

1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific outcomes (PSOs) and Course Outcomes (COs) of the Programmes offered by the Institution.

Adhiyamaan College of Engineering (ACE) offers curricula which provide Quality-Skills cum Value-Based Education with unique learning objectives in relevance to the local/regional/national/global developmental needs.

B.E. Aeronautical Engineering:


Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
318AEE07	Airport Operations and Management	National	Environmental Sustainability
318AEE08	Pollution Control in Aircraft Industries	National	Environmental Sustainability
318AEE09	Environmental Safety management	Local/Global	Environmental Sustainability
318AEE10	Renewable Energy Systems for Aircraft	National/Global	Environmental Sustainability
718AEE08	Airworthiness and Certification	National/Global	Environmental Sustainability
718AEE13	Robotics and Automation	Global	Start-up India
718AEE14	Industrial Engineering and Management	Local/National	Start-up India
718AEE07	High Temperature Materials	National	Smart India
418AEE07	Aerospace Materials	National/Global	Smart India
618AET01	Composite Materials and Structures	National	Smart India
418AET03	Aircraft Systems and Instruments	National	Made in India
518AEE14	Introduction to Space Systems	Global	Made in India
518AEE11	Unmanned Aircraft Systems	National	Made in India
818AEE03	Missile technology	National	Made in India
818AEE04	Space flight mechanics	National/Global	Made in India
618AEE06	Intellectual Property Rights	Global	Skill India
718AEE11	Principles of Management and Business Concepts	Global	Skill India


PRINCIPAL
ADHIYAMAAN COLLEGE OF ENGINEERING
Dr. M.G.R. NAGAR,
HOSUR - 635 109.

B. Arch. Architecture:

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
118ART03	Architectural Drawing I	National	Skill India
118ARP05	Art Studio	National	Skill India
118ARE01	Personality development	Global	Cross cultural relations
218ART04	Architectural Drawing - II	National	Skill India
218ART05	Materials and Construction - II	Local Needs	Based on the needs of local Industry
218ARE01	Clay Modelling	National	Skill India
218ARE03	Model Making	National	Skill India
318ART03	Climate Responsive Architecture	National	Smart City
318ART04	Materials and Construction – III	Local Needs	Based on the needs of local industry
318ARP06	Computer Aided Design Studio	National	Digital India
318ARE03	Vernacular Architecture of India	National	Smart City
418ART01	Analysis & Design of Structures – I	Local Needs	Based on the needs of local industry
418ART02	Environmental Science and Services	National	Smart City
418ART04	Materials and Construction – IV	Local Needs	Based on the needs of local industry
418ARE01	Energy Efficient Architecture	National	Smart City
418ARE03	Ergonomics in Building Design	National	Skill India
518ART03	Materials and Construction - V	Local Needs	Based on the needs of local industry
518ART04	Building Services I (Electrical and Acoustic)	Local Needs	Based on the needs of local industry
518ARE01	Structure and Architecture	Local Needs	Based on the needs of local industry
518ARE02	Waste management and recycling	Local Needs	Smart City
618ART01	Specification Estimation & Budgeting	Global	International Finance
618ART02	Interior Design Principles	Regional	Generation Employment and entrepreneurship in the rural area
618ART03	Building Services – II (Mechanical & HVAC)	Local Needs	Based on the needs of local industry
618ART04	Materials and Construction - VI	Local Needs	Based on the needs of local industry
618ARE02	Product Design	National	Skill India
618ARE03	BIM	National	Digital India
815CEE05	Valuation of Real Properties	Regional	Generation Employment and entrepreneurship in the rural area
718ART01	Landscape Architecture & Design	National	Smart City
718ART02	Human Settlement Planning	Global	Cross cultural Relations
718ARP03	Architectural Working Drawing & detailing	National	Skill India
718ARE01	Sustainable Planning and Architecture	National	Smart City

818ART01	Urban Design	Global	Cross cultural Relations
818ART02	Professional Practice & Ethics	Regional	Generation of Employment
818ARE01	Architectural Conservation	Global	Cross cultural Relations
818ARE04	Disaster Mitigation & Management	Global	Cross cultural Relations
818ARE05	Urban and Regional Planning	Global	Cross cultural Relations
818ARE06	Contemporary Housing	National	Smart City
915ARP01	Internship Program	Regional	Generation of Employment



PRINCIPAL
ADHYAMAAN COLLEGE OF ENGINEERING
HOSUR, M.G.R. N.P.,
HOSUR - 535 109.

