An Undertaking of Bhaktapur Municipality



Khwopa Engineering College

Affiliated to Purbanchal University

KARTIK 2080 ISSUE 19 NEWSLETTER

Information and Technology Discoveries: Exemplifying Huge Achievements and Human Intellectual Power



The chief guest of the program Senior Leader Narayanman Bijukchhen (Rohit), the Chairman of the Nepal Workers and Peasants' Party (NWPP), along with distinguished guests.

15th Bhadra

Senior Leader Narayanman Bijukchhen (Rohit), the Chairman of the Nepal Workers and Peasants' Party, inaugurated the three day "International Conference on Technologies for Computer, Electrical, Electronics and Communication (ICT-CEEL) 2023" jointly organized by Khwopa Engineering College and Khwopa College of Engineering with technical cosponsorship of IEEE Nepal Subsection and IEEE PES, Nepal Chapter. Addressing the inauguration ceremony, Chairman Bijukchhen highlighted the intellectually

empowering examples of new discoveries in information and technology. He insisted that while these innovations serve the global human community, their applications should be for its betterment. He also underscored a need for vigilance while



using artificial intelligence, computers, electrical automation, and information



technology. He discussed the centrality of ethical considerations and careful thinking in dealing with consequences of artificial intelligence and technological



advancements.

Chairman Bijukchhen appreciated the impact of technology, particularly the internet, computers, and mobile devices, in transforming global communication and information accessibility. He mentioned that the availability of the internet has made news and information instantly accessible, even in remote villages and households. He commented, "During the crisis of

the Covid-19 pandemic, international seminars, conferences, and information from around the world through the means of communication and technology have allowed us to have a new experience of science and technology."

While receiving the chairmanship of inauguration event, the Chairperson of the College Management Committee and Mayor of Bhaktapur Municipality, Sunil Prajapati, expressed how advancements in science and technology have not only positively influenced national economy and culture but have also been applied in various ways in socialist countries, like DPR Korea



and Cuba, for the welfare and prosperity of the people at large. Mayor Prajapati warned against the misuse of technology by developed nations against the weaker and less developed countries, stressing a necessity for global cooperation and responsible use of technology. He praised the colleges undertaken by Bhaktapur Municipality for their contribution to the reconstruction and renovation works of thousands of monuments damaged by

Gorkha Earthquake 2015.



also witnessed The program the presence of Member of Provincial Parliament of Bagmati Province Surendra Raj Gosai, who expressed confidence in the positive outcomes of such international conferences for a societal change. He mentioned the importance of invaluable interactions and experiences between Nepali students, professors, and foreign such conferences. scholars during Highlighting the importance of research-



based education and the creation of a budget for colleges under Bhaktapur Municipality, Ar. Rajani Joshi, Vice-Chairperson of the College Management Committee and Deputy Mayor of Bhaktapur Municipality, stressed the role of education in intellectualizing the society.

The Chairman of Nepal Engineering Council, Prof. Dr. Padma Bahadur Shahi, extended his best wishes for the success of the conference, describing its relevance as an international platform for university activities. Chief Administrative Officer of Bhaktapur Municipality, Vijay Kumar Sharma, appreciated the conference as an appropriate forum for academic activities. He stressed a continuous contribution of education to the sustainable development of society.

Principal of Khwopa Engineering College delivered a welcome speech in the program hosted by faculty members of the college Rina Manandhar and Naba Raj Budhathoki. The international conference was praised for providing a



platform for creative solutions for societal transformation. The participants hoped for the continuity of such conferences in the future.

The International Conference on Technologies for Computer, Electrical, Electronics, and Communication Successfully Concluded



26th Asoj

The International Conference on Technologies for Computer, Electrical, Electronics, and Communication (ICT-CEEL 2023) was formally closed amidst a program on the third day, October 13, 2023,



along with the presence of principals, keynote speakers, paper presenters, participants, and other distinguished researchers.

In the closing ceremony, Principal Er. Sujan Maka started his speech by thanking all individuals and organizations their unwavering support technical sponsorship. He expressed his special thanks to Senior Leader Narayan Man Bijukchhen and the management committee for their continued inspiration, which have made such conferences possible and successful. Principal Maka looked forward to welcoming all the participants again at the next conference and wished the participants a safe journey back home while bidding them a farewell. Principal Er. Sunil Duwal, with the initial expression of thanks to all, shared the efforts made by the organizers as steps to organize ICT-CEEL 2023 and appreciated the hard work on the part of faculty and staff, who are not tired yet but gearing up for the upcoming

3rd ICEE-PDRP 2023. He also expressed that we need to work a lot on everyone's



part for the quality of papers and research work at a large.

