



An Undertaking of Bhaktapur Municipality

Khwopa Engineering College

Affiliated to Purbanchal University

ASAR 2080

ISSUE 15

NEWSLETTER

Meeting between Faculties of Khwopa Engineering College and Delegates of AMD India, to Explore Future Collaboration in FPGA Technology



Er. Rabindra Phoju, Vice Principal, KhEC, along with Er. Yogesh Bajracharya, HOD, and Dr. Sarbagya Buddhacharya, with Mr. Sanjay Churiwala, Corporate Vice President of AMD India, accompanied by Mr. Dinesh Kumar and Mr. Suman Kumar Timmireddy, Directors at AMD.

10th Jestha

Er. Rabindra Phoju, Vice Principal, Khwopa Engineering College, along



Mr. Dinesh Kumar and Mr. Suman Kumar Timmireddy, Directors at AMD. The purpose of the meeting, which took place on May 24, 2023, was to explore potential collaboration opportunities, specifically in the field of Field Programmable Gate Arrays (FPGAs). FPGAs have become increasingly significant in research and development, offering great potential across various industries, including telecommunications,

with Er. Yogesh Bajracharya, Head of Department, and Dr. Sarbagya Buddhacharya, a faculty member from the Electronics and Communication Department, engaged in a meeting with Mr. Sanjay Churiwala, Corporate Vice President of AMD India, accompanied by



artificial intelligence, and data centers.



During the meeting, the Khwopa Engineering College faculty members also extended an invitation to the AMD team to participate in an upcoming international conference titled "International Conference on Technologies for Computer,

Electrical, Electronics and Communication (ICT-CEEL)." This conference is scheduled to be held from October 11 to 13, 2023. The AMD delegates expressed a keen interest in the possibility of taking part in this event. AMD, a renowned global leader in semiconductor technology, is widely recognized for its high-performance computing and visualization products. The company's commitment to driving innovation has led to significant contributions in areas such as CPUs, GPUs, and data center technologies, benefiting businesses and individuals worldwide. Exciting prospects lie ahead as Khwopa Engineering College and AMD India explore potential collaborations, with the aim of harnessing the capabilities of FPGAs and advancing technological breakthroughs.

Delivers Guest Lecture on Influence Line Diagrams in Bridge Design

2nd Jestha

The Department of Civil Engineering organized a guest lecture on an aspect of Bridge Engineering on 2 of Jestha, 2080 Er. Shakil Manandhar delivered the the lecture to BE Civil 4th semester 2077 Batch students, focused on the practical application of Influence Line Diagrams (ILDs) in bridge design.

Er. Shakil Manandhar, the Team Leader of Local Road Bridge Support Unit (LRBSU) explained on a necessity to understand ILDs and their significance in bridge design. His presentation shed light on theoretical concepts with real-world examples.

The lecture began with an introduction to Influence Line Diagrams, explaining their purpose as visual tools used to determine the maximum effects on structural

elements of a bridge, such as shear forces and bending moments. He emphasized the importance of ILDs in accurately assessing the bridge's performance under different loading conditions. He highlighted the significance of ILDs in optimizing bridge designs for maximum safety, efficiency, and cost-effectiveness.



Field Visit of EIA Elective Group

3rd Jestha

A field visit to Dhap Dam and Chisapani, Sindhupalchowk for the Elective-II (Environmental Impact Assessment) students was arranged by Department of Civil Engineering, Khwopa Engineering College on 3 Jestha 2080. It was especially organized for the BE civil 2075 batch Elective-II students.

The objective of the visit was to observe impact and mitigation measures adopted in Dhap Dam Water Storage Project and to

gain extra knowledge about observe impact and mitigation measures adopted in Dhap Dam Water Storage Project. The field visit was led by subject faculty Er. Razim Ganesh and Er. Shyam Sundar Basukala.

Dhap Dam is a Concrete Face Rock Fill Dam (CFRD) situated at around 2090m amsl. 12 lakh m³ reservoir capacity is covers 12 ha area to boost dry season flow in Bagmati River upto 400 lps during festivals.



Field Visit by Rock Engineering Elective Group

4th Jestha

Organized by the Department of Civil Engineering, BE Civil eighth semester students of Rock Engineering elective visited the Upper Trishuli 3B Hydropower Project on 3 and 4 Jestha 2080.