B.E. - Bio-Medical Engineering:

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
218GET03	Environmental Science and Engineering	National	National Afforestation Programme
218BSE04	Energy Storage Devices and Fuel Cells	National	<i>Ujwal Bharat</i>
218EDT05	Electric Circuits and Electron Devices	National	Digital India
318BMT06	Fundamentals of Data structure in C	National	Skill India
418BMT02	Analog Integrated Circuits	National	Digital India
418BMT03	Digital Logic Design	National	Digital India
418BMP07	Integrated Circuits Laboratory	National	Digital India
418BMT06	Signals, Systems and Analysis	National	(IMPRINT)- India
518BMT02	Digital Signal Processing and Biomedical Applications	National	(IMPRINT)- India
518BMT05	Analog and Digital Communication	National	National Council for Science & Technology Communication
518BMP09	Digital Signal Processing Lab	National	Impacting Research Innovation and Technology (IMPRINT)- India
618BME06	Bio signal Processing	National	Impacting Research Innovation and Technology (IMPRINT)- India
618BMP08	Employability Skills Lab	Regional	Generation of Employment and entrepreneurship
618BMP09	Hospital Training	Regional	Generation of Employment and entrepreneurship
718BMT02	Digital Image Processing	National	(IMPRINT)
718BMP07	Digital Image Processing Lab	National	(IMPRINT)
718BME06	Pattern Recognition and Neural Networks	National	(IMPRINT)
718BME07	Embedded System	National	Digital India
718BMP08	Mini Project	Regional	Generation of Employment and entrepreneurship
718BMP09	Interpersonal Skills/Listening & Speaking	Regional	Generation of Employment and entrepreneurship
718BME13	Disaster Management & Mitigation	National	National Disaster Management System
718BME14	Professional Ethics and Human Values	National	National Anti-Corruption Strategy / VIGIL
818BME02	Nanotechnology	National	Digital India
818BME05	BioMEMS	National	Smart Cities Mission Programme
818BME06	Internet of Things in Medical Applications	National	Smart Cities Mission Programme
818BME09	Medical Robotics	National	Impacting Research Innovation and Technology (IMPRINT)- India
818BME11	Biometrics	National	Digital India
818BMP04	Project Work	Regional	Generation of Employment and entrepreneurship



PRINCIPAL
ADHIYAMAAN COLLEGE OF ENGINEERING
Dr. M.G.R. NAGAR,
HOSUR - 635 109.

B. Tech. Bio Technology

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
118ENT01	Technical English	Global	Societal Needs
118ESE01	Basic civil and mechanical Engineering	Global	Societal Needs
218ENT01	Communicative English	Global	Societal Needs
218GET03	Environmental Science and Engineering	National	Environmental Sustainability
218PPT05	Problem solving and python Programming	National	Skill India
218BSE01	Material science	National	Environmental Sustainability
318BTT05	Instrumental methods of Analysis	National	Start-up India
318BTT06	Basic industrialbiotechnology	National	Start-up India
418BTT04	Fundamentals of unit operations	National	Start-up India
418BTT06	Environmental biotechnology	National	Environmental Sustainability
518BTT01	Bioinformatics	Global	Societal Needs
518BTT02	Genetic engineering	Global	Societal Needs
518BTT03	Bioprocess engineering I	National	Start-up India
618BTT01	Protein engineering	National	Start-up India
618BTT03	Bioprocess engineering – II	National	Start-up India
618BTT0	Health and pharmaceuticalbiotechnology	National	Start-up India
618BTT05	Immunology	Global	Societal Needs
718BTT01	Downstream processing	National	Start-up India
718BTT02	Plant biotechnology	Global	Societal Needs
718BTT03	Animal biotechnology	Global	Societal Needs
718BTT04	Genomics and proteomics	Global	Societal Needs
718BTE01	Clinical research and database Mgt.	Global	Societal Needs
718BTE03	Biosimilar technology	Global	Societal Needs
718BTE04	Rational drug discovery	National	Start-up India
718BTE05	Bioterrorism and national security	National	Societal Needs
718BTE08	Disaster management	National	Societal Needs
718BTE09	Process equipment and plant design	National	Start-up India
818BTT01	Bioethics, IPRand entrepreneurship	National	National Anti-Corruption Strategy
818BTE01	Tissueengineering	Global	Societal Needs
818BTE02	Telemedicine	National	Start-up India
818BTE03	Molecularpathogenesis	Global	Societal Needs
818BTE04	Industrialsafety	Global	Societal Needs
818BTE05	Stem cells in healthcare	Global	Societal Needs
818BTE06	Total QualityManagement	Global	Societal Needs
818BTE07	Agriculturalbiotechnology	Global	Societal Needs
818BTE08	Computationalbiology	Global	Societal Needs
818BTE09	Medicalcoding	Global	Societal Needs
818BTE10	Bio safety	Global	Societal Needs



PRINCIPAL
ADHIYAMAAN COLLEGE OF ENGINEERING
Dr. M.G.R. NAGAR,
HOSUR - 635 109.

