

C. Abdul Hakeem College of Engineering & Technology

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Prospectus



Enter to Learn

Leave to Serve

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CHAIRMAN'S MESSAGE



**Dr.S.Ziauddeen Ahmed,
Chairman**

We are proud that our nation, India, recently has attained the 4th position in terms of annual Gross Domestic Product. The development of a society and the nation depends on its technological advancements, which is a measure of its productive capacity. In this capacity-enhancement journey of our nation, we are honoured to have contributed since 1918 by Melvisharam Muslim Educational Society (MMES) and from 1998 through C. Abdul Hakeem College of Engineering and Technology (CAHCET).

For more than 25 years, CAHCET has been providing quality engineering and technical education to the young minds of our society. We have established modern lab facilities supported by dedicated faculty members who not only impart technical knowledge, but also mentor students for their inclusive development. Our College emphasizes on the development of both analytical and practical skills, and thus enables them to apply knowledge to solve real-world problems. We support personality and soft-skill development, instilling ethics and social responsibility in our students. Our quality assurance initiatives such as National Board of Accreditation (NBA), New Delhi (a member of Washington Accord, USA), National Assessment and Accreditation Council (NAAC) and ISO certification ensure that our graduates are internationally recognised and enable their mobility across the globe.

Despite the economic progress of our nation, we still lag behind other developed nations in terms of secondary and tertiary education enrollment ratios. Towards bridging the gap in the enrolment ratio, we are dedicatedly continuing our efforts to provide quality modern engineering and technology education for our younger generations to come.

CORRESPONDENT'S MESSAGE



**Mr. V. Mohamed Rizwanullah, M.B.A.,
Correspondent**

With immense pride, I present the prospectus of C. Abdul Hakeem College of Engineering & Technology (CAHCET), a renowned institution located in Ranipet District, Tamil Nadu. We inherit our vision, values, and the legacy of providing educational services to society, irrespective of caste, creed and religion, from our 100 plus-year-old renowned trust, the Melvisharam Muslim Educational Society (MMES).

With the vision of "Providing Quality Technical Education on par with Global Standards", our college established in the year 1998 has consistently strived to provide quality technical education that not only meets international standards, but also inculcates ethical values and social responsibility. Our institution has developed a holistic and vibrant teaching-learning ecosystem reinforced by dedicated faculty members, state-of-the-art infrastructure, industry collaborations, and student-centric learning methods. The campus is blessed with vast playgrounds and well-equipped outdoor and indoor sports facilities. For the benefit of our students coming from distant places, our College is a "home away from home", providing ultra-modern hostel facilities and quality vegetarian and non-vegetarian food. In addition, we have in place attractive merit-based scholarships to reward students' academic performance.

As we step into the future, we are committed to strengthening our academic programs, enhance industry partnerships, and explore novel ideas through research, incubation, start-ups and entrepreneurship activities. Our goal is to nurture competent, industry-ready professionals who can meaningfully contribute to society and the nation. I invite ambitious students to embark on this journey of success and become part of the legacy of C. Abdul Hakeem College of Engineering & Technology.

VISION

Providing Quality Technical Education on par with Global Standards.

MISSION

- To nurture world-class intellectual growth in our students by imparting high-quality, futuristic technical education in a cost-effective manner.
- To inculcate love, integrity, and moral values among students to enable them to contribute to the development of humanity through the application and dissemination of technical knowledge.
- To strive for advancement in Engineering Research and develop into a Centre par Excellence in Engineering and Technology.

QUALITY POLICY

C Abdul Hakeem College of Engineering and Technology strives to establish a system of quality assurance to continuously address, monitor and evaluate the quality of education offered to students and to promote an effective teaching-learning process for students' benefit to transform the institution into a Centre of Excellence in Engineering and Technological Studies.

MELVISHARAM MUSLIM EDUCATIONAL SOCIETY

Melvisharam Muslim Educational Society (MMES) was established by Nawab C. Abdul Hakeem Saheb, a renowned businessman, great philanthropist, and an eminent personality of Melvisharam. During the tumultuous pre-independence period, the visionary Nawab C. Abdul Hakeem, with the foresight that only through educating the people could society be uplifted from all forms of backwardness, founded MMES in 1918. Over the years, MMES has established primary, secondary, and higher education institutions known for their excellence. The uniqueness of the MMES has been its practice of providing education to the society, transcending barriers of caste, creed and religion. For more than a century, our founder's vision and mission have endured, driven by dedication and vigour. Currently, MMES manages the following institutions:

- C. Abdul Hakeem College of Engineering and Technology (Accredited by NBA)
- C. Abdul Hakeem College of Arts and Science (for men), Autonomous (Re-accredited by NAAC "A+")
- M.M.E.S Academy of Architecture
- M.M.E.S Women's Arts and Science College (Accredited by NAAC "B+" & Certified by ISO 9001)
- Islamiah Boys Higher Secondary School
- Islamiah Girls Higher Secondary School
- Islamiah Primary School for Boys
- Islamiah Primary School for Girls
- Hakeem Matriculation School
- F.M. Primary School
- R.A. Primary School
- Madrasa-e-Umar
- M.M.E.S Public School (CBSE)

C. Abdul Hakeem College of Engineering and Technology (CAHCET)

C. Abdul Hakeem College of Engineering and Technology is approved by the All India Council for Technical Education (AICTE), New Delhi and affiliated to Anna University, Chennai. The College provides comprehensive academic & pedagogical training to the students, supported by a well-structured Anna University curriculum. It maintains excellent modern infrastructure facilities and other resources, ensuring quality engineering education for the students. In its more than 25 years of operation, the College has produced thousands of engineers and technocrats.

