







AL-AMEEN ENGINEERING COLLEGE

Approved by AICTE & affliated to the APJ A KTU



Al-Ameen Engineering College, a premier institution in Palakkad managed by the esteemed Al-Ameen Educational Trust. With a history spanning two decades, we have established ourselves as the foremost self-financing engineering college in the region. Our commitment to quality education and benevolent service drives us to empower the next generation with essential skills and knowledge for success in an evolving world. At Al-Ameen, we prioritize creating an intellectually stimulating environment conducive to student growth and development. Our state-of-the-art facilities and distinguished faculty provide the perfect platform for personal and career advancement, ensuring our graduates are equipped to make meaningful contributions to society.









BOARD OF DIRECTORS

Al-Ameen Engineering College embodies best quality training resources and most modern simulated workshops to support the students to potential reach their full and become technically skilled world-class professionals. We achieve this through high profile faculties, top-of-the-class coupled with learning environment. Established in 2003, AEC by Al-Ameen **Educational Trust** managed executed under the guidance of Chairman Dr. C. P. Ali Bava Haji. The College is approved by the All India Council for Technical Education (AICTE) and is affiliated to APJ Abdul Kalam Technological University.



Dr. C.P Ali Bava Haji Chairman



Dr. Mansoor C AGeneral Secretary



Mr. Veeran Kutty Haji Treasurer



Mr. Kamarudeen K.P
Secretary

OUR VISION



To be a centre of excellence in the realm of technical education at par with global standards.

OUR MISSION

- To impart high quality technical education and to contribute substantially to research in engineering.
- To motivate the students to utilize their full potential and to inculcate an everlasting passion in them for technical learning.
- To groom the students as technological leaders with great social commitment.

OUR QUALITY POLICY

Al-Ameen Engineering College (AEC) is distinguished as a pioneer in the field of Engineering Education by fostering students to get expertise in their chosen stream through globally interactive learning ambiance. This is achieved through continuous monitoring and improvement of the quality of education and by promoting research and development. We also disseminate technical knowledge through short term courses and continuing education training programs. The institution also emphasizes on inculcating ethical and moral values among students and staff members. We provide need based, state of the art facilities and infrastructure to our students. We also try to keep adherence to high quality standards of education.



I am delighted to extend a warm welcome to all of you as we embark on another exciting academic year at al-Ameen Engineering College.

Founded on the principles of excellence and innovation, al-Ameen Engineering College has continuously strived to provide a nurturing environment for learning, research, and personal growth. Our commitment to academic rigor, coupled with a strong focus on holistic development, has positioned us as a leading institution in engineering education.

As we move forward, I urge each member of our college community to uphold the values that define us – integrity, collaboration, and a relentless pursuit of knowledge. Together, let us create an environment where curiosity thrives, ideas flourish, and aspirations take flight.

To our new students, I extend a special welcome. Your journey at al-Ameen Engineering College promises to be transformative, filled with opportunities to explore your interests, develop new skills, and forge lifelong connections.



Mr. Kamarudeen K.PSecretary

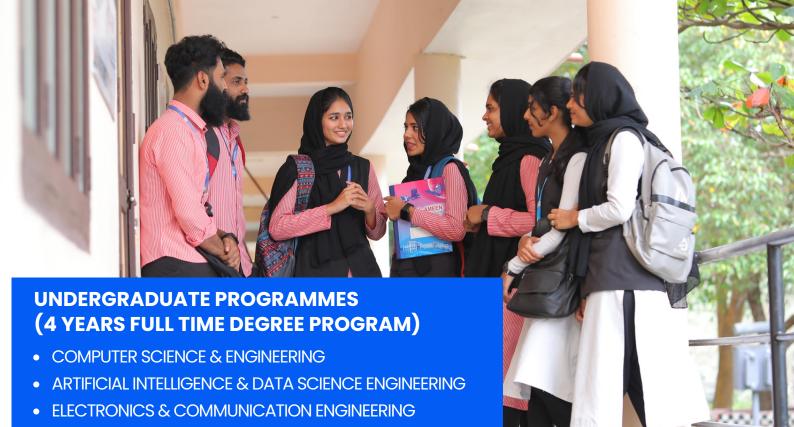
Secretary's Message

Principal's Message

Dr.Sukumaran Nair. V. PPrincipal

Al-Ameen Engineering College.