Vice Principal Dr. Subeg Man Bijukchhen addressed the audience at the ceremony, reminding them of the success of several international conferences in earthquake engineering and post-disaster reconstruction. He said this international conference increased confidence to conduct more conferences in the future. Vice Principal Bijukchhen emphasized the significance of collaboration with



international researchers for the overall success of academic institutions and academics.

Dr. Md. Humayoo, secretary of the steering committee, extended his vote of thanks to all individuals and organizations directly and indirectly involved in the accomplishment of the conference. He emphasized the strength of teamwork, which has proven useful in making the conference a success. Dr. Humayoo explained the evolution of the dream of organizing ICT-CEEL 2023 and naming it. Likewise, Dr. Sarbagya Buddhacharya



delivered a summary of the conference activities. He informed that the conference featured five keynote speakers. He revealed 111 papers were registered for participation, whereas 141 papers were submitted: 44 papers from computers, 18 papers from



electronics, 14 papers from electrical,

and 32 papers from general science. The presenters were from seven different countries, including China and Japan. He said he was overwhelmed by the number of papers beyond his expectations. In his remarks, Dr. Ashish Khanna, a keynote speaker, appreciated the organizers for organizing the conference, mentioning that the connection of new technology with traditional values has been found to be practiced in Khwopa Engineering College and Khwopa College of Engineering, which was also evidenced in the conference. Dr.



Khanna remarked that the value of research for undergraduate and graduate students is crucial to making them organized people in society, and colleges have a greater role to play in training them in this positive direction. Dr. Bikash Lamsal, presenter of the conference, expressed his satisfaction with the conduct of ICT-CEEL 2023. Dr. Lamsal gave researchers suggestions for doing a good amount of literature review during research work. Dr. Lamsal wished for the continuation of such conferences by the organizing teams in the future.

Finally, certificates and awards were

distributed to the presenters and winners by the principals and keynote speakers present in the program. In the ceremony best paper was awarded to Santi Karki in



Electrical, Rupak Raj Ghimire in Computer, Prasanna Raj Pandit in Electronics & Communication, Mukesh Tiwari in General Science whereas, Best poster award was given to Sangita Mainali. Moreover, Tokens of Love were distributed to IEEE Nepal Subsection and IEEE PES, Nepal Chapter, for their technical co-sponsorship.



Vulnerable Structures Built by Humans Cause More Damage during an Earthquake



The Chief Guest, Mr. Prem Suwal, Member of Federal Parliament and Secretary, Nepal Workers and Peasants' Party(NWPP), inaugurating opening ceremony by lighting the panas.

30th Asoj

The Chief Guest, Mr. Prem Suwal, Member of Federal Parliament and Secretary, Nepal Workers and Peasants'



Party, noted that this conference ignites all those concerned about constructing infrastructures with earthquake risk reduction technology. He stressed that since Nepal has experienced a multiparty system and democracy for 34 years, it is now necessary to initiate national-level construction work via the mobilization of the Nepal Army and Nepal Police. Meanwhile, construction work at the local level should be carried out in collaboration with local people through users committees, He alerted the new generation to be cautious and vigilant in each and every activity of the government. Reflecting upon the promises made 24 years ago, he claimed that Nepal Workers and Peasants' Party is leaving no stone unturned in fulfilling its word.

MP Suwal informed that they are working on their dream project these days, i.e., establishing Khwopa as a university, while expressing his dissatisfaction with the inaction of the government. He further mirrored the current situation of Nepali colleges due to the lack of students.

