



An Undertaking of Bhaktapur Municipality

Khwopa Engineering College

Affiliated to Purbanchal University

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NEWSLETTER

Inauguration of International Workshop on Cold Plasma and Pulse Power Technologies (COFHA-2025)



7th Poush

The International Workshop on Cold Plasma and Pulse Power Technologies for Food, Health, and Agriculture (COFHA-2025) was inaugurated today at Bhaktapur. The two-day international workshop is jointly organized by the Central Department of Physics, Tribhuvan University; the Department of Physics, Kathmandu University School of Science; Khwopa Engineering College; and Khwopa College of Engineering.

The inaugural session was formally opened by the Chief Guest, Mr. Prem Suwal, Secretary of the Nepal Workers and Peasants' Party and Founding Chairman of

Khwopa Engineering Colleges. Addressing the gathering, he warmly welcomed national and international delegates, keynote speakers, researchers, professors, and students participating in the workshop. He expressed his best wishes for the grand success of the program and emphasized the importance of organizing international academic forums that



encourage scientific inquiry, research collaboration, and knowledge exchange among young scientists and engineers.

MP. Suwal expressed confidence that the workshop would significantly contribute to enhancing students' interest in physics and emerging technologies, particularly in interdisciplinary areas such as food processing, agriculture, health, and



sustainable development. He appreciated the efforts of the organizing institutions for hosting an international-level academic event in Bhaktapur.

Similarly, Chairman of the Inaugural Program and Mayor of Bhaktapur Municipality, Mr. Sunil Prajapati, highlighted the importance of research-oriented academic activities in



higher education. He stated that Bhaktapur Municipality has been consistently supporting colleges under its jurisdiction by allocating resources for research and academic development. He expressed hope that the deliberations and research discussions during the workshop would contribute meaningfully to innovation in agriculture, food technology, and health sciences.

Coordinator of the Organizing Committee, Prof. Dr. Raju Khanal, shed light on the objectives of organizing COFHA-2025 and emphasized the growing relevance of cold plasma and Pulse power technologies in multidisciplinary research. He noted that collaboration with community-based institutions



such as Khwopa Engineering College and Khwopa College of Engineering made the organization of the workshop effective and impactful.

Speaking at the program, Principal of Khwopa Engineering College, Er. Sujan Maka, stated that the Khwopa academic circle has played a pioneering role in the development of community-based higher

education in Nepal. He added that Khwopa Engineering College, affiliated with Purbanchal University, has established itself as one of the leading affiliated colleges through academic excellence, research activities, and international collaboration.

The workshop features keynote, plenary, invited, and contributed presentations by renowned experts

from Japan, South Korea, France, India, Bangladesh, and Nepal, focusing on recent advancements and applications of cold plasma and Pulse power technologies. The organizers expressed confidence that COFHA-2025 would strengthen academic networks and foster future research collaborations at national and international levels.



Guest Lecture on “Adaptation of Kriyasamgraha in Baha and Bahi Architecture”

11th Poush

On Poush 11. 2082, Department of Architecture organised a Guest Lecture on the topic “Adaptation of Kriyasamgraha in Baha and Bahi Architecture”. The lecture was presented by Ar. Gyanendra Shakya, an architect and urban planner, with a special interest on Green and Sustainable Architecture, and heritage conservation. The lecture was attended by the sixth (2078 Batch) and third (2081 Batch) students of architecture.

According to Ar. Shakya, Kriyasamgrahapanjika is a comprehensive Vajrayana ritual manual containing detailed prescriptions for monastic layout, ritual spaces and architectural features, which is reflected in the architectural forms of Bahah and Bahi monasteries of Kathmandu valley. It is an eleventh century Buddhist ritual and architectural treatise in Sanskrit, attributed to Kuladatta, a master of Vajrayana Buddhism, and used

in the construction of Baha and Bahi since the medieval period. The treatise is comprised of eight chapters dealing with the Selection and Preparation of Land, Land Consecration, Preparatory Rituals, Planning of Building Blocks and Internal Spaces, Choices of Wood and Stone and Installation of pillars, doors, windows and cornices, Mandala Rituals, Placement of Images and Ritual Elements, and Design and Symbolism of Chaitya and other Ritual Objects.

