Tribhuvan University

Institute of Engineering

Chitwan Engineering Campus

Rampur, Chitwan

Vision, Mission, Goals and Objectives

Table of Contents

Table of Figures

1. Introduction

Chitwan Engineering Campus (CEC) is the fifth constituent engineering campus under the **Institute of Engineering (IOE), Tribhuvan University (TU)**, located outside the Kathmandu Valley. CEC was formally established on **10th March 2019 (2075/11/26 B.S.)** based on several key decisions taken by the Government of Nepal, the Tribhuvan University Executive Council, and the TU Senate.

The initiation of this campus is in accordance with the **High-Level Education Commission Report 2073**, endorsed by the Office of the Prime Minister and the Council of Ministers. The feasibility study conducted by the Dean's Office of IOE, followed by multiple site visits and assessments, concluded that Chitwan, with its strategic location in Bagmati Province and availability of land and resources, is an ideal location to expand TU's outreach in engineering education. Currently, CEC is operating a **Bachelor in Architecture (B.Arch)** program with an intake of 24 students.

CEC is situated at **Bharatpur Metropolitan City, Ward No. 15, Rampur**, and occupies a land area of **40 Bighas and 19 Kaththas**, making it the largest among IOE constituent campuses in terms of land holdings. The long-term vision includes expansion to six bachelor-level engineering programs with modern academic and physical infrastructure.

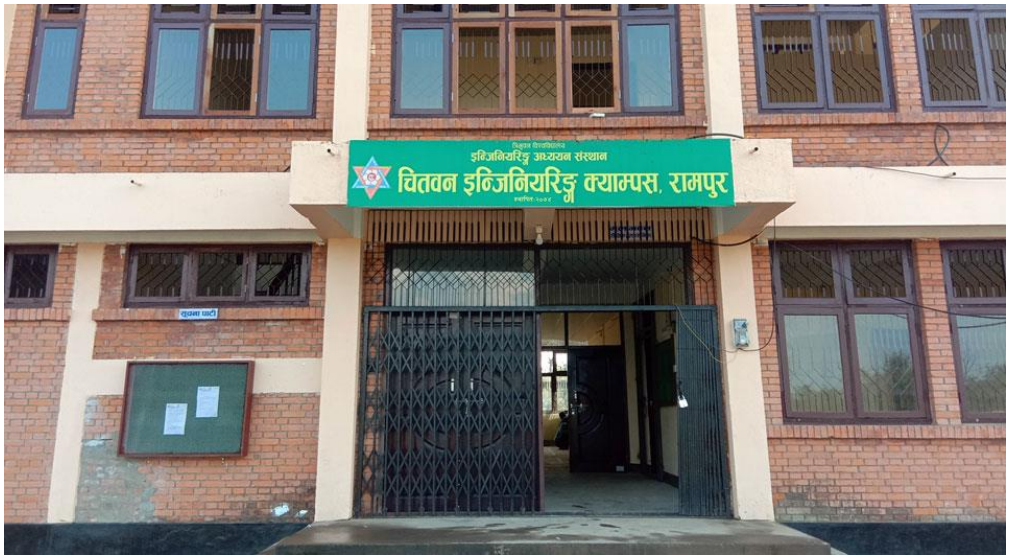

Figure 1 Existing Academic and administrative building of CEC

2. The Vision

The **vision (**Purpose) of the CEC strategic plan for a period of ten years (2020-2030) as;
“Sustainable Engineering Technical Campus: A center of excellence”.

