Department of
ELECTRONICS & COMMUNICATION ENGINEERING
(NBA ACCREDITED)

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. CSE & ECE programs (till 31-12-2028)
Ahalia Campus, Palakkad | Ph: 04923 226666 | www.ahalia.ac.in

NAAC NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

NBA NATIONAL BOARD OF ACCREDITATION

The Department of Electronics & Communication Engineering at ASET focuses on creating technically skilled engineers capable of contributing to modern communication, electronics and intelligent technologies. The department encourages innovation, project-based learning, research culture and industry interaction.

DEPARTMENT FEATURES

- Experienced & Dedicated Faculty Team
- Outcome Based Education (OBE) System
- Excellent Results & Placement Record
- Advanced Laborotaries & Research Facilities
- Technical Workshops & Industrial Visits
- Internship & Career Assistance
- IEEE, IETE & Innovation Cell Activities
- Industry-Oriented Learning Environment
- Innovation, Research & Skill Development Support







ADMISSION OPEN



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ELECTRONICS & COMMUNICATION ENGINEERING (NBA ACCREDITED)

WHY CHOOSE ECE?

Limitless Opportunities. Endless Possibilities.

ECE
THE ENGINEERING THAT CONNECTS THE WORLD

ARTIFICIAL INTELLIGENCE & EMBEDDED SYSTEMS
Build intelligent systems and smart devices that power the future.

VLSI & CHIP DESIGN
Design the chips that drive every modern electronic device.

ROBOTICS & AUTOMATION
Create smart robots and automate the world around us.

WIRELESS COMMUNICATION & 5G
Connect the world at superfast speeds with next-gen wireless technologies.

INTERNET OF THINGS (IOT)
Connect devices, collect data and build a smarter, more connected world.

SATELLITE & SPACE TECHNOLOGY
Reach beyond boundaries and be a part of the technologies that explore space.

NETWORKING & CYBER SYSTEMS
Build secure, reliable and intelligent communication networks.

BIOMEDICAL ELECTRONICS
Apply electronics to healthcare and improve lives through technology.

SIGNAL & IMAGE PROCESSING
Analyse signals and images to solve real-world challenges.

DEFENCE & AVIONICS
Work on advanced systems for defence, aerospace and avionics applications.

ONE DEGREE. COUNTLESS PATHS.
CHOOSE ECE, SHAPE THE FUTURE!

CAREER ROLES

DESIGN ENGINEER
Design and develop innovative electronic systems and components.

COMMUNICATION ENGINEER
Work on communication systems, networks and transmission technologies.

EMBEDDED ENGINEER
Develop intelligent embedded systems for a wide range of applications.

SOFTWARE ENGINEER
Create efficient software solutions for hardware and system applications.

NETWORK ENGINEER
Design, implement and manage reliable and secure communication networks.

BUILD YOUR FUTURE WITH ENDLESS OPPORTUNITIES

HARDWARE ENGINEER
Design, test and oversee the manufacturing of electronic hardware systems.

RESEARCH ASSOCIATE
Engage in research and innovation to develop new technologies and solutions.

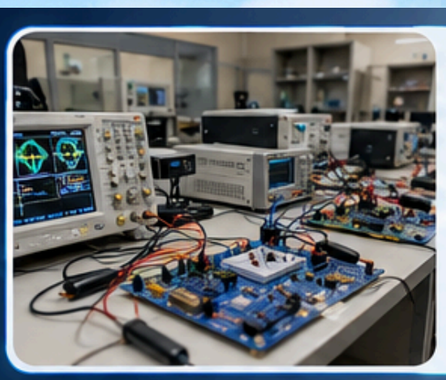
IOT DEVELOPER
Build smart IoT solutions that connect devices and improve lives.

AUTOMATION ENGINEER
Design and implement automation systems to enhance efficiency and productivity.

EXPLORE. INNOVATE. EXCEL.
YOUR FUTURE STARTS HERE!