Ar. Shakya concluded with the note that “integrating Kriya-based architectural principles into heritage management frameworks – particularly in documentation standards, reconstruction decisions, and post-earthquake interventions – would ensure that conservation practice remains aligned with the living religious traditions of Newar Buddhism, thereby ensuring not only the physical survival but also the cultural and ritual integrity of these monastic sites.”



Experience Sharing Session on Internship and Arcasia Student Jamboree 2025 (B. Architecture)

13th Poush

On Sunday, Poush 13, 2082, Department of Architecture at Khwopa Engineering College organized an experience-sharing session focused on Internship and participation at ARCASIA student Jamboree 2025. Mr. Nikil Maharjan and Mr. Sreezan Bhandari shared their experience of internship to the batch of 2076, who will be undertaking their internship in forthcoming semester. Mr. Nikil Maharjan shared his experience as an intern architect in Kalpasara Studios at Chhauni, Kathmandu. He discussed similarities between academic exercises and professional practice in various projects, emphasizing importance of research works, market surveys and need of software skills like Revit architecture for design development and execution of projects.

Mr. Sreezan Bhandari shared his experience of internship at Krithya Studios, Tripureshor, Kathmandu as a trainee architect. He highlighted importance of internships in understanding work culture and work flow of office and necessity of proficiency in software skills like AutoCAD, SketchUp and D5 to develop critical thinking and shaping professional confidence. Through his site supervision experiences, he emphasized on a need of understanding of working drawings, site responsive drawings, collaborative

teamwork and effective communication skills.

Additionally, Ms. Pujya Shrestha shared her experience of participating in the ARCASIA Student Jamboree 2025, held in Incheon, South Korea. She outlined the program schedule of the student jamboree, which included interaction sessions, lectures, Incheon Urban Museum visit, site visits, exhibitions, culture exchange programs and recreation games. She also highlighted her active participation in assigned tasks alongside students from other participants from different countries and explained the overall process from selection to visa application and participation in the jamboree

The session proved to be informative and engaging, offering valuable insights to the juniors. about the internship journey. The program was concluded by presenting token of appreciations to the speakers by Ar. Archana Bade Shrestha, Head of Department of Architecture.

Experience Sharing Session

INTERNSHIP



Nikil Maharjan
at Kalpasara Studio
Chhauni, Kathmandu



Shreezan Bhandari
at Krithya Studio
Tripureshor, Kathmandu

PARTICIPATION AT
ARCASIA STUDENT JAMBOREE 2025
INCHEON, SOUTH KOREA



Pujya Shrestha



An Undertaking of Bhaktapur Municipality
Khwopa Engineering College
Department of Architecture

2082/09/13, Sunday
Hall 2, 8:30 am Onwards

PCB and PCBA Workshop Successfully Concludes for ECA Students

17th Poush

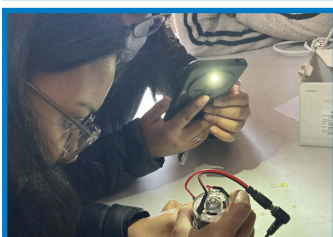
The Department of Electronics, Communication, and Automation Engineering of Khwopa Engineering College successfully conducted a two-day workshop on PCB Design & PCB Assembly (PCBA) on the 16th & 17th of Poush, 2082. Participant gained theoretical as well as practical knowledge regarding electronic circuit design & assembly so that they would be able to properly implement their semester projects.

The workshop was conducted by alumni Mr. Rojish Twati and Ms. Rashila Sainju, who guided participants through both fundamental and advanced concepts of PCB design. Over the two days, students explored key topics such as schematic design, PCB layout principles, component placement, and industry-standard best

practices in electronics design.

The participants of this workshop were mainly 6th semester students who took part very actively in practical sessions and got excellent exposure to PCB designing concepts and tools. The workshop had the advantage of being interactive and thus helped students learn through discussions and activities while staying informative and interesting.

The workshop was specifically designed to support sixth semester students by strengthening their practical skills and assisting them in effective execution of their semester projects. This initiative reflects Khwopa Engineering College's ongoing commitment to fostering technical excellence and industry-relevant skills among its students.