The College is located in Melvisharam, Ranipet District, Tamil Nadu, on the Bangalore-Chennai highway, 100 kilometres from Anna International Airport, Chennai, and 4 kilometres from the historic city of Arcot. The town of Melvisharam, with a population of approximately 50,000, is renowned for manufacturing and exporting leather and leather goods. Additionally, the town is known for its numerous educational institutions and advanced medical facilities, including Apollo-KH Hospital.

PROGRAMMES OFFERED

The College offers the following undergraduate and postgraduate programmes, approved by the All India Council for Technical Education (AICTE), New Delhi and affiliated to the Anna University, Chennai. In addition, a Ph.D programme is offered by the Department of Electronics & Communication Engineering.

Undergraduate Programmes

- B.Tech. Artificial Intelligence and Data Science
- B.E. Civil Engineering
- B.E. Computer Science and Engineering
- B.E. Computer Science and Engineering (AI&ML)
- B.E. Electrical and Electronics Engineering
- B.E. Electronics and Communication Engineering
- B.Tech. Information Technology
- B.E. Mechanical Engineering

Postgraduate Programmes

- M.E. Computer Science and Engineering
- MBA - Master of Business Administration
- MCA - Master of Computer Application

B.Tech. Artificial Intelligence and Data Science



Objectives

- Develop a comprehensive understanding on data collection, analysis and transformation into meaningful outcomes.
- Learn to design and build intelligent systems using machine learning and deep learning techniques.
- Explore the latest advancements in AI and use them to create innovative, real-world solutions.

Highlights

- Hands-on learning through industry-relevant projects and training in latest AI tools, frameworks, and cloud platforms
- Well-equipped Computer Laboratories with high-performance systems
- Practical exposure using IoT devices such as Arduino Uno and Raspberry Pi.

Career Opportunities / Job Avenues

Opportunities in various designations such as: Artificial Intelligence Engineer, AI Software Engineer, Data Scientist, Machine Learning Engineer, Computer Vision Engineer, Natural Language Processing (NLP) Engineer, AI Research Scientist, Robotics Engineer (AI Integration), AI Ethics and Policy Specialist in IT MNCs and Govt. organizations.

Core Courses

Machine Learning, Deep Learning, Data Exploration and Visualization, Database Design and Management, Design and Analysis of Algorithms, Artificial Intelligence, Fundamental of Data Science and Analytics, Big data Analytics, Data and Information Security, Distributed Computing, Embedded systems and IOT, Neural Networks, Robotic Process Automation, Cloud Service Management, Virtualization, Storage Computing, Data Warehousing, Fuzzy Logic.

Laboratories

Data Exploration and Visualisation, Deep Learning, Artificial Intelligence, Machine Learning, Python Programming, Data Structures, Database Design and Management, Data Analytics, Fuzzy Logic, IoT, Full Stack Web Development, Neural Networks, Mobile Computing, Object Oriented Software Engineering.

B.E. Civil Engineering



Objectives

- To develop competent Civil Engineers with strong fundamentals in planning, design, construction and management of infrastructure projects.
- To equip students with modern tools, sustainability concepts and digital technologies in Civil Engineering.

Highlights

- Curriculum aligned with industry requirements and emerging technologies.
- Exposure to modern surveying tools (Total Station, GPS, GIS, Drone Surveying).
- Training in structural design software (STAAD, ETABS, SAFE, AutoCAD, Revit).

Career Opportunities / Job Avenues

Construction and Infrastructure Development Companies, Consultancy and Design Firms, Government Departments PWD, Highways, Railways, Irrigation, Housing Boards, Urban Development Authorities, Public Sector Undertakings (PSUs), L&T, NCC, HCC, NBCC, CPWD, NHAI.

Career roles include

Site Engineer, Structural Engineer, Geotechnical Engineer, Transportation Engineer, Water Resources Engineer, Environmental Engineer, Quantity Surveyor, Project Manager, BIM Engineer, GIS Analyst.