B. Tech. Chemical Engineering

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
418CHE02	Sugar Technology	Local/National	GOBAR-dhan, Jal Shakti Abhiyaan
418CHE03	Renewable Energy Technology	Global/Regional	Prime Minister Employment Generation Programme, <i>Ujwal Bharat</i> , GOBAR-dhan, Jal Shakti Abhiyaan
418CHE06	Fuel and Combustion Technologies	Local/National	GOBAR-dhan, IndraDhanush Gas Grid Ltd
518CHE04	Oil and Natural Gas Engineering	Global/National	Jal Shakti Abhiyaan, Perform Achieve and Trade Scheme (PAT)
518CHE02	Fuel cell Technology	Local/National	National Hydrogen Mission
518CHO01	Energy Conservation in Process Industries	Global	Jal Shakti Abhiyaan, Perform Achieve and Trade Scheme (PAT)
618CHT04	Chemical Process Plant Safety	Regional/Local	Occupational Safety and Health under Ministry of Labour and Employment
618CHE01	Energy Conservation and Management in Process Industries	Global	<i>Jal Shakti Abhiyaan</i> , Perform Achieve and Trade Scheme (PAT)
618CHE04	Electrochemical Engineering	National	National Programme on Advanced chemistry cell battery storage
618CHE05	Disaster Mitigation & management	Global	National Disaster Management System
618CHE06	Food Science and Technology	Local/ National	<i>Pradhana Mantri Kisan SAMPADA Yojana (PMKSY)</i>
718CHE02	Biochemical Engineering	Local/ National	National Biotechnology Park Scheme
718CHE05	Solid Waste Management	Global	<i>Swacch Bharat</i> Mission, GOBAR-dhan, Jal Shakti Abhiyaan
718CHE06	Programming Using MATLAB	National	Skill India
718CHE08	Industrial Waste water Treatment	Global	National River Conservation Plan, Environmental Sustainability, National Afforestation Programme
718CHE10	Fundamentals of Nanotechnology	National	Nanoscience & Technology Mission (NSTM)
718CHE11	Computational Fluid Dynamics	National	Skill India
718CHE12	Piping Engineering	National	<i>Jagdishpur-Haldia/Bokaro-Dharma</i> pipeline project
818CHE01	Fermentation Technology	Local/ National	National Biotechnology Park Scheme
818CHE02	Petroleum Refinery Engineering	Global/National	<i>Jal Shakti Abhiyaan</i> , Perform Achieve and Trade Scheme (PAT)

B. E. Civil Engineering

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
318CET04	Construction Materials and Structural Geology	Local	Start up India
318CET05	Engineering Survey	Global	Employability
318CEP07	Engineering Survey Laboratory	Global	Employability
318CEP08	Building Materials and Construction Practices Laboratory	Local	Entrepreneurship
318CEP09	Building Planning and Drawing	National	Entrepreneurship
418CET04	Geotechnical Engineering	Regional	Environmental Sustainability
418CET05	Water Supply Engineering	Regional	Environmental Sustainability
418CEE06	3D Printing and Design	National	Smart India
518CET03	Design of RCC Structures	National	Start up India
518CET05	Concrete Technology	Local	<i>Ujwal Bharat</i>
518CEP07	Environmental Engineering Lab.	Local	Environmental Sustainability
518CEP08	Soil Mechanics Laboratory	Regional	Start up India
518CEP09	Computer Aided Design – I	Global	Digital India
518CEE01	Remote Sensing	Global	Digital India, Smart India
518CEE02	Geographic Information System	Global	Digital India, Smart India
518CEE03	Geo informatics Applications	Global	Digital India, Smart India
618CET02	Design of Steel Structures	National	Start up India
618CEE02	Sanitary Engineering	National	Environmental Sustainability
618CEP07	Computer Aided Design – II	Global	Digital India
618CEP08	Concrete and Highway Engg. Lab.	Local	<i>Ujwal Bharat</i>
618CEP09	Extensive Survey camp	National	Entrepreneurship
618CEE03	Environmental and Social Impact Ass.	National	<i>Ujwal Bharat</i>
718CET01	Estimation and Quantity Surveying	Local	Make in India
718CET02	Irrigation Engineering	National	<i>Ujwal Bharat</i>
718CET03	Disaster Mitigation and Mgt.	National	Environmental Sustainability
718MEO01	Entrepreneurship and e-business	National	Start up India
818CET01	Construction Planning and Project Management	Regional	Entrepreneurship
818CEE06	Maintenance, Repair and Rehabilitation of Structures	Local	Environmental Sustainability
818CEE07	Instrumentation in Civil Engg.	National	<i>Ujwal Bharat, Make in India</i>



PRINCIPAL
ADHIYAMAAN COLLEGE OF ENGINEERING
Dr. M.G.R. NAGAR,
HOSUR - 635 109.