Lastly, he expressed his optimism that



the conference will be helpful in fostering collective growth and a brighter future. Mayor of Bhaktapur Municipality and Chairman of the college management committee Mr. Sunil Prajapati expressed his happiness on being able to organize this momentous event. Mayor Prajapati stated that there is intense suffering in human society during and after catastrophic events like earthquakes merely because of



reckless human structures. He presented the statistics of different affected countries around the world and praised them for their quick actions during such time. China, in his view, has set a great example in post disaster reconstruction work. Mayor Prajapati pinpointed the earthquakes that occurred in Nepal and presented an overview of destruction in Bhaktapur Municipality. Taking the opportunity, he thanked and praised everyone involved in post disaster reconstruction work in this municipality. He further expressed that the pace of reconstruction in the municipality is really praiseworthy. However, there are dozens of heritages yet to be reconstructed.



intangible property of Bhaktapur. Member of Provincial Parliament Srijana Sainju, in her address reminded the audience of the grand accomplishments of the past two episodes of ICEE-PDRP.

MP Sainju suggested that effective



post-reconstruction methods must be kept

as the top priority since Nepal lies in an earthquake-prone zone. She also expected both young and senior researchers alike to take timely initiations in the right



direction.

In her speech, Deputy Mayor Rajani Joshi, Vice Chairperson of the College Management Committee, initially shared the experience of the first ICEE-PDRP in 2016, a year after the Gorkha Earthquake



of 2015. She remarked that the gathering at the conference is more than meeting minds, and it would prove to be a convergence of determination, innovation, and tradition.

Deputy Mayor Joshi pointed out that our collective knowledge can be a powerful tool to rebuild communities and preserve cultural identities. She also expressed her optimism that the ideas, innovations, and discussions in the conference would be stepping stones for proper and efficient planning and policymaking. With a note of thanks to the organizing committee, Prof. Devi Prasad Bhattarai, Dean of Engineering Faculty, Purbanchal University, noted the fragile conditions of Nepal with respect to earthquakes, reminding the



participants of the devastations caused by the two earthquakes in 1934 and 2015 in Nepal. He hoped the conference would be a platform to share and explore new ideas and knowledge on the problems and issues of earthquake engineering. Er. Sunil Duwal, Principal of Khwopa College of Engineering delivered a welcome speech emphasizing the relevance of exhange of ideas, innovations and discussions to proper efficient planning & policymaking in the same ceremony was conducted by faculty members Naba Raj Budhathoki and Mandira Bhandari.

3rd International Conference on Earthquake Engineering and Post Disaster Reconstruction Planning Successfully Concluded



1st Kartik

3rd International Conference on Earthquake Engineering and Post Disaster Reconstruction Planning was formally wrapped up amidst a program on second



day, October 18, 2023, in presence of distinguished dignitaries and participants. With the expression of thanks and best wishes to the audience, Mayor of Bhaktapur Municipality Sunil Prajapati, Chairman of College Management Committee, shared the plan of the municipality, especially to establish Khwopa University. He said the conference has given an opportunity to extend new relationships with different people and countries. Mayor Prajapati, in his speech, indicated a different situation in the education sector of the country in the context of students going abroad for the studies after school. He, therefore, urged all the stakeholders, including teachers and professors to pay attention and to prevent education sector from going to a worse situation. He suggested technicians, like engineers and professors should always work for the sake of country and people.

Addressing the closing ceremony, Principal of Khwopa Engineering College Er.

Sujan Maka extended his gratitude to all the dignitaries and participants. He informed



that we will have 4th International Conference on Earthquake Engineering and Post Disaster Reconstruction Planning in January 2026.

Principal Er. Sunil Duwal, with the initial expression of thanks to all, forwarded his belief that the conference has been beneficial on boosting disaster preparedness, earthquake resilient structures and heritage preservation. While presenting a brief overview of the three-day conference, Dr. Subeg Man Bijukchhen, Vice Principal of Khwopa Engineering College, expressed his delight on being able to attend 3 keynote speeches,

5 guest speeches and 12 sessions of 50 presenters from 6 different countries.

In her remarks, Vice Principal of Khwopa College of Engineering Er. Ratna Shova Prajapati appreciated the effort of participants since they have accomplished the goal of creating better tomorrow via the conference.

Dr. Manjip Shakya, the secretary of the steering committee, expressed a vote of



thanks to all the participants in the closing ceremony, in which presenter Micheal Whitworth and faculty member Naba Raj Budhathoki spoke of their experiences and opinions





Appointment and Promotion Letter Distribution Program at Khwopa Engineering College and Khwopa College of Engineering

7th Asoj

On Sunday, Asoj 7, 2080, Khwopa Engineering College and Khwopa College of Engineering organized an Appointment and Promotion Letter Distribution Program. The distinguished Chief Guest for the occasion was Mr. Sunil Prajapati, the Mayor of Bhaktapur Municipality and Chairman of the College Management Committee of both institutions.

