

IOEGC-16 :: Session Details (Day 3 - April 20, 2025)

S.N.	Conference ID	Submission ID	Submission Title	Presenting Author	Session	Mode of Presentation
1	H1-1	444	River discharge estimation in data-scarce mountainous river basin using ensemble machine learning algorithms: A case study of Marsyangdi River Basin	Suman Khanal	H1 Hydropower	Online
2	H1-2	520	Dam Breach Analysis: A Case Study of West Seti Dam and its Impact on Seti River-6 Project	Saroj Pudasaini		
3	H1-3	536	Reservoir annual energy optimization using Meta-Heuristic PSO algorithm: A case Study of Tamor Storage Project	Gopal Bhattarai		
4	H1-4	359	Assessing and Prioritizing Barriers to Circular Economy Adoption in Nepal's Hydropower Sector: A Quantitative Analysis and Strategic Recommendations for Implementation	Suraj Dahal		
5	H1-5	48	Qualitative and Quantitative Assessment of Overbreak in Khimti II HEP	Tapraj Bhatta		
6	H1-6	544	Analyzing the Impacts of Hydropower Design Discharge Variability on Generation Mix, Capacity, and Cost of Nepal's Power Sector under Policy Constraints	Rajan Dhakal		
7	H2-1	87	Computational characteristics of hydrogen gas combustion in homogeneous charge compression ignition (HCCI) engine	Ghanshyam Aryal	H2 Mechanical Engineering	Online
8	H2-2	93	Numerical Simulation of Shock Vector Control in Two Dimensional Convergent Divergent Nozzle	Keshav Kumar Acharya		
9	H2-3	96	Dynamic Modelling and Response of a Crossflow Turbine Runner	Lal Babu Prasad		
10	H2-4	111	Design and Fabrication of Electric Lawnmower	Tanka Prasad Gaihre		
11	H2-5	119	Modeling Electrochemical Corrosion in Magnesium Alloys Using MOOSE Based Non-linear Phase Field Methods	Saroj Kumar Shah		
12	H2-6	400	Qualitative Flow Visualization of Muzzle Flow Field using Schlieren Imaging	Som Prasad Pangeni		

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13	H3-1	44	Integrating HEC-RAS and HEC-HMS for Synergistic Flood Hazard Mapping Under Climate Change Scenarios in Hanumante Khola, Bhaktapur	Sandesh Malla	H3 Stream Flow & Flood Hazard Analysis	Online
14	H3-2	55	Numerical Simulation on Hydraulics of Spur: A Case Study of Kamala River Reach	Namita Gautam		
15	H3-3	335	Flood Hazard Mapping of Budhi River and Analyzing Hydrodynamic fluctuation of Hydrodynamic parameters along the River reach during Floods Using HEC-RAS 1D Model	Saroj Kumar Yadav		
16	H3-4	371	Evaluation of Machine Learning Techniques in Streamflow Forecast: A Case Study in Sunkoshi Basin	Nischal Shrestha		
17	H3-5	541	Evaluating the impact of Climate Change on Hydrological Extremes using LSTM	Pramesh Karki		
18	H3-6	513	Projected Glacier Runoff Changes in the Narayani River Basin: Multi-GCM Analysis Using OGGM	Pramod Bhattarai		
19	H4-1	357	Sustainability assessment of institutional biogas plant: A Case Study of the Sundarijal Arsenal Biogas Plant	Mahesh Kumar Ghimire	H4 Renewable Energy & Efficiency	Physical
20	H4-2	168	Energy Performance of Traditional Tharu Building: A Case of Dang Deukhuri	sumit chaudhary		
21	H4-3	213	Impact of Occupant Behavior on Energy Efficiency in Commercial Buildings: A Case Study of CAAN Head Office, Sinamangal, Kathmandu	Bashanta Bhattarai		
22	H4-4	478	Gender Perception Differences Influencing Behavioral Intentions toward Energy Saving: A Study of Nepalese Workplaces	Sushrusha Koirala		
23	H4-5	521	Sustainable Li-Ion EV Battery Recycling in Nepal: A Techno-Economic and Forecast-Based Approach	Siddhartha Khadka		
24	H4-6	383	Modeling And Validating Heat Transfer Behavior of Sand Packed Bed Thermal Energy Storage System	Surendra gurung		

S.N.	Conference ID	Submission ID	Submission Title	Presenting Author	Session	Mode of Presentation
25	I1-1	68	Seismic Performance of Rammed Earth Buildings of Nepal: A Finite Element Approach	Akash Paudel	I1 Seismic Performance of Structures-II	Online
26	I1-2	139	Seismic Performance of Existing Stone Masonry in Mud Mortar	Mahima Koirala		
27	I1-3	268	Seismic Performance of Brick with Mud Mortar Residential Building of Patan, Nepal	Prashis Narayan Sapkota		
28	I1-4	148	Seismic Vulnerability Assessment of Vertically Irregular RC Framed Buildings	Prajwal Man Shrestha		
29	I1-5	356	Seismic Evaluation of Irregular RC Building for Near and Far Fault Earthquakes	Kshitiz Acharya		
30	I1-6	424	Seismic Capacity Evaluation and Effectiveness of CFRP wrapping in RC Column	Shiksha subedi		
31	I2-1	65	Comparative Analysis of Emission from Traditional Cook Stoves and Improved Cook Stoves and Evaluation of Ventilation using Box Models	Binamra Bhusal	I2 Energy & Saving	Online
32	I2-2	121	Technical Assessment and Energy Saving Opportunities in Biomass-based Industrial Boilers of Nepal with the use of VFD and oxygen trim sensor	Nirmal K C		
33	I2-3	144	Reducing Energy Consumption and GHG Emissions in the Dairy Industry: A Study in Kathmandu and Lalitpur	Rashmi Dhungana		
34	I2-4	413	Techno-Economic And Environmental Analysis of Dairy Industry" A case study of Kathmandu Milk Supply Schemes "	Anita Rijal		
35	I2-5	419	Assessment of Residential Energy Consumption and opportunity of energy transition for security forces barracks -A case study of Hilly regions of Nepal	Mrigendra Pradhan		
36	I2-6	468	Fueling the Shift: A Quantitative Assessment of Energy Stacking and Transition Index in Urban, Semi-Urban, and Rural Nepal	Kritik Niraula		

