AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY
Approved by AICTE & Affiliated to A. P. J. Abdul Kalam Technological University
ISO 9001: 2015 Certified Institution | NBA accredited B.Tech. ECE & CSE programs (till 31-12-2028)
Ahalia Campus, Palakkad I Ph: 04923 226666 | www.ahalia.ac.in

B.TECH.
ELECTRICAL & ELECTRONICS ENGINEERING

WHY EEE IS CRUCIAL IN THE COMING YEARS

1 RENEWABLE ENERGY & SUSTAINABILITY

- Solar power
- Wind energy
- Smart grids
- Energy storage systems
- Sustainable solutions

EEE engineers design efficient and eco-friendly energy systems.



2 GROWTH OF ELECTRIC VEHICLES (EVs)

- Battery management systems
- Charging infrastructure
- Motor drives & controllers
- Power electronics
- Vehicle automation

Companies worldwide are investing heavily in EV technology.



3 AUTOMATION & INDUSTRY 4.0

- Robotics
- PLC & SCADA systems
- Industrial automation
- Sensors & control systems
- AI-integrated machinery

EEE engineers play a major role in intelligent and automated industries.



4 SMART HOMES & IoT

- Internet of Things (IoT)
- Smart appliances
- Intelligent lighting
- Security & surveillance
- Energy-efficient devices

Building smart homes and smart cities of tomorrow.



5 POWER SYSTEM MODERNIZATION

- Smart grids
- Reliable transmission
- Renewable integration
- Energy management
- Cyber-secure infrastructure

EEE engineers ensure stable and efficient power delivery.



6 ELECTRONICS IN EVERYDAY LIFE

- Communication systems
- Consumer electronics
- Biomedical devices
- Satellite systems
- Semiconductor technologies

Electronics engineers build faster, smarter and more efficient devices.



7 ARTIFICIAL INTELLIGENCE & EMBEDDED SYSTEMS

- Embedded controllers
- Signal processing
- Sensors
- Microprocessors
- Hardware-software integration

EEE provides the foundation for AI, robotics, drones and autonomous systems.



8 HIGH DEMAND ACROSS INDUSTRIES

EEE graduates can work in:

- Power & Energy
- Electronics Manufacturing
- IT & Software
- Automation
- Government Sectors
- Research Organizations
- Aerospace & Defense
- Telecom
- Transportation
- ...and many more!



EEE – POWERING INNOVATION. ENERGIZING THE FUTURE.

EEE – A BRIGHT FUTURE WITH ENDLESS POSSIBILITIES!

CORE ELECTRICAL CAREERS

- Power Systems Engineer
- Electrical Design Engineer
- Maintenance Engineer
- Substation Engineer
- Power Plant Engineer

ELECTRONICS & EMBEDDED SYSTEMS

- Embedded Systems Engineer
- Electronics Design Engineer
- PCB Design Engineer
- IoT Developer

AUTOMATION & CONTROL

- Automation Engineer
- Control Systems Engineer
- Robotics Engineer
- PLC/SCADA Engineer

RENEWABLE ENERGY & EV SECTOR

- Solar Energy Engineer
- Wind Energy Engineer
- EV Design Engineer
- Battery Systems Engineer

IT & SOFTWARE CAREERS

- Software Developer
- AI/ML Engineer
- Data Analyst
- Cloud Engineer
- Cybersecurity Analyst

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NAAC NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

NBA NATIONAL BOARD OF ACCREDITATION

LABORATORY FACILITIES

1 SYSTEM SIMULATION LAB



Simulation tools for analysis, design and performance evaluation of electrical systems.

2 ELECTRICAL MACHINES LAB



Study and testing of DC/AC machines, transformers and industrial drives.

3 POWER ELECTRONICS LAB



Hands-on experience in power electronic converters, inverters and control circuits.

4 EMBEDDED SYSTEMS LAB



Design and development of embedded systems and real-time applications.

5 MEASUREMENTS LAB



Precision measurements of electrical parameters using modern instruments.

6 ANALOG ELECTRONICS LAB



Study of analog circuits, amplifiers and signal conditioning techniques.

7 DIGITAL ELECTRONICS LAB



Hands-on learning in digital circuits, logic design and microprocessor applications.

8 POWER SYSTEMS LAB



Analysis of power systems, protection, stability and fault studies.

