



Be the light of the World

HOLY CROSS **ENGINEERING COLLEGE**

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai
Included under section 2(f) of UGC Act 1956)

**Graduate from the
finest Engineering
College**



TNEA code
4934

Student's Pride Parent's Trust



Welcome to Holycross Engineering College

Dear Future Engineers,

Welcome to Holycross Engineering College!

As you embark on this exciting journey with us, we are delighted to introduce you to an environment that fosters intellectual growth and holistic learning. At Holycross, our motto 'Be the light of the world' guides our mission to provide future engineers with limitless opportunities for education and personal development.

Our institution is committed to academic excellence and scientific inquiry, ensuring that every aspiring technologist benefits from a comprehensive educational experience. To support this, our campus is thoughtfully designed to meet all your academic needs. You will have access to well-furnished modern laboratories, updated libraries, comfortable hostels, and convenient transport facilities, all aimed at enhancing the educational journey of our talented scholars.

At Holycross, our goal is to shape innovative, creative, and research-driven minds, equipping you to excel in the world of science and technology. We are committed to preparing tomorrow's leaders to push the boundaries of knowledge and make a positive impact on society.

As you settle into our vibrant community, we encourage you to embrace every opportunity and challenge that comes your way. Together, let us illuminate the path towards a brighter future.

Once again, welcome to Holycross Engineering College, where you are empowered to shine!

Best Regards,
Management, Staff & Students,
Holycross Engineering College.

About The Institution

Holycross Engineering College (HEC) was started in 2009 by D.G. Rajamani Educational and Charitable Trusts, is one of the leading Engineering Colleges in the Tamilnadu situated in the district of Thoothukudi with a pivot aim of providing a beautiful backdrop to a world class technical education.

The college aspires to establish a system of quality assurance which would on a continuous basis evaluate and monitor the quality of education and training imparted at improving the teaching - learning process and ultimately, evolve as a centre of excellence providing technical education in both conventional and hi-tech disciplines of engineering.

The college is located in a 35-acre campus on the srivaikuntam-Thoothukudi Express Highway, Vagaikulam, Thoothukudi District. Spread in a serene atmosphere exclusively marked for higher education, the college provides an aesthetically pleasing environment for perfect learning.

Vision:

To serve the young minds by providing Quality Professional education in Engineering and Technology.

Mission:

To render the quality professional education through a Learner - Centric approach to empower the students in professional ethics, social responsibilities and enabling the students to meet the challenges in the field of Engineering and Technology.



Message from The Correspondent

HOLYCROSS ENGINEERING COLLEGE, since its establishment in 2009, has firmly embraced education as a catalyst for personal and societal transformation. Our educational ethos aims to cultivate students who are intellectually adept, morally upright, emotionally resilient, physically robust, and spiritually enriched with noble values and rational thinking. The college's objectives are regularly reviewed to adapt to evolving trends. Management is dedicated to cultivating an environment where the passion for learning flourishes,



**Adv. D.S.K. RAJA RATHINAM
CORRESPONDENT , HEC**

nurturing students not only academically but also as individuals of conviction and integrity. We strive to promote a healthy and ethically sound lifestyle, empowering individuals to reject values that undermine human dignity, eradicate manifestations of selfishness, and embody noble virtues to illuminate the world.

Courses Offered

UG Courses

- **B.Tech. - Artificial Intelligence and Data Science**
- **B.Tech. - Information Technology**
- **B.E. - Biomedical Engineering**
- **B.E. - Computer Science and Engineering**
- **B.E. - Electrical and Electronics Engineering**
- **B.E. - Electronics and Communication Engineering**
- **B.E. - Mechanical Engineering**

PG Courses

- **M.E. - Computer Science and Engineering**

Message from The Managing Director

Founder and Managing Director

Dr. K. R. Prakash Rajkumar

A visionary academician, dynamic entrepreneur, and committed philanthropist dedicated to empowering rural communities through transformative education and strategic enterprise. His mission-driven leadership has bridged the gap between opportunity and accessibility, fostering growth in both academia and industry.