The Upper Trishuli 3B Hydropower Project is a 37 MW run-of-river hydropower project located in Rasuwa and Nuwakot. The hydropower is the cascade project of Upper Trishuli 3A of Nepal Electricity Authority. It is being developed by Trishuli Jal Vidhyut Company Limited (TJVCL), a joint venture of Nepal Electricity Authority (NEA) and Nepal Doorsanchar Company Limited (NDCL).

Site geologist Pramod Adhikari and Er. Rabindra Bhatta briefed various aspects of the project and explained about the method and process of tunnelling and slope stability methods. The students visited the surge shaft site, penstock tunnel, headrace tunnel, the powerhouse site, tailrace, and the approach canal site

which were under construction. They had a first-hand experience on method of tunnel excavation, support system, and other aspects of tunnelling which they had learnt theoretically in class. They also learnt about the challenges that the engineers faced in constructing the project, such as the difficult terrain and complex geology. The visit had given them a better understanding of the challenges and opportunities of hydropower development in Nepal.

The students also visited the powerhouse of Upper Trishuli 3A Hydropower Plant. The underground powerhouse was in operation at the time of visit and it helped students to have an idea on what the powerhouse site would look like once completed.

The visit was led by faculty members Dr. Subeg Man Bijukchhen and Nirmal Kafle.



Oratory Competition - 2080 Held at KhEC

4th Jestha

Khwopa Engineering College (KhEC), with the initiation of the Department of Science and Humanities, organized Oratory Competition-2080 on Jestha 05, 2080 as part of extracurricular activity. The competition was held entitled "Effects of Internet on Teaching-learning Activities" among the first semester students (Batch-2079). The number of participants in the competition was 20, representing Architecture, Civil Engineering, Computer Engineering, and Electronics, Communication and Automation Engineering programs run in the college.

The program was held in the college premises under the Chairmanship of Sr. Lecturer Arjun Kumar Gaire and in the valuable presence of Principal Er. Sujan Maka, and Vice Principal Er. Rabindra Phoju. A panel of three jurors -- Sr. Lecturer Naba

Raj Budhathoki, Sr. Lecturer Ar. Archana Bade Shrestha, and Sr. Lecturer Er. Bikash Chawal—concluded the competition with the following result:

First Position: Krishala Shrestha (Computer Engineering)

Second Position: Janaki Singh (Electronics, Communication and Automation Engineering)

Third Position: Kiran Dahal (Civil Engineering)

Consolation I: Rinchhen Lama (Civil Engineering)

Consolation II: Chandrawati Gupta (Civil Engineering)

In the program, Principal Er. Maka and Vice Principal Er. Phoju delivered their remarks, distributed prizes to the winners and presented tokens of love to the jury members. The program was run by Assoc. Prof. Dr. Phanindra Prasad Bhandari.



Students' Visit to Physical Modelling Site at Pulchowk

10th Jestha

The 2077 Batch (4th semester, BE Civil) students visited a physical modeling site dedicated to studying hydraulic structures at Hydro Lab Pvt. Ltd. at Pulchowk on 10 Jestha 2080. The visit aimed to highlight the significance of model studies, different types of similitudes, undistorted and distorted models, scale effects in model studies, and the application of model laws in open channels. The site showcased a range of scaled-down models replicating various hydraulic structures, such as dams, spillways, weirs, and channels.

During the visit, the students were introduced to the fundamental concept of model studies and their vital role in designing and evaluating hydraulic structures before their actual implementation. The experts from Hydro Lab explained that model studies provide engineers with invaluable insights into the behaviour of water flow, pressure distribution, and other hydraulic parameters, helping to optimize the design, improve efficiency, and ensure the safety of full-scale structures.

The students were introduced to the

types of similitude and the concept of undistorted and distorted models. Another important aspect covered during the visit was the scale effect in model studies. The experts emphasized that scaling down a hydraulic structure introduces certain complexities due to the differences in flow behaviour. The students gained insights into the challenges posed by scale effects and learned techniques to mitigate their impact through proper scaling laws and adjustments.