It is a great pleasure to welcome you all to the Al-Engineering College. Ameen From its inception, AEC has thrived to develop itself into a centre of excellence in consonance with the current technological requirements. We, the team of AEC, expect you to become a part of this share with tradition and us the excellent atmosphere of learning and advancing knowledge. Here, the students are exposed to the state-of-theopportunities facilities and in supportive environment. We are always committed to provide the students with the most advanced systems, methodologies, and learning practices to effective contributors them technological society. So as to fulfill this mission, we make special efforts to recruit proficient faculty members and eminent staffs.



- ELECTRICAL & ELECTRONICS ENGINEERING
- CIVIL ENGINEERING
- MECHANICAL ENGINEERING
- COMPUTER SCIENCE & ENGINEERING (CYBER SECURITY)
- BACHELOR OF BUSINESS ADMINISTRATION (BBA)*
- BACHELOR OF COMPUTER APPLICATIONS. (BCA)*

POSTGRADUATE PROGRAMMES

- ELECTRONICS & COMMUNICATION ENGINEERING
- ELECTRICAL & ELECTRONICS ENGINEERING

*Course to be approval

AFFILIATION & ACCREDITATION

- Affiliated to Dr. APJ Abdul Kalam Technical University Kerala
- An ISO: 9001–2008 certified institution
- Accredited by National Assessment and Accreditation Council (NAAC) till May, 2025
- AISHE Certificate
- Minority institution act 2004

UNDER GRADUATE

PROGRAMS



- B.TECH. COMPUTER SCIENCE & ENGINEERING (CSE)
- B.TECH. ELECTRONICS & COMMUNICATION ENGINEERING (ECE)
- B.TECH. ELECTRICAL & ELECTRONICS ENGINEERING (EEE)
- B.TECH. CIVIL ENGINEERING (CE)
- B.TECH. MECHANICAL ENGINEERING (ME)
- B.TECH. ARTIFICIAL INTELLIGENCE & DATA SCIENCE ENGINEERING (AD)
- B.TECH. COMPUTER SCIENCE & ENGINEERING (CYBER SECURITY)



B.TECH. COMPUTER SCIENCE & ENGINEERING (CSE)

The Department of Computer Science and Engineering at AEC is recognized for its facilities and eminent faculty. The discipline of Computer Science and Engineering is concerned with the principles and technologies that make up entire range of computing systems. It studies internal units and various interconnections of the microprocessor and a range of subsystems that constitute the hardware. Students learn how to construct software systems and communicate through electronic networks and to interact with digital circuitry. Large quantities of data ordered according to the principles of relational data-based management are stored and organized. They are selectively retrieved using complex algorithms. Students appreciate the enormous computing power available to humanity in terms of millions of instructions every second. Various technology options available in terms of operating systems, networks, databases, graphics, artificial and machine intelligence are explored. The AEC has a wealth of computing resources that is tailored to meet the rigours of the curriculum. Some of the labs include Algorithms Lab, Web Programming Lab, Object Oriented Programming Lab, Electronic Circuits and Logic Design Lab.

Technologies

- Data Science
- Artificial Intelligence
- Machine Learning
- Internet of Things
- Block Chain
- Cloud Computing
- Software Development
- Mobile Apps Development
- Networking
- Web Development
- Social Computing

- Project Manager
- Data Scientist
- Network Engineer
- QMS Engineer
- Cloud Engineer
- Security Consultant
- Block Chain Architect
- Technical lead



B.TECH. ELECTRONICS & COMMUNICATION ENGINEERING (ECE)

The AEC throws open the world of electronics for the student and he/she learns the art and science of carrying out communication at a distance using both wired and wireless technologies. Students learn the principles of encoding, compressing, encrypting, transmitting and decoding information on digital networks. They learn to make electronic measurements, study the characteristics of electronic networks and their maintenance under conditions of distortion and noise for greater stability and sharper control. Telephony, Satellite Communication and Biomedical Engineering are some of the specialized fields of enquiry. Basic electronic devises like thyristors, magnetic amplifiers, transducers, timers and robots are studied. Students also learn the properties of microprocessors in mundane devices like digital cameras, electronic weighing scales, treadmills to advanced devices like intercontinental ballistic missiles, radars and earth-quake detection equipment. Some of the important labs include Microcontroller Lab, Digital Signal Processing Lab, VLSI Lab, Power Electronics Lab etc.

