



An Undertaking of Bhaktapur Municipality

# Khwopa Engineering College

Affiliated to Purbanchal University

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NEWSLETTER

## Commencement of One-Day National Conference on Trends in Architecture



Mr. Sunil Prajapati, Mayor, Bhaktapur Municipality.

### 9<sup>th</sup> Baisakh

One Day National Conference on Trends in Architecture – Nepal, jointly organized by Khwopa Engineering College and Khwopa College of Engineering, has been inaugurated by Mayor of Bhaktapur Municipality Sunil Prajapati, the Chairman of Management Committee and Chairman of main committee of National Conference on Trends in Architecture – Nepal.

Wishing a success of the conference, Mayor Prajapati stated that Bhaktapur Municipality is affluent with respect to architecture though it is small by area. He stressed that arts and architectures constructed at the time of our ancestors, when there were no competent engineers and architects exactly like those at present, have lasted for hundreds of years, and this fact is an incomparable example of the skills and qualifications of our ancestors. He

added while the reconstruction of the heritage of Kathmandu and Lalitpur is happening with foreign aid, there hasn't been any foreign aid in construction and reconstruction of any heritage of Bhaktapur, which is ever self-reliant. Mayor Prajapati said " We have denied foreign donation equivalent to 1 arb 20 crore rupees. We continued construction on our own. Local Kaligadh and labours did all reconstruction of heritage. Competence Kaligadh of Bhaktapur contributed to reconstruction of heritages of Kathmandu and Lalitpur as well. Hence, Bhaktapur has become Khwopa Model upon working based on its own capacity."

He informed that people tend to go for modernity; therefore, donation has been managed to promote the use of traditional style along with the use of modern style in the structure, and the interest of whole Bhaktapur

has been prioritized rather than of one or two individuals.

Mayor Prajapati pointed out lawlessness is rampant today in the country in all the three levels- centre, state and local. He raised the context of national newspaper, not giving positive news, but only giving negative news. He opined that bad work spreads like current electricity but good work spreads slowly. In the meantime, he noted that sanitation campaign beginning from 2039 BS, establishment of Khwopa HSS in 2056 B.S., and establishment of Engineering College and Nursing College with initiation of representatives of Nepal Workers and Peasants Party have greatly helped to vitalize the academic and technical fields. Stating that scholarship amounting to 15 crore rupees was distributed last year alone, he urged all in general to develop the sentiment of making their own respective places and engineers and architects in particular to contribute technically to the development efforts in the same manner. While noting Bhaktapur municipality has been doing development, construction and reconstruction with the involvement of local people and through consumers' committee, he affirmed the policy of capitalist government of sending the youth to foreign countries and giving development work in contract is a mistake

Similarly, Mayor Prajapati elucidated that a member of a party voting for another party is just a political anarchy; alliance of a party



Ar. Rajani Joshi, Deputy Mayor, Bhaktapur Municipality.

in government to defeat opposition party is merely politics of division of spoils, and this would lead state to bankruptcy. If they are set to do so, it is not necessary to spend billions of rupees for conducting elections. An election is in fact a battle of principle and ideology; therefore, we partake in election, he argued. Deputy Mayor of Bhaktapur Municipality Rajani Joshi, Vice-chairman of College Management Committee, was keynote speaker of the national conference in which Ar. Rabina Shilpakar shed light on the objective of it.

Architects from around the country would present 15 papers in total in the conference to be completed in four sessions. Conclusive remarks was delivered by vice principal Er. Rabindra Phoju.



Distinguished guest and participants in the conference.

## Participation in Exhibition on the Occasion of Space Day 2022

### 30<sup>th</sup> Chaitra

One day exhibition on the occasion of “SPACE DAY 2022” was organized jointly by NAST and Antarikshya at Mahendra Bhawan, Naxal on April 12, 2022.

Khwopa Engineering College (KhEC) participated in the exhibition with a team of 11 students. The team consist of Anup Shrestha, Avishek Luitel, Bobby Maka, Gaurav Tamakhu, Kripesh Shrestha, Manisha Adhikari, Manita Dangol, Prasanna Dahal, Rajan Shrestha and Subin Shrestha. Three projects were exhibited in the exhibition entitled “Application of object detection (YOLO)” with its three different applications: Number-Plate Recognition System, Animal Intrusion Detection and Repellent System, Adaptive Traffic Light Control System.