**DR. K. R. PRAKASH RAJKUMAR, M.B.A, PH.D.
FOUNDER & MANAGING DIRECTOR**

Holy Cross Engineering College – Elevating Rural Education

Founded in 2009 under the D.G. Rajamani Educational and Charitable Trust, Holy Cross Engineering College stands as a beacon of knowledge for rural students, offering cutting-edge technical education to those from underprivileged backgrounds. Inaugurated by Mr. Ramasamy, Deputy Director of Anna University, the institution remains steadfast in its pursuit of academic excellence, skill enhancement, and industry integration.

With robust financial backing from trustees in the U.S. and New Zealand, the college champions inclusive learning through scholarships, career-oriented training, and innovation-driven pedagogy. By fostering a progressive and research-focused environment, it equips students with the expertise to thrive in competitive global markets.

Rafzen Logistics – Redefining Industry Standards

Beyond academia, Dr. Rajkumar helms Rafzen Logistics, a premier shipping and logistics firm based in Thoothukudi, recognized for its efficiency, reliability, and operational excellence in global trade and supply chain management. His strategic foresight and business acumen have positioned the company as a trusted industry leader, facilitating seamless logistics solutions.

A people-centric leader, Dr. Rajkumar fosters a collaborative, empowering work culture that values transparency, growth, and innovation. Admired for his approachable demeanor and mentorship, he champions professional development and employee well-being, ensuring a workplace where individuals flourish.

A Legacy of Impact and Innovation

With a deep commitment to empowering communities through education and enterprise, Dr. K. R. Prakash Rajkumar continues to drive positive change across multiple sectors. His relentless efforts to make quality education accessible to rural students have positioned Holy Cross Engineering College as a transformative institution that uplifts society.

Through his leadership in education and business, and his employee-friendly approach, he remains a beacon of inspiration for future generations, ensuring growth, innovation, and social progress in all his endeavors.

Message from The Managing Director

Academic Profile and Achievements of Dr. M. Varatha Vijayan

Academic Profile

Dr.M. VARATHA VIJAYAN having 26 years of experience in Teaching, Handled various Mechanical Engineering subjects and produced more than 95% Result in ANNA University exams and received Appreciation from various college Managements. He has worked in various positions in engineering colleges, including Principal, Dean Research, Professor, and HOD/Mechanical and successfully handled Anna University inspection commissions, job fairs, ISO auditing, association functions, national and international conferences, symposiums, and more.



DR. K. R. PRAKASH RAJKUMAR, M.B.A, PH.D.
FOUNDER & MANAGING DIRECTOR

Achievements

He is currently working as Principal at Holy Cross Engineering College, Tuticorin, Tamil Nadu, India. Over the past 10 years, he has served as Principal in various institutes, guiding more than 35 research projects for PG students and faculty members. He is an Author and Editorial Board Member for 13 national and international journals of innovative research in engineering applied sciences and technology. He has organized and published various national and international technical paper presentations, seminars, faculty development programs, and short-term programs sponsored by AICTE.

He has organized numerous motivational programs for both students and staff. He actively encourages students to engage in research projects and participate in various association activities through the Entrepreneurs and Development Cell. A renowned motivational speaker, he is also a startup mentor, skill training officer for MSME and MRWE, and an NBA & NAAC certificate advisor. His dedication to institutional development and achieving the vision and mission of the institution is fueled by his extensive technical knowledge and commitment to academic excellence. In recognition of his outstanding contributions, he received the Best Principal Award 2023 from TwinTech Academy, Chennai.

NCC Navy Officer Experience

He served as an NCC Navy Officer for 16 years and earned the Commissioned Glass 1 Gazetted Officer Rank from the Indian Navy at the Seaman Ship Training School in Cochin, Kerala. During his tenure, he conducted various NCC camps and facilitated the planting of 7,800 trees at multiple locations.

He inspires NCC students to prepare for competitive exams in the Army, Navy, and Air Force, helping them achieve their dream of becoming defense officers across India.

DEPARTMENTS

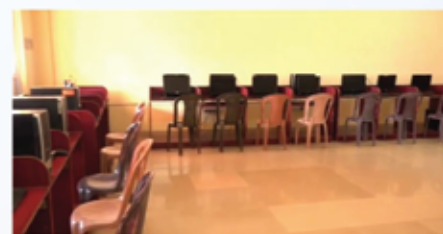
Holycross Engineering College is committed to providing quality education across various fields of study, supported by a team of highly qualified, experienced, and dedicated faculty members. Each department boasts state-of-the-art laboratories, ensuring students have access to the best resources for their learning and development.