During the program, Chief Guest Mr. Sunil Prajapati handed over to the newly appointed Vice-Principal, Mr. Subeg Man Bijukchhen, of Khwopa Engineering College, his appointment letter, marking a significant milestone in his career. Furthermore, the Chief Guest extended his warm congratulations to Dr. Bijukchhen also to the newly appointed faculties as well as the promoted teaching and nonteaching staff members.

In his address, Mayor Sunil Prajapati delivered an inspirational speech, urging both teaching and non-teaching staff to serve the community and the nation with



unwavering dedication and to adhere to the highest standards of discipline. He emphasized that an educational institution's true strength lies not merely in its physical infrastructure but in the competence of its faculties and staff.

Principal Sujan Maka took the opportunity to express his gratitude to the outgoing Vice-Principal, Mr. Rabindra Phoju, for his invaluable contributions during his tenure. Principal Maka also extended his best wishes to Mr. Phoju for his higher education pursuits. Furthermore, he highlighted the remarkable progress made by the colleges in jointly organizing two consecutive international conferences slated for this month.

The occasion was graced by the presence of Er. Sunil Duwal, Principal of Khwopa College of Engineering, and Er. Ratna Shova Prajapati, Vice-Principal of Khwopa College of Engineering, who extended their heartfelt congratulations and best wishes to the newly appointed Vice-Principal, Dr. Bijukchhen, as well as to the promoted faculty members.

In response, Vice-Principal Subeg Man Bijukchhen expressed his gratitude to the College Management Committee for placing their trust in him and assured them of his unwavering commitment to theinstitution's growth and development.

Entrance Examination 2080 at Purbanchal University's Faculty of Engineering Concludes Successfully

13th Asoj

Examination for the Entrance academic 2080 Purbanchal vear at University's Faculty of Engineering successfully concluded on 13th Ashoj, with candidates appearing at seven designated centers across Nepal.

The examination centers, located in Biratnagar, Bhaktapur, Bharatpur, Jhapa, and Janakpur, were meticulously organized to accommodate the aspiring engineering students. At the Khwopa Engineering College Entrance Examination Center in Bhaktapur, a remarkable 93% of applicants for the 11 engineering colleges, located at Kathmandu Valley, appeared for the examination as confirmed by the superintendent and Principal of Khwopa Engineering College.

Prominent academic figures, including Professor Dr. Yadav Raj Koirala, the Vice-Chancellor of

Purbanchal University, Professor Debi Prashad Bhattarai, Dean of the Faculty of Engineering at Purbanchal University, and Professor Dr. Padam Bahadur Shahi, Chairman of the Nepal Engineering Council, along with numerous special observers and observers, paid visits to the various examination centers to ensure the integrity of the examination process.

In a reassuring development, it has been reported that the examination was conducted fairly and without any major incidents at all the designated centers.

As per the administration of the Purbanchal University's Faculty of Engineering, the results of the entrance examination are expected to be published within a week, providing students with clarity regarding their academic futures.





Farewell to Security Guard Hari Bahadur Sakhakarmi as he Embarks on a Well-Deserved Retirement

15th Asoj

On 2080-06-15, Monday, Khwopa Engineering College (KhEC), family gathered in a heartfelt farewell program to bid farewell to their dedicated security guard, Hari Bahadur Sakhakarmi, who is retiring after reaching the age limit. Mr. Sakhkarmi has been an integral part of Khwopa Engineering College for an incredible 20 years and has witnessed the institution's growth from its early days.

The farewell program was filled with nostalgia as Mr. Sakhkarmi shared both sweet and sour moments he experienced during his two-decade-long tenure. His presence and contributions to the college were celebrated by staff and students alike.

Principal Sujan Maka of KhEC and Principal Sunil Duwal of KhCE, along with Vice-Principal Ratna Shova Prajapati (KhCE), extended their thanks to Hari Bahadur Sakhakarmi for his long and dedicated service. They also expressed their best wishes for his health and happiness in his well-earned retirement.

