KHWOPA COLLEGE OF ENGINEERING

Libali, Bhaktapur | Tel.: 5122094, 5122098 Email: info@khwopa.edu.np | Website: www.khwopa.edu.np



Jestha 2080 | Volume 2 | Issue 11

Newsletter



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

On June 4, 2023, Khwopa Engineering College (KhEC) and Khwopa College of Engineering (KhCE) jointly welcomed esteemed guest Abhijit Mukherjee, Dean 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 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 at having Mr. 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.

Mr. 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, 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 Mr. 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.

The Appointment Letter Handover Program was Conducted

The Mayor of Bhaktapur Municipality and Chairman of the College Management Committee, Mr. Sunil Prajapati, said that teaching staff should be honest in heart, word, and deed and focused and that they should work selflessly and disciplined according to the needs of the college.

While speaking at a gathering of the newly appointed teachers and staff of Khwopa Engineering College and Khwopa College of Engineering run by Bhaktapur Municipality on Thursday, 11 Jestha, 2080, he discussed the fact that while working, there will be many obstacles and disruptions, so wanting to do well is not enough for good doing. He also expressed confidence that Khwopa University would be approved soon.

He said that if 99 percent of the teachers working in the institution are good but only 1 percent





are bad, then it will definitely harm the institution. He said that even a drop of poison can destroy hundreds of liters of milk. Further, he said that the statement of Com. Rohit, "Singhdarbar is surrounded by cheaters," was further supported by the fact that Nepalese were made Bhutanese refugees; he said that it is unfortunate that the people who should be in jail are in Singhadarwar.

Everything said by intellectuals and Ph.D.s may not be right, but the right thing is right no matter who says it. The teachers and professors emphasized that new research should be carried forward. He said that it is our idea and people's thought to reach the current state of municipally run institutions, including engineering colleges and Khwopa Hospital.

He stated that the working style of the organizations run by Bhaktapur municipality and the municipality itself is being observed on the ground and our work is being appreciated across the country today; thus, he motivated the teachers and staff to work for the sake of service rather than personal interest.

In the program, the principal of Khwopa Engineering College, Er. Sujan Maka, the principal of Khwopa College of Engineering, Er. Sunil Duwal, and the head of administration, Mr. Sanjay Manandhar, welcomed the newly appointed teachers and staff and discussed how they can make an incomparable contribution to achieving the objectives of the college.



















Sports Competition for First Year Students

Khwopa College of Engineering organized the "Sports Competition", which took place from 11 Jestha to 12 Jestha 2080. The event featured a variety of sports competitions, including table tennis and badminton, with participation from students in their first year of college.

The event was officially inaugurated by Er. Sunil Duwal, the principal of Khwopa College of Engineering, who handed over the sports equipment to the referees. In the program, Principal Er. Sunil Duwal expressed his belief that discipline, friendship, and dynamism will be developed in students through sports and said that sports should be considered an opportunity to mingle with each other rather than winning and losing.

The referees for the event were Mr. Indra Bhakta Pancha, Rukesh Sujakhu, Rajiv Chikanbanjar, Satyaran Nhisutu, Sushant Nayaju, Kishor Gosain and Shree Krishna Basukala. Each sport featured two events, one for boys and one for girls. The event aimed to promote physical fitness and sportsmanship among the students.













Successful Completion of Survey Camp for Civil **Engineering Students of the 2077 Batch**

The Department of Civil Engineering is delighted to announce the successful completion of the Survey Camp for the students of Civil Engineering, 2077 batch of Khwopa College of Engineering. The 12-day camp, held from the 11th to the 22nd of Jestha, 2080, aimed to enhance the practical and theoretical knowledge of the students in engineering surveying while providing them with valuable hands-on experience in the field.

Under the coordination of Senior Lecturer and Deputy Head of Civil Department Er. Aanand Kumar Mishra, the camp was held in the Nepal Electricity Authority (NEA) Training Center premises in Kharipati, Bhaktapur. Following faculties and staff with close coordination with students successfully accomplished the camp.

Coordinator: Aanand Kumar Mishra; Assistant Coordinator, Bibek Thapa; Instructors: Raju Miya, Anil Kasula, Yogesh Bhattarai, Aakash Basu, Basant Bhatt, Bibek Parajuli, Unique Bakharel, Aayusha Bhataju, Sachin Shrestha, Suraj Nemkul, Swostika Dhakal, Prabin Raj Shrestha and Shivaram Suwal.

