	Internet Programming Lab	218CAP06	Skill Development-Lab Exercise in extended knowledge in Internet with to develop various applications	2018-2019
135	MCA	Data structure Lab using C++	218CAL02	Skill Development- Program with Data structure to represent different types using C++	2018-2019
136	M.E CSE	Advanced Mathematics for Computing	118MCT01	Skill Development- this course helps students in boosting their calculating ability	2018-2019
137	M.E CSE	Network Simulation Laboratory	118MCP08	Skill Development- helps to understand the simulation of networks	2018-2019
138	M.E CSE	Agile Software Engineering	118MCE03	Skill Development -Course provides Skills to learn and use agile software and usability	2018-2019

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				Engineering	
139	M.E CSE	Artificial Intelligence	118MCE04	Skill Development- this course provides the knowledge of understanding and developing an artificial intelligence	2018-2019
140	M.E CSE	Web Engineering	118MCE05	Employability - this course helps students to design web-based applications	2018-2019
141	M.E CSE	Internet of Things	218MCT04	Employability - Learning various IoT platforms to build smart applications	2018-2019
142	M.E CSE	Operating System Internals	218MCE05	Employability - this course helps students to working with various kinds of different operating systems	2018-2019
143	M.E CSE	Data Mining Laboratory	218MCP08	Skill Development- this course helps to work practically with metadata and store them in a storage grid and perform metadata handling	2018-2019
144	M.E CSE	Multimedia Compression Techniques	218MCE02	Skill Development- this course teaches students to organize, edit and perform various tasks in/with multimedia files	2018-2019
145	M.E CSE	Social Network Mining and Analysis	218MCE04	Skill Development- students involve in working with social media data and analysing the different updates of technologies that taking place up to date	2018-2019
146	M.E-CS	Wavelet Signal Processing	118COE04	Skill Development-This courses gives the ability to generate the different family of wavelets for real-time applications.	2018-2019
147	M.E-CS	WDM Optical Networks	118COE05	Employability-Devise and Manage Optical Network for desired Application	2018-2019
148	M.E-CS	Analysis and Design of Planar Transmission Lines	218COE05	Skill Development-Design of strip lines and co-planar lines.	2018-2019
149	M.E-CS	DSP Processor Architecture and Programming	218COE14	Employability-Implement the different processor for domestic and industrial applications	2018-2019
150	M.E-CS	Smart Antennas	218COE16	Employability-Able to design the smart antenna application with optimal spatial filtering and adaptive algorithms for CDMA.	2018-2019
151	M.E-CS	Cognitive Radio	218COE17	Employability-Able to design the wireless networks based on the cognitive radios	2018-2019
152	M.E-CS	Ultra-Wide Band Communication	218COE18	Employability-Able to design ultra-wide band antennas in communication industry	2018-2019
153	M.E. ED	Optimization Techniques in Design	118EDT05	Employability - This course will give more knowledge on optimization techniques and its application on various industries.	2018-2019
154	M.E. ED	Composite Materials and Mechanics	118EDE04	Employability - This course enhances the students to produce different types of composites and to perform test on composite materials.	2018-2019
155	M.E. ED	Integrated Mechanical Design	218EDT03	Skill Development - This course emphasis on designing different machine elements such as	2018-2019

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				shaft, gear boxes, brakes, etc.	
156	M.E. ED	Mechanisms Design and Simulation	218EDT04	Employability - This course will enhance the students to develop innovative mechanisms for different applications.	2018-2019
157	M.E. ED	Plates and Shell	218EDE08	Skill Development - The students will be able to analyse the stress and moment of different geometry and can perform buckling analysis on plates.	2018-2019
158	M.E. PSE	Industrial Power System Analysis and Design	118PSE03	Skill Development- This course provides the designing and analytical skills in the power system network.	2018-2019
159	M.E. PSE	Electric and Hybrid Vehicles	118PSE04	Employability- This course provides the knowledge about electrical and hybrid vehicle design and management which provides the job opportunity in electric vehicle domain.	2018-2019
160	M.E. PSE	Advanced Power System Protection	218PST03	Employability- This course provides the knowledge about the techniques to protect the equipments and protection schemes in the substation which ensures the employment in the substation.	2018-2019
161	M.E. PSE	Distributed Generation and Micro Grid	218PST04	Employability- This course discusses about the principles and structure of Micro Grid for smart electrical power generation which ensures the student employment in power grid.	2018-2019
162	M.E. PSE	Seminar	218EEP07	Skill Development- This course enhances the student's presentation skills in the power system.	2018-2019
163	M.E. PSE	Power System Economics and Control	218PSE03	Skill Development- This course develops the skill by providing the knowledge about the methods of improving the profit in the electrical energy	2018-2019
164	M.E. PSE	Electromagnetic Interference and Compatibility	218PSE07	Skill Development- This course provides the knowledge about the electromagnetic interference problems in the communication and the way to handle it which develops the student analytical skill in power system.	2018-2019
165	M.E. SE	Cracks and Crack Control in Concrete Structures	118SEE03	Employability - compute crack width, deflection long and short-term values. Will be able to measure cracks and remedy for control of cracks	2018-2019
166	M.E. SE	Design of Precast Components and Ferrocement	218SEE04	Skill Development - design theories of precast components and its behavior. Also gain knowledge about manufacture, transport and erection technologies of precast components	2018-2019
167	M.E. SE	Construction Safety And Management	218SEE07	Entrepreneurship - gain comprehensive knowledge on the cause of accident and construction industry related laws. Also gain	2018-2019

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				knowledge about the safety in various aspects of construction.	
168	M.E-VLSI	Data Converters	118VLE01	Employability- this course provides a way to develop pipeline architectures in real time applications.	2018-2019
169	M.E-VLSI	Security Solutions in VLSI	118VLE04	Employability- Design and implement the design principles of firewall	2018-2019
170	M.E-VLSI	Solid State Device Modelling and Simulation	218VLE03	Skill Development-Compute various mathematical technique for device simulation	2018-2019
171	M.E-VLSI	Artificial Intelligence and Optimization Techniques	218VLE06	Employability-Apply computational Intelligence techniques to classification, pattern recognition, prediction rule extraction, and optimization problems.	2018-2019
172	M.E-VLSI	Introduction to MEMS System Design	218VLE11	Employability- Students develop Model MEMS system	2018-2019
173	M.E-VLSI	Scripting languages	218VLE15	Employability-Write PERL scripting, TCL scripting, ADVANCED TCL and JAVA scripting for real time applications	2018-2019
174	M.E-VLSI	Advanced MOSFET Modelling	218VLE18	Skill Development-Able to develop and simulate compact model MOSFET	2018-2019

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