

Educational Exhibition Marks 26th National Earthquake Safety Day, Emphasizes Urgent Reforms



In commemoration of the devastating earthquake that struck on Magh 2, 1990, an educational exhibition was organized at Dattatraya, Bhaktapur – 09, to raise public awareness on the 26th National Earthquake Safety Day. The event, jointly organized by Bhaktapur Municipality, Khwopa Engineering College, and Khwopa College of Engineering, saw active participation from various stakeholders, scholars, and concerned citizens.

The exhibition was graced by the presence of Chief Guest Prem Suwal, Secretary of Nepal Workers and Peasants' Party and Member of Parliament. Secretary Suwal addressed the audience, highlighting crucial aspects of earthquake preparedness and urging collective responsibility.

Secretary Suwal emphasized the enforcement of the National Building Code, urging all stakeholders, including builders, engineers, and authorities, to prioritize and enforce these regulations during construction projects. He stressed the importance of well-trained masons and carpenters, recommending regular training programs to enhance their skills and knowledge.

In his address, Secretary Suwal advocated for the discouragement of population accumulation in the Kathmandu Valley. He urged the promotion of decentralization to mitigate the potential adverse effects of future earthquakes.

Expressing concern about the current practices of the Kathmandu Valley Development Authority (KVDA), Secretary Suwal described it as a "Kathmandu Valley Plotting Project." He warned against haphazard plotting by private companies and urged responsible authorities to prevent such practices.

Secretary Suwal held both the Kathmandu Valley Development Project and the government accountable for any future loss of lives and property due to inadequate earthquake preparedness measures. He emphasized the need for stakeholders to learn from past earthquakes in 1990, 2045, and 2072, and implement wise practices to minimize damages in future earthquakes.

Highlighting the urgency of the situation, Secretary Suwal called for the reconstruction of Singhadhwaka Darbar (National Art Museum), heavily damaged during the Gorkha Earthquake 2015. He stressed the importance of restoring it to its original

Malla period architecture.

In addition to earthquake preparedness, Secretary Suwal touched upon various contemporary national and international issues, making the audience aware of broader global concerns.

In the program, the Chairperson, Mr. Sunil Prajapati, Mayor of Bhaktapur Municipality, and Chairman of the college management committee for Khwopa Engineering College and Khwopa College of Engineering, welcomed the Chief Guest, distinguished guests, and all participants. Mr. Prajapati explained the current practices of Bhaktapur Municipality during the construction and reconstruction of world heritage structures and new structures. He also detailed the contributions of both colleges in the field of engineering, particularly in earthquake engineering.

Mayor Prajapati emphasized that Bhaktapur Municipality is actively encouraging the use of local construction materials, local construction technology, and local masons and carpenters through user groups in the reconstruction of heritage structures. This approach aims to strengthen the involvement of the local community in preserving the cultural and historical significance of Bhaktapur.

The Chairperson's address shed light on the municipality's commitment to sustainable and culturally sensitive construction practices. He underscored the importance of collaboration between local communities, educational institutions, and governing bodies to create resilient and earthquake-resistant structures.

Special Guest, Surendra Raj Gosain, Member of Parliament, Bagmati Province, expressed appreciation for the significant role played by Bhaktapur Municipality and both colleges in educating the public about earthquakes and promoting earthquake-resilient construction through their annual programs. Mr. Gosain encouraged faculties and students to delve into the study and research of traditional architecture, construction technology, and construction materials used in heritage structures, which have endured for more than three centuries, withstanding numerous large earthquakes.

He underscored the importance of learning from our ancestors who applied their experiences to build cities in locations where earthquake damages were minimal. However, Mr. Gosain lamented the haphazard city planning observed in the 21st century, emphasizing the need for current government and stakeholders to

follow scientific findings in the field of geology and geotechnical engineering when constructing new settlements. His remarks emphasized the crucial balance between preserving traditional knowledge and incorporating modern scientific advancements to create sustainable and resilient urban environments in the face of seismic challenges.

Ar. Rajani Joshi, Deputy Mayor of Bhaktapur Municipality, emphasized the crucial need for coordinated efforts among stakeholders during the reconstruction of heritage structures. Expressing her reservations, Deputy Mayor Joshi voiced strong objections to the use of foreign construction materials in the restoration of the world heritage structure Pujari Math, situated at Dattatraya Square. Her stance underscored the vital importance of employing original materials to maintain authenticity and preserve the cultural and historical significance of such invaluable heritage sites. Deputy Mayor Joshi further highlighted the necessity of implementing an annual calendar for the monitoring and maintenance of heritage structures, a practice carried out by our ancestors who marked dates through the celebration of various festivals. Her remarks highlighted the importance of combining modern restoration practices with traditional methods to ensure the continued preservation of Bhaktapur's rich architectural heritage.