A total of 93 students, comprising 70 males and 23 females, actively participated in the camp. Throughout the camp, the students engaged themselves in different methods and processes of surveying such as horizontal control establishment, minor traverse for topographic mapping, bridge site

survey, and road alignment survey. The students demonstrated their skills and knowledge to enhance the practical applications of the surveying which they have studied in previous semesters. The instruction committee closely supervised the students' work and provided proper guidances. Based on their performance and dedication students were awarded with following titles.

Best Group: B8

- Bishal Gautam
- Nabin Duwadi
- · Roman Sharma
- · Trilen Shakya
- · Saroj Shakhakarmi

Best Male Surveyor: Swornim Aaganja Best Female Surveyor: Sadikshya Shrestha





















Prize Distribution Program for Table Tennis and Badminton Competitions

A prize distribution ceremony was organized by Khwopa College of Engineering on 26th Jestha, 2080 to honor the winners of the table tennis and badminton competition, which took place on the 11th and 12th of Jestha, 2080. The sports event was organized to showcase the sporting talent of first-year students of this college.

During the program, Er. Sujan Maka, the principal of Khwopa Engineering College, emphasized the role of sports in fostering discipline and promoting teamwork among students. He highlighted that despite the existence of two colleges, Khwopa Engineering College and Khwopa College of Engineering, both institutions share the common goal of preparing qualified citizens to serve the nation, contribute to society, and foster intellectual growth while intellectualizing society.

Er. Sunil Duwal, the principal of Khwopa College of Engineering, expressed his belief that participation in sports instills qualities like hard work and concentration, which translate into success in other areas, including academics.

Emphasizing the importance of positive thinking, Vice Principal Er. Ratnashova Prajapati urged students to engage in sports activities along





with their studies.

Prof. Dr. Raju Bhai Tyata, the head of the Science and Humanities Department, addressed the significance of extracurricular activities in personal development and encouraged students to allocate dedicated time for such activities every day. Mr. Sanjaya Manandhar, the head of the administration branch, also emphasized the value of sports in students' lives.

Badminton

Boy's Singles

S.N.	Position	Name	Department
1	First	Roshan Bist	Computer Engineering
2	Second	Prasanna Raj Neupane	Computer Engineering
3	Third	Biraj Prajapati	Civil Engineering
4	Third	Alex Shrestha	Civil Engineering

Girls Singles

S.N.	Position	Name	Department
1	First	Jastika Maharjan	Civil Engineering
2	Second	Binisha Parajuli	Computer Engineering
3	Third	Sneha Chaulagain	Computer Engineering
4	Third	Ebani Shrestha	Civil Engineering

Table Tennis

Boy's Singles

S.N.	Position	Name	Department
1	First	Kailash Khatakho	Civil Engineering
2	Second	Bibem Manandhar	Civil Engineering
3	Third	Alex Shrestha	Civil Engineering
4	Third	Sujal Shrestha	Computer Engineering























Organized Various Events for First Year Students

Department of Science and Humanities at Khwopa College of Engineering organized a training on "AutoCAD Basics" and a workshop about "Design Thinking and Idea Pitching" from 16th to 19th Jesth 2080. These events were specifically tailored for the Civil Engineering, Computer, and Electrical programs, targeting first-year students.

Our alumni Aayush Prajapati, Anil Sayaju, Anish Dulal, and Manish Bista, facilitated the training. They provided comprehensive training about AutoCAD and its applications for civil engineering students. The participants expressed that





this training was helpful in skill development as well as improvement in the visualizations of engineering drawing-related ideas.

Simultaneously, a workshop on design thinking and idea pitching was led by facilitators Neeraj Pradhan and Nimesh Shakya. The workshop aimed to enhance the students' understanding of design thinking principles and effective idea-pitching techniques.

The students expressed that this workshop was immensely beneficial. The science and humanities department committed that such programs will be continued in the coming years to impart valuable learning opportunities to our students.