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37	I3-1	206	Groundwater Potential Zoning of Dhanusha District, Nepal Using GIS and Its Variation Due to Temperature	Aashish Kumar Jha	I3 Water Resource Engineering	Online
38	I3-2	376	Performance Assessment of SCADA Integrated Irrigation Project: A Case Study from Nepal	Sudip Shrestha		
39	I3-3	312	Spatiotemporal Dynamics of Precipitation in Gandaki Province between 1990 and 2023	Bishnu Prasad Shrestha		
40	I3-4	374	Generation of IDF curve for the data-scarce area by using satellite data through correction factor formulation	Ashok Shrestha		
41	I3-5	34	Water-Energy-Food-Environment Nexus for Tomato Production in NARC Tarahara, Sunsari, Nepal	Sameer Shakya		
42	I3-6	507	Free Sedimentation Simulation of a Cubical Shaped Particle in OpenFOAM based CFD-DEM Solver	Sanjeev Bashyal		
43	I4-1	438	Transforming Homes into Hospitality: Effects on Architectural Integrity in Patan's Heritage Zones	Bijeet Shakya	I4 Architecture, Technology and Society	Physical
44	I4-2	387	Cradle-to-gate life cycle assessment of Dachi Appa: A traditional Nepali veneer brick	Diraj Thapa		
45	I4-3	163	Assessing the reconstruction of monumental heritage in Kathmandu: Junga Hiranya Hem Narayan Temple	Salisna Bajracharya		
46	I4-4	512	The Vernacular Architecture and its role in Rural Tourism: A Case of Bhada Village, Kailali, Nepal	Prerana Chaudhary		
47	I4-5	169	Architectural Layout Typology Optimization of Healthcare Facility for General Hospital	Jagdish Chandra Joshi		
48	I4-6	460	Understanding the Social Dynamic between Street vendors and Pedestrian Integrating through Computing Analysis	Minu Lama Bal		

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49	J1-1	267	Study of Deformation of Hyperbolic Paraboloid Shell Under Varying Rise to Span Ratio	Piter Bhatta	J1 Structural Engineering - II	Online
50	J1-2	262	Study on Deformation Development Using Numerical Modeling for Varying Pillar Width of Proposed Twin Tunnel: A Case Study of Siddhababa Road Tunnel	Harish Chandra Badu		
51	J1-3	174	Effect on Lateral Displacement and Stiffness of RC-Shear Wall with Eccentric Opening	Sovit Gautam		
52	J1-4	100	Application of Artificial Neural Network for Early Cost Estimation of RCC T-Beam Bridge Projects in Nepal	Ankit khalal		
53	J1-5	294	Size Optimization of Planar Truss Structures under Various Constraints Implementing Modified PSO based on FEM and Surrogate Model	Bijay Karki		
54	J1-6	532	Development of robust machine learning model to predict the major structural response of Brick Masonry Buildings	Suyogya Dahal		
55	J2-1	124	Bicyclist's Perception based Level of Service in Heterogeneous Traffic Condition: A Case Study of Bharatpur, Nepal	Rabin Dhital	J2 Public Transportation	Online
56	J2-2	53	Influence of Building Massing on Perceived Walkability; A Case of Swayambhu Marg	Sophiya Shrestha		
57	J2-3	329	Understanding Mode Choice Behavior of School Job holders: The Influence of Accessibility, Connectivity, and User Perception	Dinesh Bhattarai		
58	J2-4	285	Evaluating Public Transport Accessibility for Work Trips: A Case Study of Kathmandu Valley	Sajan Pandey		
59	J2-5	405	Bus Stop Consolidation in Lagankhel-Khokana Section	Kshitiz Poudel		
60	J2-6	338	Feasible Locations of the Charging Infrastructures for Public Transportation using GIS and AHP: A Case Study of Kathmandu Valley	Purushartha Khatiwada		
61	J3-1	245	Western-Central Corridor: Catalyst for Spatial and Economic Transformation in Regional Development	Suraj Chapagain	J3 Inclusive Infrastructure Planning	Physical
62	J3-2	274	The Role of Vehicle Interior Design in Promoting Gender-Inclusive Public Transportation in Kathmandu	Prajina Shrestha		
63	J3-3	344	Tactical Urbanism Unveiled: Navigating Complexities in Urban Transformation	Sujata Yadav		
64	J3-4	395	Spatial Transformation and its Impact on Social Vulnerabilities in Traditional City Core (A Case of Asan)	Rodina Tuladhar		
65	J3-5	523	Towards Inclusive Urban Spaces: Public Toilet Accessibility for Women in Kathmandu and Lalitpur Metropolitan City	Ajay Chandra Lal		
66	J3-6	555	Urban Reuse of Brownfields: Assessing Redevelopment Model of Chobhar Dry Port	Saroj Bohara		