B.E. Computer Science and Engineering

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
318CST03	Database Management Systems	National	Skill India
318CIT04	Object Oriented Programming in C++	National	Skill India
318CIT05	Data Structures	National	Skill India
318CSP08	Database Management Systems Laboratory	National	Skill India
318CSP09	OOPs and Data Structures Laboratory	National	Skill India
418CIT03	Java Programming	National	Skill India
418CIT06	Software Engineering	National	Skill India
418CIP07	Java Programming Laboratory	National	Skill India
518CIE01	C# and .NET Programming	National	Skill India
518CSE02	Scripting Language	National	Skill India
518CST03	Object Oriented Analysis and Design	National	Skill India
518CSP08	Object Oriented Analysis and Design Lab.	National	Skill India
518CST04	Theory of Computation	National	Skill India
618CSP07	Mobile Application Development Lab.	National	Skill India
618CIT03	Data Warehousing and Data Mining	National	Digital India
618CIT01	Mobile Application Development	National	Made in India
618CST05	Artificial Intelligence	National	Smart India
618CSE05	Software Project Management	National	Made in India
618CSE06	Advanced Java Scripting Language	National	Skill India, Smart India
718CIT01	Cryptography and Security in Computing	Global	National Cyber Security Policy
718CIT02	Machine Learning Techniques	National	Smart India
718CIT04	Cloud Computing	National	Digital India
718CIE01	Internet of Things	National	Smart India, Smart Cities
718CIE02	Building Enterprise Application	National	Smart India, Smart Cities
718CIE05	Agile Software Development	National	Smart India
718CIE04	Information Storage Management	National	Smart India, Smart Cities
718CIE06	Cyber Security and Law	Global	National cyber security Policy
818CIT01	Big Data Analytics	National	Smart India, Smart Cities
818CIE09	Digital Forensics	Global	National Cyber Security Policy
818CIE04	Ad hoc and Sensor Networks	National	Smart India



PRINCIPAL
ADHIYAMAAN COLLEGE OF ENGINEERING
Dr. M.G.R. NAGAR,
HOSUR - 635 109.

B. E. Electronics and Communication Engineering

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
218EDT05	Electric Circuits and Electron Devices	Local	IT Manufacturing Industry
318ECT03	Fundamentals of Data Structures in C	National	Skill India
318ECT04	Analog Electronics-I	National	IT Manufacturing Industry
418ECE01	Industrial Electronics	National	Digital India
418ECE02	Consumer Electronics	National	Digital India
418ECE03	Green Electronics	National	Make in India
418ECE05	PCB Design	National	IT Industry, Digital India
518ECT01	Digital Signal Processing	National	National cyber security Policy
518BMT02	Biomedical Instrumentation	National	Make in India
518EIE05	Smart Sensors	National	Smart Cities Mission Programme
518CIO05	Java Programming	National	National cyber security Policy
618ECT02	VLSI Design	Global	Digital India
618ECT03	Cellular and Mobile Communication	National	National Council for Science & Technology Communication
618ECT04	Principles of management	Regional	Employability and entrepreneurship
618ECP09	Employability Skills Laboratory	National	Generation of International Employability
618ECE02	Robotics Engineering	National	Digital India
118BAT03	Professional Ethics and Human Values	National	Skill India
618ITT02	Cryptography and Security in Computing	Global	Digital India
718CST03	Cloud Computing	National	Smart India, Smart Cities
718CSE04	Internet of Things	Global	International Marketing
718ECT01	Ad Hoc and Wireless Sensor Networks	National	National Council for Science & Technology Communication
718ECT02	Optical Communication	National	National Council for Science & Technology Communication
718ECT04	Embedded Systems**	National	Smart Cities Mission Programme
718ECE04	Nano Technology	National	Digital India
718ECE07	Cognitive Radio	National	National Council for Science & Technology Communication
818ECT01	Disaster Mitigation and Management	Regional	National Disaster Management System
818ECE07	ASIC Design	National	Digital India
818ECE08	Satellite Communication	National	National Council for Science & Technology Communication
818ECE10	Low Power VLSI Design	National	Digital India, International Marketing
818ECP04	Project Work	Regional	Employability and Entrepreneurship



