Pioneer Institution in quality engineering education since 2001 A.D.

B.E COMPUTER

Everest Engineering College

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Introduction

Everest Engineering College (EEC), founded in 2001 A.D, is a leading institution in the Nepal that provides engineering education in affiliation with Pokhara University. Our mission is to create state-of-the-art academic atmosphere for innovative engineering professionals along with strong emphasis on values, integrity, and research-oriented activities. Through our student-centered teaching pedagogy and supportive learning environments. We foster the growth of our students, enabling them to attain their career objectives and excel in higher education and professional domains.

Why **EEC** ?

- Highly conducive and peaceful learning atmosphere.
- Student-centered and project-based teaching methodology that ensures effective learning.
- We offer project fellowship funding for the selected projects under research and project management cells.
- With exposure in National & International arena through conferences, workshops, field visits and educational excursion.
- Offer a wide range of elective subjects to develop robust knowledge in the field of your interest.
- Emphasis on practical and project works that can lead to publication.
- Extensive library resources with more than 20,000 textbooks and reference books, with hundreds of research journals access.
- Dedicated and experienced faculty with varying interest in research.
- Industry-oriented approach and provide internship opportunities.
- Holistic personality development opportunities.

BE-Computer

Bachelor of Computer Engineering

The Bachelor of Computer Engineering (BE-Computer) is a four-year, eight-semester undergraduate program that prepares students for a diverse range of opportunities in both the private and public sectors at national and international levels. With the increasing integration of computer systems across various industries, this degree offers promising career prospects. Graduates of this program can expect to be highly sought after, enjoying competitive salaries, opportunities for innovation, and the ability to make a significant impact in their field.

Program Overview

Computer engineering graduates possess a unique blend of skills in hardware and software development, systems design, and project management, making them versatile and valuable in multiple roles. Throughout their studies, students will explore key areas such as computer architecture, Artificial Intelligence, Data Science, Network design, and cybersecurity. This comprehensive curriculum equips graduates to tackle complex engineering challenges and adapt to emerging technologies in today's fast-paced digital landscape.

Course Structure of
Bachelor of Computer Engineering

The recently updated curriculum in Computer Engineering offers a wide range of elective courses in 3rd and 4th year, leading to diverse career fields including hardware design and computing within the IT industry.

Semester I

- Calculus I
- Digital Logic
- Programming in C
- Basic Electrical Engineering
- Computer Workshop
- Communication Technique
- Electronics Devices and Circuits

Semester II

- Algebra and Geometry
- Applied Physics
- Applied Chemistry
- Basic Engineering Drawing
- Object Oriented Programming in C++
- Data Structure and Algorithm
- Instrumentation

Semester III

- Calculus II
- Database Management System
- Operating Systems
- Microprocessor and Assembly Language Programming
- Computer Graphics
- Data Communication

Semester IV

- Applied Mathematics
- Numerical Methods
- Advanced Programming with Java
- Theory of Computation
- Computer Architecture
- Research Fundamentals
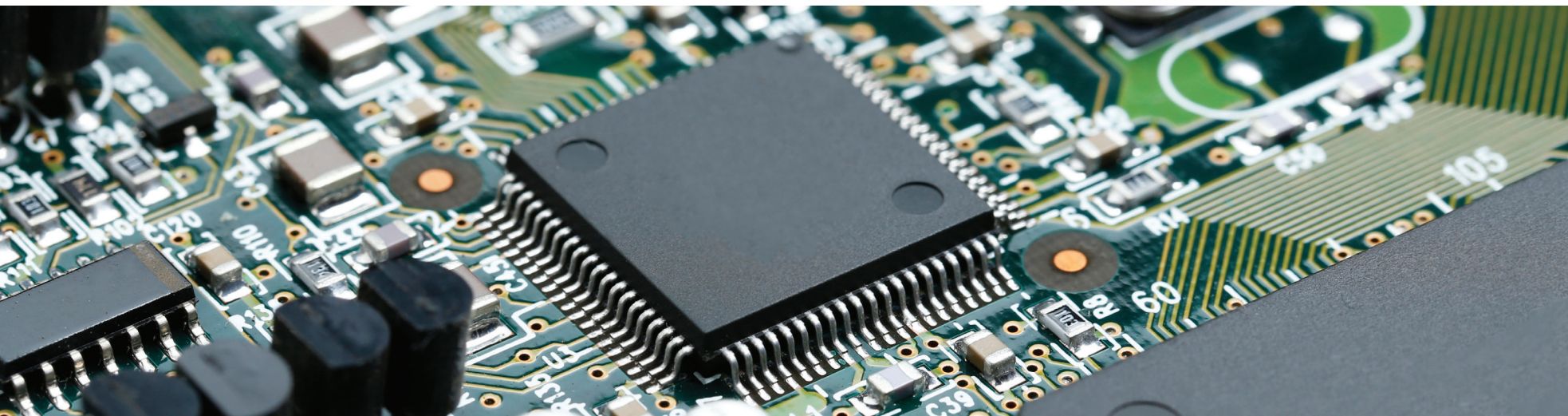
Semester V