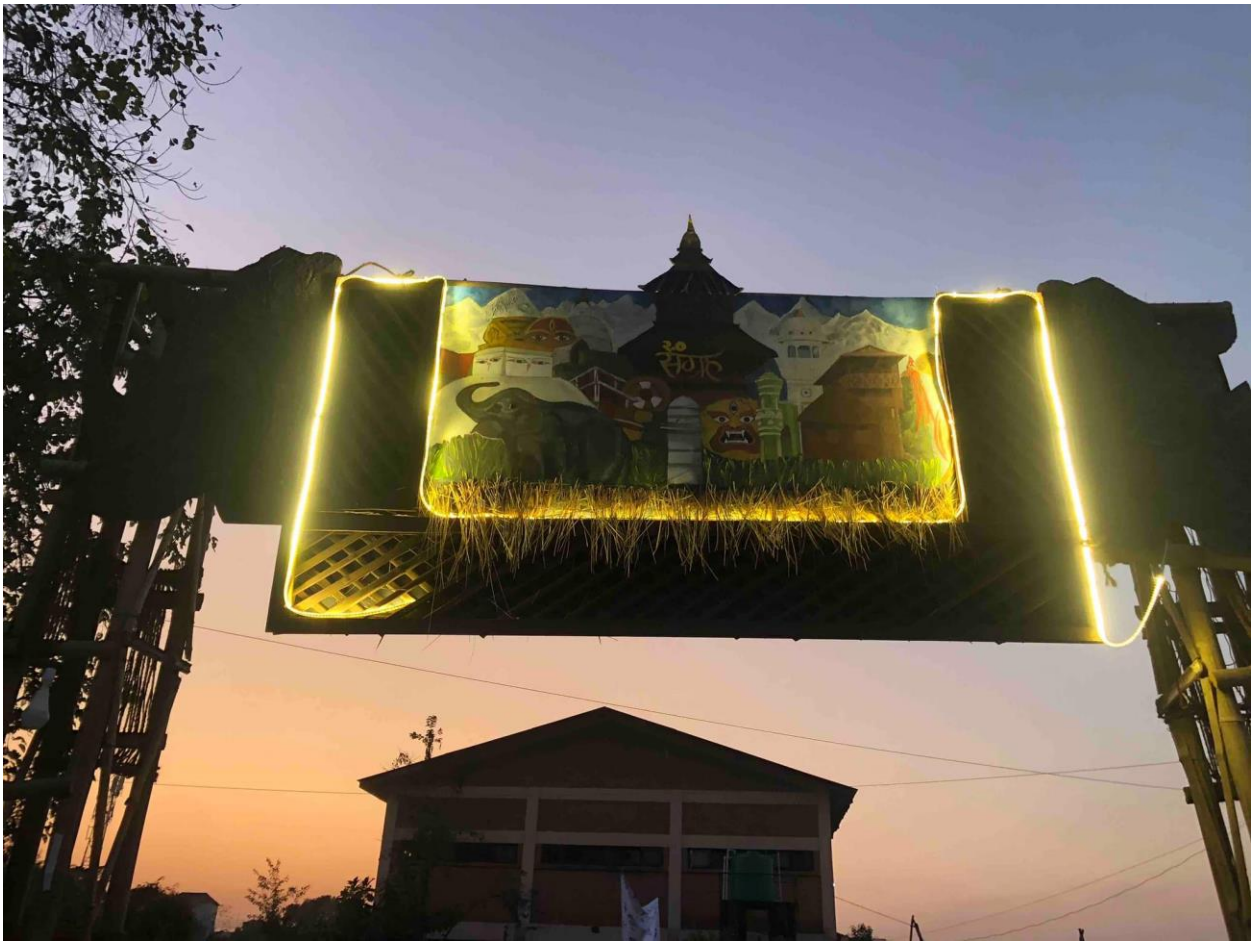

Figure 2 Entrance Gate of Sangraha 2.0 Architectural Exhibition 2024

3. The Mission

If such a vision is realized then CEC will be able to contribute to achieve a main Mission as: to provide quality engineering education and research in the engineering areas relevant primarily to nation". Additional missions are listed below:

- To offer internationally benchmarked and contextually relevant engineering and architecture programs that blend theory, practice, and innovation.
- To nurture creative, technically sound, and ethically driven professionals who contribute meaningfully to the socio-economic development of Nepal and beyond.
- To promote an academic environment that supports cutting-edge research, entrepreneurial spirit, and industry collaboration.
- To integrate sustainable practices and inclusive education as core values in all institutional initiatives.