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Artificial Intelligence and Data Science is an innovative program that merges the study of AI with the analytical power of data science started in the year 2024 with an intake of 30 . This course equips students with skills in machine learning, data analysis, and algorithm development.

Vision: *To empower young minds with the transformative potential of Artificial Intelligence and Data Science, to envision a future where it serves as a beacon of Quality Professional Education in Engineering and Technology.*

Mission: *To provide comprehensive education by enabling young minds to unlock their full potential and become proficient professionals to foster in a dynamic learning environment that encourages curiosity, critical thinking, to tackle real-world challenges of the society.*



INFORMATION TECHNOLOGY

Information Technology focuses on the study of computer systems, software development, and data management started in the year 2024 with an intake of 30. Graduates are prepared for careers in software engineering, IT consulting, cybersecurity, and efficiency in various industries.

Vision: *To empower students with cutting-edge knowledge in Information Technology through immersive learning skills to become Quality Professionals in Engineering and Technology*

Mission: *To render quality professional education through a learner-centric approach, and to empower students by instilling principles of professional ethics and social responsibility, to meet the challenges in the field of Engineering and Technology, fostering their growth into Quality Professionals*

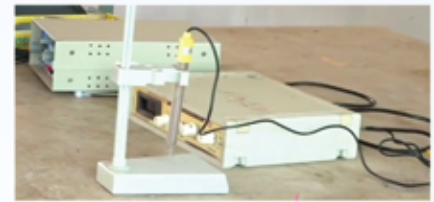
DEPARTMENTS

BIOMEDICAL ENGINEERING

BioMedical engineering started in the year 2021 with an intake of 60, is an interdisciplinary field that combines principles of engineering with biological and medical sciences to develop technologies and devices that improve healthcare. It encompasses areas such as medical imaging, BioMedical Instrumentation, Bioscience, and Diagnostic & Therapeutic Equipment. The field continually evolves, integrating advanced technologies like artificial intelligence and nanotechnology to revolutionize patient care and medical research.

Vision: *To prepare the young minds by serving the society through emerging trends in the field of BioMedical Engineering.*

Mission: *To impart quality technical education by adopting Learner-Centric approach to empower the students to meet the challenges in the field of BioMedical Engineering.*

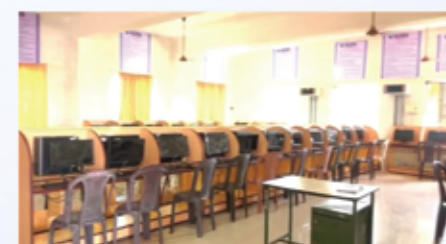
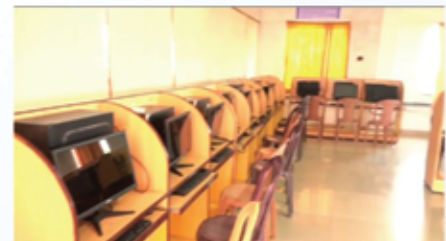


COMPUTER SCIENCE AND ENGINEERING

Computer Science and Engineering course was started in the year 2009 with an intake of 60. This degree equips graduates with the skills to design, develop, and optimize computer systems and applications, preparing them for diverse careers in software engineering, cybersecurity, artificial intelligence, and more. The program emphasizes problem-solving, innovation, and the application of technology to real-world challenges. Students also benefit from hands-on learning experiences through labs, internships, and industry projects that bridge the gap between theory and practice

Vision: *To become a centre of learning by focusing on the emerging trends in the fields of Computer Science and Engineering.*

Mission: *To impart quality technical education through an effective Learner -Centric approach with Modern Tool Usage, to meet the challenges in the field of Computer Science and Engineering.*



DEPARTMENTS

ELECTRICAL AND ELECTRONICS ENGINEERING

Electrical and Electronics Engineering started in the year 2009 with an intake of 60, focuses on the study of electrical systems, electronic circuits, and their applications. Students learn to design, analyze, and improve electrical equipment and electronic devices. This program prepares graduates for careers in power generation, electronics manufacturing, automation, and telecommunications, among other industries. The curriculum incorporates emerging technologies such as renewable energy systems and smart grids, ensuring graduates are well-equipped to tackle future challenges.