Lastly, the application of model laws in open channels was illustrated. The students were shown how hydraulic engineers utilize principles, such as Froude's law and Manning's equation to ensure accurate representation of open-channel flow in model studies. These laws, when appropriately applied, assist in determining the appropriate flow conditions and hydraulic parameters in scaled-down models.



Khwopa Engineering College Representatives Make an Impact at International Mathematics Conference, AMNS 2023

14th Jestha

Participants from Khwopa Engineering College, Dr. Phanindra Prasad Bhandari and Mr. Arjun Kumar



Gaire, recently attended the Third International Conference on Applications of Mathematics to Nonlinear Sciences (AMNS – 2023). The conference, held in Pokhara, Nepal, from 25th to 28th May 2023, aimed to provide a platform for scientists from various fields to discuss the applications of mathematics in natural and health sciences, engineering, and finance.

The conference was jointly organized by the Association of Nepalese Mathematicians in America (ANMA), Nepal Mathematical Society (NMS), the central department of mathematics at Tribhuvan University, and the department of mathematics at Kathmandu University. The conference was inaugurated by the Chief Minister of Gandaki Province, Mr. Surendra Raj Pandey, and addressed by prominent figures, such as Prof. Dr. Premnarayan Aryal, VC of Pokhara University, Ram Chandra Kafle, President of ANMA, and Prof. Dr. Narayan Prasad Pahari, President of NMS.



With participants from 21 different countries, the conference showcased its international prominence. The program featured four parallel sessions each day, covering various areas of mathematics and nonlinear sciences, including differential equations/nonlinear analysis, mathematical biology, probability, statistics, big data, algebra,

topology, mathematics education, and numerical analysis. Over 151 research papers, along with plenary talks and special invited talks, were presented

two scientific sessions.

During their visit, the participants had the opportunity to explore local places near the conference venue during



during the conference.

Dr. Phanindra Prasad Bhandari presented his research on "Maximum Flow on Lossy-network with Flow-dependent Loss Factors," which applied network flow problems to real-world scenarios. Mr. Arjun Kumar Gaire presented his paper on the "Ratio Exponentiated Log-Logistic Distribution," which introduced a new probability distribution and its application to real data sets. Additionally, Dr. Phanindra Prasad Bhandari chaired

the conference excursion, enjoying the breathtaking views of lakes and mountains in Pokhara.

Overall, the participants from Khwopa Engineering College found the conference to be highly beneficial for their research work, teaching strategies, and practical applications of mathematics in engineering. They believe that the knowledge and insights gained will greatly contribute to their academic endeavors.



Summer-Winter School (SWS) Course Offered by Imran Mansuri at CEPT University and Khwopa Engineering College Foster Collaboration for Bhaktapur Study

19th Jestha

In an effort to promote knowledge exchange and foster collaboration, the Department of Architecture, Khwopa Engineering College (KhEC), organized a



meeting between faculties and students from CEPT University as part of the Summer-Winter School (SWS) course and Khwopa Engineering College. The meeting took place on June 2, 2023, and aimed to establish a platform for interaction and cooperation between the students and faculties from two esteemed institutions.

The meeting, chaired by Ar. Archana Bade Shrestha, Head of the Department of Architecture, commenced with a warm welcome extended to the guests. The meeting was held in presence of Principal



Er. Sujan Maka, Principal Er. Sunil Duwal, and Vice Principal Er. Ratna Shova Prajapati from KhEC and KhCE, along with faculties from the Department of Architecture and MSc. in Urban Design and Conservation. Also present were students as part of the SWS course (Bachelor of Architecture, Bachelor of Urban Design, Bachelor of Design, and Master of Architecture) for the year 2023 summer and Professor Mr. Imran Mansuri, a Visiting Faculty from CEPT University.

During the session, Professor Imran Mansuri provided an update on the ongoing educational tour, which saw 23 students and Professor Mansuri himself embarking on a study trip to Bhaktapur City. The visit, scheduled from June 2nd to June 17th, 2023, is part of the SWS course "Deciphering the morphology of Bhaktapur" offered by Imran Mansuri, a visiting faculty at the Faculty of Planning, CEPT University, as part of the summer 2023 term. The first SWS conducted in the summer of the year 2022. This is the second consecutive summer course for the year 2023 offered at Bhaktapur as part of extending the study where students and faculty from Khwopa were instrumental in constructive brainstorming sessions



analyzing tangible and intangible layers of the city fabric.