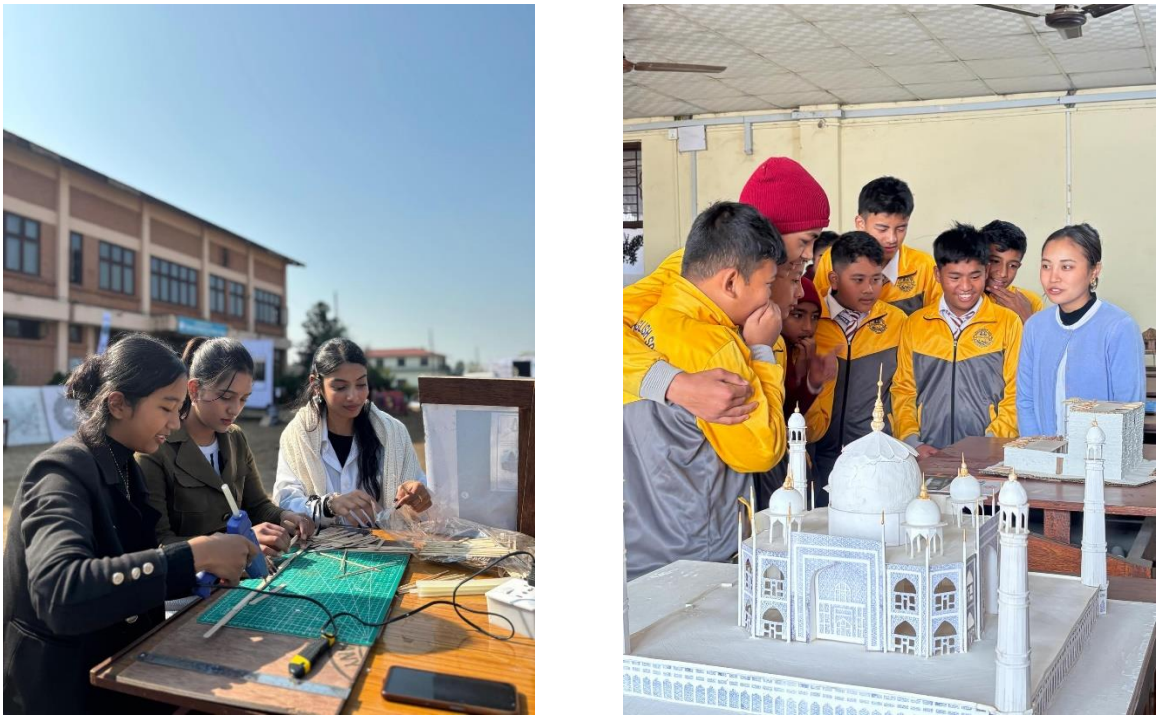

Figure 3 Students' innovation and project work display

4. Core Values

- Academic Excellence
- Professional Integrity
- Innovation and Creativity
- Social Responsibility
- Sustainability
- Inclusion and Equity
- Collaboration and Partnership

Figure 4 final presentation of Design Studio VI with students, faculty members, and jury member Assoc. Prof. Dr. Sanjay Uprety

5. Institutional Goals

5.1 **Academic Development**

- To expand academic offerings by introducing Civil and Computer Engineering programs by 2026 A.D., with an intake of 48 students in each department; to increase the Architecture program's intake from 24 to 48 students by 2026 A.D.; and to initiate additional programs in Electrical, Mechanical, and Electronics & Communication Engineering.
- To develop, implement, and continuously improve engineering curricula based on Outcome-Based Education (OBE) and aligned with the Nepal Engineering Council's Graduate Attributes.

5.2 **Infrastructure and Resource Development**

- To complete the under-construction academic building by 2025 A.D. and finalize the remaining works of the academic building by 2027 A.D.
- To develop other modern academic buildings, laboratories, studios, hostels, and ICT infrastructure that meet national and international standards.
- To ensure the availability of physical resources and facilities to support effective teaching, learning, and research.

5.3 **Faculty and Human Resource Development**

- To recruit, retain, and continuously upgrade the competence of academic and administrative staff through training, research support, and academic mobility.

5.4 **Research, Innovation and Entrepreneurship**

- To create a vibrant research culture by encouraging faculty and student-led research projects.
- To establish innovation and incubation centers to foster entrepreneurship and local technology-based solutions.

5.5 **Industry-Academia Linkages**

- To develop strong partnerships with industries, government bodies, and professional organizations for curriculum development, internships, joint research, and job placements.

5.6 **Quality Assurance and Accreditation**

- To implement an Internal Quality Assurance System (IQAS) and pursue national and international accreditation for all academic programs.
- To align institutional practices with the **Nepal Engineering Council's Accreditation Manual** and **Outcome-Based Education (OBE)** standards.

5.7 **Community Engagement and Sustainability**

- To promote community-based engineering solutions and outreach programs for rural and urban development.
- To integrate environmental sustainability in all planning, design, and construction of campus infrastructure.

Figure 5 under-construcion of acdemic building of CEC

Figure 6 render image of the proposed academic building of CEC

6. Institutional Objectives

6.1 Academic Objectives:

- To deliver undergraduate programs that meet the national competency framework and global standards.
- To achieve a 90% graduation rate with competent, employable, and innovative graduates.
- To prepare students for professional engineering licensing examinations.

6.2 Research Objectives:

- To publish at least 10 faculty or student research papers per year in national/international journals or conferences within the next five years.
- To secure research funding from national/international agencies and promote interdisciplinary research.

6.3 Infrastructure Objectives:

- To complete the first phase of master plan implementation including academic blocks, labs, and libraries within 5 years.
- To establish at least one accredited laboratory per engineering discipline.

6.4 Faculty Development Objectives:

- To ensure that at least 80% of full-time faculty members hold a Master's or Ph.D. degree within 5 years.
- To conduct a minimum of two professional development programs per year.

6.5 Quality Assurance Objectives:

- To develop a fully functional IQAS cell by the end of 2025.
- To undergo NEC accreditation for all programs initiated from 2019 onwards.

6.6 Social and Environmental Objectives:

- To implement solar energy, rainwater harvesting, and waste management systems in the campus by 2027.
- To conduct regular engineering awareness and disaster resilience training in local communities.