Vision: *To impart quality technical education in the field of Electrical and Electronics Engineering*

Mission: *To provide quality Technical education by integrating various Teaching, Learning Process through Learner - Centric approaches and enabling the students to meet the challenges in the field of Electrical and Electronics Engineering.*



ELECTRONICS AND COMMUNICATION ENGINEERING

Electronics and Communication Engineering course was started in the year 2009 with an intake of 60. in this course, Students gain expertise in areas such as circuit design, signal processing, telecommunications, and embedded systems. This degree prepares graduates to innovate and develop advanced electronic devices and communication systems, with applications in industries like telecommunications, consumer electronics, healthcare, and automation.

Vision: *To excel as a centre of Technical Excellence in the field of Electronics and Communication Engineering.*

Mission: *To nurture the young minds with quality technical education and skills by adopting Learner-Centric approaches in the field of Electronics and Communication Engineering*



DEPARTMENTS

MECHANICAL ENGINEERING

Mechanical Engineering started in 2009 with an intake of 60, provides students with a deep understanding of mechanical systems and their applications. The curriculum covers areas such as thermodynamics, fluid mechanics, materials science, and machine design. Graduates are equipped to pursue careers in industries like automotive, aerospace, manufacturing, and energy, where they can design, analyze, and improve mechanical devices and systems.

Vision: *To excel as a centre of Technical Excellence in the field of Mechanical Engineering.*

Mission: *To provide quality technical education by integrating-Learner - Centric approach to empower, the students to meet the challenges in the field of Mechanical Engineering.*



SCIENCE & HUMANITIES

The Science and Humanities department provides foundational knowledge in subjects like mathematics, physics, chemistry, and communication skills. It supports the technical curriculum by enhancing critical thinking, problem-solving, and ethical reasoning abilities. This department ensures students develop a well-rounded education, essential for their professional and personal growth in the engineering field.



M.E. - Computer Science and Engineering

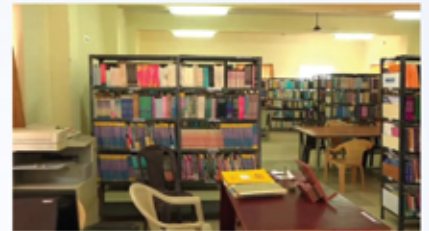
Master of Engineering in Computer Science and Engineering, introduced in the year 2011 with an intake of 18, delves deeper into advanced computing concepts, algorithms, and system design. This program equips students with specialized knowledge and research skills, preparing them for leadership roles in academia, industry, and innovative technology sectors.



FACILITIES

LIBRARY

The institution boasts a well-stocked library with over 20,000 books covering subjects related to the courses offered, along with literary volumes and ready reference encyclopedias. It subscribes to both national and international journals, as well as important newspapers and magazines. Additionally, the library has an e-journal facility through the DELNET center, providing online access to various journals and periodicals.



HOSTEL

The institution provides separate hostels for boys and girls, offering comfortable and hygienic surroundings. All necessary facilities are available within the campus. Both hostels feature spacious play areas and an entertainment hall equipped with television.



CAFETERIA

The college cafeteria, offers a variety of high-quality South Indian food and snacks at subsidized rates. It provides a family atmosphere with homemade-style delicacies, ensuring perfect preparation and courteous service. Refreshments are available at affordable prices, and there is ample seating to accommodate students and staff, even during peak times.



TRANSPORT

The college offers a reliable transport service with a fleet of buses covering various routes, ensuring convenient and safe travel for students and staff. The buses are well-maintained and operated by experienced drivers, providing comfortable transportation to and from the campus. This service supports punctuality and ease of access to the college from different parts of the city.



CO-CURRICULAR ACTIVITIES

Workshops

Workshops are crucial for engineering students, and Holycross Engineering College frequently conducts technical workshops for all departments to bridge the gap between students and the latest technologies. Experts are invited to teach cutting-edge technology and facilitate discussions. These workshops help students stay up-to-date with industry developments.