In addition to the principals and viceprincipal, other members of the college administration also took the opportunity to share their experiences and express their appreciation for his dedication. Administration head of KhEC, Mr. Siddhi Ram Suwal, Administration head of KhCE, Sanjay Manandhar, and Head of Store Section, Mr. Rajan Jati, remembered their interactions with Hari Bahadur Sakhakarmi and wished him a fruitful retired life.

The farewell program was a touching tribute to a loyal and dedicated member of the Khwopa Engineering College (KhEC), family, marking the end of one chapter in Mr. Sakhakarmi's life and the beginning of a well-deserved retirement filled with joy and relaxation.





Nepal Engineering Council (NEC) Praises Khwopa Engineering College for Commitment to Quality Education

16th Asoj

On 2080-Ashoj-16, Nepal Engineering Council (NEC) conducted a comprehensive monitoring and observation visit to Khwopa Engineering College. Led by Coordinator Er. Dr. Bikash Adhikari, the NEC team included members Er. Umesh Prashad Chaudhary and Er. Dipendra Kumar Badiyat.

During the visit, the team examined the college premises, including the library, laboratories, and various departments. They also engaged in productive discussions with the faculties and staff.

Principal Sujan Maka gave a presentation on the college's achievements and advancements since the last NEC observation and monitoring visit,

showcasing the institution's dedication to progress.

The NEC observers were impressed by the college's commitment to ensuring quality education at affordable fees. They provided valuable suggestions and recommendations to further enhance the educational standards at Khwopa Engineering College.

The visit concluded with mutual appreciation and a shared commitment to fostering excellence in engineering education in Nepal. Khwopa Engineering College continues to be a shining example of educational quality and affordability in the country.









Orientation Program on Upcoming "Final Year Project" of 2076 Batch

16th Asoj

An orientation program on "Final Year Project" for the students of BE Civil 2076 Batch was organized at Khwopa Engineering College. The objective of the program was to provide the detailed information of Final Year Project as a course of 8th semester. Senior Lecturer Er. Sudip Karanjit presented on the necessity and importance of Final Year Project for the

students of Civil Engineering. Furthermore he elaborated on the various streams of Civil Engineering where students can perform, and also about the content of project proposal and report. Head of the Department Er. Amit Shankar Ranjit and Deputy Head Er. Razim Ganesh shared the background information and procedures to be followed during the completion of the Project.







Faculty Training on GNSS Surveying, UAV Survey and Data Processing

23rd Asoj

The Department of Civil Engineering recently conducted a two-day faculty training program on the cutting-edge technologies of GNSS Surveying, UAV Survey, and Data Processing. The training took place on 21st and 22nd of Ashoj, 2080 and aimed to equip faculty members with the latest skills and knowledge in these fields.

The primary objective of this training program was to provide comprehensive insights into the world of GNSS Surveying, UAV Surveying, and the associated data processing techniques. On the first day of the program, participants delved into GNSS Surveying, learning about GNSS receivers, error identification in GNSS observations, correction techniques, data access, computation, and the diverse applications of GNSS technology. To enhance the learning experience, participants were taken to the field for practical demonstrations and hands-on experience in data collection and processing.

CE SELINE SHE

The second day of the training was dedicated to UAV Surveying and Data Processing. Faculty members were introduced to UAV surveys, encompassing aspects such as data collection, flight planning, output generation, and the myriad applications of UAV technology. The training also covered the data processing aspect, exploring various software tools that are pivotal in this field.

The training sessions were conducted by experts from Aviyaan Tech P. Ltd., a renowned technology company based in Kathmandu. Aviyaan Tech is well-known for its expertise in GNSS Surveying, UAV Surveying, and Data Processing, making them the perfect choice to lead this instructional program.

This training has equipped our faculty members with the latest techniques and skills in these emerging fields, enabling them to better prepare our students for the dynamic and technologically advanced civil engineering industry.



Seventh-Semester Civil Engineering Students Explore Hydroelectric Projects

26th Asoj

The Department of Civil Engineering recently organized a field trip for the seventh-semester students of the 2076



batch. This trip, held from the 23rd to the 26th of Ashoj in 2080, offered students a valuable hands-on experience in the field of hydropower engineering.