Course link: <https://sws.cept.ac.in/course->



detail/deciphering-the-morphology-of-bhaktapur-kathmandu-valley-a-city-of-S23FP008

This collaborative endeavor involves students from both the 074 and 075 batches of the B. Architecture program, along with faculties from the Department of Architecture at Khwopa Engineering College, who have volunteered to contribute to the educational surveys and documentation process.

The study tour aims to deepen the understanding of Bhaktapur's architectural and urban landscape. The focus of the exercise revolves around deciphering the various layers associated with the city's public spaces, building typologies, and their relationship to the urban sector's street networks and overall character.



During the meeting, Er. Sujan Maka, Principal of Khwopa Engineering College, expressed his commitment to providing the necessary support to the students throughout their educational surveys and documentation process.

The productive session concluded with a token of love exchanged between the team of faculty and students of the SWS course from CEPT University and Khwopa Engineering College, symbolizing the strengthening bond and mutual respect between the students from the two institutions. Following the meeting, the



students and attendees engaged in an informal interaction, accompanied by refreshments, further fostering a sense of camaraderie and shared learning.



Successful Meeting Sets the Stage for Collaboration between KhEC, KhCE and Curtin University

21st Jestha

On June 4, 2023, Khwopa Engineering College (KhEC) and Khwopa College of Engineering (KhCE) jointly welcomed esteemed guest Abhijit Mukherjee, Dean of International South Asia and Professor of Civil Engineering at Curtin University, Perth, Australia. The meeting, organized by Anant Poudel from the Association of Nepalese Alumni from Australia, proved to be a significant step towards fostering collaboration between the two institutions.



The event was hosted by Er. Sujan Maka, Principal of Khwopa Engineering College, and Sunil Duwal, Principal of Khwopa College of Engineering. They were joined by Ratna Shova Prajapati, Vice-Principal of Khwopa College of Engineering, Dr. Manjip Shakya, Head of the PG Department of Earthquake Engineering, and Dr. Subeg Man Bijukchhen, Coordinator of the Research and Development Unit. The meeting began with a warm welcome from the principals, who expressed their delight upon having Prof. Mukherjee at their college. Subsequently, the representatives

introduced their respective institutions, providing a comprehensive overview of the colleges and universities to foster mutual understanding and knowledge sharing. Prof. Mukherjee shed light on the purpose of his visit to Nepal, emphasizing the significance of collaboration and exchange of ideas between Curtin University and Khwopa Engineering College.



He highlighted the potential areas of collaboration between the institutions, including joint research initiatives, faculty exchange programs, and the sharing of academic resources.

During the discussions, the participants explored avenues for collaboration and exchanged ideas on how to strengthen ties between the institutions. The meeting proved to be highly successful in laying the foundation for future collaboration, fostering a sense of mutual cooperation and shared goals.

Following the productive meeting, Mr. Mukherjee engaged in an interactive session with the students, particularly

those specializing in earthquake engineering. He shared his expertise, experiences, and insights, inspiring the students and providing them with valuable perspectives on the field.

The Principals and faculty members expressed their gratitude to Prof.



Mukherjee for his visit and extended their appreciation to the Association of Nepalese Alumni from Australia for coordinating the successful meeting. With this positive momentum, both institutions look forward to a future filled with fruitful collaboration, innovation, and academic excellence.



Participation in the program organized by Purbanchal University

21st Jestha

A team led by Principal Er. Sujan Maka has participated in the program organized by the Exam Management Unit, Purbanchal University on 21st of Jestha, 2080. The event was organized for all the affiliated colleges within Kathmandu Valley offering academic programs in Engineering and Science and Technology streams. The program titled “Orientation on University Examination System” was held at Silkroad International College, Kathmandu.

