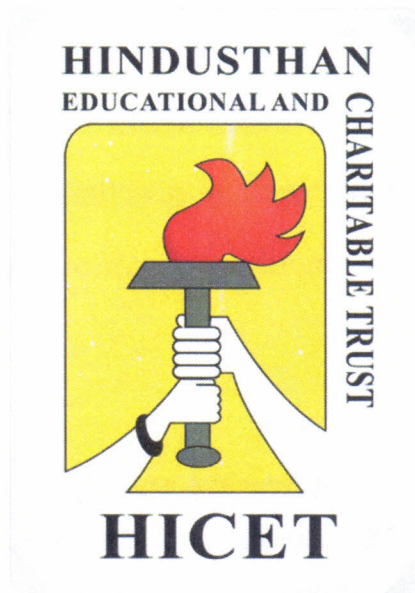


HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
Coimbatore 641 032, Tamilnadu, India

Phone : 0422 4242424, website : www.hicet.ac.in

Internal Quality Assurance Cell



Strategic Plan & Deployment (2020-2021)



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Valley Campus, Pollachi Highway, Coimbatore-641032

IQAC Vision

To promote quality culture and sustenance in academics and administrative process for holistic development of the institution.

IQAC Mission

1. To ensure innovative teaching learning practices.
2. To develop benchmark for monitoring various programs / activities leading to quality improvement.

Quality Policy

Hindusthan College of Engineering and Technology aims at providing the best education which will mould the students as the right characters, who will cater to the needs of the society. While providing the various inputs for the best education, Hindusthan College of Engineering and Technology will constantly thrive upon continual improvement with the utmost commitment for the complete satisfaction of the customer.





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Institution level

- ❖ Enriching the campus with ICT-enabled education to enhance learning experiences among students and provide the faculty with better teaching methods with new sets of skills.
- ❖ Enhancing networking facilities on the campus with high-speed Ethernet and WiFi Wireless LAN technologies to provide uninterrupted access to the network anytime and anywhere, thereby driving the administration of the institution towards quality and efficient service delivery.
- ❖ To set up a solar power system as an alternate energy source to meet the energy demands of up to 20% of the total power requirement of the campus.
- ❖ Transformation to Smart Campus by improving the college atmosphere through solar powered lighting, digitized path finding, smart cards in canteen, sports, library etc and automated parking.
- ❖ Starting up Government recognized IPR cell through funding to provide IPRs protection information, orientation and facilities to students and faculty, guide and advice researchers on how to obtain and sustain patents
- ❖ Establishing MHRD-recognized Institute Innovation Centre and Fab Lab with MIT on the college campus to involve faculty and students in innovation and research





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- ❖ Initializing Green Audit and becoming a zero-waste campus by adopting environmental practices and achieving an eco-friendly ambiance.

Academic Innovations

- ❖ Preparation and validation of the curriculum and syllabus with National and International Standards through clear, evidence-based rigorous content and application of knowledge through higher-order skills
- ❖ Introducing Industry Integrated courses specialized in Artificial Intelligence, Data Science, Business Analytics, Networking, Cloud Computing, Robotics, etc.,
- ❖ Reorientation of the academic curriculum and pedagogy with a strong focus on promoting innovation, entrepreneurship, and universal human values
- ❖ Implementation of Curriculum with the right mix of fundamental knowledge, meta knowledge, and humanistic knowledge components to strengthen the teaching-learning system with great importance on thinking and reasoning in scientific research domains.
- ❖ Instrumentalize a fruitful Outcome-Based Education (OBE) by following an efficient evaluation procedure for CO-PO mapping and attainment as a measure to predetermine what a graduate can do after his/her graduation





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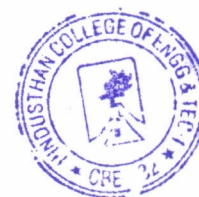
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- ❖ Strengthening IQAC for the betterment of institutions in National ranking such as NIRF, ARIIA, India Today, and other leading ranking agencies.
- ❖ Introduction and to inculcate ICT-enabled education and modern pedagogy using advanced tools like Google Classroom, Moodle, Kahoot, Hot Potato, etc, and create YouTube video channels / Blogs.
- ❖ To include Universal Human Values as a credit course in the 3rd and 4th years with 'Harmony with Nature' as one of the course modules as per the guidelines of AICTE.
- ❖ To conduct a 3-week Induction Programme on Universal Human Values for first-year students as mandatory following the guidelines of AICTE
- ❖ To introduce UGC's 'Jeevan Kaushal' - a Life Skills course to students at the UG level in order to develop interpersonal skills, good leadership behavior, and manage competency and stress at all levels, for achieving excellence with ethics
- ❖ Encouraging the students and faculty to undergo free Microsoft course modules via the ELIS of AICTE's e-learning portal, SWAYAM, COURSERA, edX, NPTEL, and NITTTR on a wide range of newer technologies, including AI, IoT, and cloud computing
- ❖ Inculcating a culture of product innovation and a mindset of problem-solving among students through Smart India Hackathon/ Hindusthan Hackathon and develop skills and opportunities to work on challenges.