Most Circulated Subject on Jestha 2080

S.N.	Circulation	Title	
1	290	Mathematics	
2	188	Physics	
3	110	Mechanics Dynamics and Static	
4	109	Mechanics	
5	82	Economics Civil Engineering	
6	58	Fluid Mechanics Civil Engineering	
7	52	Sanitary Engineering Environmental Engineering Series-II	
8	43	Water Supply Engineering Environmental Engineering	

Participation in Training on Energy System Model Development and Scenario Analysis

Er. Gaurab Tamrakar, Shanti Karki, and Shreeshuva Maharjan of the Department of Electrical Engineering, Khwopa College of Engineering, participated in training on energy system model development and scenario analysis held from May 24th to May 30th, 2023. The training was organized by the Center for Energy Studies, Institute of Engineering, Tribhuvan University, and supported by the University Grants Commission (UGC Nepal). The training was primarily focused on the modeling of the energy system and the different scenario analyses of the contemporary policy of Nepal. The different hands-on training was also performed in the LEAP software during the six days of training on Pulchowk. The training was scheduled to give exposure to the current consumption of different kinds of energy in Nepal and the subsequent growth that might take place soon based on reports given by different governmental and non-governmental bodies.

Prof. Dr. Tri Ratna Bajracharya gave a presentation on "Dynamics of Energy Security and its Implications: Review of Policies, Opportunities,

and Challenges in Nepal". Also, Assoc. Prof. Dr. Shree Raj Shakya gave a presentation on "Energy Modelling and Applications". The presentation on "Energy System Planning and Policy Implications" was given by Dr. Anzoo Sharma. The hands-on training for the Energy Modeling Toolkit (LEAP) was provided by Asst. Prof. Dr. Anita Prajapati and Mr. Utsav Shree Rajbhandari. The insights and resources provided by all the resource persons were valuable enough for understanding the depth of the model development of the energy system.



Workshop on Engineering Mathematics at IOE, Pulchowk Campus

Mr. Bhimsen Khadka, Sr. Lecturer of Khwopa College of Engineering, attended a one-day workshop on the subject of engineering mathematics conducted by IOE, Pulchowk Campus Curriculum and Instructional Material Development Unit (CIMDU), on 8th Jestha 2080. The workshop was facilitated by Er. Bhim Kumar Dahal, and the discussion was focused on the engineering mathematics curriculum. At the workshop, different subject committee leaders,

representatives of different colleges under IOE, and representatives of different universities attended. The discussion was mainly based on the course structure for the upcoming bachelor's syllabus.

The program was concluded by Prof. Dr. Sashidhar Ram Joshi, Dean, IOE, Nepal. It was a fruitful discussion on the course revision so that we could know about the upcoming course structure in mathematics and that the content was more valuable.





Guest Lecture on Research Initiatives for Undergraduate Students

The Department of Electrical Engineering, Khwopa College of Engineering, had the privilege of hosting an esteemed professor, Prof. Dr. Bhupendra Bimal Chhetri, from the Department of Electrical and Electronics Engineering, Kathmandu University, on Jestha 9th, 2080 (May 23rd, 2023). He delivered an enlightening session on "How to get into research by doing academic projects?" exclusively for Bachelor's in Electrical Engineering students from the Third and Fourth Year. The event was an enriching experience for all attendees as Prof. Chhetri shed light on the crucial aspects of cultivating a positive research attitude and excelling in academic projects through the projectbased learning method. His extensive knowledge and expertise in the field were evident throughout the presentation, leaving a lasting impression on our students. The Electrical Engineering Department at Khwopa College of Engineering expresses sincere gratitude to Prof. Chhetri for sharing his valuable experiences.





Field Visit for Subject Estimation and Costing

Department of Civil Engineering organized the field visit for the students of the civil 7th semester 2076 batch, which was led by Er. Shyam Sundar Basukala, Er. Upu Rasiya Lasiwa, Er. Aashish Lageju, and Bikash Shrestha. The visit was conducted for subject estimation and costing. The location of the field visited was the CG Lake View Housing Dhapakhel Thecho, Lalitpur. Students viewed various building elements on the construction site to gain knowledge about drawing and constructing structures.







The Talk Program on "NPIX Local Exchange, ISP Working Mechanisms, and CDN in Nepal" was Conducted

The Department of Computer Engineering at Khwopa College of Engineering successfully organized a one-day talk program on June 14, 2023. The event focused on the topic of "NPIX local exchange, ISP working mechanisms, and CDN in Nepal." The program was specifically tailored for 3rd and 4th-year undergraduate students of computer engineering, aiming to provide practical insights into Nepal's network infrastructure and state-of-the-art technologies.