A day-long program was focused on the dissemination of the information on entire process in examination system and for the discussion accordingly. The orientation program was divided into three sessions and the chaired by the controller of the Exam Management office Balendu Hamal. Vice-Chancellor of Purbanchal University, Professor Yadab Prasad Koirala inaugurated the program. In the morning session, Vice-Chancellor Professor Yadab Prasad Koirala and the other personnel/officials from the University, Exam Office and affiliated colleges expressed their opinions and recommendations on examination system of Purbanchal University. The first session

was closed by Exam Controller Balendu Hamal. Information on examination system was shared through presentations by Mr. Rajkumar Sapkota, Mr. Binay Bhattarai and Ms. Menuka Shrestha. Mr. Sapkota introduced the Act and Rules of Purbanchal University, Rules on Examination System and other relevant rules and responsibilities of different committees formed to run examinations and recruit the personnel within the University. Mr. Binay Bhattarai presented the “Pre-examination Management Process” which starts from publishing of exam schedules to commencement of exam. “Post-examination Management Process” was discussed by Ms. Menuka Shrestha thereafter. In the last session, all relevant issues were discussed and different queries were put forward from the floor, which was addressed by the Controller Mr. Balendu Hamal before the program was concluded. Vice-Principal Er. Rabindra Phonju, along with Head of Exam Section Er. Ganesh Ram Dhonju, Administration Section Head Mr. Siddi Ram Suwal and Head of Civil Engineering Department Amit Shankar Ranjit attended the program.

Library Trainees Gain Insights and Inspiration During their Visit to Khwopa Library

22nd Jestha

Khwopa Library recently played host to a group of enthusiastic trainees as part of their Library Management and Information Science training program. Organized by the Library Management and Information Service



opportunities for college librarians, highlighting the importance of continuous professional development. During the visit, Parbati Nepal, Vice-president of the Library Management and Information Service Center (LIMISEC) and Coordinator of the training, expressed her



Center (LIMISEC), this three-month training aimed to equip aspiring librarians with the necessary skills and knowledge to excel in the field.

On 22 Jestha 2080 B.S., the trainees were welcomed to Khwopa by Sujan Maka, the Principal of Khwopa Engineering College, and Sunil Duwal, the Principal of Khwopa College of Engineering. vPrincipal Maka emphasized the significance of such visits as platforms for sharing knowledge and experiences. He extended a warm invitation to the trainees to join Khwopa Library as interns, recognizing the immense value of practical experience in shaping future librarians. Additionally, Maka expressed hearty gratitude to the organizing institution for their efforts in providing training

gratitude for the opportunity to visit the college library. She shared her joy in witnessing how Khwopa Library, managed by her former students, has flourished and become a well-managed institution.

Jastara Koju, the Head of the Library Section at Khwopa Engineering College and Khwopa College of Engineering, took charge of welcoming the trainees and providing them with guidance throughout their visit. The library staff members eagerly shared their experiences and knowledge with the trainees. This exchange of insights served to inspire the aspiring librarians, giving them a glimpse into the practical aspects of library management and the importance of creating an enriching library environment.



Guest Lecture in Rubber Science

24th Jestha

The department of Science and Humanities of the college arranged a guest lecture on 24 Baishakh 2080. Mr. Tilak Bhandari, a rubber scientist and former Member Secretary (NRNA), was the guest speaker to deliver the lecture in rubber science. He highlighted the uses of rubber in different areas, including civil engineering as a viable construction material, the

who were eventually found to be inspired by the lecture to explore more on relevance of rubber to civil engineering during their course of study. Er. Sujan Maka, the Principal; Er. Rabindra Phoju, the Vice Principal and faculty members of the college were also present in the lecture. Principal Maka delivered a vote of thanks



history of natural rubber in Nepal, and the issues and problems of using rubber. The target group of the lecture was students of civil engineering (Batch 2079)

and presented a token of love to the guest lecturer.



"CEPT University Students Showcase Bhaktapur Morphology Study at Khwopa Engineering College Exhibition"

25th Jestha

On June 8, 2023, students from



CEPT University captivated the audience with their exceptional works at Khwopa Engineering College. The exhibition marked the culmination of their study on Bhaktapur morphology, which was part of the SWS program facilitated by visiting faculty Imran Mansuri from CEPT University's Faculty of Planning.