PRINCIPAL
ADARSH AN COLLEGE OF ENGINEERING
Dr. M.G.R. NAGAR,
HOSUR - 636 109,

B. E. Electrical and Electronics Engineering

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
318EET06	Fundamentals of Data Structures in C	Local	Digital India
318EET04	Linear Integrated Circuits and Applications	National	Digital India
318EET05	Measurements and Instrumentation	Regional	Make in India
418EET03	Digital Electronic Circuits	National	Make in India
418EET04	Power Generation Systems	National	Ujwal Bharat
518EET04	Protection and Switchgear	National	Ujwal Bharat
518EET05	Transmission and Distribution	National	Ujwal Bharat
618EET03	Power System Analysis and Stability	National	Ujwal Bharat
618EET05	Renewable Energy Sources	National	Ujwal Bharat
618EEE04	Artificial Intelligence and Data Science	Local	Digital India
718EET01	Power System Operation and Control	National	Ujwal Bharat
718EET02	Electric Drives and Control	Regional	Make in India
718EET04	Power Quality Management	National	Ujwal Bharat
818EET01	Electric Power Utilization and Energy Auditing	National	Ujwal Bharat
818EEE02	Disaster Management	Global	National Disaster Management System
818EEE03	Electric Vehicle Technology	Global	Ujwal Bharat
818EEE07	Professional Ethics and Human Values	Regional	National Anti-Corruption Strategy / VIGIL



PRINCIPAL
ADHIYAMAAN COLLEGE OF ENGINEERING
 Dr. M.G.R. NAGAR,
 HOSUR - 635 109.


B. Tech. Information Technology

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
318CIT05	Data Structures	National	Skill India
318CIT02	Digital Electronics	National	Digital India
418CIT04	Java Programming	Global	Skill India
418CIT06	Software Engineering	Global	Digital India
518CIT02	Micro Processor and Microcontroller	Global	Digital India
518CIE05	Computer Graphics and Multimedia Systems	National	Impacting research innovation and Technology
518BAO03/	Engineering Ethics and Human Values	Global	National Anti-Corruption Strategy Start Up I
518EIO04/	Robotics And Automation	Global	Smart India and Smart Cities
518CEO01	Disaster Mitigation and management	Global	National Disaster System
618ITT01	Scripting Languages	National	Skill India
618CIT03	Data warehousing and Data Mining	Global	Research innovation and Technology
618ITT04	Object Oriented Modelling and Design	Global	Research innovation and Technology
618ECO03	Satellite Communication	Global	Digital India
618ITE02	Soft Computing	Global	Research innovation and Technology
618ITE03	Social Network Analysis	Global	Make in India
618ITE04	Mobile Communication	Global	Smart India
618ITE05	Embedded Systems	National	Smart India, Smart Cities
718CIT01	Cryptography and Security in Computing	Global	Digital India, National cyber security Policy
718ITT02	Fundamentals of Machine Learning	Global	Smart India, Smart Cities
718ITT03	Mobile Application Development	Global	Smart India, Smart Cities
718ITT04	Web Programming	National	Digital India
718CIE01	Internet of Things	Global	Smart India, Smart Cities
718CIE05	Agile Software Development	Global	Sustainable IT
718CIE06	Cyber Security and Law	Global	Digital India, National cyber security Policy
718ITE07	Adhoc and Sensor Network	National	National Council for Science & Technology Communication
818CIT01	Big data Analytics	Global	Digital India
818CIE01	Software Defined Networks	Global	Make in India ,Smart India
818ITE02	Information Security	Global	Digital India, National cyber security Policy
818ITE03	Swarm Intelligence	Global	Research innovation and Technology
818CIE04	Green Computing	National	Smart India
818ITE05	Computer Forensics	Global	Digital India, National cyber security Policy
818ITE08	Virtual and Augmented Reality	National	Make in India


PRINCIPAL
ADHIYAMAAN COLLEGE OF ENGINEERING
Dr. M.G.R. NAGAR,
HOSUR - 635 109.

