www.eemc.edu.np

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

# B.E IT- INFORMATION TECHNOLOGY

## 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 theircareer 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-IT

## Bachelor of Engineering in Information Technology

The Bachelor of Information Technology Engineering (BE-IT) is a four-year, eight-semester undergraduate program designed to equip students with the knowledge and skills needed to excel in the rapidly evolving IT industry. With the increasing dependence on information technology across various sectors, this degree offers a wealth of career opportunities and the potential for high-impact contributions. Graduates of this program are well-prepared to meet the demands of the modern digital economy, enjoying competitive salaries and diverse career paths.

## Program Overview

Information Technology Engineering graduates possess a blend of skills in software development, network management, data analysis, and IT project management. Throughout their studies, students will explore critical areas such as information systems design, database management, cybersecurity, and cloud computing. This comprehensive curriculum ensures that graduates are equipped to address complex IT challenges and adapt to the latest technological advancements in today's fast-paced digital landscape.

*Course Structure of*

# Bachelor of IT Engineering

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

## Semester I

- Calculus I
- Electronics Device and Circuits
- Programming in C
- Basic Electrical Engineering
- Applied Physics
- Problem Solving Techniques

## Semester II

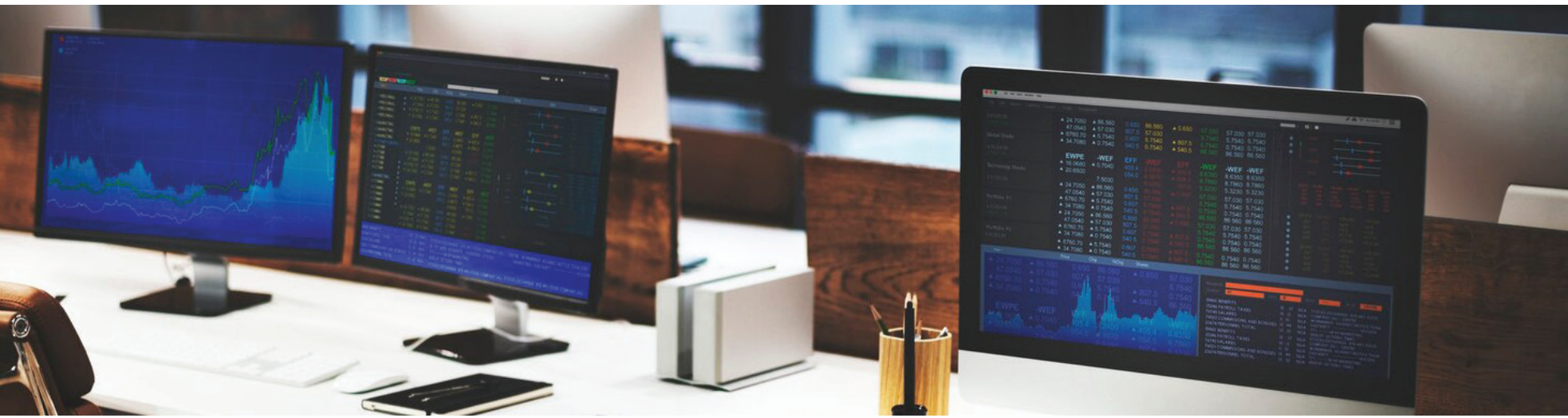
- Algebra and Geometry
- Object Oriented Programming in C++
- Basic Engineering Drawing
- Discrete Structure
- Digital Logic
- Communication Technique
- Computer Workshop

## Semester III

- Calculus II
- Data Structure and Algorithm
- Software Engineering Fundamentals
- Probability and Statistics
- Instrumentation
- Advanced Programming with JAVA

## Semester IV

- Applied Mathematics
- Microprocessor and Computer Architecture
- System Administration and IT Infrastructure Services
- Web Technology
- Database Management System
- Applied Operating System



## Semester V

- Computer Graphics
- Numerical Methods
- Research Fundamentals
- IT Architecture
- Multimedia Systems
- Signal, System and Processing
- Entrepreneurship and Professional Practice