Guest Roshani Kumari Shrestha, Chief District Officer of Bhaktapur District, expressed appreciation for the commendable efforts of the colleges in organizing the educational program. Chief District Officer Shrestha took the opportunity to elucidate the meticulous arrangements made by the CDO office for disaster management in the district. She urged all stakeholders to actively participate and collaborate in efforts to reduce earthquake disaster hazards. CDO Shrestha's emphasis on collective engagement underscored the significance of a community-wide approach in mitigating the impact of earthquakes and ensuring the safety and resilience of the region.

Mr. Basanta Bhattarai, Chief Administrative Officer of Bhaktapur Municipality, along with Er. Sujan Maka, Principal of Khwopa Engineering College, Er. Sunil Duwal, Principal of Khwopa College of Engineering, and Er. Ratna Shova Prajapati, Vice-Principal of Khwopa College of Engineering, extended a warm welcome and encouraged all attendees to explore the diverse exhibits at the event.

They collectively urged visitors to engage with the exhibition's 31 models, 43 paintings, 26 paper bridges, 6 posters, and various security and rehabilitation equipment displays.

The active participation of the Chief Guest,

distinguished guests, teachers, students, and the general public in visiting the exhibition added a dynamic and interactive dimension to the program, promoting a comprehensive understanding of earthquake resilience and safety measures.







Most Circulated Subject on Magh 2080

S.N.	Circulation	Title
1	278	Mathematics
2	112	Physics
3	90	Engineering Physics
4	86	Mechanics Dynamics and static
5	64	Applied mechanics
6	60	Sanitary engineering Environmental engineering series-II
7	53	Steel structures
8	42	Economics Civil Engineering

Welcome and Orientation for New Students



On Magh 3, 2080, Khwopa Engineering College and Khwopa College of Engineering, both run by Bhaktapur Municipality, organized a welcome and orientation program for newly admitted students. Prem Suwal, the Secretary of the Nepal Workers and Peasants' Party and Federal Parliament Member emphasized that the technical education provided by these colleges aims not only to make the youth self-reliant but also to contribute to the country's economic development. He highlighted colleges' goal of playing a significant role in national development through political leadership and visionary thinking. Suwal expressed concerns about the agreement that allows the Indian Embassy in Nepal to carry out projects up to 200 million rupees, deeming it against Nepal's sovereignty and independence. He insisted on the immediate cancellation of the agreement.

Suwal condemned India for encroaching on Nepal's territory. He advocated for the immediate termination of the agreement to export 10,000 megawatts of electricity to India. Suwal asserted that canceling various treaties and agreements with India, covering rivers like Kosi, Gandaki, Mahakali, Karnali, Mugu Karnali, Arun, and West Seti, would lead to sufficient hydropower production for domestic purposes, industries, factories, and agriculture, making electricity available at a lower cost for the Nepali people.

Expressing concern about the worldwide threat

of a third world war, Suwal condemned American imperialism and Israeli fascism, emphasizing the need to stop the genocide and land occupation against the Palestinian people.

The Chairman of the program and the Mayor of Bhaktapur Municipality, Sunil Prajapati, highlighted the crucial role skilled professionals play in the country's development. Prajapati expressed concern over the increasing trend of Nepali intellectual human resources migrating abroad and emphasized the importance of dedication to the country for sustainable development.

During the program, Bagmati Provincial Assembly member Surendra Raj Gosain emphasized the need for well-trained leaders to provide proper leadership to the country. Gosain criticized political parties for treating politics as a means of earning rather than serving the people.

Bhaktapur Municipality's Deputy Mayor, Ar. Rajani Joshi shared that she is working to develop Bhaktapur as a center for knowledge, science, civilization, and a cultured city. She mentioned that the municipality is actively involved in developing educational institutions, aiming to produce capable and skilled human resources contributing significantly to all sectors of the country.