B. E. Mechanical Engineering

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
318MET04	Composite Materials	National	Make in India, Skilling India
318MET05	Manufacturing Technology-I	Local	Societal needs
318MEP08	Manufacturing Technology Laboratory -I	Local	Societal needs
418MET05	Manufacturing Technology-II	Local	Societal needs
418MET06	Process Planning and Cost Estimation	Global	International Finance
418MEP09	Manufacturing Technology Laboratory-II	Local	Societal needs
518MET01	Metrology and Instrumentation	National	Digital India
518MEP07	Metrology and Instrumentation Laboratory	National	Digital India
518MEE01	Advanced Manufacturing Processes	National	<i>Ujwal Bharat</i> , Make in India
518MEE02	Renewable Energy Sources	National	<i>Ujwal Bharat</i>
518MEE03	Introduction to Nanotechnology	National	Digital India, Skilling India
518MEE04	Non Destructive Testing and Materials	Regional	Generation of Employment and Entrepreneurship
618MEP07	Computer Aided Machine Drawing	National	Digital India
618MEP08	CAM Laboratory	National	Digital India, Make in India
618MEE06	Design of Jigs and Fixtures	Local	Societal needs such as Manufacturing
618MEE07	Design of Heat Exchanger	Local	Societal needs such as Manufacturing
618MEE08	Metal Forming Techniques	Local	Societal needs such as Manufacturing
718MET02	Mechatronics and Robotics	National	Digital India, Smart India
718MEP09	Design and Fabrication Project	Regional	Generation of Employment and Entrepreneurship
718MEE03	Engineering Economics and Cost Analysis	Global	International Finance
718MEE04	Rapid Prototyping	Regional	Generation of Employment and Entrepreneurship
818MET01	Total Quality Management	Global	Global HRM
818MEP04	Project Work	Regional	Generation of Employment and Entrepreneurship
818MEE03	Six Sigma and Lean Manufacturing	Local	Societal needs such as Manufacturing
818MEE04	Introduction to Micro Electro Mechanical Systems	National	Smart India
818MEE05	Energy Conservation in Industries	National	Environmental Sustainability, <i>Ujwal Bharat</i>
818MEE07	Entrepreneurship and E-Business	Regional	Start-up India, Generation of Employment and Entrepreneurship
818MEE11	Biomass Energy System	National	Environmental Sustainability


PRINCIPAL
ADHIYAMAAN COLLEGE OF ENGINEERING
 Dr. M.G.R. NAGAR,
 HOŞUR - 635 109.


PG MASTER OF BUSINESS ADMINISTRATION

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
122BAT01	Management Practices and Organizational Behavior	National	Digital India
122BAT03	Legal Aspects of Business	National	Digital India
122BAT04	Managerial Economics	National	Skilling India
122BAT06	Information Management	National	Make in India
122BAT07	International Business Management	Global	Cross cultural relations
222BAT09	Human Resource Management	Global	International HRM
222BAT10	Marketing Management	Global	International Marketing
222BAT11	Financial Management	Global	International Finance
322BAT14	Strategic Management	Global	Global Strategy
322BAH01	Industrial Relations & Labour Legislations	National	Make in India
322BAF01	Derivatives Management	Global	Options, SWAPs
322BAM01	Retail Marketing	Local	IT, Manufacturing
322BAO01	Project Management	Local	Software
122BAT01	Management Practices and Organizational Behavior	National	Digital India
318BAH03	Industrial Relations and Labour Legislation	Local	Manufacturing
318BAT13	Business Research Methods	Global	International Research
218BAT11	Operations Management	Global	IT, Manufacturing
218BAE21	Total Quality Management	Global	IT, Manufacturing
318BAH03	Training And Development	Global	Skilling India
318BAM03	Services Marketing	Global	International Marketing
318BAO02	Services Operations Management	Global	IT, Manufacturing
318BAO03	Supply Chain Management	Global	IT, Manufacturing
318BAS01	E-Commerce	National	Digital India
318BAS02	Advanced Database Management System	National	Digital India
318BAS03	Enterprise Resource Planning	National	Digital India


 PRINCIPAL
 ADHIYAMAAN COLLEGE OF ENGINEERING
 Dr. M.G.R. NAGAR,
 HOSUR - 635 199.

PG MASTER OF COMPUTER APPLICATIONS


Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
120CAT01	Data Structures and Algorithms	National	Digital India
120CAT02	Python Programming	National	Make India
120CAE01	Software Engineering	Local	Basic need of IT
120CAE02	Computer Networks	National	Smart India
120CAE05	Cyber Security	National	Digital India
120CAE06	Accounting and Financial Management	Regional	Generation of Entrepreneurship
120CAE07	Business Process	Regional	Generation of Employment
120CAE08	Numerical Methods and Discrete Structures	National	Digital India
120CAE09	Electronic Commerce	National	Digital India
120CAE10	Microprocessor and its Applications	Local	Manufacturing
120CAL01	Data Structures and Algorithms Lab	National	Digital India
120CAL02	Network Programming Lab	National	Digital India
120CAL05	Financial Management Lab	Global	International Finance
120CAB001	Fundamentals of Computing and Programming I	Global	Cross Cultural Relations
120CAP001	Fundamentals of Computing and Programming Lab – 1	Global	Cross Cultural Relations
220CAT01	Database Management Systems	National	Skill India
220CAT02	Object Oriented Programming using JAVA	National	Digital India
220CAT03	Cloud Computing	National	Smart India
220CAE02	Artificial Intelligence	National	Smart India
220CAE03	Block Chain Technology	National	Digital India
220CAE08	Organizational Behaviour	Global	Global HRM
220CAE09	Embedded System	Local Need	Manufacturing
220CAE10	Environmental Science and Disaster Management	Global	Cross Cultural Relations
220CAB001	Fundamentals of Computing and Programming II	Global	Cross Cultural Relations
220CAP001	Fundamentals of Computing and Programming Lab II	Global	Cross Cultural Relations
320CAT01	Web Programming	Local	Basic Need of IT
320CAT02	Mobile Application Development	National	Smart India
320CAT03	Big Data Management	National	Smart India
320CAP06	Mini Project	Local	Basic Need of IT
320CAE03	Agile Software Development	National	Smart India
320CAE04	Machine Learning Techniques	National	Skill India
320CAE05	Internet of Things	National	Digital India
320CAE06	Professional Communications	Global	International Marketing
320CAE07	Resource Management Techniques	Local	Basic Need of IT
320CAE09	Human Resource Management	Global	Global HRM
320CAE10	Financial Derivatives	Global	International Finance
320CAL01	Web Programming Lab	Local	Basic Need of IT