The tour was led by a team of experienced engineers, which included Er. Razim Ganesh, Er. Umesh Sukamani, Er. Shyam Sundar Basukala, Er. Saroj Phaiju, Er. Bibek Thapa, and Lab Assistant Amar Karmacharya. The main goal of this excursion was to bridge the gap between classroom theory and practical application,



giving students the opportunity to witness hydropower projects in different stages of construction and operation, thereby enhancing their understanding of the subject.

The tour began with a visit to the Sunkoshi Hydropower plant, a 10.5MW power generator operated by the Nepal Electricity Authority in Khadichour, Sunkoshi Rural Municipality. Er. Shiva Raj Timilsina and his team provided valuable insights into the mechanical components of the powerhouse. Students also had the privilege of exploring the civil engineering



aspects of the Sunkoshi Hydropower, including its headworks.

On the second day, students were taken to the impressive Upper Tamakoshi Hydropower Project, the largest hydropower project in Nepal, producing 456 MW of power. Er. Rajan Shivakoti guided the students through the various components of the project, offering a

close look at the scale and complexity of this remarkable engineering feat. On the same day, students visited the powerhouse of the Singati Hydropower project.

The third day of the excursion featured visits to several locations of historical and cultural significance in Dolakha district, including Jiri and the Dolakha Bhimsen Temple. These visits allowed students to immerse themselves in the rich heritage and history of the region while complementing their technical knowledge with cultural experiences.













Meetings with Keynote and Guest speakers

Asoj

Cordial meetings were held by steering committee with keynote speakers of ICT CEEL to discuss and create a collaborative environment with their respective institutions. Meeting with Prof. Kim and Mr. Kishore Tanikella was held on 12th October 2023. Likewise, meeting with Dr. Ashish Khanna was held on 13th October 2023.

During the meeting with Prof. Kim Hyeon-Tae, discussion was focused on research collaboration, sharing the ongoing research on Institute of Smart Farm by graduate students, external supervision to relevant projects of our students, especially related to smart farming, initiation of combined project, and scholarship possibility for student enrollment in Higher Degree Education in





Masters and PhD.

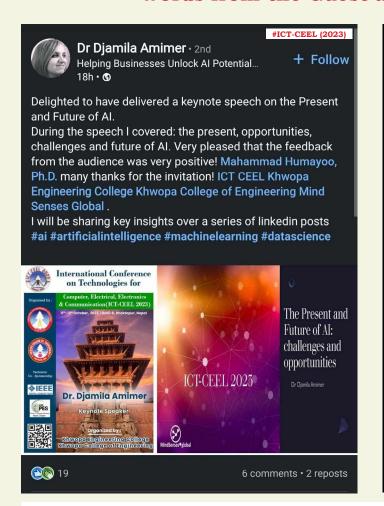
In the meeting with Mr. Kishore Tanikella, discussion focused on the feasibility of internship for our students at AMD Hyderabad, onsite visit, assistance to set up the FPGA lab in our college, training FPGA tools and external supervision for the student projects especially related Furthermore, Mr. FPGA. Tanikella mentioned that he would connect us to their University Relation Department for further collaboration and he also advised us to explore Cloud based FPGA service for the training.

Similarly, the meeting with Dr. Ashish Khanna was concentrated on feasibility of faculty exchange, college visit, possibility of Higher Degree Education for our students and assistance for the publication of research papers.





Words from the Guest about our Conference





"It was a real pleasure to interact again with the Civil Engineers of Nepal in this wonderful event. Congratulations to the organisers!"

- Prof. Dr. Humberto Varum Guest Speaker

#3rd ICEE-PDRP (2023)

It was great attending the conference. It was indeed a well-organized conference. Here is my experience of attending the conference in brief:

The conference was a huge success in terms of attendance, presentation, and organization. The conference theme was extremely well covered with key note addresses, guest talks, and paper presentations. It was encouraging to note that field personnel active in seismic disaster mitigation reconstruction, relief, and rehabilitation attended the conference. Another aspect that contributed to the conference's success was the discussions that followed each session. Indeed, the conference provided an excellent arena for debate on seismic hazard mitigation issues. The conference was well-organized, including the hospitality. I had a great time during the conference.

-Prof. Dr. TK Datta Guest Speaker



Khwopa Engineering College Libali, Bhaktapur-8, Contact No. +977-01-5122094, 5122098 Email:info@khec.edu.np, URL: www.khec.edu.np