The Number Plate Recognition System reads the number plates of the vehicles in the

parking using the surveillance camera and saves the extracted number plate data on a database. The Animal Intrusion Detection and Repellent System detects animal intrusion in the specified area and repel the detected animals. The Adaptive Traffic Light Control System controls traffic lights on the basis of real-time traffic.

On the same occasion, different projects related to space, machine learning and deep learning were exhibited by students from different colleges, and panel discussions were organized on three different topics: Space Policy, Planning & Funding; Women in STEM and In House Manufacturing Capacity Building.



KhEC Students participating at the exhibition.

# Khwopa Engineering College Wins First position in Bagmati Provincial Level "CODEFEST-2022"

7<sup>th</sup> Baisakh

The team of Computer Engineering students Nista Shakya, Maulik Basnet, Prasamsha Bakhrel, and Sajan Khadka were the winners among the other four winners from Bagmati Pradesh in Provincial Level "CODEFEST-2022" event organized by Code for Change (CFC) at King's College, Babarmahal Kathmandu on April 16<sup>th</sup> and 17<sup>th</sup> 2022. They will be participating in the National Level HACKATHON CODEFEST-2022 where they will be competing against winners from other six provinces.

The main theme of the event was to transform ideas into reality. The first part of the event was IDEATHON in which 85+ teams and 350+ members participated. Four teams of students from Khwopa Engineering College took part in the event. Two teams from Electronics and Communication Faculty comprising Manjil Raut, Mohan Lal Shrestha, Sameer Rawal, Sujan Gyapak (Project title: "E-Waste Management System") and Prasanna Man

Topi, Rabi Basukala, Srizan Koju, Suraj Shilpakar (Project title "Digitalized Fare Collection") marked their presence in the event. Similarly, two teams from the Computer Engineering comprising students Abiral Khadka, Rohan Kiju, Sangam Thapa, Sujan Khusu with project title "Smart Move" and Nista Shakya, Maulik Basnet, Prasamsha Bakhrel, Sajan Khadka with their project titled "Ushakal", presented their ideas in the event.

Shuvam Karn (a Student from Electronics and Communication Department) volunteered in the event as a member of the event organizing committee.

The event was organized with an aim to bring students forward from different parts of the country with their ideas. Experts from different fields provided their feedback and praised the participants for their ideas. We extend our best wishes to the winning team for the National Level of CODEFEST-2022.



Winner in the Bagmati Province Level "CODEFEST -2022"

## Talk Program to Mark "Gorkha Earthquake-2015".

12<sup>th</sup> Baisakh

Khwopa Engineering College (KhEC) and Khwopa College of Engineering (KhCE) jointly organized a "Talk Program" on 25<sup>th</sup> April 2022 to mark the devastating "Gorkha Earthquake-2015".

Er. Sujan Maka, Principal, KhEC explained different activities performed by Bhaktapur Municipality and Colleges after the "Gorkha Earthquake-2015". Also, he urged faculties of the colleges to prepare for the "Third International Conference on Earthquake Engineering & Post Disaster Reconstruction Planning (3rd ICEE-PDRP)" to be organized in 2023 A.D.

Er. Sunil Duwal, KhCE congratulated Assoc. Prof. Chandra Kiran Kawan for completing his PhD degree. Er. Duwal motivated faculties of the colleges for their higher education and assured for necessary support from the college management.

On the program, Assoc. Prof. Chandra Kiran Kawan (PhD) presented on "Seismic Performance of the multi-tiered temples of Nepal". Assoc. Prof. Manjip Shakya (PhD) and Senior Lecturer, Subeg Man Bijukchhen (PhD), also shed light on different aspects of earthquakes during the program.



Assoc. Prof. Chandra Kiran Kawan, PhD.



Principal Er. Sujan Maka and faculty members in the talk program.

# Participation on Inter-College Basketball & All Nepal Archi Football Tournament

## 13<sup>th</sup> Baisakh

Students of Architecture Department, Khwopa Engineering College (KhEC) participated the Inter-college Basketball Tournament (female) and All Nepal Archi Football Tournament (male) organized by Kathmandu University (KU) Architecture Club from 11th to 13th of Baishakh 2079.