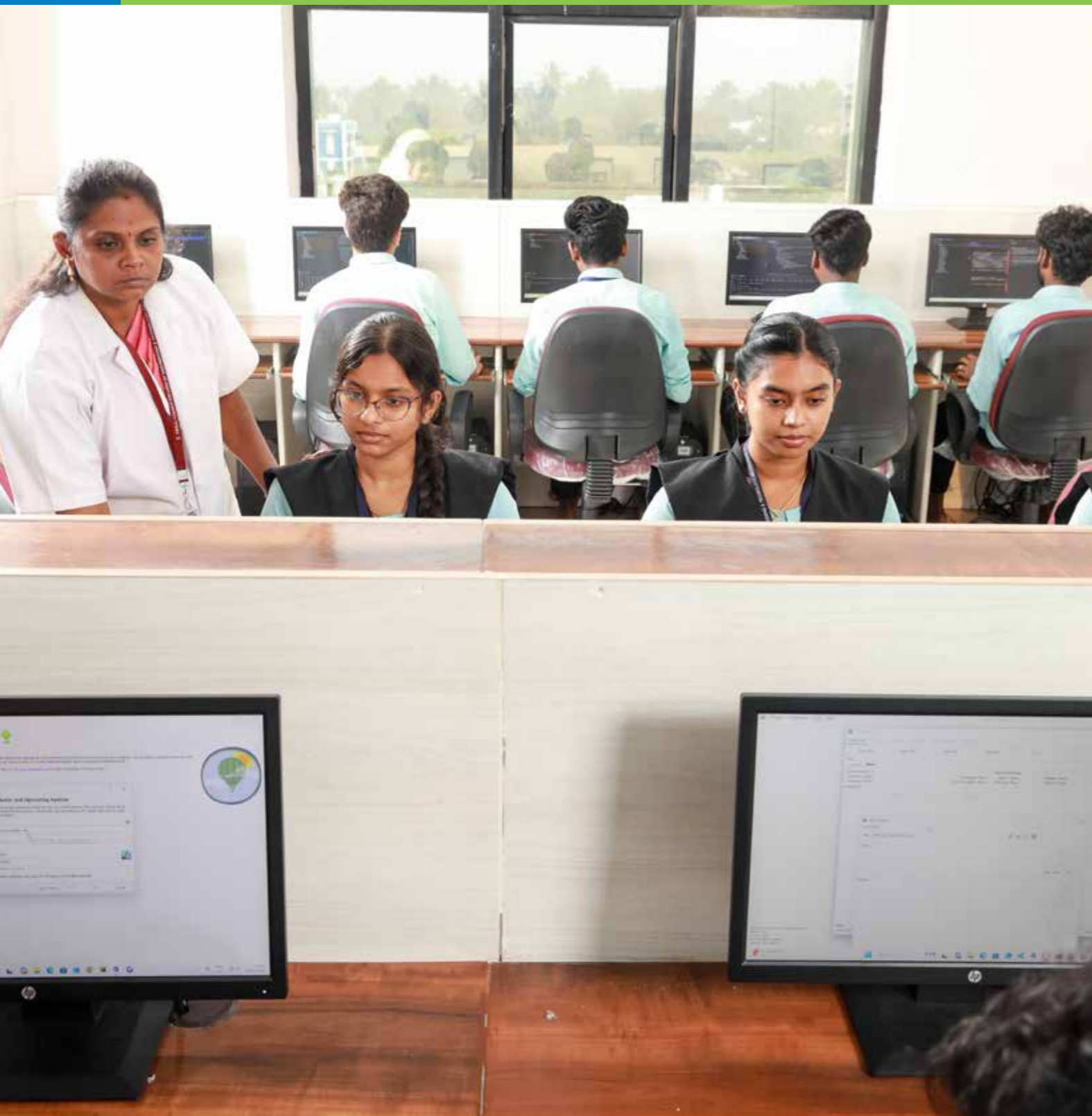
Core Courses

Transforms and Partial Differential Equation, Environmental Science and Engineering, Applied Geology, Mechanics of Solids, Mechanics of Fluids, Construction Techniques, Equipment and Practice, Surveying, Numerical Methods, Soil Mechanics, Strength of Materials, Applied Hydraulic Engineering, Surveying-II, Highway Engineering, Irrigation Engineering, Structural Analysis - Classical Methods, Railways, Airport and Harbour Engineering, Environment Engineering-1, Foundation Engineering, Design of RC Elements, Principles of Management, Structural Analysis - II, Design of Steel Structures, Construction Planning & Scheduling, Environmental Engineering II, Design of RC and Brick Masonry Structures, Estimation of Quantity Surveying, Basics of Dynamics and Aseismic Design, Prestressed Concrete Structures, Engineering Economics and Cost Analysis.

Laboratories

Survey Practical, Computer Aided Building Drawing, Strength of Materials, Hydraulic Engineering, Survey Practical-II, Concrete and Highway Engineering, Soil Mechanics, Communication Skills, Environmental and Irrigation, Engineering Drawing, Environmental Engineering, Survey Camp, Computer Aided Design Drafting, Design Project.

B.E. Computer Science and Engineering



Objectives

- To train proficient computing professionals with a solid understanding of software development, computational theory, and system architecture to address practical and industrial challenges.
- To inculcate collaborative skills, ethical conduct and continuous professional development.

Highlights

- Academic framework designed according to Anna University norms with balanced emphasis on foundational computing principles and contemporary technological advancements.
- Modern laboratory infrastructure and experiential learning through projects, internships, and industry exposure to enhance analytical and technical competencies.

Career Opportunities / Job Avenues

Graduates can pursue roles such as Application Developer, System Architect, Database Specialist, Network Administrator, Cloud Operations Associate, Cyber Defense Specialist, Technical Consultant, and positions in MNCs, public and private enterprises, research institutions, entrepreneurial ventures, and postgraduate programmes.