Technologies

- Signal processing
- IC Designing
- Microprocessor &

Microcontrollers

- Analog & Digital
 Communication
- Bio-Medical Electronics
- Data Communication
 Networks
- Embedded System & IoT
- Virtual Instrumentation
- Wireless & Satellite
- Communication
- Al & Machine learning
- Robotics & Automation

- Embedded Designer
- Consumer Electronics
- Health care Sector
- Telecom Sector
- IT industries
- Internet technologies
- Robotics & Automation
- VLSI Design & Technology
- Power Electronics
- Public Sector Units
- Railways & Avionics Sector
- Optical Communication Sector
- Automation Industries



B.TECH. ELECTRICAL & ELECTRONICS ENGINEERING (EEE)

Electrical and Electronics Engineering is an exciting new discipline that blends the best of the traditional electrical engineering and modern electronics. Electrical power with its wide applicability is a pervasive amenity for modern humanity — we can hardly conceive of a village today that does not have the marvel of electricity. Students learn how to generate, store, transmit and measure electrical power using modern control systems and transformers. Students learn the application of power electronics in defence and industry, the operating principles of various intermediary devices like switch gears, connecting devices and relays. The construction, working principles and operational behaviour of devices like alternators, synchronous motors, induction motors and servo-motors are studied. Students are taught the principles of designing electronic instrumentation, tapping renewable energy resources and using 'cleaner power.' Some of the interesting areas include Illumination Engineering, Electrical Computer Aided Design, Solid State Control Drives, Reactive Power Management, Operational Amplifiers and the testing and commissioning of heavy electrical equipment. Some of the important labs include High Voltage Engineering Lab, Analog Electronics Lab, Circuit Simulation and Measurements Lab, DC Machines and Synchronous Machines Lab etc.

Technologies

- Electric Power System
- Semiconductor Technology
- Smart Grid Technologies
- Renewable Energy
- Generation
- Power Electronics
- Control and
- <u>Instrumentation</u>
- Energy Management
- Electric Drives and Utilization
- Electrical Machines & Design

- Automation and Robotics
- Consumer Products
- Electric Traction
- Electrical Machines and Drives
- Energy Generation
- Light and Illumination
- Power Backup and Conditioning
- Power Transmission and Distribution
- Renewable and Green Energy
- Switchgear and Protection



B.TECH. CIVIL ENGINEERING (CE)

The Department of CIVIL Engineering has well experienced and dedicated faculty. Students are introduced to the fundamental and the latest trends in Civil Engineering. They learn about Surveying, Building Construction & Design and Structural Design as part of their curriculum. The department has well equipped laboratories and workshops with excellent infrastructure. The laboratories reflect the standards set by the competitive syllabus besides giving the students, sufficient practical knowledge they need. Some of the laboratories include Basic Material Testing Lab, Surveying Lab, Engineering Geology Lab, Autocad Lab etc.