ADVANCED LABORATORIES

STATE-OF-THE-ART
LABS & FACILITIES
Innovate • Explore • Excel



01 ELECTRONIC DEVICES & CIRCUITS LAB
Hands-on learning of electronic devices, circuits and real-time measurement techniques.

02 ANALOG & DIGITAL COMMUNICATION LAB
Explore modulation, demodulation and communication systems through practical sessions.





03 MICROPROCESSOR & MICROCONTROLLER LAB
Learn architecture, programming and interfacing of microprocessors & microcontrollers.

"WHERE IDEAS ARE BUILT, INNOVATION COMES TO LIFE"

04 DSP & VLSI LAB
Experience digital signal processing techniques and VLSI design using industry-standard tools and platforms.





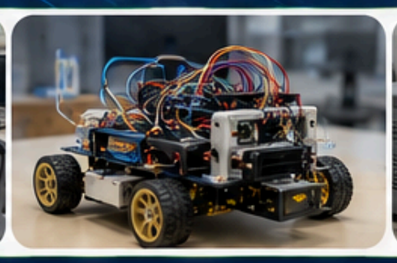
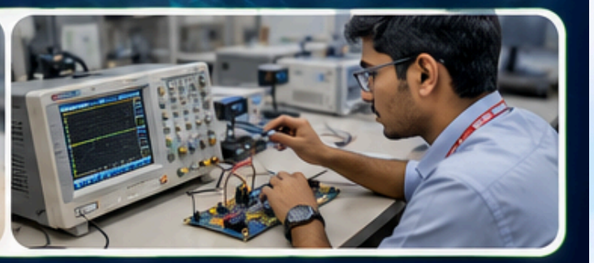
05 MICROWAVE & ANTENNA LAB
Study high-frequency circuits, antennas and propagation through advanced microwave experiments.

06 NETWORKING & SIMULATION FACILITIES
Design, simulate and analyze networks using advanced software and real-time testing environments.



07 PROJECT & INNOVATION LABS
Ideate, prototype and build innovative solutions with modern tools, mentorship and collaborative spaces.



INDUSTRY STANDARD EQUIPMENT | EXPERT FACULTY SUPPORT | INNOVATION & STARTUP ECOSYSTEM | WORLD-CLASS INFRASTRUCTURE | LEARN • EXPLORE • INNOVATE FOR A BETTER TOMORROW

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TESTIMONIALS



ANUPAMA S
ECE Alumni
Automation Developer
Tata Consultancy Services (TCS)

My journey at the Department of Electronics and Communication Engineering, Ahalia School of Engineering and Technology, helped me build a strong technical foundation and the confidence to succeed in the industry. The supportive faculty, practical learning, and excellent lab facilities enhanced my skills in both electronics and modern technologies. These experiences played a key role in shaping my career as an Automation Developer at Tata Consultancy Services. ECE offers wide career opportunities in core electronics, automation, software, IoT, and emerging technologies. I strongly recommend ECE at ASET to students who aspire to build a successful future in technology

I'm grateful to Ahalia School of Engineering and Technology for providing me with a strong academic foundation and a supportive learning environment. The knowledge, guidance, and opportunities I received during my studies helped me build both technical and professional skills. Today, as a Business Analyst cum Tester, I confidently apply many of the concepts and experiences gained from the institution in my career. Thank you to the faculty and management for being a part of my professional journey.