PRINCIPAL
ADHIYAMAAN COLLEGE OF ENGINEERING
Dr. M.G.R. NAGAR,
HOSUR - 635 109.

320CAL02	Mobile Application Development Lab	Local	Basic Need of IT
320CAL03	Machine Learning Techniques Lab	National	Smart India
320CAL04	Executive Communication Lab	National	Skill India
320CAL05	Report Writing Lab	Global	International Standard
420CAP01	Project Work	Local	Basic Need of IT

M.E- COMMUNICATION SYSTEMS

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
118COT04	Optical and Mobile Communication Networks	National	Digital India
118COT05	Advanced Radiation Systems	National	Smart Cities Mission Programme
118COE03	Research Methodology	Global	International Marketing
118COE06	Advanced Satellite Based Systems	National	Make in India
218COT03	Multimedia Compression Techniques	National	Digital India
218COE01	RF System Design	National	Smart Cities Mission Programme
218COE02	Advanced Microwave Systems	National	Smart Cities Mission Programme
218COE04	Global Positioning Systems	National	Digital India, National cyber security Policy
218COE07	Network Routing Algorithms	National	Digital India, National cyber security Policy
218COE09	Advanced Microprocessors and Microcontrollers**	National	Smart Cities Mission Programme
218COE13	Internetworking Multimedia	National	Digital India
218COE17	Cognitive Radio	National	National Council for Science & Technology Communication
218COE18	VLSI for Wireless Communication	National	Skill India
318COE01	Embedded Systems for Communication	Global/ National	International Marketing, Digital India
318COE03	Communication Network Security	National	Digital India, National cyber security Policy
318COE04	High Speed Switching Architecture	National	Smart Cities Mission Programme
318COE10	RF MEMS	National	National Council for Science & Technology Communication
318COE13	Ad Hoc Network	National	Smart Cities Mission Programme
318COE16	Soft Computing	National	Skill India
318COE18	Signal Integrity in High Speed Design	National	Smart Cities Mission Programme
318COP01	Project Work (Phase – I)	Regional	Employability and Entrepreneurship
418COP01	Project Work (Phase – II)	Regional	Employability and Entrepreneurship


PRINCIPAL
ADHIYAMAAN COLLEGE OF ENGINEERING
Dr. M.G.R. NAGAR,
HOSUR - 635 100.

M.E. VLSI Design

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
118VLT02	VLSI Signal Processing	National	Skill India
118VLT04	ASIC and FPGA Design	National	Digital India
118VLT05	Advanced Digital System Design	National	Manufacturing
118VLE04	Security Solutions in VLSI	National	National cyber security Policy
118VLE05	Nano Scale Devices and Circuit Design	National	Digital India
218VLT02	Testing of VLSI Circuits	Local	IT Industry, Manufacturing
218VLT03	Low Power VLSI Design	National	Digital India
218VLE03	Solid State Device Modelling and Simulation	National	Skill India
218VLE06	Artificial Intelligence and Optimization Techniques	National	Skill India, Smart Cities
218VLE07	CAD for VLSI Circuits	National	skill India, generation of Entrepreneurship
318VLE04	Nano Scale Transistors	National	Manufacturing, Digital India, generation of Entrepreneurship
318VLE05	Digital Systems Design using Verilog	National	Skill India
318VLE06	CMOS Analog VLSI	National	Skill India
318VLE07	System on Chip Design	National	Digital India
318VLE10	IP Based VLSI Design	National	Smart Cities Mission Programme
318VLE11	VLSI Design Automation	National	Smart Cities Mission Programme
318VLP01	Project Work (Phase – I)	Regional	Employability and Entrepreneurship
418VLP01	Project Work (Phase – II)	Regional	Employability and Entrepreneurship

M.E- COMPUTER SCIENCE ENGINEERING

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
118MCP08	Network Simulation Laboratory	National	Skill India
118MCE02	Digital Image Processing	National	Skill India
118MCE03	Agile Software Engineering	National	Made in India
118MCE04	Artificial Intelligence	National	Smart India
118MCE05	Web Engineering	National	Made in India
218MCT02	Security in Computing	Global	National cyber security Policy
218MCT04	Internet of Things	National	Smart India, Smart Cities


 PRINCIPAL
 ADHIYAMAAN COLLEGE OF ENGINEERING
 Dr. M.G.R. NAGAR,
 HOŞUR - 635 199.