KU team won against KhEC in the first match on basketball held on 11th Baishakh with 16 - 6 points. Krisaha Thapa, Smarika Thapa and Mina Shrestha scored 2 points

each for KhEC on the match. Mina Shrestha, Aliza Shrestha, Bandika Awa, Krisha Thapa, Lasata Bajrachrya, Smarika Thapa, Arati Singh and Leeja Manandhar participated on the basketball tournament.

Prakash K.C., Niranjana K.C., Niken Maharjan, Kritan Prajapati, Sabal Hang Rai, Suraj Gwachha, Roman Thapa Magar, Ashim Lama, Atul Kusma and Pradeep Thapa participated on the all nepal Archi football tournament. Altogether 7 colleges participated on the tournaments.



## Field Visit in NTC Babarmahal

14<sup>th</sup> Baisakh

The Department of Electronics and Communication organized Wireless and Telecommunication field excursions for eighth semester (2074 Batch) students on 14<sup>th</sup> Baisakh in NTC Babarmahal. The field visit was led by Er. Ganesh Ram Dhonju and Er Naresh Khatri corresponding subject teachers of Wireless Communication and Telecommunication. The field visit was about the study of present techniques and technology of wireless communication used in our country. The main objective of this visit was to visualize the actual working mechanism of wireless communication that was studied in the subject course.

The students visited the BTS (Base Transceiver System) located on the top of the building. A base transceiver station (BTS) is a piece of equipment that facilitates wireless

communication between a mobile station (MS) and a network. It sends and receives radio signals to mobile devices and converts them to digital signals that it passes on the network to route to other terminals in the network or to the Internet. It contains the equipment for transmitting and receiving radio signals (transceivers), antennas, and equipment for encrypting and decrypting communications with the Base Station Controller (BSC). BTS receives the RF signals and converts them into baseband signals and forwards them to BSC. From this field visit, students have become able to visualize how wireless communication works, technological transformation and enhancement in communication, future development (5G Network) etc. Overall, the visit was successfully completed fulfilling its objectives.



Students at NTC Babarmahal.



Students with the subject faculty at NTC Babarmahal.

## Orientation Program for Newly Admitted Students of Civil Engineering 2078 Batch

15<sup>th</sup> Baisakh

On 15 Baisakh 2079, the newly admitted students at Khwopa Engineering College (KhEC) were presented with several different orientation and motivation programs and activities. Students of four different engineering programs were provided with different but program suited activities to closely and specifically



Newly Admitted students at orientation program.

inspire them in their academic ventures. The Department of Science and Humanities and the Department of Civil Engineering were especially engaged in a program followed by several activities with the newly admitted students of Civil Engineering in the presence of the Principal of KhEC Er. Sujan Maka and two guest expert speakers, namely Prof. Dr. Raju Khanal and Senior Er. Jagadishwar Man Shrestha. The guest speakers presented inspiring and orientating talks respectively to put the students into a prepared and grasping mood before they really sit for lectures in the classroom. The curious students present in the program were presented with field-specific facts and matters to tackle tricky situations in a future academic and professional careers as well as lessons for life living in a society. Connections of science and engineering, and engineering career and societal life were elucidated in the talks persuading the students to see and observe objects and events with a research mind of engineering students.

The Principal of KhEC Er. Sujan Maka delivered a brief history of KhEC and other colleges in Khwopa Circle and the efforts on their part for the sake of people and nation, welcoming and orientating the newly admitted students to college family and college environment. In the program Er. Amit Shankar Ranjit,

Head, Department of Civil Engineering, congratulated the students for being successfully admitted in the college and inspired them into pursuing study in civil engineering. While emceeding the program senior lecturer Naba Raj Budhathoki, Head, Department of science and Humanities, welcomed the students to the college and briefed them about the subjects they have to study in the first semester.

The orientation was further extended for several days, even after formal program. Second day was marked by the orientation provided by Prof. Raju Bhai Tyata who highlighted relevance of pure sciences like physics, maths, etc, in Civil Engineering. Third day, Dr. Ranjan Kumar Dahal, gave motivational and orientating talk to the students elucidating the connection between geological knowledge and civil engineering study.

Fourth day and fifth day, students were given valuable information about exam system and other university related information by Er. Ganesh Ram Dhonju, Head, Exam Section. Similarly, Chief of Administration Section Siddhi Ram Suwal, Head of Account Section Kaji Bdr Pancha, Head of Store Section Rajan Jati and Head of Library Section Jastara Koju informed the students about the respective sections to facilitate the students to receive services from them.