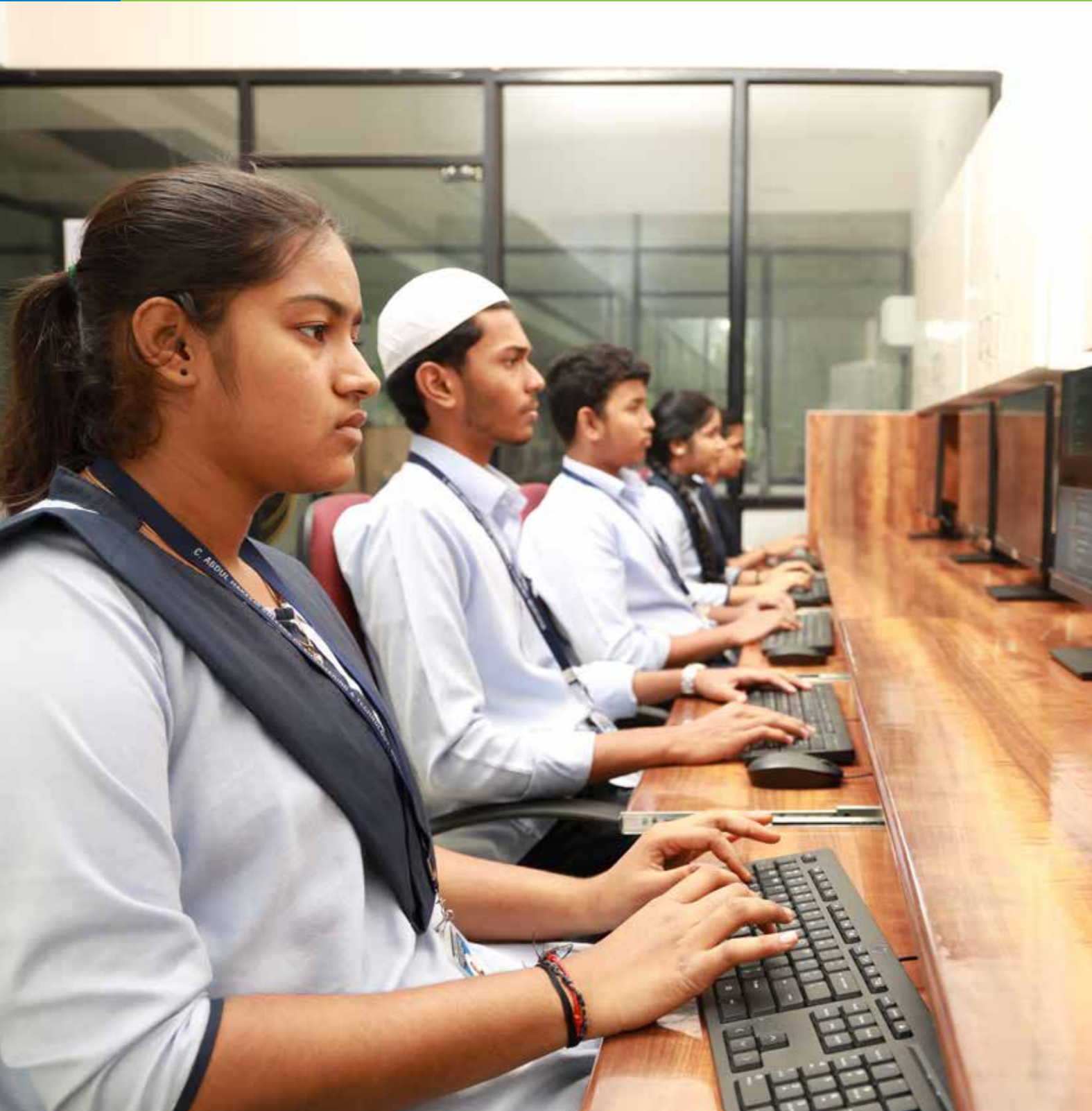
Core Courses

Discrete Mathematics, Computer Programming, Object Oriented Programming, Data Structures, Algorithms, Digital Principles and Computer Organization, Operating Systems, Compiler Design, Database Management Systems, Computer Networks, Python for Data Science, Artificial Intelligence, Machine Learning, Big Data Analytics, Full Stack Development.

Laboratories

Computer Programming, Object Oriented Programming, Data Structures, Java Programming, Operating Systems, Database Management Systems, Python for Data Science, Computer Networks, Machine Learning, Big Data Analytics, Full Stack Development.

B.E. Computer Science and Engineering (Artificial Intelligence & Machine Learning)



Objectives

- To develop domain experts in intelligent computing technologies with strong conceptual knowledge
- To train in computational sciences and learning-based systems for data-driven problems.

Highlights

- Curriculum with focus on computing fundamentals, intelligent algorithms and analytics-based technologies.
- Applied training, industrial internships, elective specialization tracks, innovation-driven projects

Career Opportunities / Job Avenues

Our graduates can build careers as: Intelligent Systems Developer, Predictive Analytics Specialist, Machine Intelligence Consultant, AI Application Developer, Research Associate in AI laboratories, Data Strategy Analyst, Intelligent Cloud Solutions Engineer, and roles in public organizations, corporate sectors, innovation hubs, and advanced academic research.

Core Courses

Discrete Mathematics, Computer Programming, Object Oriented Programming, Data Structures, Algorithms, Digital Principles and Computer Organization, Operating Systems, Compiler Design, Database Management Systems, Computer Networks, Python for Data Science, Artificial Intelligence, Machine Learning, Big Data Analytics, Full Stack Development, Deep Learning, Large Language Models.

Laboratories

Computer Programming, Object Oriented Programming, Data Structures, Java Programming, Operating Systems, Database Management Systems, Python for Data Science, Computer Networks, Machine Learning, Big Data Analytics, Full Stack Development, Deep Learning, AI Engineering.

B.E. Electronics and Communication Engineering



Objectives

- To develop competent electronics and communication engineers with strong theoretical foundations and practical skills.
- To prepare graduates for careers in communication, embedded systems, semiconductor, AI-enabled electronics and emerging technologies.
- To promote innovation, a research mindset and industry readiness.

Programme Highlights

- Advanced laboratories in Communication, Embedded Systems, VLSI, DSP and IoT
- Research and startup ecosystem support
- Industry-oriented projects and innovation activities
- Hands-on training in RF, Optical Communication, Wireless Networks and Antenna Systems
- Internship and industry collaboration opportunities

Career Opportunities / Job Avenues

Graduates are employed in: Telecommunications and Networking industries, Semiconductor and Embedded Systems companies, Electronics manufacturing and design firms, Artificial Intelligence, IoT, and Automation sectors, Defence and Space organisations, Software and hardware product companies, Research and Development institutions, Start-ups and innovation-driven enterprises.

Core Courses

Electronic Circuits and Devices, Signals and Systems, Communication Systems, Digital Signal Processing, VLSI Design, Embedded Systems and IOT, Microwave and Optical Communication, Computer Networks and Wireless Communication, Microprocessors and Microcontrollers, Digital Electronics, Image Processing, 4G/5G Communication, Transmission Lines.

