



Robot Competition and Project Exhibition Program in Khwopa

The robot competition and project exhibition program commenced on the 24th of Falgun, 2080, as a collaborative effort between Khwopa Engineering College and Khwopa College of Engineering, both run by Bhaktapur Municipality.

During the inauguration, the Mayor of Bhaktapur Municipality and the Chairman of the college management committee, Mr. Sunil Prajapati, emphasized the significance of perseverance and hard work in achieving success in life. He underscored the colleges' mission to foster skilled professionals capable of competing nationally and internationally, asserting Bhaktapur Municipality's commitment to bridging education and employment.

He further highlighted that Bhaktapur Municipality has initiated youth entrepreneurship loans to encourage self-reliance and deter Nepalese youth from seeking opportunities abroad.

Deputy Mayor Ar. Rajani Joshi emphasized the pivotal role of competition in motivating engineering students to undertake innovative research endeavors, highlighting the pivotal role of information technology in driving the country's development.

Er. Sujan Maka, the principal of Khwopa

Engineering College, extended congratulations to the participants and emphasized the institution's commitment to holistic student development through extracurricular engagements alongside the curriculum. He announced the college's plan to host a national conference on architecture in 2081.

Er. Ratna Shova Prajapati, Vice Principal of Khwopa College of Engineering, reiterated the importance of aligning student education with practical application, framing the competition as a step towards achieving this goal.

On the program, Er. Yogesh Bajracharya provided insights into the Robostack race, the Line Following competition, and the final-year project exhibition.

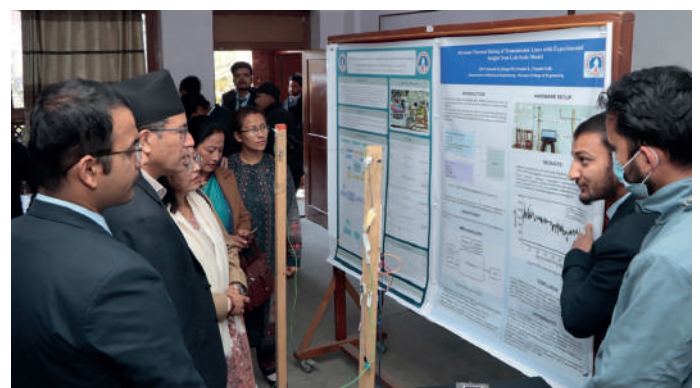
Following the opening ceremony, Mayor Prajapati and other dignitaries visited the robot and project exhibition.

A total of 26 teams comprising 103 students participated in the robot competition, while 53 exhibits featuring 210 students were showcased in the project exhibition.

Winners of the Robostack Race and Line Following Competition were honored with trophies, certificates, and cash prizes.

The outcomes of the competition:

Category	Robostscale Race	Line Following
Winners	Khwopa Secondary School	Shree Bhairabnath Sanskritik Samuha
1st runner up	Khwopa Engineering College	Kathford International College
2nd runner up	Kathford International College	Khwopa Secondary School
Best Design	Khwopa College of Engineering	Khwopa Secondary School
Best Engineering Design	Basu Secondary School	Khwopa College of Engineering
Emerging Team	Everest English School	Banepa NIST





Field Visit of Transportation Planning and Engineering (Elective-I) for 2076 batch Students

Department of Civil Engineering organized a field visit of Transportation Planning and Engineering (Elective- I) for 2076 batch students from Wednesday, 9th Falgun 2080 to Friday, 11th Falgun 2080. During the visit, students were allowed to observe Pokhara International Airport and Annapurna Cable Car located at Pokhara. This visit was planned to provide the students to observe and understand the intricate components and structures associated with modern transportation systems, specifically those of airports and ropeways.

In Pokhara International Airport the students observed various airport infrastructures, including the Runway, Taxiway, Hangar, and Terminal Building. Students were guided through each component, allowing them to appreciate the complexity and sophistication involved in airport operations and management. Students visited Annapurna Cable Car to observe the Stations, Towers, and Hauling Cables. This visit provided the students with an understanding of the mechanics behind ropeway operations. This part of the visit emphasized the importance of structural integrity, safety measures, and the innovative engineering required to accept the challenges posed by the mountainous terrain of Nepal.

The field visit was particularly fruitful in allowing students to connect their classroom learning with practical, real-world applications. Witnessing the infrastructure and operational dynamics of both the airport and cable car systems provided invaluable insights into the complexities of transportation engineering.



A Workshop on “Earthquake Hazard Assessment and Aftershock Forecasting”

A workshop on “Earthquake Hazard Assessment and Aftershock Forecasting” was held from February 27th to 29th, 2024, at the National Society for Earthquake Technology Nepal (NSET) building, Bhainsepati, Lalitpur Metropolitan City. Vice-Principal Er. Ratna Shova Prajapati along with Er. Anil Kasula participated in the workshop on behalf of this college. The seminar aimed to catalyze collaborative efforts towards enhancing knowledge of seismic hazards in Nepal and establishing a cooperative system for regular discussion on seismic hazard evaluation among seismic hazard and earthquake engineering professionals.