- Probability and Statistics
- Embedded System
- Engineering Management
- Artificial Intelligence
- Digital Signal Analysis and Processing
- Software Engineering

Semester VI

- Image Processing and Pattern Recognition
- Machine Learning
- Compiler Design
- Computer Networks
- Simulation and Modeling
- Elective I
- Project I

Semester VII

- Entrepreneurship and Professional Practice
- Engineering Economics
- Network and Cyber Security
- Cloud Computing and Virtualization
- Data Science and Analytics
- Elective II

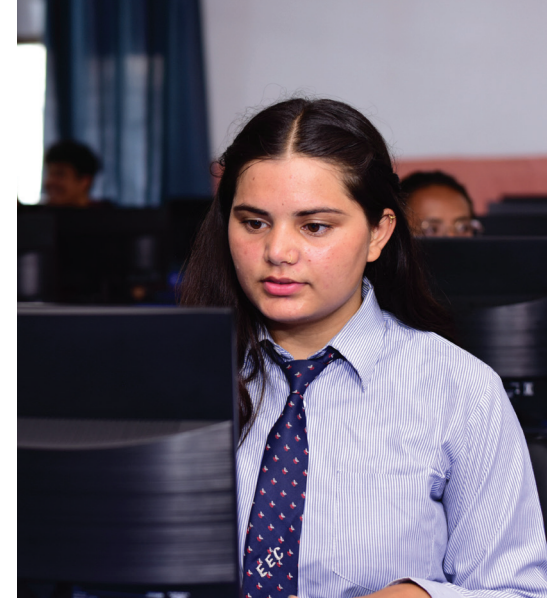### Semester VIII

- Elective III
- Internship
- Project II

Industries and Opportunities

Computer engineers can find rewarding opportunities in diverse sectors, including:

- **Information Technology Companies:** Engaging in hardware and software development, maintenance, and innovation.
- **Telecommunications:** Designing and developing communication networks and systems.
- **Finance and Banking:** Creating secure and efficient technology solutions for financial services.
- **Healthcare:** Developing advanced medical devices and healthcare systems.
- **E-commerce:** Building and optimizing platforms for online commerce.
- **Government and Education:** Contributing to public sector technology projects and academic research initiatives.
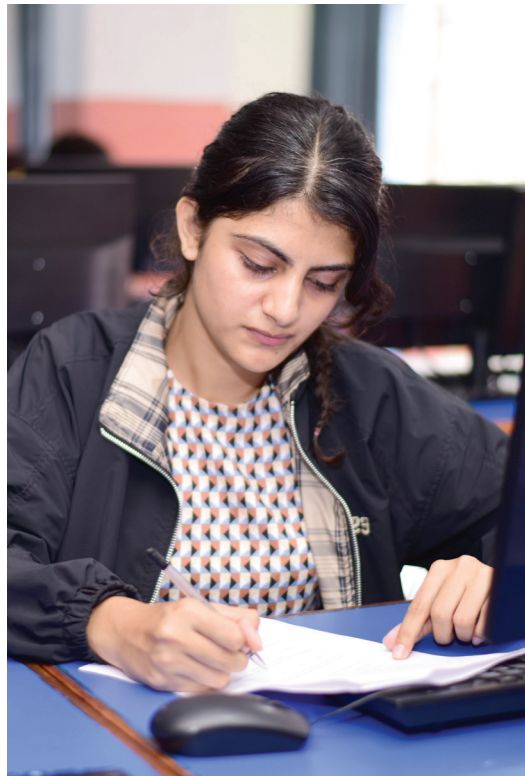