The talk was delivered by the guest speaker Er. Ajay Maharjan, a network engineer at Vianet Communication Ltd. He began with an introduction to the Internet and its history in Nepal. Mr. Maharjan discussed various types of Internet Service Providers (ISPs) that have been prevalent over the years. He elaborated on dial-up Internet Providers, which are now obsolete, and DSL Providers, which are widely used at present. Additionally, he introduced satellite Internet Providers. He explained the working principles of ISPs, their different tiers, and the current state-of-the-art equipment used by ISPs in Nepal. Notably, he highlighted the deployment of EPON,

NPIX Local Exchange,
ISP Working Mechanism
and CDN in Nepal
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GPON, XGPON, and XGSPON technologies by ISPs in the country.

Furthermore, the speaker shed light on the significance of the Nepal Internet Exchange (NPIX), which was established in 2002 AD. He discussed the policies and advantages that NPIX provides to customers of its member ISPs and discussed Content Delivery Networks (CDNs), a technology that is being implemented in other developed countries. However, it is still in progress for adoption in Nepal. He emphasized the potential benefits for internet users in terms of improved availability, faster performance, reduced costs, and enhanced website security with the implementation of CDNs. In conclusion, he provided insights into career opportunities for students interested in the network field.

The talk program witnessed the presence of approximately 96 students, including faculty members such as Mr. Dinesh Ghemosu, Mrs. Subhadra Joshi, Mr. Mukesh Kumar Kafle, and Mr. Mensun Lakhemaru. Er. Dinesh Gothe, the Head of the Computer Department, delivered the concluding remarks, expressing gratitude to the invited speaker and all attendees for their participation.



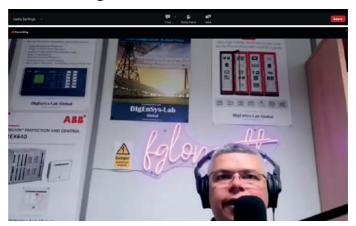


Webinar Training on Cutting-Edge Real-Time Modeling and Simulation

The Department of Electrical Engineering at Khwopa College of Engineering organized a two-day webinar titled "Cutting-Edge Real-Time Modelling and Simulation" on the 25th and 26th of Jestha, 2080 (8th and 9th June, 2023). Professor Francisco M. Gonzalez-Longatt, a well-known distinguished expert in the field and the Leader and Founder of DigEnSysLab was the resource person for this webinar training. The webinar was technically supported by the Nepal Research and Education Network (NREN).

The workshop aimed to provide participants with the knowledge and practical skills in utilizing the "Typhoon Hill" and "Opal-RT" software platforms for real-time modeling and simulation. Around a hundred participants from different arenas such as students, academicians, researchers, and professionals. The participants were from the renowned universities of Nepal such as Tribhuwan University (Institute of Engineering), Kathmandu University, Pokhara University, and Purbanchal University.

Professor Longatt shared valuable insights into the latest advancements and best practices in real-time modelling and simulation, specifically in the field of Power System Dynamics. The training session offered participants research-based exposure and equipped them with a strong foundation for potential research collaborations. Overall, the training session proved to be fruitful, providing participants with essential knowledge and practical skills in real-time modelling and simulation.



Participation in a three-day Workshop on Research Proposal Development

Er. Dhurba Karki, a faculty of the Department of Electrical Engineering, participated in a three-day workshop on research proposal development held from May 24th to May 26th, 2023. The workshop was organized by Kantipur City College (KCC) and aimed to provide participants with knowledge and skills for developing research proposals.

The workshop focused on the entire process of research proposal development, from generating research ideas and selecting a research topic to the advanced stages of proposal writing. The main objective was to familiarize participants with the importance of writing a research proposal professionally. Sessions were conducted to help participants understand the essential components of a research proposal, develop clear research objectives, conduct comprehensive literature reviews, and refine research methodologies. Dr. Deepak Bikram Thapa Chhetri, Dr. Bidur Dhungel, Prof. Dr. Shankar Khanal, Dr. Gajendra Sharma, Dr. Babita Paudel

Bhattarai, and Dr. Pralhad Karki were the experts who facilitated the workshop. Throughout the workshop, participants gained valuable insights and practical skills to enhance their abilities in crafting effective research proposals. The workshop also emphasized the significance of clear and persuasive writing while guiding the evaluation criteria used by funding agencies to assess research proposals. Overall, the workshop equipped participants with the necessary tools and knowledge to improve the quality of their future research proposals.



Library Trainees Gain Valuable Insights During their Visit to Khwopa Library

The trainees of the Library Management and Information Science training program recently visited the library of Khwopa Engineering College and Khwopa College of Engineering. The visit was a part of their three-month training, organized by the Library Management and Information Service Center (LIMISEC.