The Department of Architecture at Khwopa Engineering College played a crucial role in supporting the students' endeavors. They guided the students through various sites, facilitated access to residences, and fostered connections with local residents. During the exhibition, the students presented their findings, showcasing raw

measured drawings, sketches, and surveys. The platform provided an opportunity for them to share their ideas, work procedures, and valuable experiences with the audience. The session concluded with closing remarks from Ar. Archana Bade Shrestha, representing Khwopa Engineering College. Expressing gratitude for the opportunity, she extended an invitation for future collaborations. As a token of appreciation, she presented Professor Imran Mansuri with the book "Urban Residential Neighborhoods of Kathmandu Valley."



This publication features the study work conducted by the faculties and students of Khwopa Engineering College, underscoring their dedication and expertise in the field.



International Conference on Technologies for Computer, Electrical, Electronics & Communication (ICT-CEEL 2023)

October 11th-13th, 2023



Call for Papers

Topics

Computer Science and Engineering

- Computer Vision and Image Analysis
- Big Data and Cloud Computing
- Computer Networks and Communication
- Artificial Intelligence and Machine Learning
- Human-Computer Interaction
- Theoretical Computer Science
- Data Structures, Algorithms and Optimization Technique
- Network and Cybersecurity
- Data Mining and Knowledge Engineering
- Game Theory
- Quantum Computing
- Virtual, Augmented, and Mixed Reality
- Natural Language Processing
- Blockchain Technology

Electronics and Communication

- Communication System
- Digital Signal Processing
- Antennas, Microwave and Propagations
- Remote Sensing and Applications
- Electronics Circuit & Control
- Bioinformatics
- Robotics and Industrial Automation
- Plasma and Nano Technology
- IOT and Embedded System
- Quantum Communication
- Agro-electronics

Electrical Engineering

- Smart Grid Monitoring
- Electrical Vehicles and Charging Station
- Distributed Generation System
- Challenges of Autonomous Power Supply
- Green Energy
- Power Electronics and Converters/ Drives and Controls
- Power System Dynamics and Reliability
- Power Generation, Transmission, Distribution and Energy Storage
- Energy Mix and Optimization
- Waste to Energy

Key Dates

Paper Submission : 30th June 2023

Acceptance date : 15th August 2023

Camera Ready Paper : 15th September 2023



Scan Me



<https://ictceel.khwopaconference.com>



ictceel@gmail.com, ictceel@khec.edu.np



+977-9844059625, +977-982363398

Organized by



Technical Co - Sponsorship



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

(3rd ICEE-PDRP 2023), 17th-19th Oct 2023



Call for Papers

Themes

- Engineering Seismology
- Geotechnical Earthquake Engineering
- Assessment, Analysis, and Retrofitting of Structures
- Analysis, Design, and Design Criteria of Structures
- Non-structural Components
- Damage, Vulnerability, and Risk Assessment
- Dynamic Characterization and Structure Health Monitoring
- Infrastructure and Lifeline Systems
- Social, Cultural and Economic Aspects
- Lesson Learnt from Past Earthquakes
- Temporary Shelter
- Reconstruction Issues in Historic Towns
- Reconstruction Issues in Urban Settlement
- Information Management in Pre and Post Disaster Scenes
- Open space/ Evacuation space-Use and Planning
- Communities and Relief works
- Stake holders and Partnership in Reconstruction
- Government Policies and Strategies
- Relocation/ Regeneration/ Settlement Planning
- Conservation and Restoration of Heritage Structures
- Disaster Risk Management of Heritage Sites
- Integration of DRR into Urban Design and Planning
- Incentives for Disaster Resilient Reconstruction
- Earthquake Disaster Risk Mitigation
- Reconstruction Issues in Rural Areas
- Reconstruction and Resource Management
- Human Behaviour of Affected Individual and Community in Disaster Situations

Key Dates

Abstract Submission : 15th June 2023

Notification of Acceptance date : 30th June 2023

Camera Ready Paper : 15th September 2023

Early Bird Registration 15th September 2023



Scan Me



www.icee-pdrp.khwopaconference.com



iceepdrp2023@gmail.com

Organized by



**An awareness class on Brain Stroke by Dr. Naresh Kharbuja,
Neurologist, MBBS, MD (Internal Medicine)**



Khwopa Engineering College

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