Award and Certificate Distribution Programme- Department of Architecture

17th Poush

Department of Architecture in collaboration with SETU NEPAL recently accomplished award and certificate distribution to the winner and participants of architectural design Competition for the project “Eco Village and Tourism Hub for SETU Nepal Enterprises” on 18th Poush 2082, Friday.

This architectural design competition invited students to conceptualize and design an eco-village and tourism hub on SNSE (SETU Nepal Social Enterprise)-owned land in Changunarayan Municipality, Ward No. 4, Khadka Chowk, Bhaktapur, in land area of 21 ropani. The project aimed to combine environmental sustainability, cultural representation, and social impact through cost-effective, creative, and community-driven architectural planning.

SETU Nepal envisions to build a self-sustaining eco-village and tourism hub that reflects Nepali culture, ecology, and education—while generating income to support social impact. The goal is to run this space as a community enterprise: all profits will be used to provide shelter, education, and livelihood support for vulnerable women and children.

In this context Department of

Architecture at Khwopa Engineering College facilitated SETU Nepal to visualize their concept by conducting a design competition among B. Architecture Students. Out of 7 design submitted, the winner was selected by the jury members; Ar. Archana Bade Shrestha, Ar. Rashish Lal Shrestha, Ar. Rabina Shilpakar and Ar. Sunaina Shakya from Department of Architecture and team of SETU Nepal (Mr. Bimal Pandey-President, Mrs. Ranju Pandey- executive director and Mrs. Samjhana Khadka) via presentation from participants. The winner group (Mr. Shrijal man Shrestha, Ms. Sushma Gurung and Mr. Sachin Chaurasiya of 2078 batch) was appreciated with cash prize of Rs. 20000, certificate and token of love. Similarly the next group (Ms. Sandhya Gosain, Ms. Sarmila Prajapati and Ms. Sneha Lage of 2078 batch) was appreciated with the consolation prize of Rs. 10000, certificate and token of love. All the participants of the competition were appreciated with certificate, token of love and cash Rs. 500.

To conclude, this form of design competition helps students develop critical and practical thinking abilities. This sort of platform will enable students to study real-world issues and grow in those areas. The SETU Nepal team was strongly affected by the students' efforts.



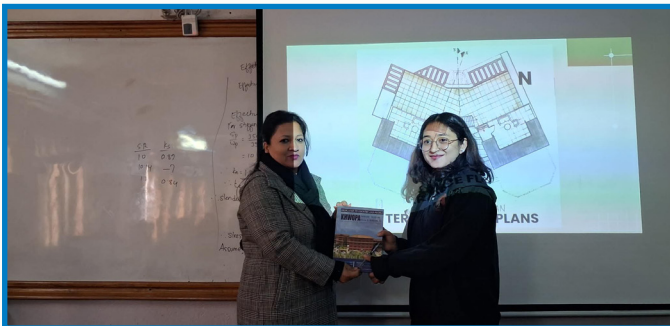
Award and Certificate Distribution Programme- Department of Architecture

21st Poush

On January 5, 2025 (21st Poush 2082), the Department of Architecture at Khwopa Engineering College concluded a Studio Interaction Session, series-VII. Ms. Reshika Singh Maharjan of B. Architecture (081 batch) delivered presentation to junior students of current 3rd semester students with her journey of Residence Design project in Design Studio-III in 3rd semester.

She highlighted the design process from commencement to final product

of residence design. She also advised juniors about the area of improvement she could have possibly addressed in her design and alerted juniors about important features which should not be overlooked. She emphasized the need of regular consultation with the mentors to move ahead in design. Students learned about the design process, factors to consider when designing spaces, and how to deal with limits. With the objective of interaction between junior and senior students and encouraging peer learning culture, Department of Architecture has been creating this platform to students.



Guest Lecture by Eric Sauvage on Real-time Monitoring Systems

28th Poush

On Poush 28, 2082, a guest lecture on “Real-time Monitoring and Critical Infrastructure Resilience in the Face of Natural Hazards” was successfully conducted. The session was delivered by Mr. Eric Sauvage, a PhD student from the University of Auckland. The lecture was attended by students from the Electrical Department, and Computer and Electronics Departments of Khwopa College of Engineering, as well as the Computer Engineering Department, and the Electronics, Communication and Automation Engineering Department of Khwopa Engineering College.