Laboratory Facilities

Electronic Circuits and Simulation, Communication Systems, Linear Integrated Circuits, Digital Signal Processing, Embedded Systems & IoT, VLSI Design, Microwave and Optical Communication, Networks, Research and Development.

B.E. Electrical and Electronics Engineering



Objectives

- To equip students with strong foundation on Electrical and Electronics engineering concepts to meet the requirements of industries and society.
- To promote a culture of research, innovation and entrepreneurship in the thrust and allied areas of Electrical and Electronics Engineering.
- To enhance entrepreneurial skills in electrical engineering for societal challenges

Highlights

- Member, Institute of Electrical and Electronics (IEEE), U.S.A.
- Strong industry connections and a focus on practical applications in Electrical Engineering.
- Specialised training in AI-driven power solutions, robotics and embedded systems with labs for solar micro grids.

Career Opportunities / Job Avenues

Our graduates are employed in: Energy equipment's manufacturing, Erection, Testing and Commissioning industry, Energy producing power plants, Solar, Wind integration and transmission, industry involved in Battery Management System, Electric Drive Trains, Industry 4.0 and Robotics (PLC, SCADA Automations, Industrial IOT and Robotic Control), IoT and automation sectors, defense organizations, software and hardware product companies, Research and Development institutions, Startups and Innovation-driven enterprises.

Core Courses

Electric Circuit Analysis, Electrical Machines, Electronic Devices and Circuits, Data Structures and Algorithms, Transmission & Distribution, Measurement and Instrumentation, Micro Processor and Micro Controller, Control Systems, Power Electronics, Power System Analysis, Embedded C Programming, Special Electrical Machines, Protection Switch Gear, Electrical Drives, Power System Transients, Design of Electric Vehicle Charging System, High Voltage Engineering, Power System Operation and Control, Electrical Energy Generation and Utilization.

Laboratories

Electronic Circuits, Electrical Machines, Electronic Devices and Circuits, Power Electronics, Linear Integrated Circuits, Control and Instrumentation, Microprocessor and Microcontroller, Power System Simulation, Data Structures and Algorithms.

B.Tech. Information Technology



Objectives

- To develop competent Information Technology professionals with strong foundations in computing, programming, and emerging digital technologies.
- To equip students with problem-solving, analytical, and design skills required for modern IT-driven industries.
- To foster innovation, creativity, and entrepreneurial thinking through project-based and experiential learning.

Highlights

- NBA Accredited Programme, ensuring quality education based on Outcome-Based Education (OBE).
- Well-equipped computer laboratories with high-speed internet and modern software tools.
- Emphasis on hands-on learning through mini-projects, internships, and industry-oriented training.
- Experienced faculty members with strong academic and industry backgrounds.

Career Opportunities / Job Avenues

Software Developer, Software Engineer, Web and Mobile Application Developer, Data Analyst, Data Scientist, Cyber Security Analyst, Cloud Engineer, DevOps Engineer, System Administrator, Network Engineer, IT Consultant, Technical Support Engineer in reputed multinational IT companies, R&D, government organizations etc.

Core Courses

Programming in C / Python, Object Oriented Programming, Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks, Web Essentials, Artificial Intelligence and Machine Learning, Cloud Computing, Full-stack web development, DevOps, UI/UX, Software testing and automation.

Laboratories

Programming, Data Structures, Object Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, Web Technology, Software Engineering, Full stack web development, DevOps, UI/UX, Software testing and automation, Project and Innovation Laboratory.

B.E. Mechanical Engineering



Objectives

- To impart fundamental engineering skills required for engineering practice.
- To empower students with strong technical knowledge, effective decision-making abilities, and problem-solving skills in the domains of design, manufacturing, and thermal sciences.
- To enrich students with practical knowledge and to sharpen and accelerate their professional skills, bridging the gap between academic learning and professional practice.

Highlights

- Well-equipped laboratories to support contemporary engineering education and research.
- Access to high-standard CAD, CAM, and CAE facilities to support modern mechanical engineering education and research.
- Active and participation in national and state-level seminars, workshops, and conferences.

Career Opportunities / Job Avenues

- Opportunities across manufacturing, automotive, aerospace, energy, chemical, electronics, and leading Govt. organizations like BHEL, BEML, HAL, Indian Railways, ONGC, ISRO, ARAI, NTPC, and SAIL.
- Opportunities in research and development, design, testing and evaluation, manufacturing, operations and maintenance, marketing, sales, and administration sectors.

Core Courses

Introduction to Mechanical Engineering, Engineering Drawing, Engineering Mechanics, Engineering Thermodynamics, Fluid Mechanics and Machinery, Engineering Materials and Metallurgy, Manufacturing Processes, Theory of Machines, Thermal Engineering, Hydraulics and Pneumatics, Manufacturing Technology, Strength of Materials, Design of Machine Elements, Metrology and Measurements, Renewable Energy Technologies, Automobile Engineering, Non-Traditional Machining Processes, Heat and Mass Transfer, Material Handling and Solid Processing Equipment, Power Generation Equipment Design, Surface Engineering, Process Planning and Cost Estimation, Mechatronics and IOT, Computer Integrated Manufacturing, Industrial Management, Introduction to Non-Destructive Testing, and Production Planning and Control.

Laboratories

Makerspace Laboratory, Re-Engineering for Innovation Laboratory, Computer-Aided Machine Drawing, Manufacturing Technology, Strength of Materials and Fluid Machinery, Thermal Engineering, Metrology and Dynamics, CAD/CAM, Heat Transfer, and Mechatronics and IoT.

M.E. Computer Science and Engineering



Objectives

- To develop advanced computing professionals and researchers with strong theoretical knowledge and practical expertise in computer science and engineering.
- To enrich students with advanced problem-solving skills, research capability, ethical responsibility and inspire them for lifelong learning to address complex academic and industrial challenges.