## Semester VI

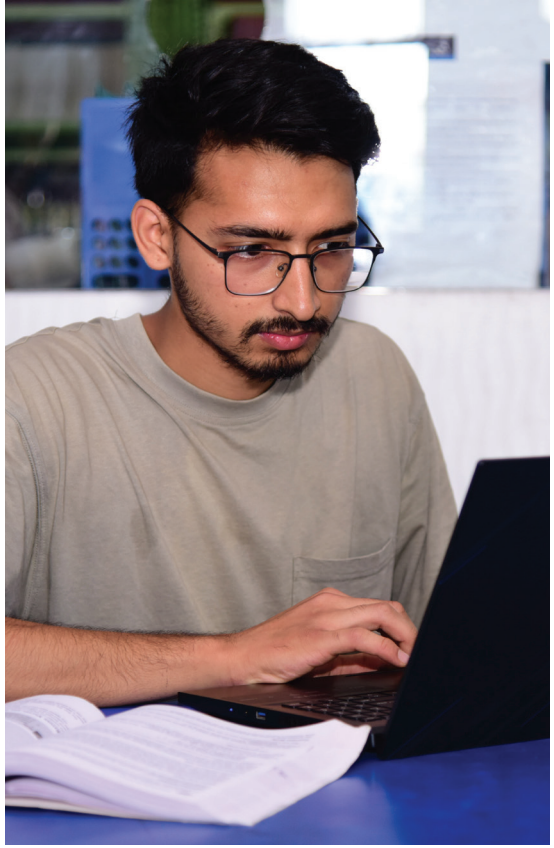
- Internet of Things
- Computer Networks
- Data Science and Analytics
- Data Communication
- Elective
- Engineering Management
- Project I

## Semester VII

- Intelligent system
- ICT Project management
- Elective II
- Engineering Economics
- Information Systems
- IT System Security

## Semester VIII

- Elective III
- Internship
- Project II



# Skills Development

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

- Proficiency in programming languages (e.g., Java, Python, C++).
- Understanding of database management systems and SQL.
- Knowledge of network design and management.
- Expertise in cybersecurity principles and practices.
- Familiarity with cloud computing platforms and services.
- Strong analytical and problem-solving abilities.
- Effective IT project management skills.

# Industries and Opportunities

Information Technology Engineers can find rewarding opportunities in diverse sectors, including:

- **Information Technology Companies:** Engaging in software development, network management, and IT consulting.
- **Telecommunications**: Developing and managing communication networks and systems.
- **Finance and Banking:** Creating secure and efficient IT solutions for financial services.
- **Healthcare:** Designing and implementing healthcare information systems.
- **E-commerce:** Building and optimizing online platforms and services.
- **Government and Education:** Contributing to public sector IT projects and academic research initiatives.

# Career Prospects

The exponential growth of the IT sector has created a high demand for IT engineering graduates across a wide range of industries. Graduates can pursue various career paths, leveraging their expertise in information technology and systems management

Potential career roles include:

- **IT Consultant:** Advising organizations on the best IT practices and solutions to improve efficiency and productivity.
- **Software Developer:** Designing and developing applications and software solutions for various platforms.
- **Network Administrator:** Managing and maintaining an organization's network infrastructure.
- **Database Administrator:** Ensuring the performance, security, and reliability of databases.
- **Cybersecurity Analyst:** Protecting systems and networks from cyber threats.
- **Systems Analyst:** Analyzing and optimizing IT systems to meet business needs.
- **Cloud Solutions Architect:** Designing and implementing cloud-based solutions.
- **IT Project Manager:** Leading IT projects from planning to execution.

# 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.

# 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.

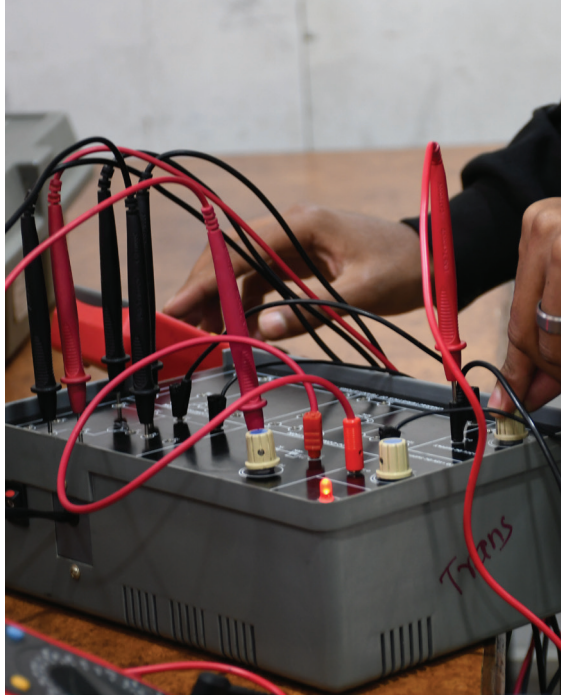
## Admission Process:

- 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

**M.E**
- COMPUTER



# 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.

# 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.

# 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.

# Recent **ACITIVITIES**

- Abstracts/Extended abstracts/ Paper presentation at International Conference on applied science and engineering in challenging world.
- Paper presentation at International conference on technologies for Computer, Electrical, electronics and Communication (ICT-CEEL 2023)
- 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.*