Skills Development

Students in the Computer Engineering program will develop a robust skill set that includes:

- Proficiency in programming languages (e.g., Java, Python, C++).
- Deep understanding of computer architecture and hardware design.
- Knowledge of embedded systems and real-time computing.
- Expertise in network design and management.
- Awareness of cybersecurity principles and practices.
- Strong analytical and problem-solving abilities.

Career Prospects

The rapid expansion of the technology sector has created a high demand for computer engineering graduates across various industries. Graduates can pursue diverse career paths, leveraging their expertise in both hardware and software engineering.

Potential career roles include:

- **Computer Hardware Engineer:** Designing and developing computer hardware components and systems.
- **Software Developer:** Creating applications and software solutions for various platforms.
- **Network Engineer:** Designing, implementing, and managing computer networks.
- **Embedded Systems Engineer:** Developing specialized computing systems within larger mechanical or electrical systems.
- **Cybersecurity Analyst:** Protecting systems and networks from cyber threats.
- **Systems Analyst:** Evaluating and improving IT systems to meet business requirements.
- **IT Project Manager:** Leading technology projects from planning to execution.
- **Data Scientist:** Analyzing complex data sets to extract insights and drive decision-making.

Admission Eligibility

Applicants seeking admission in different engineering programs are required to pass high school(12th grade in Science Stream) with at least 45% marks in Diploma, A-level or equivalent degrees recognized by Pokhara University with minimum "C" grade in Physics, Chemistry and Mathematics (Aggregate of theory and practical) in Physical or Biological group.

Admission Process:

- Candidates meeting eligibility criteria can apply for admission physically or online.

- All applicants are required to attend the entrance examination conducted at college based on the standard set by Pokhara University and UGC Nepal.

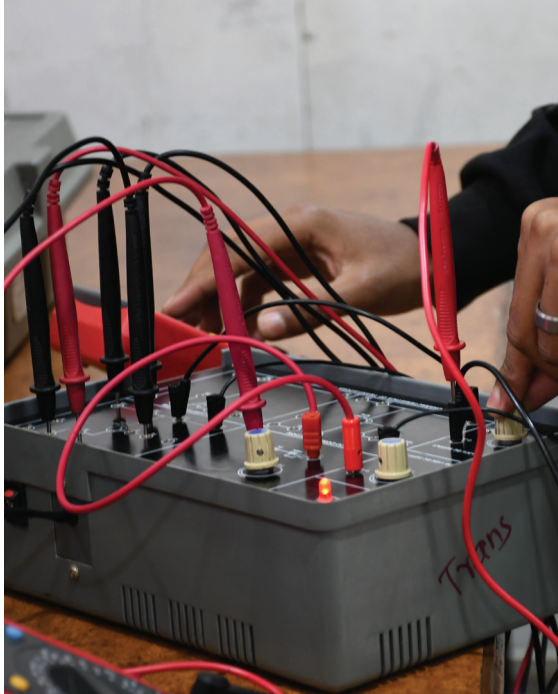- Successful candidates are eligible for admission in the programs at college.

Our Programs

B.E

CIVIL
COMPUTER
IT- INFORMATION TECHNOLOGY
SOFTWARE

Scholarship

- NEPAL GOVERNMENT SCHOLARSHIP: EEC Provides full scholarship to 10% students under the rules of Pokhara University. Scholarship awardee will get full waiver on admission, tuition & Semester fees.