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- ❖ Engaging the student and faculty in technologies especially IOT, robotics, cloud and automation to re-model our campus in to a smart campus by optimizing the usage of energy and water consumption in the campus.
- ❖ Strengthening the existing student mentoring system through collective and concentrated efforts on academic excellence, employability, and higher education.
- ❖ Initiating capacity and capability development programs for students to promote a culture of curiosity-driven innovation in their respective domains
- ❖ Strengthening the support system for student innovations and start-ups in the pre-incubation phase and creating a pipeline of the market for their product
- ❖ Encouraging the students to undergo mandatory summer internships with the industry as per the guidelines of AICTE, so that they become suitably employable
- ❖ Improving Communication skills and English language literacy among students and faculty through Business English Certification (BEC) Course from Cambridge/ The Hindu's 'STEP' - Learn English online Programme
- ❖ To improve learning opportunities for slow learners by providing peer group discussions, mentorship, special coaching class, etc.
- ❖ Following Bloom's Taxonomy in Question paper setting specifying learning outcomes in both Internal and External Examinations to assess the learning ability of students on a variety of cognitive levels





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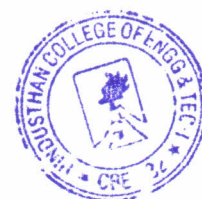


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- ❖ Educating the faculty and students on the resources available in NDL/e-ShodhSindhu/E-Pathshala/Shodh Ganga and ensuring their effective utilization.
- ❖ Improvement in care for students following an effective Mentor system with an objective to help students balance their professional goals with their personal lives or give emotional encouragement during challenging times.
- ❖ To identify professionally experienced Visiting Professors/Adjunct faculty from reputed institutions/organizations as per AICTE guidelines and involve them in the teaching-learning process
- ❖ Implementation and following a strong student feedback system to assess the teachers as followed in the IITs and NITs to improve the educational quality system in the institution

Academic/Research/Industrial linkage

- ❖ Establishing at least one Centre of Excellence in all the Departments in cutting-edge technologies
- ❖ To involve subject expertise from industry and leading national/international, academic/research institutions in curriculum development
- ❖ To establish an innovation Centre on the campus with the support of MHRD and other govt. agencies





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- ❖ Strengthening the Entrepreneurship Development Cell (EDC) and encouraging students to have a high entrepreneurial potential by providing necessary training and support
- ❖ To set up a Centre for Environment and Development (CED) to carry out activities related to environmental sustainability and to serve as an institution of higher learning
- ❖ Providing seed money to the faculty and scholars involved in research and development
- ❖ To increase the number of MoUs with leading industries for students' development activities like skill development, internship, and training programs
- ❖ Publishing in-house journal with ISSN numbers in major engineering disciplines
- ❖ Increasing the number of faculty publications in referred journals like IEEE, Elsevier, Springer, Inderscience, etc and also encourage them in book publications
- ❖ Insisting the undergraduate and postgraduate students publish their research work in Scopus/ Web of Science indexed Journals.
- ❖ Organizing collaborative International Conferences, Twinning programs, and Faculty Exchange Programme with Foreign Universities (Malaysia, Singapore, USA, and UK).





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- ❖ Enhancing the Academic partnership with leading Industries like IBM, TCS, Google, COMPTIA, Texas Instruments, Institute of Analytics for making the students industry-ready professionals.
- ❖ Providing consultancy to the Industry and Public Organizations and generating funds for the development of the institution.

Placement/ Entrepreneurship

- ❖ To ensure the smooth functioning of the training and placement activities on campus.
- ❖ Facilitating enough training activities for students and making sure they get placed in the best of both national and international companies.
- ❖ To attain 100% placement for all eligible students through campus and off-campus interviews conducted by the top companies
- ❖ To aim for at least 5% of students get qualified in competitive exams such as GATE, CAT, TANCET, TOEFL, GRE, IES, UPSC, TNPSC, etc. through proper motivation and guidance
- ❖ Extending the soft skill training on basic professional etiquette such as writing an email, engaging in corporate telephonic conversations, preparing for an interview, writing technical reports/projects, etc.