Prof. Dr. Raju Khanal, Guest speaker.



Er. Jagadishwar Man Shrestha, Guest Speaker.



# Orientation Program for B. Architecture 2078 Batch

15<sup>th</sup> Baisakh

A formal orientation program for the new batch of 2078 B.S. (Department of Architecture) was held on 15th Baisakh, 2079, in Hall No. 2 of Khwopa Engineering College, conducted by Senior Lecturer Robina Manandhar. The opening address was given by the Head of the Department, Senior Lecturer Rijina Bajracharya, followed by a brief presentation on the department and departmental activities by Lecturer Rashish Lal Shrestha. This was then followed by a brief introduction to the different departments by respective heads of the section, namely, Mr. Kaji Bahadur Pancha (Head, Accounts Section), Mr. Rajan Jati (Head, Store Section), Mr. Ganesh Ram Dhonju (Head, Examination Section) and Mrs. Jasatara Koju (Head, Library Section).

First Session- The second day of orientation week, 16th Baisakh 2079, for the new batch of 2078 B.S. (Department of Architecture) started with the "Motivational cum Experience Sharing" session in Hall No. 2 of Khwopa Engineering College, conducted by Senior Lecturer Sushma Bajracharya in two sessions. Ar. Ashok Krishna Sainju was invited for the presentation in the first session. The presenter shared essential tips, for the fresh batch of architecture students, to excel in their architecture studies and further in their professional journey. Further, he discussed the scopes of Architecture.

Second Session- The second session began with a presentation from alumni of khwopa engineering college – Ar. Shreejan Mushyaju (2071 batch) and Ar. Sujan Sahukhala (2069 batch) who are currently involved in professional practice. Both of them shared their experiences and journey while studying architecture along with a few architectural hacks and tips to prepare newcomers physically and mentally. They also motivated students to explore and challenge themselves to keep learning by displaying their academic and



Er. Ganesh Ram Dhonju, Head, Exam Section.

professional projects. Whether it be the winning story of the Asian Paints competition project or the partial implementation of the thesis project in real life with few more expectations vs reality experiences in the professional field, their overall impact to welcome newcomers to this school of architecture was impeccable.

The sessions were concluded with the interaction between the presenters and the students. The Presenters were felicitated with a letter of appreciation for their inspirational presentation at the end of the sessions.



Kaji Bahadur Pancha, Head, Account Section.



Newly admitted Architecture students in orientation program.

# Orientation Program for BE Computer & BE Electronics, Communication And Automation 2078 Batch



Er. Muni Bahadur Shakya, Guest Speaker.

## 15<sup>th</sup> Baisakh

Computer Engineering Department and Electronics & Communication Engineering Department jointly organized Welcome and Orientation Program on Thursday, April 28, 2022 at Khwopa Engineering College (KhEC). Vice-principal Er. Rabindra Phojju welcomed students at KhEC and introduced the college to them. Mr. Phojju shed light on the objectives of establishing the college to newly admitted students at the college.

Er. Muni Bahadur Shakya, the Guest Speaker, shared his experiences and extended his precious knowledge to the new comer students. Er. Shakya programmed first computer capable

of reading "Devanagari" & developed low energy desktops applicable in telemedicine. Er. Shakya's contributions are manifold.

Er. Bikash Chawal, Head of Computer Engineering Department, and Er. Yogesh Bajracharya, Head of Electronics & Communication Engineering Department welcomed new comer students and shared teaching learning practice at the college.

Students from 51 districts with the new students admitted in the college for BE/BArch program in Academic Year 2078/79 were inspired by series of orientation programs organized at the college.



Department faculty members with new students at the orientation program

## Talk Program on 133<sup>rd</sup> May Day

18<sup>th</sup> Baisakh

Khwopa Engineering College (KhEC) and Khwopa College of Engineering (KhCE) jointly organized "Talk Program" on 1<sup>st</sup> May, 2022 to mark 133<sup>rd</sup> May Day.

Er. Sujan Maka, Principal of KhEC, extended warm wishes to the faculties and staff of the colleges on the occasion of the May Day. He acknowledged different historic labor movements. He urged faculties to educate the students to respect physical labor.



Er. Sujan Maka, Principal, KhEC.