WHY CHOOSE AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY (ASET)?

QUALITY TECHNICAL EDUCATION

Strong theoretical foundation, practical training, industry-oriented learning and project-based education.

EXPERIENCED & SUPPORTIVE FACULTY

Guidance in academics, research, projects, internships, competitive exams and career development.

INDUSTRY EXPOSURE & SKILL DEVELOPMENT

Industrial visits, workshops, seminars, internships, technical competitions and skill enhancement programs.

FOCUS ON EMERGING TECHNOLOGIES

Renewable Energy, Electric Vehicles, Automation, Embedded Systems, AI, IoT, Robotics and Smart Technologies.

TRAINING & PLACEMENT SUPPORT

Aptitude training, soft skills, resume building, interview preparation and campus recruitment assistance.

INNOVATION & PROJECT CULTURE

Hackathons, technical fests, project exhibitions, paper presentations and innovation challenges.

PROFESSIONAL SOCIETIES & ITS ACTIVITIES

IEEE, IEI and other professional bodies for knowledge sharing and networking.

ENERGY CLUB

Promoting energy awareness, sustainability projects and green initiatives.

SOCIAL SERVICE ACTIVITIES

Encouraging students to contribute to society and build a better community.

WORKSHOPS & EXPERT LECTURES

Regular sessions by industry experts and academicians to keep students updated.

HACKATHONS

Platform to innovate, collaborate and solve real-world problems.

CULTURAL & SPORTS ACTIVITIES

A perfect blend of academics, culture and sports for holistic development.

HIGHER STUDIES & RESEARCH OPPORTUNITIES

M.Tech Specialisations

- Power Systems
- Power Electronics
- Control Systems
- Renewable Energy
- VLSI
- Electric Vehicle Technology (EVT)
- Smart Grid & Energy Management



MBA

Career Opportunities in

- Management
- Operations
- Business Analytics
- Technical Consulting

RESEARCH & PhD

Areas

- AI Hardware
- Smart Grids
- Robotics
- Semiconductor Research
- Sustainable Energy Systems

ENTREPRENEURSHIP OPPORTUNITIES

- Solar Installation
- EV Charging Solutions
- Automation Services
- Electronics Repair & Manufacturing
- IoT Product Development
- Start your own innovative venture!

College code:- ATP

Contact us: 9496000133,918905359

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OUR MAJOR RECRUITERS

TCS, Amazon, AGAPPE (YOUR BEST PARTNER IN DIAGNOSTICS), AL KABIR AL EASRIA SPC, Ahalia Hospitals, AHALIA (HEALTH, HERITAGE & KNOWLEDGE VILLAGE), PEACEFIC GROWTH FOUNDATION, movate, SUTHERLAND, TELESTATION Private Limited

TESTIMONIAL



NEHA BABU
B.Tech EEE
2022–26 Batch

"I am from EEE Department,
My journey at ASET has been truly transformative. The Placement and Training Cell didn't just prepare me for interviews, but also helped me grow personally and professionally. Their constant encouragement and well-planned training sessions helped me secure my placement.
I'm very thankful to the entire team."

College code:- **ATP**

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BABITHA ROSH
B.Tech EEE
2022–26 Batch

TESTIMONIAL

"I am from **EEE Department**,
I'm really happy to share that I got placed through ASET. The Placement and Training Cell played a huge role in my journey. Their continuous motivation, structured training sessions, and mock interviews really helped me improve my confidence and skills. The support from the faculty was incredible throughout the process.
I'm truly grateful to ASET for helping me achieve this milestone."

SUSTAINABLE & GREEN CAMPUS



RAINWATER HARVESTING
Efficient rainwater harvesting systems to conserve and recharge natural resources.



RENEWABLE ENERGY
Utilizing solar energy and other renewable sources for a sustainable future.



HERBAL GARDENS
Lush herbal gardens promoting biodiversity, research and natural wellness.



WASTE MANAGEMENT
Effective waste segregation and management for a clean and green campus.

CAMPUS LIFE

VIBRANT LEARNING ENVIRONMENT



SPORTS & RECREATION



LIBRARIES & LEARNING RESOURCES



COMFORTABLE HOSTELS



CULTURAL & CO-CURRICULAR ACTIVITIES



COMMUNITY & SOCIAL RESPONSIBILITY



College code:- **ATP**

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