Technologies

- Smart Building & Automation
- Fast Track Construction
- Determinate and Indeterminate Structures
- Expressways & Highways
- Geotechnical Engineering
- Design of Concrete Structures
- Water & Waste Water Engineering
- Irrigation Engineering
- Professional practice

- Architecture Design
- Geo-Informatics Sector
- Metallurgy
- Public Health Sector
- Soil and Geotechnical
- Structural Design Sector
- Surveying Sector
- Urban Planning Sector
- Waste Management
- Water Resource



B.TECH. MECHANICAL ENGINEERING (ME)

Mechanical Engineering is an exciting discipline, which came into prominence at the turn of the industrial revolution with the steam engine and spinning mills of England. In fact, the word 'Engineering comes from the word 'Engine,' which comes from Thermodynamics, a fundamental discipline in the field. We have come a long way today and there are promising new developments in fields like Mechatronics, Computer Optimized Engines and Flexible Manufacturing. Students are introduced to the fundamentals of material sciences, the strength and behaviour of various configurations of structures like trusses and beams. Students learn applied concepts of motion and dynamics of machine elements. They learn about the behavior of fluids, the laws governing their flow and the energy carried by the working fluid in an engine. The construction, operation and efficiency of various mechanical devices like lathes, milling machines and shapers are introduced. Students are taught about the behaviour of heat and its relation to work, which lies at the heart of the engine. The construction, operation and behaviour of internal combustion engines in various fuel and power categories are studied. Techniques like finite element method and computational fluid dynamics are explored. Some of the important labs include Machine Shop, Measurements Labs, Material Testing Lab, Hydraulic Lab, Heat and Mass Transfer Lab etc.

Technologies

- Computer Aided Design
- Manufacturing Technologies
- Flexible Manufacturing
 Systems
- Automation and Robotics
- Combustion / IC Engine modeling
- Biomechanics Engineering / Biomaterial
- Energy, Heat & amp: Mass transfer/thermal Science
- Fluid Mechanics/Computational Fluid Mechanics
- NANO- 3D Printing

- Automobile Sector
- Aviation and Aerospace
- Energy Generation and Distribution
- Healthcare
- Heavy Machinery and Capital Goods
- Industrial Automation
- Oil Sector
- Shipping Industry



B.TECH. ARTIFICIAL INTELLIGENCE & DATA SCIENCE ENGINEERING

The Artificial Intelligence Department at Al-Ameen Engineering College is at the forefront of innovation in the rapidly evolving field of Al. With a curriculum designed to blend cutting-edge theory with practical applications, students are equipped with the knowledge and skills needed to develop intelligent systems and algorithms. Led by experienced faculty members who are actively engaged in research and industry partnerships, students explore a wide range of topics including machine learning, natural language processing, computer vision, robotics, and neural networks. Through hands-on projects, internships, and participation in Al competitions, students gain invaluable experience in applying Al techniques to solve real-world problems. The department's focus on interdisciplinary collaboration and ethical considerations ensures that graduates are prepared to harness the power of Al responsibly and ethically, making meaningful contributions to society across various domains including healthcare, finance, autonomous vehicles, and more.

Technologies

- Machine Learning
- Deep Learning
- Machine Learning
- Cloud Computing
- Data Visualization
- Data Mining
- Computer Vision
- Big Data Technologies
- Natural Language

Processing

 Model Deployment and Integration

- Machine Learning Engineer
- Data Scientist
- Deep Learning Engineer
- Al Research Scientist
- Data Engineer
- Business Intelligence (BI)
 Analyst
- Data Architect
- Al Product Manager
- Al Consultant



B.TECH. COMPUTER SCIENCE & ENGINEERING (CYBER SECURITY)

B.Tech. in Computer Science & Engineering with a specialization in Cyber Security equips students with the knowledge and skills to protect digital assets and mitigate cyber threats. This program combines technical expertise in areas like network security, cryptography, ethical hacking, and incident response with hands-on experience in security tools and technologies. Graduates are prepared for careers as cyber security analysts, penetration testers, security consultants, and more, playing a vital role in safeguarding organizations against cyber attacks and ensuring data integrity and confidentiality in the digital age.