Er. Sunil Duwal, Principal of KhCE, explained the achievements of historical labor movements and linked them with facilities entertaining by labors at present all around the world.

Er. Ratna Shova Prajapati, Vice-principal of KhCE, Prof. Dr. Raju Bhai Tyata, Er. Umesh Sukamani, Mr. Siddi Ram Suwal shed light on different aspects of labor movements and current situation of labors.



Er. Sunil Duwal, Principal, KhCE.

## German Students at KhEC

18<sup>th</sup> Baisakh

Khwopa Engineering College (KhEC) organized one day interaction program between the students and professors of Leonardo Campus, Munster University, Germany and the Post Graduate Department of Urban Design and Conservation on the topic entitled "Planning Principle of Traditional Town of Kathmandu Valley".

Prof. Dr. Mohan Moorti Pant, Ar. Biresh Shah



Guest with KhEC faculty members.

and Ar. Libas Phaiju highlighted the importance and the salient features of Traditional Town and the reasons behind the discontinuation of Historical precedents on contemporary settlement although its proximity with the traditional one.

Prof. Martin Weischer also presented about the contemporary planning of German cities. The students of both the colleges got opportunity to exchange knowledge with each other.



Guest at interaction with KhEC faculty members.

## Vice -Chancellor and Controller of PU at KhEC

19<sup>th</sup> Baisakh

Prof. Dr. Yadav Raj Koirala, Vice-Chancellor and Prof. Mohan Bahadur Basnet, Controller, Examination Division, Purbanchal University visited Khwopa Engineering College (KhEC) on 20 Baisakh, 2079.

At a meeting with Principals and Vice-Principals of KhEC and KhCE, and other faculty members, VC Koirala

informed about various plans and policies of the Purbanchal University to strengthen both constituent and affiliated colleges. Impressed with the performance of the Khwopa Engineering College, he said, "Bhaktapur Municipality pioneered establishing higher education, and other local governments should follow her footsteps" Similarly, Controller Basnet informed about the various efforts of the Examination Division Office to follow academic calendar of the University strictly.

Er. Sujan Maka, Principal, KhEC, and Er. Sunil Duwal, Principal, KhCE, welcomed distinguished guests at college. Principal Maka shed light on various issues of students studying at affiliated colleges. Er. Rabindra Phojju, Vice-Principal, KhEC elucidated on issues of academic calendar, Er. Ganesh Ram Dhonju explained the issues related to question setting, copy checking, other issues regarding examination. Also, Associate Prof. Dr. Manjip Shakya, elicited to distinguished guests on various academic practices executed at the college.



Vice Chancellor and Controller with KhEC family.

## Khwopa eLibrary Launched

19<sup>th</sup> Baisakh

Khwopa Engineering College (KhEC) and Khwopa College of Engineering (KhCE) launched Khwopa eLibrary. Khwopa eLibrary contains bulletins, newsletters, conference proceeding, project reports, thesis, and other

resources. The Khwopa eLibrary was developed to make it possible to read, summarize, and cite electronic versions of editions.

One can visit the Khwopa eLibrary developed in Dspace software through:  
<https://elibrary.khec.edu.np>



Participation of Er. Ganesh Ram Dhonju, Head, Exam Section, on "Engineering Symposium 2022", Organized by Faculty of Engineering, Purbanchal University at Aagantuk Resort, Dhulikhel, on 30<sup>th</sup> April and 1<sup>st</sup> May 2022.

# Hearty Congratulations !



Khwopa Engineering College (KhEC) extends hearty congratulations to **Er. Santosh Katuwal** (ME EQ. 2018 Batch) for achieving "**Late Dilli Bahadur Adhikari Gold Medal**" for being "IT and Engineering Topper" and "**Narayan Prasad Koirala Gold Medal**" for being "Master's Level Topper" at the 10<sup>th</sup> Convocation of Purbanchal University held on 17<sup>th</sup> April 2022.

**Best wishes in your future endeavors !**



*Undertaking of Bhaktapur Municipality*

## **Khwopa Engineering College**

*Affiliated to Purbanchal University*

**Libali, Bhaktapur-8, Contact No. 01-5122094, 5122098**

**Email:- [info@khec.edu.np](mailto:info@khec.edu.np)**

**Website:- [khec.edu.np](http://khec.edu.np)**

# Glimpses of National Conference on Trends in Architecture