On the 22nd of Jestha, 2080 B.S., Er. Sujan Maka, the principal of Khwopa Engineering College, and Er. Sunil Duwal, the principal of Khwopa College of Engineering, extended a warm welcome to the trainees and trainers. Er. Sujan highlighted the importance of such visits as platforms for knowledge sharing and experience exchange. He encouraged the trainees to consider joining Khwopa Library as interns, recognizing the value of practical experience in shaping their future as librarians. He expressed

deep appreciation to the organizing institution for providing training opportunities for college librarians, emphasizing the need for continuous professional development.

Parbati Nepal, the vice president of LIMISEC and the coordinator of the training program, expressed her gratitude for the opportunity to visit the college library. She joyfully witnessed the growth of Khwopa Library.

Jastara Koju, the Head of the Library Section, welcomed the trainees and guided the visit. The library staff membersshared their experiences and knowledge, creating an enriching exchange with the aspiring librarians. The trainees expressed that this interaction served as a source of inspiration and provided valuable insights into the practical aspects of library management.













A book review of "The Bookseller of Kabul" and "Khusi" was conducted

On Jestha 10, 2080, the library sections of Khwopa Engineering College and Khwopa College of Engineering organized a book review and discussion program. The event featured presentations by Jagrit Parajuli and Aayush Bhatta students from the Department of Electrical Engineering. Mr. Parajuli and Mr. Bhatta shared insights about the books "The Book Seller of Kabul" by Åsne Seierstad and "Khusi" by Bijay Kumar Pandey Respectively.

During the program, Parajuli provided a comprehensive review of "The Book Seller of Kabul," offering a summary of the book's plot, themes, and characters. He explored the narrative's exploration of the life of an Afghan bookseller and the challenges he faced in the war-torn city. Parajuli also highlighted the book's depiction of family dynamics, cultural complexities, and the impact of political unrest on individuals and communities.

Similarly, Bhatta provided a comprehensive review of "Khusi," offering a summary of the book's themes and characters. He delved into the narrative's exploration of the protagonist's journey toward finding happiness. Bhatta highlighted the book's exploration of human emotions, personal growth, and the pursuit of happiness.

Following the book review, a lively discussion took place among the attendees. Participants had the opportunity to share their thoughts, ask questions, and engage in thoughtful conversations about the book's themes and messages. The program served as a platform for intellectual exchange and encouraged a deeper appreciation for literature.



During the book review program, Er. Sujan Maka, the principal of Khwopa Engineering College, delivered insightful remarks that inspired the audience to explore Afghanistan and its rich culture on a deeper level. He emphasized the importance of connecting with diverse cultures to broaden our perspectives and enhance our understanding of the world.

Maka further highlighted the correlation between human emotions, personal growth, and happiness. He encouraged the audience to reflect on their emotional journeys and embrace personal growth as a means of achieving true fulfillment.









Certificate Distribution for Training Classes

A certificate distribution program was organized to acknowledge the participants of the training conducted by the Department of Civil Engineering in the month of Baisakh, 2080. These trainings were organized as part of the Senior to Junior training program, aimed at fostering strong bonds between senior and junior students while utilizing the college's semester gap and back exam period effectively.

During the event, a total of 96 certificates were presented to the civil engineering students. Among them, 15 certificates were awarded to Etabs and SAFE trainees, 45 certificates were given to QGIS trainees, and 20 certificates were distributed to Basic AutoCAD trainees. Additionally, 16 trainers

were honored with certificates of appreciation for their valuable contributions.

Principal Er. Sunil Duwal emphasized the significance of such training programs for engineering students and encouraged students to actively participate in the training sessions organized by the college. Vice Principal Ratna Shova Prajapati highlighted the college's longstanding commitment to organizing training programs, which have proven to have a positive impact on students' knowledge and skills.

Ramesh Bala, the Head of the Civil Department, expressed gratitude to all the trainers and participants for their successful execution of the training programs.













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Themes

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- · Non-structural Components
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- · Dynamic Characterization and Structure Health Monitoring
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- · Social, Cultural and Economic Aspects
- · Lesson Learnt from Past Earthquakes
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- · Reconstruction Issues in Historic Towns
- · Reconstruction Issues in Urban Settlelment
- · 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



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- · 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

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- · Communication System
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- Antennas, Microwave and Propagations
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- Bioinformatics
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- Quantum Communication
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Electrical Engineering

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- · Electrical Vehicles and Charging Station
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- 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



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