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- ❖ To empower students with necessary technical and professional skills through skill set certification courses and help them to stand out in the competitive hiring scenario
- ❖ Organizing campus interviews for final year students with industries and business houses of repute from all over India and abroad.
- ❖ Preparation of students to face campus interviews by arranging training in Aptitude tests, group discussions, and preparing for Technical and HR interviews through professional trainers and HICET alumni.
- ❖ Providing career counselling by organizing guidance lectures by senior corporate personnel and most importantly by the immediately placed senior students.
- ❖ Create exposure to current technological developments relevant to the subject area of training and create conditions conducive to the quest for knowledge and its applicability on the job in core companies.
- ❖ To prepare students to understand social, economic, and administrative considerations that influence the working environment of industrial organizations and teach on engineer's responsibilities and ethics
- ❖ Give motivation to at least 5% of students to become Entrepreneurs after their graduation by providing enough opportunities to improve the skills and knowledge of entrepreneurs through various training and classroom programs.

Extension activities





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- ❖ Imparting Schemes by MHRD on green and healthy environment in institutions such as "one student one tree" plantation drive in consultation with the nearest forest department.
- ❖ To implement funding schemes for environmental initiatives like Unnat Bharat Abhiyan, Jal Shakti Abhiyan etc.

Gender Equity

- ❖ Establishing Gender Equality Initiatives through Internal Compliance Committee on the campus and motivating girl students





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Strategic Plan Deployment (2020-21)

Strategic Plan put forth by IQAC is approved by the Governing body, discussed in CDC for an effective Implementation and Monitoring.

Institutional level

- Established AICTE- IDEA lab with financial support of Rs. 1 crore.
- Organized training sessions for teachers in the usage of ICT tools through Hindusthan Teaching Learning Centre.
- Participative management is realized through assigning roles for students in clubs and committees.
- Recognized with 4-star rating by MoE's Institution Innovation Council.

Industry Partnered Centres

- FORD India
- AICTE Skill and Personality Development Centre
- AICTE SPICES
- Participated in ARIIA ranking.
- Secured 8th position in National Level





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|---|---|
| | <p>SAUR URJA Vehicle Challenge (SUVC 2021).</p> <ul style="list-style-type: none">• Participated virtually in EFFICYCLE 2020.• Mr. Rathnavel student of Mechanical Engineering has won the title "Chess Master of Coimbatore". |
| Academic Innovations | <ul style="list-style-type: none">• Institution has received license form Coursera and completed 1800+ courses.• UG Departments of B Tech (Artificial Intelligence and Machine Learning) established.• Participated in the MoE's NIRF.• Skill enhancement training provided to SC/ST students through AICTE PRERANA scheme.• Entrepreneurial attitude promoted among the student community through activities organised with funding from DST-NIMA. |
| Academic/Research/Industrial linkage | <ul style="list-style-type: none">• Hosted Toycathon 2021 Event.• Hosted Smart India Hackathon-SIH |





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|------------------------------------|--|
| | <p>2020 (Software Edition).</p> <ul style="list-style-type: none">• Dr. M. Mohanraj, Professor, Department of Mechanical Engineering has been awarded as Top 2% of Scientists by Stanford University, USA.• Seed money provided to faculty members to promote research.• MoU signed with<ul style="list-style-type: none">➤ Sunway College, Malaysia➤ New Gen Infotech, Singapore.➤ ICT Academy, Chennai.➤ Planet X Aerospace, Madurai. |
| Placement/ Entrepreneurship | <ul style="list-style-type: none">• Online assessment carried out for students to test their readiness level for placements through Examly Platform. |
| Extension activities | <ul style="list-style-type: none">• NCC Air Wing Officer Dr. Jainulabdeen enlisted in Pre Commission Course at NCC Officer's Training Academy.• Dr. V. Ravikumar, NCC Coordinator, attended NCC PRCN course through |





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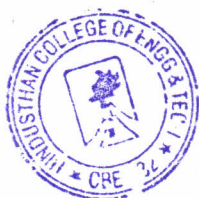
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| | <p>Director General NCC, Ministry of Defence, Government of India.</p> <ul style="list-style-type: none">• Cycle rally organized jointly with "Fit India Movement" jointly organized by Ministry of Education and Ministry of Youth Affairs and Sports, Government of India.• Conducted Free Vaccination Camp through NSS to our faculty and students.• Conducted awareness camp on "Wearing mask, hand washing and it's importance to nearby public" |
| Gender Equity | Organized International Women's Day Celebrations in the Campus. |



PRINCIPAL
Hindusthan College of Engineering & Technology
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