Joshi highlighted the notable contributions made by qualified and skilled individuals produced by educational institutions operated by the municipality. The program also included welcoming the new

students into the Khwopa family by the Principals of Khwopa Engineering College, Er. Sujan Maka, and Khwopa College of Engineering, Er. Sunil Duwal.

They extended best wishes for a successful academic journey and guided the new students about various aspects of engineering education."



Talk Program for Awareness and Preparedness for Earthquake Safety on the occasion of 26th National Earthquake Safety Day

"A talk program on the occasion of 26th National Earthquake Safety Day was combinely organized by Bhaktapur Municipality, Khwopa Engineering College, and Khwopa College of Engineering on 5th of Magh 2080. The program included award and certificate distribution to participants of the educational exhibition for the earthquake safety awareness program held in Dattatraya, Bhaktapur, on the 2nd of Magh, 2080.

During the event, a special guest named Prem Suwal, a federal parliament member and the Secretary of the Nepal Workers and Peasants' Party, urged the government to be fair. He pointed out that the government has allocated land for various offices, schools, and colleges, but the land in Sallaghari, Bhaktapur, owned by the Nepal Trust, hasn't been given to establish Khwopa University. This is limiting access to education for ordinary people. He stressed that having Khwopa University is important for providing everyone with a quality education. The land purchased from the people of Bhaktapur for Rs.1800/- per ropani during King Birendra's reign should be given to Bhaktapur Municipality to benefit the common people via education.

Suwal stressed the government's role in protecting citizens from earthquake damage and recommended making various construction materials for earthquake-resistant structures readily available. In this context, he emphasized that in socialist countries, the government builds houses for the

public, and in Nepal, the government should take full responsibility for earthquake-resistant building construction. He recommended providing training to construction professionals to reduce earthquake risks.

The Mayor of Bhaktapur municipality and the chairman of the college management committee, Sunil Prajapati, said that the monuments of Bhaktapur that were damaged by the earthquake of 2072 have been reconstructed from the municipality's own sources. He said that 10 million euros provided by the German government for the reconstruction of the monuments were rejected as the terms in the contract interfered with our self-reliance and sovereignty. Prajapati emphasized the importance of skilled engineers in **constructing earthquake-resistant structures and** urged engineers to play a vital role in this endeavor. Deputy Mayor of Bhaktapur Municipality and Vice-Chairman of the College Management Committee, Rajani Joshi, dispelled the misconception that only concrete houses are strong, stating that houses built with traditional technology are also sturdy and earthquake-resistant.

In the program, Er. Sunil Duwal, Principal of Khwopa College of Engineering, and Dr. Subegman Bijukchhen, Vice Principal of Khwopa Engineering College, discussed various earthquake safety measures.

The program included presentations by Er. Chintan Timsina on 'Seismicity and Seismo Tectonics of Nepal Himalaya, Implication for Jajarkot



Earthquake' and Er. Jagdish Man Shrestha on 'Role of Quality Construction in Earthquake Resistance Structures.' These presentations enlightened the participants about different aspects of earthquakes and construction practices. Awards and certificates

were then distributed to winners of the painting, models, and paper bridge competition held as part of the educational exhibition on earthquake safety awareness at Dattatraya Square on the 2nd of Magh, 2080.



Winner Lists of Earthquake Safety Day 2080

Paper Bridge Competition Winners List

S.N	Team Name	College	Name	Year	Remark
1	Team Imja	Khwopa College of Engineering	Minu Gosai	4 th Year	1 st
			Rashila Duwal		
			Smriti Manandhar		
			Swachan Shahi		
2	Tsho Rolpa	Khwopa Engineering College	Niroj Shrestha	2 nd Year	2 nd
			Nischit Neupane		
			Salim Suwal		
			Yug Paudyal		
3	Tilicho	Khwopa College of Engineering	Karina Dumaru	4 th Year	3 rd
			Arbindra Bakhunchhe		
			Asbin Acharya		
			Manish Khatri		
4	Sagarmatha	Khwopa College of Engineering	Anjal Timsina	3 rd Year	4 th
			Bimal Thapa		
			Manoj Sujakhu		
			Milan Chakradhar		