Technologies

- Network Security
- Cryptography
- Web Security
- Secure Software Development
- Operating System Security
- Penetration Testing & Ethical Hacking
- Incident Response & Forensics
- Cloud Security
- Networking
- IoT Security
- Cyber Security Governance & Risk Management

- Cyber Security Analyst
- Security Consultant
- Penetration Tester (Ethical Hacker)
- Security Architect
- Incident Response Analyst
- Cryptographer
- Security Operations Center (SOC) Analyst
- Security Researcher

POST GRADUATE PROGRAMS

- 1.M.TECH ELECTRONICS & COMMUNICATION ENGINEERING (ECE)
- 2.M.TECH ELECTRICAL & ELECTRONICS ENGINEERING (EEE)





ELECTRONICS & COMMUNICATION ENGINEERING

In the present scenario of Information & Communication Technology, Communication Engineering is of vital importance for any society. communication revolution has led the whole world being global village concept. The proposed M.Tech. Program is designed to offer not only in-depth theoretical knowledge in the area of Communications, Signal Processing, and Wireless Networks, but also system modeling and integration aspects emphasizing overall system behavioral studies in a laboratory.

HIGHLIGHTS

- The Specialization of our faculty members includes communication system engineering VLSI applied Electronics, Wireless Communication, Embedded System and Computer Science.
- The Laboratories are equipped with high end equipments like ADSP processor kits, Microwave benches, Optical fiber benches, Advanced communication kits, DSO, Microprocessor kits, Micro Controller kits, and latest software's like MATLAB, B2B SPICE, XILINX to impart hands on experience and training in the latest technology to complement their theoretical knowledge.



ELECTRICAL & ELECTRONICS ENGINEERING (EEE)

This Course aims at training graduate engineers in the field of Power Systems This course deals with the state of the art techniques in Power System analysis, stability evaluation planning, reliability and forecasting. The course Also covers subjects on high voltage DC transmission, Industrial electronics and controls, Power electronics and -drives, wind and solar energy electric conversion systems and advanced topics in micro processors and micro controllers which are very much needed for today's power system engineer.

HIGHLIGHTS

- The specialization of our faculty members includes
- Power systems, Control system, Power Electronics, VLSI, Applied Electronics and Industrial drives and control.
- The laboratories are equipped with high end equipments with real time card for MATLAB, interfacing, BLDC motor kit, Adequate number of AC and DC machines and transformers to impart hands on experience and training in the latest technology to complement their theoretical knowledge
- 125A-220V DC rectifier and 50HP/40KW MG set to provide uninterrupted DC source for the laboratory usage.
- Our machine lab equipped with a minimum of 10 AC/DC machines executable at a time so that individual based training is possible.
- Our simulation lab is exclusively for itself to train the students in various simulation software packages such as Mipower, PSCAD, MATLAB and PSPICE etc.

LIBRARY

The Al-Ameen engineering college have a spacious well furnished Library having sufficient volume of books in each speciality. In addition to this, journals and e-journals, National and international periodicals are also available. Apart from the central library, all the departments are equipped with the dedicated department libraries.

HOSTEL

Hostels are provided to girls and boys with homely atmosphere and cleanliness under the care and supervision of the dedicated staff of hostel that can be approached for help and needs of the students.

Each hostel is provided with phone connection and other amenities for the inmates.

FACILITES





CANTEEN

Our canteen facility serves a wide range of snacks, drinks and meals all through the day. Both vegetarian and non vegetarian delicacies are available. All the food items are cooked and served in a clean and hygienic environment.

STORE

A general store is functioning in the campus to supply quality books, notebooks and other stationary items at reasonable price.





CYBER CENTRE

The college has an excellent air conditioned computer laboratory provided with ultra modern, high performance computers and peripherals to meet the lab sessions in a result oriented way. The computer labs have high-speed internet facility speed up to 3.2 mbps and new generation legal software packages to acquire the latest techniques in computer and internet system.



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TRANSPORTATION

Al-Ameen Engineering College offers conveyance facility for the day scholars. We have a well managed fleet of buses that ply to all nearbydistricts. The bus routs are carefully structured so that our students can arrive safely on time. A dedicated staff is in charge for the timely scheduling and arrangements of buses. Along with the conveyance facility, the public transport service is also easy accessible to the campus.