VEENA S
ECE Alumni
Business Analyst cum Tester
Tata Consultancy Services (TCS)



JISSY R
ECE Alumni
Data Analyst - IT Engineer Applications
Kaiser Permanente

As an alumnus of Ahalia School of Engineering and Technology from the Electronics and Communication Engineering department, I truly value the knowledge, guidance, and exposure I received during my academic journey. The department not only focused on strong technical fundamentals but also encouraged innovation, teamwork, and practical learning through projects and activities. The support from faculty members and the positive learning environment helped me build confidence and prepared me well for my professional career

Choosing Electronics and Communication Engineering at Ahalia School of Engineering and Technology was one of the best decisions in my academic journey. The department encouraged innovation, teamwork, and continuous learning through projects, technical activities, and industry-oriented training. The knowledge and confidence I gained during my studies helped me grow professionally and build my career as a Senior Test Engineer at IBS Software. ECE is an exciting field that opens doors to opportunities in electronics, communication, software, testing, and emerging technologies. I warmly recommend aspiring engineers to join ECE at ASET and shape a successful future in technology



DEEPTHI D
ECE Alumni
Senior Test Engineer
IBS Software solution

OUR MAJOR RECRUITERS

Aabasoft, ACLICK To Change Your Future ACClick Software Solution, accenture, amazon, asianpaints, AURITAS, AvioHeliTronics InfoSystems Pvt.ltd., Capgemini, CADeploy Engineering, digital nirvana, Cognizant, Sepixel MLM Software, ESCORTS, EXCELACOM CONSULTING AND TECHNOLOGY SOLUTIONS, EY, HCL, full creative DIGITAL AGENCY, HGS HINDUJA GLOBAL SOLUTIONS, ibssoftware, Infosys, ideas2IT, IQVIA, Mindtree

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ELECTRONICS & COMMUNICATION ENGINEERING (NBA ACCREDITED)

ELECTRONICS & COMMUNICATION ENGINEERING (NBA ACCREDITED)

GOVERNMENT OF INDIA'S MEGA PUSH

TO BOOST ELECTRONICS & SEMICONDUCTORS

MAKING INDIA A GLOBAL HUB





"India is committed to building a strong electronics and semiconductor ecosystem that drives innovation, creates jobs and makes India self-reliant."

– Narendra Modi
Prime Minister of India

STRONG POLICIES • MASSIVE INVESTMENTS • BRIGHT FUTURE

KEY GOVERNMENT SCHEMES SUPPORTING ELECTRONICS SECTOR

PRODUCTION LINKED INCENTIVE (PLI) SCHEME

- Incentivizing large scale manufacturing in Electronics & IT Hardware.
- Boosting global competitiveness & exports.

INDIA SEMICONDUCTOR MISSION (ISM)

- Building a sustainable semiconductor & display manufacturing ecosystem.
- Strengthening innovation, R&D and skilled workforce.

ELECTRONICS COMPONENTS MANUFACTURING SCHEME (ECMS)

- Supporting domestic manufacturing of critical electronic components.
- Reducing import dependency & improving value addition.

SEMICONDUCTOR MISSION 2.0

- Expanding the vision of ISM with more focus on advanced technologies, ATMP/OSAT, design ecosystem & talent development.

MODIFIED SPECIAL INCENTIVE PACKAGE SCHEME (M-SIPS)

- Financial support for setting up semiconductor fabs, display fabs & compound semiconductors in India.

₹40,000 CRORE ALLOCATION FOR ELECTRONICS MANUFACTURING SUPPORT (BUDGET 2026)

THOUSANDS OF JOBS TO BE CREATED

BOOST TO EXPORTS & 'MAKE IN INDIA' VISION

ATMANIRBHAR BHARAT SELF-RELIANCE IN CRITICAL TECHNOLOGIES

MAJOR NEWS FROM NEWSPAPERS

THE TIMES OF INDIA

Govt clears semiconductor projects worth ₹3,936 crore in Gujarat

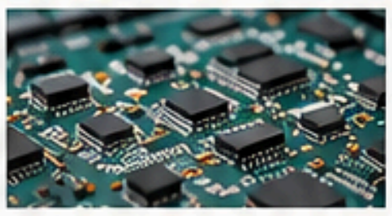


New Delhi: The government has approved semiconductor projects worth ₹3,936 crore in Gujarat under the India Semiconductor Mission (ISM), aimed at boosting domestic chip manufacturing and creating a strong ecosystem.