EQ Model Competition Winners List Architecture Model Competition Winners List

S.N	Name	Batch	Title of Model Making	Rank
1	Ram Bahadur Khadka	2077	Advancing Urban Resilience: A Sponge City Approach	1 st
	Rijan Adhikari			
	Sanjaya Sejuwal			
	Sashiva Nepal			
	Swornim Aaganja			
	Yadav Kumar Karki			
2	Prabesh Shrestha (076)	2076	Mapping Nepal's Topography: Visualizing Earthquake Risk Zones Through 3D Modeling	2 nd
	Rohan Maharjan (076)			
	Shreeya Nyaichyai (077)			
	Sura Prajapati (077)			
	Deepika Pandey			
3	Trilen Shakya	2077	Diverse Approaches to Debris Mitigation	3 rd
	Raghav Khokhali			
	Roman Sharma			
	Yaman Shrestha			
	Unique Sakhakarmi			
4	Rupesh Subedi	2078	Earthquake Energy release Demonstration and early earthquake warning system	3 rd
	Sahadev koirala			
	Samrakshan poudel			
	Santosh Pokharel			
	Subash Timalisina			
	Symon Pokharel			

SN	Model Name	Name	Batch	Rank
1	Bhairabnath Temple, Bhaktapur	Ajaya Pakhrin	2076	1 st
		Nistha Awal		
		Prajita Kakshapati		
		Rashmita Sintakala		
2	Navadura Dyochhen, Bhaktapur	Shoumya Malla	2076	2 nd
		Ritika Prajapati		
		Rasana Shrestha		
		Subina Nuchhen		
3	55 Window Palace	Shyeyaska Suwal	2076	3 rd
		Aliza Nakarmi		
		Kusum Sharma		
4	Sundari Chowk, Patan	Prasoon Shrestha	2076	3 rd
		Ronista Manandhar		
		Sandhya Khatiwada		
		Sonam Twayana		
5	Thakali House, Thakkhola	Urusha Paodel	2078	Conso- lation
		Asmita Kasti		
		Anushka Rajchal		
		Nita Thapa		
		Sandhya Gosain		
Sharmila Prajapati				

Painting Competition Winners List - Earthquake Saftey Day

S.N	Name of Student	Batch	Semester	Faculty	College	Rank
1	Sampada Khadka	2077	5 th	Civil	KhCE	1 st Rank
2	Prabin Sunuwar	2077	5 th	Civil	KhCE	2 nd Rank
3	Kritika Suwal	2080	1 st	Architecture	KhEC	2 nd Rank
4	Samriddhi Bajracharya	2080	1 st	Architecture	KhEC	3 rd Rank
5	Purnika Gothe	2078	4 th	Architecture	KhEC	3 rd Rank

Seminar on Career Development and Cultural Exchange with Japan

The Department of Computer Engineering of Khwopa College of Engineering organized a small yet impactful seminar with Gamenic Nalamiz Tech for engineering students on 23rd January 2024. The seminar focused on fostering a connection between students and the prospects offered by Japan, with insightful discussions led by Mr. Nabin Shrestha, the CEO of Gamenic Nalamiz Tech.

The event, attended by students from the Computer Engineering departments of the 3rd and 4th years, saw active participation from notable figures. The attendees were Tomoyashi Ishida, Misako Ishida, Nobuko Watanabe, Furuya Yusuke, and Nabin Shrestha.

The seminar provided a platform for students to gain insights into potential career paths and learn about Japan. Gamenic Nalamiz Tech aims to bridge the gap between academic knowledge and real-

world opportunities, empowering students to make informed decisions about their future.

As the seminar concluded, students expressed gratitude for the eye-opening experience and the chance to interact with industry professionals. The event was a stepping stone for future collaborations between Khwopa College of Engineering and Gamenic Nalamiz Tech, fostering a symbiotic relationship between academia and the tech industry.



From Runoff to Roots: Civil Engineering Students Dive Deep into Irrigation and Drainage Engineering

Civil Engineering students studying "Irrigation and Drainage Engineering" recently participated in a four-day field visit to gain practical insights into irrigation system planning and operation. The visit, supervised by faculty members Mr. Aanand Kumar Mishra, Mr. Anil Kasula, Ms. Anusha Danegulu, Mr. Bibek Thapa, Mr. Nischal Prajapati, and Ms. Unisha Ghimire, began on 9th February. The primary objective was to guide students from the water source to the agricultural fields of the Bagmati Irrigation Project, a successful joint-managed irrigation project in Nepal. On the first day, students visited the Sunkoshi Marin Diversion Multipurpose Project's construction site, where they learned about the project's features and observed the coffer dam's construction. They also observed drainage and slope protection works on the BP highway.