The workshop was organized jointly by the National Society for Earthquake Technology Nepal (NSET) and the United States Geological Survey (USGS) with funding support from USAID/ Bureau for Humanitarian Assistance (BHA) in collaboration with Earthquake Safety Solutions (ESS) under the guidance of the Department of Mines and Geology (DMG) and the National Disaster Risk Reduction and Management Authority (NDRRMA) of the Government of Nepal.

The three-day workshop focused on Probabilistic Seismic Hazard Analysis (PSHA), its concept, methodologies, and forecasting future seismic risk via presentation and discussion. On the first day, the workshop commenced with a

welcome speech by Mr. Surya Narayan Shrestha, Executive Director, NSET, followed by keynote presentations by eminent experts from USGS, NSET, and NDRRMA providing an overview of earthquake hazard assessment and the significance of aftershock forecasting in disaster management. The technical session commenced with a presentation on recent developments in Seismic Hazard Studies in Nepal by Dr. Sudhir Rajaure, Former Director General of DMG, and by Er. Sujan Maka, Principal, Khwopa Engineering College. Throughout the workshop, participants engaged in interactive sessions led by Dr. Susan E. Hough, Earthquake Program US-South Asia Coordinator, USGS, and Dr. Lisa Scheicher, Data Center Manager, National Strong Motion Project, USGS. Key topics covered included seismic hazard assessment concepts, methodologies, and forecasting aftershocks using advanced techniques and tools. Hands-on training sessions provided attendees with practical experience in earthquake hazard assessment techniques, ground motion modeling, forecasting future seismic risk, aftershock forecasting, and efforts in instrumentation for collecting seismic data.

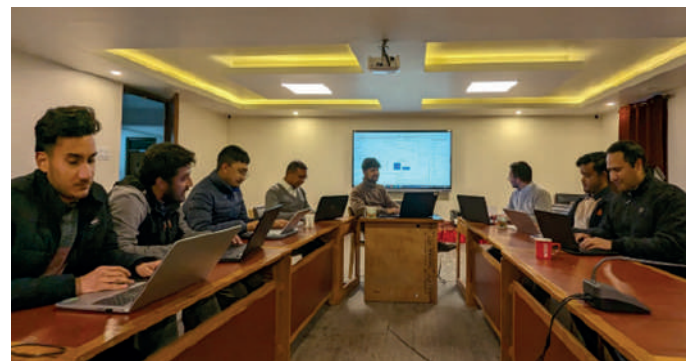
Overall, the workshop proved to be a resounding success, and participants gained valuable knowledge and skills, paving the way for enhanced preparedness and mitigation measures.



Training on Optimization Using MATLAB

The Department of Electrical Engineering held a 15 hours course on "Training on Optimization Techniques Using MATLAB" from February 25–March 4, 2024 (13th to the 21st of Falgun, 2080), which covered various engineering-related optimization techniques and the mathematics underlying their formulation using the MATLAB tool. Faculty members from the various departments of Khwopa College of Engineering participated in the training. The main goal of the training was to emphasize the application of tools and methods for metaheuristic optimization. Through a variety of methods, including Particle Swarm Optimization (PSO) and Genetic Algorithm (GA), a thorough review of metaheuristic optimization was provided. Starting with the fundamentals of MATLAB, the program progressed to cover a wide range of optimization approaches. It concluded

with co-simulation—an innovative methodology for verifying algorithms and mathematical models. Er. Rupesh Gautam, Deputy Head, of the Electrical Engineering Department, and Er. Tanus Bikram Malla provided insights into the software and mathematical foundations of Optimization. The program provided a broad overview of several engineering topics and an excellent opportunity to interact with faculty.



Most Circulated Subject on Falgun 2080

S.N.	Circulation	Title
1	521	Mathematics
2	200	Engineering Physics
3	124	Mechanics
4	91	Applied mechanics
5	51	Soil mechanics
6	42	Economics Civil Engineering
7	59	Hydraulics Civil Engineering

3rd National Conference on Architectural Trends and Heritage (NCATH 2024)



April 26th, 2024

Call for Participants

Key Dates

Submission of extended abstract : 29th March 2024

Notification of acceptance : 5th April 2024

Early Registration : 10th April 2024

Themes

- Heritage (Historic, Contemporary, Risk, Policies, Construction Technology)
- Contribution of practice
- Public and private land: ownership and management
- Sustainability and Resilience

(Note : Please go through the link for online registration and detail submission procedure.)

Registration Charges

Institutional	NRs 5,000/-
Individual	NRs 2000/-
Student	NRs 1500/-

Payment Details

Account Name: Khwopa Engineering College
 Account Number: 01900100024012000001
 Bank: Nepal Bank Limited
 Branch: Bhaktapur
 Bank SWIFT Code: NEBLNPKA



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Website link

<https://architecture.khwopaconference.com>



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