Highlights

- Curriculum structured in accordance with Anna University postgraduate regulations, with emphasis on advanced computing concepts, research methodologies and emerging technologies.
- State-of-the-art laboratories, research-oriented projects and industry collaboration to enhance innovation, analytical thinking, and technical proficiency.

Career Opportunities / Job Avenues

Graduates can pursue careers as Software Architect, Senior Software Engineer, Data Scientist, Systems Analyst, Research Engineer, Database Administrator, Cloud Engineer, Cybersecurity Analyst, AI/ML Specialist, Technical Consultant, and academic or research positions in universities, R&D centers, multinational companies, startups and government organizations. Graduates can also pursue doctoral studies and advanced research programmes.

Core courses

Advanced courses in algorithms and data structures, distributed systems, operating systems, advanced database systems, software engineering, cloud computing, machine learning, data analytics, cybersecurity and research methodology. Elective courses enable specialization in emerging areas such as artificial intelligence, big data, Internet of Things and blockchain technologies.

Lab Facilities

Advanced laboratories in software systems, networking, cloud computing, data analytics, artificial intelligence and cybersecurity. The programme includes research seminars, projects and a comprehensive thesis project focusing on innovative computing solutions and real-world applications.

MBA - Master of Business Administration



Embarking on an MBA journey is a strategic step towards mastering the art of leadership and business excellence. The programme emphasises real-world learning through engaging case studies, internships, industry projects, and inspiring guest lectures from industry stalwarts. It's a perfect blend of theory and practice, infused with leadership development and soft skills training to foster well-rounded managers.

Objectives

- To sculpt dynamic professionals equipped with robust managerial skills, innovative thinking, and in-depth business acumen.
- To nurture critical decision-making, strategic vision, and compelling communication, empowering the students to navigate the multifaceted world of finance, marketing, human resources, and entrepreneurship.
- To transform aspiring individuals into visionary leaders who drive change and create impactful contributions to society and industry.

Highlights

The MBA programme in Anna University-affiliated colleges across Tamil Nadu stands out with its rich array of specialisations designed to ignite your passions and accelerate your career. The specialisations are: Finance / Marketing / Human Resources Management / Business Analytics / Operations. These specialisations allow students to carve their unique path, aligning education with their future ambitions.

Why Choose the School of Management?

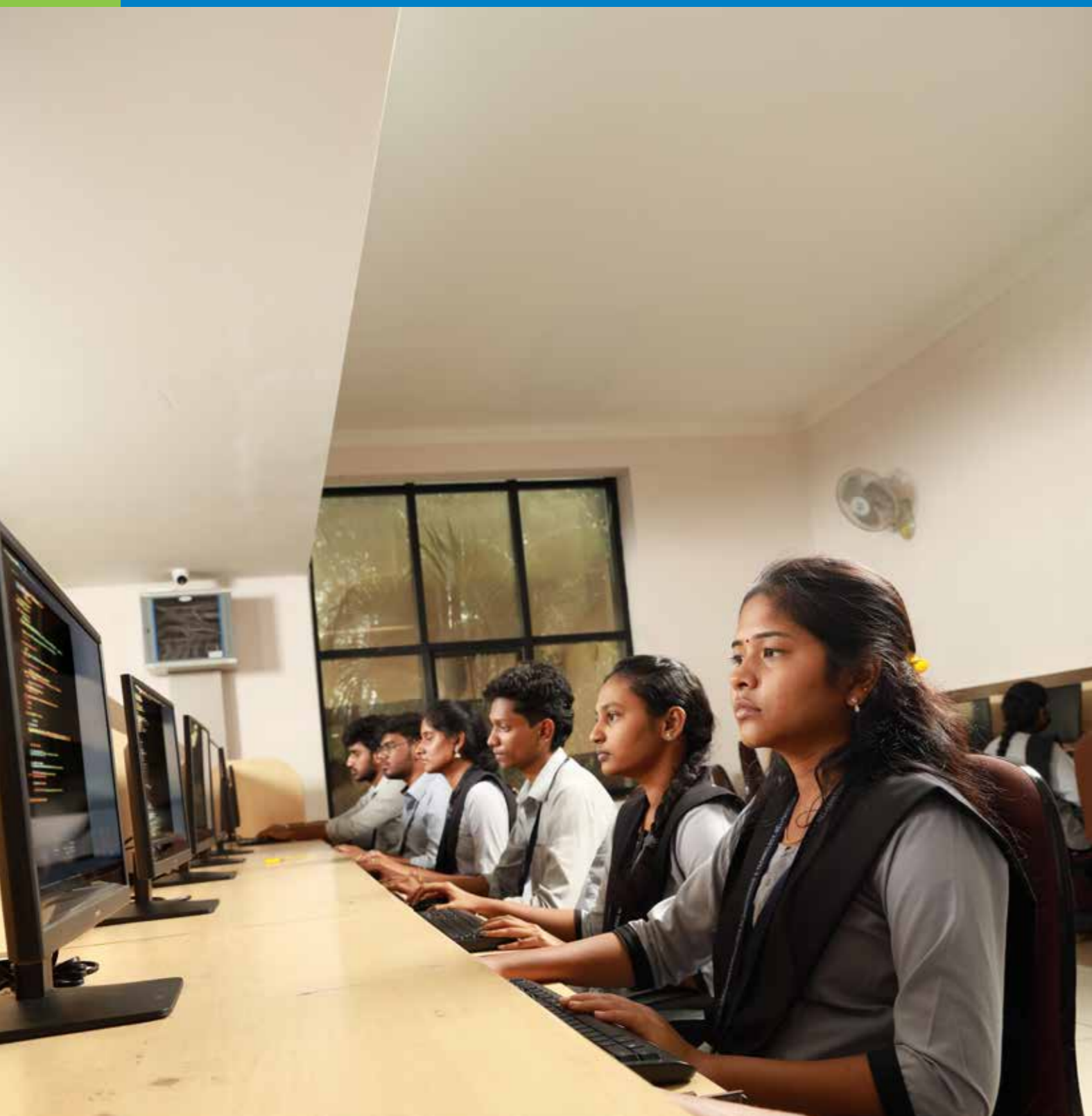
Opting for an MBA at the School of Management within Anna University-affiliated institutions unlocks a universe of opportunities:

- **Reputation for Excellence:** Known for academic rigour and industry-relevant curriculum.
- **Expert Faculty:** Learn from seasoned academicians and industry veterans.
- **Strong Industry Ties:** Robust connections with top corporations for internships, placements, and live projects.
- **Holistic Growth:** Focus on leadership, communication, personality development, and soft skills.
- **Outstanding Placements:** A track record of placing students in top-tier national and multinational giants.
- **Research & Innovation:** Engage in cutting-edge research, entrepreneurial ventures, and incubation centres.
- **Global Outlook:** Participate in international collaborations, exchange programs, and global business exposure.

Vast Job Opportunities & Bright Future

An MBA from CAHCET opens doors to a range of career paths across sectors such as banking, consulting, manufacturing, IT, healthcare, and government organisations. Roles such as Business Analyst, Marketing Manager, Financial Advisor, HR Head, Operations Leader, and Product Strategist are just the beginning. The degree significantly boosts earning potential and enables rapid career progression, often leading to senior managerial and executive roles. It also lays a strong foundation for entrepreneurial ventures and start-ups.

MCA - Master of Computer Applications



Objectives

- To impart strong theoretical and practical knowledge in computer applications to meet the requirements of the IT industry and academia.
- To develop problem-solving, analytical, and programming skills required for designing and implementing software solutions.

Highlights

- Strong Focus on Emerging Technologies such as Data Science, AI, Machine Learning, Cloud Computing, and Cyber Security
- Project-Based learning approach to enhance problem-solving and practical skills
- Industry Interaction & Guest Lectures by IT professionals and domain experts

Career Opportunities / Job Avenues

- Corporates such as Wipro, Infosys, Accenture, Cognizant, etc.
- PSUs, government and banking sectors.
- International placements.

Core courses

Networking and Communication Systems, Software Testing and Automation, Data Structures and Algorithms using Python, Data Exploration and Visualisation, Advanced Java Programming, UI & UX Design, Foundations of Data Science, Full Stack Web Development, Mobile Application Development, Quantum Computing, Machine Learning Techniques, Industry-Oriented Courses & Electives.

Laboratories

Networks, Software Testing, Data Structures, Data Exploration and Visualisation, Advanced Java Programming, Foundations of Data Science, Full Stack Web Development, Mobile Application Development and Machine Learning.

Department of Science and Humanities



The Department of Science and Technology supports the first-year undergraduate engineering students by laying a strong foundation for the four-year degree programmes and by introducing fundamental concepts in technical education. As an academic support division, the department houses a modern Language Laboratory equipped with multimedia facilities. In addition to digitally equipped classrooms with audiovisual teaching facilities and laboratory sessions, the department conducts seminars, symposia, workshops, personality development initiatives, and student-expert interaction programs to enhance students' co-curricular growth.

Objectives

- To provide a strong foundational knowledge base that supports advanced engineering studies
- To develop effective communication skills with a focus on scientific, technical and academic content.
- To provide students with soft-skills and aptitude skills training and equip them for a successful professional career.

Highlights

- Technology-integrated communication training using digital and language lab resources.
- Well-equipped laboratories that support experiential and practical learning.
- Structured practice through mock interviews, group discussions and presentation sessions.
- Regular seminars, workshops and expert interaction programmes for academic and professional exposure.
- Focus on personality development, soft skills and career readiness.

Common First Year Courses

Applied Physics, Applied Chemistry, Applied calculus, Linear Algebra, English Essentials, Heritage of Tamils, Tamils and Technology, Transforms and its Application.

Laboratories

Life Skills for Engineers-I, Applied Physics and Chemistry Lab, Makerspace Lab, Re-Engineering for Innovation Lab, Physical Education.

Active Professional Societies

The following recognised professional societies are active in the college, with both faculty members and students as members. In collaboration with these professional bodies, events such as paper presentations, project expo, symposiums and seminars are organised, thereby enhancing the teaching-learning process.

- Indian Society for Technical Education (ISTE)
- The Institution of Electronics and Telecommunication Engineers (IETE).
- Indian Welding Society (IWS)
- Society of Automotive Engineers (SAE)
- Institute of Electrical and Electronics Engineers (IEEE)
- Computer Society of India (CSI)

The Central Library

The Central Library of C. Abdul Hakeem College of Engineering and Technology is 'Hub of Knowledge'. Our Central Library is fully computerized, automated with Barcode facility and OPAC (Online Public Access Catalogue). It has a massive collection of books, both regular and reference for easy Teaching Learning process. In addition, we have subscribed to journals both National and International, Magazines. E-books facility and NPTEL videos are available in the Digital Library. The Newspaper and Reprographic Sections are among the many sections that provide easy access and convenient location for effective reading.

Highlights

- KOHA ILMS
- Digital library integrated with audio-visual resources
- NPTEL / SWAYAM / MOOC learning facility.

Subscription to E-Journal Database:

DELNET E-Consortium and NDLI



Placement & Training

The Placement and Training Cell (PAT) supports students in developing the competencies required for a successful professional career. In addition to career guidance, the PAT office provides customised training programs in soft skills, aptitude, hands-on training, and domain-specific technical skills to enhance students' employability.