318MCT01	Machine Learning Techniques	National	Smart India, Smart Cities
318MCE01	Wireless Sensor Network	National	Smart India, Smart Cities
318MCE10	Digital Forensics	Global	National cyber security Policy

M.E – POWER SYSTEM ENGINEERING

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
118PST02	Power System Optimization Techniques	National	IMPRINT- India
118PSE02	Energy Auditing and Management	National	Smart Cities Mission
118PSE01	Wind and Solar Energy Systems	National	PM KUSUM
118PSE04	Electric and Hybrid Vehicles	Local	FAME India
218PST04	Distributed Generation and Micro grid	Regional	RDSS scheme
218PSE08	Power Electronics for Renewable Energy	National	<i>Ujwal Bharat</i>
218PSE05	Demand Side Energy Management	National	Smart Cities Mission
318PSE01	Restructured Power System	National	<i>Ujwal Bharat</i>
318PSE03	Smart Grid Design and Analysis	National	Environmental Sustainable IT
318PSE07	Artificial Neural Networks Applied to Power System	National	<i>Ujwal Bharat</i>

M.E- STRUCTURAL ENGINEERING


Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
118SEE01	Advanced Concrete Technology	Local	Make in India
118SEE07	Maintenance and Rehabilitation of Structures	Local	Make in India
218SET02	Experimental Techniques and Instrumentation	National	<i>Ujwal Bharat</i> , Make in India
218SET03	Advanced Structural Steel Design	National	Start-up India
218SEE01	Design of Bridges	National	Make in India
218SEE04	Computer Aided Analysis and Design	Global	Digital India
218SEE06	Pressurised Concrete	Regional	Make in India
218SEE08	Construction Safety and Management	Local	Start-up India
218SEP01	Advanced Structural Engineering Laboratory	National	<i>Ujwal Bharat</i>
318SEE04	Smart Structures and Applications	Global	Digital India, Smart India


 PRINCIPAL
 AN COLLEGE OF
 Dr. M.G.R. NAGAR,
 HOSUR - 635 109

318SEE06	Pressurised Concrete	Regional	Make in India
318SEE08	Energy Efficient Structures	Local	Start-up India
318SEE09	Design of Steel Concrete Composite Structures	National	Make in India
318SEE12	Substructure Design	National	Make in India

M.E- ENGINEERING DESIGN

Course Code	Name of the Course	Local/ Regional/ National/ Global	Linkages aligned with Societal Needs/Government of India/ TN State Government Initiatives
118EDT05	Optimization Techniques in Design	Global	Cross cultural relations
118EDP07	CAE Laboratory-I	National	Digital India
118EDE02	Additive Manufacturing	Local	Societal needs such as Manufacturing
118EDE03	Smart Materials and Structures	National	Smart India
118EDE04	Composite Materials and Mechanics	National	Make in India, Skilling India
218EDT04	Mechanisms Design and Simulation	National	Make in India, Skilling India
218EDP07	CAE Laboratory-II	National	Digital India
218EDE01	Integrated Product and Process Development	Local	Societal needs such as Manufacturing
218EDE02	Integrated Manufacturing Systems	Local	Societal needs such as Manufacturing
218EDE03	Concepts of Design for Manufacture and Assembly	Local	Societal needs such as Manufacturing
218EDE06	Mechatronics System in Design	National	Digital India, Smart India
218EDE07	Nanomaterial & Nanotechnology	National	Digital India, Skilling India
318EDP01	Project Work (Phase – I)	Regional	Generation of Employment and Entrepreneurship
318EDP02	Internship	Regional	Generation of Employment and Entrepreneurship
318EDE01	Micro Electro Mechanical Systems	National	Smart India
318EDE02	Engineering Materials and their Applications	Local	Societal needs such as Manufacturing
318EDE03	Product Life Cycle Management	National	Environmental Sustainability
318EDE08	Industrial Robotics & Experts System	National	Digital India, Smart India
418EDP01	Project Work (Phase-II)	Regional	Generation of Employment and Entrepreneurship


PRINCIPAL
ADHIYAMAAN COLLEGE OF ENGINEERING
Dr. M.G.R. NAGAR,
HOSUR - 635 109