During the session, Mr. Sauvage discussed natural hazards in Nepal and New Zealand, emphasizing the importance of real-time communication during

disasters, particularly in rural areas, and the role of real-time seismic monitoring in Nepal. He explained the concepts of resilience and critical infrastructure, addressing telecommunication failure modes, dependency on electricity, grid-connected distributed energy resources, and presented Cyclone Gabrielle in New Zealand as a key case study. He also highlighted community-level mitigation strategies and the use of Starlink as an alternative communication solution during emergencies.

The lecture concluded with an emphasis on an integrated approach between electricity and telecommunication systems, and the need for new solutions to cope with outages caused by failures in terrestrial infrastructure, offering valuable insights into building resilient systems in hazard-prone regions.



Introductory Workshop on Outcome-Based Education Conducted

Poush

An introductory workshop on Outcome-Based Education (OBE) was successfully organized as per the scheduled program, bringing together faculty members to enhance understanding of OBE principles and implementation strategies.

The workshop was organized as an initial step toward the systematic adoption of Outcome-Based Education in teaching–learning practices. The program aimed to familiarize participants with the fundamental concepts, framework, and significance of OBE in higher education.

During the session, Principal Mr. Sujan Maka delivered a comprehensive PowerPoint presentation, highlighting

the core philosophy of Outcome-Based Education, its relevance to curriculum design, teaching methodologies, and assessment practices. His presentation provided an overview of how OBE aligns academic programs with clearly defined learning outcomes and quality assurance requirements.

The workshop was designed as an introductory phase, setting the foundation for further academic discussions and capacity-building activities. At the conclusion of the program, it was collectively decided that the next phase of the workshop series will focus in detail on program objectives and course outcomes, along with their formulation, mapping, and assessment.

KhEC EMIS Organizes Two-Day Workshop on Newly Adopted ERP System

Poush

KhEC EMIS organized a two-day workshop on Poush 23 and 24, 2082 (B.S.) to familiarize faculty members with the newly adopted Enterprise Resource Planning (ERP) system of the college. The program was conducted as part of the institution's initiative to enhance digital governance and improve academic and administrative efficiency.

The workshop introduced faculty members to the key features and functionalities of the ERP system, a product of Digital Nepal. The sessions focused on

effective use of the system for academic management, record maintenance, and institutional communication.

The workshop aimed to ensure a smooth transition to the ERP-based system by building faculty capacity and operational readiness. Participants actively engaged in the sessions and welcomed the move toward digitization of college operations.

KhEC EMIS highlighted that such workshops play a vital role in strengthening technology-enabled management systems in higher education institutions.



KhEC Strengthens Student Startups through Entrepreneurship Loan Program 2082

Poush

Khwopa Engineering College (KhEC) took a significant step toward promoting innovation and self-employment by introducing the Entrepreneurship Loan Program for students. The initiative was launched with the objective of encouraging aspiring student entrepreneurs to transform their ideas into viable startups by providing financial support along with institutional guidance. The program is facilitated by the college administration, aiming to support students who demonstrate innovative business ideas and a strong entrepreneurial mindset. Recognizing the challenges students face in accessing initial capital, the college designed this loan scheme to reduce financial barriers and promote a strong startup culture within the academic community.

Under this initiative, a presentation was conducted by alumni Rojish Twati and

Rashila Sainju from the 2077 Electronics and Communication Engineering batch, during which they presented their startup venture under the Entrepreneurship Loan Program. Following the presentation and completion of the required documentation and formal procedures, their startup received NRs. 3 lakh as the first installment for the current year. In addition to financial support, the college also provided free workspace and permission to access laboratory equipment within the college premises, further reinforcing KhEC's commitment to sustaining entrepreneurship and supporting student-led ventures across successive batches.

Under this initiative, entrepreneurship loan support was first provided to students from the 2074 batch, marking the beginning of the college's effort to financially empower student-led startups and encourage entrepreneurial activities within the institution.



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