Objectives

- To provide a comprehensive career development support that includes career guidance, mentoring and guiding students towards their career goals.
- To organise training programmes on soft skills, technical workshops and competence, and interpersonal skills required for professional excellence.
- To provide continuous career support throughout and beyond the academic journey by facilitating industry-oriented training and certifications that enhance students' employability.

Highlights

Prominent positions in Government (State & Central) bodies, leading multinational corporations in India and abroad, reputed private corporations such as Wipro, Infosys, K.H. Shoes, Mahindra Satyam, Tata Consultancy Services, L&T Infotech, E2E Networks, CSCS USA, Cognizant Technology Solutions etc.,

Alumni Network

The CAHCET Alumni Association has been established to build a strong, closely connected alumni network that bridges the gap between aspiring CAHCET students and accomplished alumni. Our alumni continue to bring pride to the institution through their achievements worldwide, and the association serves as a platform to celebrate these successes across the entire CAHCET community.

Industry–Institute Partnership Cell

The Industry–Institute Partnership Cell bridges the gap between classroom learning and real-world application by exposing students to practical and industrial training environments. Through this collaboration, the institution provides specialised training to industry professionals, while industry partners equip students with hands-on experience in their chosen specialisations.

Highlights:

- Encourages students to gain meaningful practical exposure.
- Enables learning through industry-focused workshops and expert interactions.
- Organises active student participation in Summer Training Camps (In-plant Training), project work and industrial visits.

The Institutions Innovation Council (IIC)

The Institution’s Innovation Council (IIC) is an initiative of the Ministry of Education (MoE), Government of India, established in 2018 in collaboration with the All India Council for Technical Education (AICTE). The council aims to systematically foster a strong culture of innovation and entrepreneurship across Higher Education Institutions (HEIs) in India.

Objectives:

- Actively engage faculty and students in innovation and entrepreneurship activities, including ideation, problem-solving, proof-of-concept development, design thinking, intellectual property Rights (IPR), and project planning and management.
- Organise regular workshops, seminars, and interactive sessions with entrepreneurs, investors, and industry professionals, while developing a strong mentor network to guide student innovators.

Focus of IIC:

- Create a dynamic and vibrant local innovation ecosystem.
- Establish and strengthen start-up support mechanisms within HEIs.
- Prepare institutions for the ATAL Ranking of Institutions on Innovation Achievements (ARIIA) framework.
- Develop a structured ecosystem to scout for innovative ideas and support their pre-incubation.
- Enhance students’ cognitive and technological capabilities.



Physical Education



At C. Abdul Hakeem College of Engineering & Technology, students are encouraged to develop into holistic personalities through a strong focus on physical fitness and sports. The college provides excellent indoor and outdoor sports facilities, including a well-equipped gymnasium, and promotes active participation in interdepartmental and intercollegiate competitions for both boys and girls. Regular training sessions, coaching camps, and sports events are organized to enhance students’ skills, discipline, and competitive spirit.

The Department of Physical Education aims to inculcate sportsmanship and overall well-being among students and staff, while nurturing values of integrity, teamwork, leadership, and a healthy lifestyle. It also emphasizes the importance of mental fitness and stress management through physical activities, helping students maintain a balanced and active academic life.





HOSTEL

Hostel at C.Abdul Hakeem College of Engineering & Technology serve as a true home away from home, offering more than just accommodation. There are separate hostels for boys and girls, located within the campus, provide a comfortable, modern, safe, inclusive, and secure living environment, while helping students build lasting friendships and transition smoothly into college life.

The students, men and women, are provided with high-quality, hygienic vegetarian / non-vegetarian food. Dedicated residential staff are always available to support students from diverse backgrounds and foster a strong sense of community. Further, living on campus enables students to connect with a diverse student community and participate in campus activities.

Highlights:

- Spacious reading rooms equipped with newspapers, weekly and monthly magazines.
- Safe and purified RO drinking water.
- Eco-friendly solar water heating facilities.
- Television facilities for recreation.
- Computer access for academic and personal use.
- Indoor games for relaxation and leisure.
- Well-equipped gymnasium.
- Guest rooms available for visiting parents.



AMENITIES

- Wi-Fi Facility: Wi-Fi-enabled campus (including hostel).
- Internet Centre: 400 Mbps leased-line connectivity.
- Auditorium: Capacity of 2500.
- Seminar Halls: Dedicated Seminar Halls for all departments.
- Smart Classroom: Each department is provided with a Smart Class facility.
- Health Care Centre: A well-qualified doctor, assisted by a trained nurse.
- Safety & Security: CCTV across the campus for safety and security.
- Guest House: Fully furnished and air-conditioned accommodation for visitors and parents.

- Hakeem Cafeteria: Canteen providing both vegetarian and non-vegetarian snacks and food.
- Post Office: A full-fledged post office within the campus.
- Bank: City Union Bank with a 24-hour global ATM facility and amenities on campus.
- Books and Stationery Shop.

CANTEEN

The College canteen offers a diverse range of multi-cuisine food to cater to the tastes and preferences of students and staff. It serves a wide variety of hygienic and affordable vegetarian and non-vegetarian meals, along with tea, snacks, and fast food items. Operating from 9:30 a.m. to 5:30 p.m., the canteen efficiently meets the daily refreshment needs of the college community.



**C. ABDUL HAKEEM COLLEGE
OF ENGG. & TECH.**



Main Block



Electronics Block



Technology Tower



Auditorium



Mechanical Block



School of Management



Civil Block



Electrical Block



Central Library



Boys Hostel

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