CAENTRAL LIBRARY





NSS





APJKTU INTER-ZONE FOOTBALL CHAMPIONS 2ND RUNNER APJKTU E - ZONE FOOTBALL CHAMPIONS

REMARKABLE SPORTS ACHIEVEMENTS

Delighted to share with you the outstanding sports achievements that our team has accomplished in 2022-23 **APJKTU** E-Zone Tournaments. Our athletes demonstrated exceptional skill, teamwork, and sportsmanship, making us proud as a collective force in the field of sports.

SELECTED FOR APJAKTU FOOTBALL TEAM



AZARUDHEEN VT S8 ECE 2020-24 BATCH



COLLEGE CRICKET TEAM



COLLEGE VOLLEY BALL TEAM



BADMINTON TEAM



UK F SOCCER CUP 2024 CHAMPIONS HELD IN KOLLAM



Mr.ASHIF M
PHYSICAL EDUCATION INSTRUCTOR

- APJAKTU University Cricket
 Coach & Selector 2023-24
- APJAKTU University Cricket Coach 2022-23

ARTS

EXTRA CURRICULAR ACTIVITIES









PROJECT EXPO

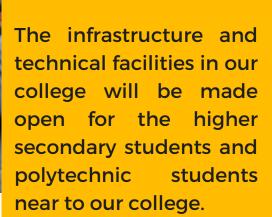








TECH FEST



This entertains and enriches the technical ability and skill of students. also facilitating them to know various engineering branches and engineering scopes.

Over 100 plus technical projects from each department are arranged for plus two/Diploma students to facilitate them with the best technical educational tools and methodologies



CELESTA "Innovation In Action"





TRAINING & PLACEMENT CELL



The training and placement cell impart training to students from the first year onwards giving emphasis to motivational skills, communication skills, inter personal relationships, leadership qualities, group discussion and interview techniques. Resource persons and professionals from reputed management institution along with college faculties train the students. The Placement Cell also helps the week students to improve their academic performance by counseling. The Training and Placement Cell provides the infra-structural facilities to conduct group discussions, tests and interviews besides catering to other logistics. The data base of the students is managed by the cell which plays a critical role in getting jobs for the alumni.

The college has a dynamic and well -established "Training and Placement Cell" headed by placement officer Mr. Shabab O ,HOD of EEE and assisted by one faculty coordinator and student coordinators from each department.





TRAINING & PLACEMENT CELL



In a recent collaboration with Kerala Knowledge Economy Mission(state government organisation for connecting carear to campus)..Al Ameen Engineering College hosted a highly successful placement drive on March 11 at our campus. A total of 250 final year BTech students participated, with 28 leading companies in attendance. We are proud to announce that 300 candidates were shortlisted, and 25 students secured job offers on the spot. This event showcased our commitment to providing our students with excellent career opportunities and reinforcing our reputation for excellence engineering education.





INTERNSHIP PROGRAM HIGHLIGHTS

- Industry Collaborations: Partnerships with companies.
- **Diverse Opportunities:** Internship placements in various engineering domains.
- Real-World Experience: Students gain valuable industry insights and skills.
- Career Development: Opportunities to network with professionals and potential employers.



WORKSHOP ON ADVANCED FIELDS HIGHLIGHTS

Target Audience: Diploma and

Plus Two Students

Focus Areas: Advanced

Engineering Fields

Objective: Enhancing

technical knowledge

Outcome: Empowered students with insights into modern engineering practices

TRAINING & PLACEMENT CELL

- Tie ups with many prominent companies for placement
- Summer Internships for Industry Training 🛭
- 20 MOUs with reputed companies like TCS, Wipro, Zensar, Syntel,
 UNO MINDA, Bitwise, Harbinger, AMCAT etc.
- Skill development program by SYNTEL / FUEL / TCS for placement
- Entrepreneurship Development Cell (ED Cell) to help students to build their career.
- Strong alumni support as recruiters and trainers
- Fostering technical and managerial skills and competencies by grooming of students.

Training and Placement Officer has received recognition from many





RECRUITMENTS IN 2023-24 HARSHA **DAN CORPORATION LTD** SIVAPRIYA VK **FUTURE LEADING ASSOCIATES LTD** KITCO THE CONSULTANT







AL-AMEEN

ENGINEERING COLLEGE

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