On the second day, thanks to Mr. Binod Paswan, the barrage in charge, students started from the Bagmati Irrigation Project's headwork. They observed the desilting basin and cross-drainage works along the western main canal and the Bhalohiya branch canal. They also observed water diversion from the branch through the canal outlet to the watercourse and then into the agricultural fields. The third day, with the cooperation of Mr. Kulraj Chalise, a technical official from the Narayani Lift & Khageri Irrigation Management Division, included visits to the Khageri Irrigation System's headworks and the Narayani Lift

Irrigation Project's intake. Students observed river training and diversion headwork at Khageri, and the intake and pump house at the Narayani Lift Irrigation project.

The field visit proved to be a valuable learning experience for our students, providing them with insights into the operation of Nepal's irrigation projects, thanks to the information shared by the technical personnel of the respective projects.



Workshop on Basic Electronics Circuits

From the 21st of Magh to the 1st of Falgun 2080 (4th to 13th February, 2024), first-year students of the BE Electrical Engineering 2079 Batch participated in a "Basic Electronics Circuits" workshop. This event was organized by the Department of Electrical Engineering and facilitated by Er. Prasanna Dahal. Utilizing Proteus software and fundamental electronic components, students gained practical experience in building simple



electrical circuits. The workshop provided hands-on application of the basic electronic circuits they had studied in their textbooks. At the end of the program, participants were introduced to basic circuits related to general electronics and simple projects. The workshop concluded with an exploration of minor projects and introductory circuits in general electronics.

Hydropower Educational Tour 2080

Students from the 6th semester of the BE Electrical Engineering, Batch 2077, undertook an educational tour of hydropower generation and electrical infrastructure. The tour was conducted from 2080/10/23 to 2080/10/26 which included field visit at Middle Marsyangdi Hydropower Station, Lamjung, Lower Marsyangdi hydropower station, Tanahu, Pokhara Industrial Estate and Pokhara Grid Substation, Lekhnath, Pokhara. Students had opportunities to explore the Hydro-power powerhouse and dam site. They also received instruction on various components utilized in powerhouses and switchyards, deepening their comprehension of the equipment utilized in hydropower generation.

Furthermore, at the Pokhara Grid Substation, students were introduced to various switchgear and protection systems utilized in the grid substation. This segment of the tour provided them with practical knowledge about the crucial role of these systems in ensuring the efficient distribution and safety of electrical power.

Overall, this educational tour provided students with a comprehensive understanding of hydropower generation, industrial processes, and grid infrastructure, bridging the gap between classroom learning and real-world applications in the field of electrical engineering.



At Himalayan Life Plastic Pvt. Ltd. (Pokhara Industrial Estate)



At Pokhara Grid Substation



At Mid-Marsyangdi Hydropower



At Lower-Marsyangdi Hydropower

Solar PV Field Visit at Khwopa Hospital

As a practical learning initiative, students of B.E. Electrical eighth semester (2076 Batch) with Applied Photovoltaic elective II course embarked on a field visit to Khwopa Hospital on 31st January 2024 (17th Magh 2080), led by course instructor Er. Yogesh Bajracharya, the excursion aimed to provide students firsthand insights into solar PV systems.

The hospital has a 16.72 KWP installed capacity, featuring 88 units of 190-watt panels. During the visit, students delved into the intricacies of the entire PV system, gaining valuable knowledge about its components and operational aspects.

The system's key elements were five charge controllers, two 7KW inverters, and a bank of 72 numbers of 1050 AH - 2V batteries. This setup offered students a comprehensive understanding of how solar energy is harnessed and utilized in real-world applications.



Furthermore, the visit provided a platform for students to explore current issues surrounding the installed PV system, allowing for insightful discussions on potential improvements and challenges faced in solar energy integration.

ROBOSTACLE RUN (ROBO RACE) AND LINE FOLLOWING ROBOT COMPETITION

Certificate for all Participants,
free training and mentor for each team

Competition on

Date : Falgun 24, 2080
Time : 9:30 Onwards
Venue : College premises

CASH PRIZE WITH TROPHY

15000/- : Winner
10000/- : First Runner Up
5000/- : Second Runner Up

*Subject to tax deduction as government rules.

Registration Fee : 1000/-
Deadline : 12th Falgun

Organizer




Contact :
Er. Yogesh Bajracharya (9841096218)
Er. Rakesh Gwachha (9851185948)

Note : Only for +2 And Bachelor First Year Students.

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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