– The Times of India, 11 April 2025

THE HINDU

Govt approves electronics component manufacturing projects worth over $750 million



New Delhi: The government has approved seven electronics component manufacturing projects with an investment of over $750 million under the Electronics Components Manufacturing Scheme (ECMS).

– The Hindu, 31 March 2026

BusinessLine

Budget 2026: ₹40,000 crore allocated for electronics manufacturing support



New Delhi: Finance Minister Nirmala Sitharaman announced an allocation of ₹40,000 crore to further strengthen the electronics manufacturing ecosystem in the country.

– BusinessLine, 1 Feb 2026

THE ECONOMIC TIMES

PLI scheme a big success; mobile phone exports cross ₹1.5 lakh crore in FY25



New Delhi: India's mobile phone exports crossed ₹1.5 lakh crore in FY25, a massive jump attributed to the success of the Production Linked Incentive (PLI) Scheme for Electronics.

– The Economic Times, 15 May 2025

mint

India on fast track to become global electronics manufacturing hub



Strong policy support, large investments and growing ecosystem are positioning India as a trusted global hub for electronics and semiconductor manufacturing.

– Mint, 20 May 2025

INDIA'S GROWING ELECTRONICS & SEMICONDUCTOR ECOSYSTEM



SEMICONDUCTOR PLANT (Dholera, Gujarat)



ELECTRONICS MANUFACTURING FACILITY (Tamil Nadu)



DISPLAY FAB PROJECT (Andhra Pradesh)



OSAT & ATMP FACILITY (Assam)

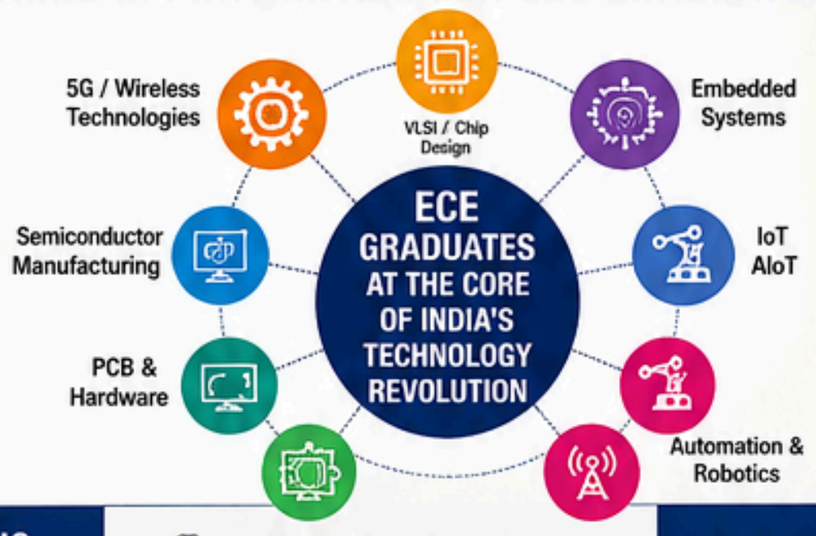


MADE IN INDIA CHIPS Powering the Future

HUGE OPPORTUNITIES FOR ECE GRADUATES

THRIVING CAREER AREAS

- VLSI Design & Verification
- Embedded Systems Development
- Semiconductor Process & Manufacturing
- PCB Design & Hardware Engineering
- IoT & Wireless Technologies
- Automation & Industrial Electronics
- Testing, Validation & Quality Assurance
- R&D, Innovation & Product Development



WHY ECE IS THE FUTURE

- ✓ High demand across core industries and emerging technologies
- ✓ Work on cutting-edge technologies that shape the future
- ✓ Excellent career growth & global opportunities
- ✓ Be a part of India's journey towards self-reliance and technological leadership

THE FUTURE IS ELECTRONIC.
THE FUTURE IS INDIA.
THE FUTURE IS YOURS!

सत्यमेव जयते

GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY

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BE THE CHANGE. BUILD THE FUTURE.

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