- EEC-LMC SCHOLARSHIP: This scholarship is provided to the residents of Lalitpur Metropolitan City(LMC) in collaboration with the education department of LMC. The scholarship is awarded on a competitive basis based on entrance examinations conducted by the college.

- OUTSTANDING SCHOLARSHIP: EEC provides a full semester fee scholarship for the University topper (SGPA 4.0) for the next one semester. This Scholarship is awarded to all students securing SGPA 4.0 in all programs.

- CLASS TOPPER SCHOLARSHIP: EEC provides 100% tuition fee scholarship for the program topper for next one semester.

- ADMISSION SCHOLARSHIP: The scholarships is awarded to the meritorious students based on their Secondary Level 12th grade GPA or equivalent and entrance exam conducted by EEC followed by an interview.

Laboratories

We have state-of-the-art laboratories equipped with internet facilities to facilitate student regular lab work. We faciliate students and faculty members to utilize the labs for their learning needs. Our high capacity computer lab can accommodate over 50 students simultaneously, utilizing client-server technology for enhanced performance and server-based data storage. With our virtual desktop units and thin clients, we offer a seamless and enjoyable computer experience for all.

Aarohan

National level project showcase and competition

Aarohan is a premier national level inter college project display and competition. It provides a vibrant platform for creative engineers to demonstrate their skills and unique concepts. The event includes a variety of activities such as software and hardware competitions, technical quizzes, hackathons, rapid coding challenges, civil model displays and e-gaming tournaments. Aarohan encourages creativity, collaboration, and innovation by giving participants the opportunity to showcase their abilities and compete at a high level.

Sports

EC organizes different sport activities to foster team work, enhance physical and mental wellbeing, and learn valuable lessons from winning and losing. The college provides facilities for basketball, table tennis, volleyball, and organizes off-campus football and cricket matches.

Library

- Everest Engineering College Library offers an abundance of textbooks, reference books, physical and online journals providing students with ample resources for their academic needs.
- Each student receives a full set of text books for the current semester, with additional references for borrowing, allowing for both home study and library use.
- The library provides a serene learning environment and offers a digital resources center with computers, internet, and journals, catering to both individual and group study sessions.
- The library opens between 7 A.M to 5 P.M on office days.

Recent
ACITIVITIES

- Aarohan 2.0 - A national level technical showcase Competition
- Photography and Videography Workshop: Conducted by Mr. Prashant Adhikari & Mr. Deepak Raj Bhatta
- Talk Series on Energy and Tunnel Catalysts for Nepal's Growth: Speaker: Er. Shri Ram Neupane (Project Director, Nagdhunga Tunnel Construction Project)
- Interaction between Industry & Academia: Conducted by Intuji (Australia-based IT company)
- MoU Signing between Skill Lab and Everest Engineering College
- Talk Series on Current Issues in Supervision and Quality Control in Road Works: Speaker: Er. Baburam Paudyal (Program and Quality Control Management Expert)
- Panel Discussion on Building an AI Ecosystem in Nepal
- Talk Series on Prospects of Civil Engineers in Consulting Industry/Business: Speaker: Er. Thakur Prasad Sharma (President, SCAEF, Nepal)
- Workshop on Spotlight on Effective Teaching Learning Strategies
- Orientation Program by F1Soft for Internship and Job Placement
- Talk on HCI Horizons: Speaker: Ankur Sharma (HCI Practitioner)
- Student Partnership Program: Organized by Hamrobazzar
- AIT SET Open House Session: Speaker: Professor Dr. Sangam Shrestha
- MoU Signing Ceremony with IMAC Engineering Co. Ltd, Japan

How to contact EEC?

Address: Lalitpur-02, Sanepa, 500m from ring road.

Phone numbers: 01-5420742, 9847339026, 9847339027, 9847339028.

Email: admin@eemc.edu.np

Feel free to reach out to EEC through any of the provided phone numbers or via email for any inquiries or further assistance.