Industrial Visit

Holycross Engineering College takes its students to various companies from first year onwards. As industrial visits are part of the curriculum in engineering, our students of all branches are made to visit the respective domain company and get a knowledge of how the work is done in the industry actually. Indeed it is a different experience from the college curriculum. Training Program is also arranged from these companies to the students.



Guest Lecture

Holycross Engineering College arranges guest lectures in all main subjects to enhance learning with real-time experiences from experts. These lectures provide added credibility and diverse perspectives, helping students gain new insights. The college believes this approach enriches the educational experience.



Symposiums

Holycross Engineering College encourages annual department-wise symposiums, recognizing their importance for sharing and discussing new technologies. These events help students develop skills in presenting ideas, handling queries, and public speaking. Organized entirely by students, symposiums also foster teamwork, team management, networking, and self-motivation.



EXTRA CURRICULAR ACTIVITIES

Sports

The Physical Education department at Holycross Engineering College oversees sports and games on campus, ensuring students stay active and disciplined. They are responsible for maintaining order and grooming student behavior. Additionally, the department manages the college's rules and regulations.



Club Activities

Students are encouraged to become members of numerous clubs for overall personality development. Events and contests are set up to help students discover their latent talents.

- Literary & Debating Club
- Math Club
- Social Media Club
- Kalams Club
- Music Club
- App Development Cell
- NSS, YRC, RRC



Alumini Association

The alumni association of the institute actively maintains and updates the status of its members, fostering continuous engagement. It facilitates interaction between alumni and current students through various forums, including lectures and internships. This includes delivering talks and sharing experiences to benefit the students.



Anna University
Rank Holders

QUALITY ENHANCEMENT CELLS

IQAC- Internal Quality Assessment Cell:

The IQAC of HEC consistently initiates academic activities to enhance the quality of student education. These well-planned activities are supervised and executed periodically to ensure effective implementation. By organizing seminars, workshops, symposia, conferences, and other educational programs, the IQAC facilitates student participation and maintains teaching standards, while also assessing student development effectively.

Training and placement Cell

The placement cell's primary goal is to enhance students' creativity, leadership, teamwork, critical thinking, and ethical awareness, preparing them for the global workplace. It achieves this by inviting experts to train students in the latest industry developments and essential skills like arithmetic, logical deduction, and group discussion. Additionally, the cell focuses on grooming students for interviews and assisting them in securing their desired jobs.

Academic Resource Cell

The Academic Resource Cell monitors academic activities, evaluates extracurricular contributions, and provides recommendations for the Vision, Mission, and PEOs. It mentors the Program Assessment Committee and supports document auditing at both departmental and institutional levels.

IIC- Institution's Innovation Council:

The Innovation and Incubation Center (IIC) on our premises offers students a platform to enhance their entrepreneurship skills. Through periodic workshops, students develop their mindset and engage in mini challenges and idea competitions. Interactions with entrepreneurs, investors, and professionals foster students' interest in entrepreneurship-related activities, encouraging their active participation.

Entrepreneurship Development Cell

The EDC at HEC aids students in selecting viable ventures for investment, ensuring sound business principles and growth potential. It offers financial support and identifies market gaps, optimizing students' entrepreneurship and managerial skills. In partnership with the private sector, it provides risk capital and organizes social awareness programs, debates, and incubation programs to keep students updated on the latest opportunities in their fields.

CAMPUS LIFE



Graduation Day



15th Annual Day



Annual Day Celebrations



IQAC - FDP



Recruitment Drive



Employability Skills Training



International Yoga day



HEC Trophy: school level



Freshers Day



Blood Donation Camp



Christmas Carols



Pongal Celebrations



Faculty Development Program

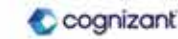


Womens Day Celebrations



Guest Lecture

Our Students Got Placed in



Be the light of the World

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Progressing Towards

1 NUMBER ONE

ADMISSIONS OPEN

Register now COURSES OFFERED

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- B.Tech.- Information Technology
- B.E.- BioMedical Engineering
- B.E.- Computer Science and Engineering
- B.E.- Electronics and Communication Engineering
- B.E.- Electrical and Electronics Engineering
- B.E.- Mechanical Engineering

PG Course :

M.E-Computer Science and Engineering

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holycrossengineeringcollege.com





Admission Helpline

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HolycrossHEC



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