

**IOE Graduate Conference 2017 : : Program Schedule**

Venue: Department of Architecture, Pulchowk Campus

Day 1 (Dec 29, Friday)

**09:00 - 09:30 Registration****09:30 - 10:00 Inauguration****10:00 - 12:00 Technical Session - I (Poster Presentation)**

Paper ID	Title	Presenting Author
17103	An Approach to Extract Features of Mammography Images for Early Detection of Breast Cancer	Ujjwal Thapa Magar
17106	Uprating of Existing Transmission Lines in Nepal Using High Capacity Conductors	Saroj Shrestha
17113	Energy Efficiency Improvement Potential of Dairy Development Corporation: Kathmandu Valley Milk Supply Scheme	Sudhir Bahadur Joshi
17116	Performance Evaluation of 18kW Solar Photovoltaic Baidi MicroGrid at Baidi, Tanahun, Nepal	Sanjaya Neupane
17118	Framework to Assess Sustainability of Micro-hydro Projects in the Operation Phase	Sudiksha Uprety
17121	Dynamic Response of Pelton Turbine Unit for Forced Vibration	Sanjeev Karki
17124	Study on Grid Integrated Solar PV for Balaju Industrial District, Kathmandu, Nepal	Rajendra Prasad Bhatta
17125	Design and Numerical Analysis of Solar Under Floor Heating System: A Case Study of Resort	Sarika Kumari Mishra
17129	Analysis of Landslides and Slopes (Nepalthok- Khurkot section) using SVSLOPE Model and Remediation Using Soil Nail	Ojaswi Sharma
17130	Understanding Technology Adoption: A case of ICS from Sindhupalchowk, Nepal	Sagar Regmi
17132	Performance Analysis of a 100 kWp Grid Connected solar Photovoltaic Power Plant in Kharipati, Bhaktapur, Nepal	Bhoj Raj Tiwari
17134	Trend Analysis of Technology News in Nepali News: A case study of The Kathmandu Post	Slesa Adhikari
17142	Estimation of Technical and Non-Technical Losses of an 11kV Industrial Feeder: A Case Study in Kawasoti Distribution Centre	Trilochan Bhattarai
17144	Design Strategies to Energy Efficient Building in Kathmandu Valley: A Case Study of CES-Zero Energy Building at Institute of Engineering	Sundar Lakhe
17145	Grid Integration Studies of Captive and Cogeneration Plant in Sugar Industry: Case Study of Indushankar Sugar Industry Pvt. Ltd.	Sanjeev Ray
17155	Assessment of Feasibility of Solar Irrigation System in Saptari, Nepal	Bal Ram Raut
17157	Reliability Evaluation of Gaighat Radial Distribution Feeder with Distributed Generation Impacts	Anil Kumar Chaudhary
17159	Vertical Acceleration in Network Tied Arch Bridge Due to Moving Vehicle	Ravi Shah
17164	Experimental Performance Analysis of Solar Conduction Dryer (SCD) for Ginger drying	Tek Raj Subedi
17168	Sustainable Energy Integrated in Rural Reconstruction: A Case at Laprak, Dharce Rural Municipality-4, Gorkha	Rukesh Suwal
17176	Seismic Vulnerability of RC Frame Building non complying with MRT based on Slenderness Ratio and Plan Aspect Ratio	Bipul Poudel
17183	Impact of Traffic Bottleneck on Urban Road: A Case Study of Maitighar-Tinkune Road Section	Amit Prasad Timalsena
17188	Seismic Performance of Long Span Open Spandrel Concrete Arch Bridge with and without Cross Bracing	Ashish Karki

**12:00 - 13:00 Lunch****13:00 - 14:00 Keynote Speech by Prof. M. Balakrishnan (IIT- Delhi):****ASSISTECH: Assistive Technology for the Visually Impaired**

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**14:00 - 16:00 Technical Session - II****Session A2: Structure****Chair: Dr. Bharat Mandal**

Paper ID	Title	Presenting Author
17172	Numerical Simulation of Masonry Walls through Inclusion of Interface Elements	Pradhyumna Shrestha
17173	Effect of Column to Beam Moment Capacity Ratio on Seismic Response of Reinforced Concrete Moment Resisting Frame	Sujan Bhandari
17174	Effect of Location of Opening on the Infilled Reinforced Concrete Frame	Umesh Patel
17175	Analysis of Open Circular Reinforced Concrete Shell Roof with Curved Edge Simply Supported	Abhishek Adhikari
17177	Effectiveness of Bracing on RC Moment Resisting Frame Building	Rabindra Upreti
17182	Seismic Vulnerability and Earthquake Losses of RC Frame Buildings of Kathmandu City Core	Sudeep Lamsal
17192	Seismic Response of RC Frame Building with Soft First Storey Considering Soil Structure Interaction	Sajak Thapa

**Session B2: Hydraulic Machines****Chair: Dr. Laxman Paudel**

Paper ID	Title	Presenting Author
17114	Mathematical Modeling for the Design of Francis Runner	Indra Bahadur Biswakarma
17119	Free Vibration Analysis of Selected Pelton Turbine using Dynamic Approach	Laxman Motra
17123	Performance Evaluation of Francis Turbine using Thermodynamics analysis: A Case Study of Kali Gandaki A Hydropower Plant-144 MW	Shiva Kumar Thapa
17138	Design, Fabrication and Testing of Hydraulic Ram Pump with Water Recirculation System	Bibek Sapkota
17150	Performance Evaluation of Hydro Power Plants of Nepal Greater than 10 MW using Data Envelopment Analysis	Sapana Bohara
17154	Performance Evaluation of Micro-hydro Projects in Nepal	Ramesh Ranabhat
17167	Design, CFD Analysis, Fabrication, Testing and Efficiency Evaluation of Low Head Pico-Propeller turbine Without Guide Vanes	Manish Koirala

**Session C2: ICT****Chair: Dr. Basanta Joshi**

Paper ID	Title	Presenting Author
17147	Ontology based Job-Candidate Matching using Skill Sets	Subhash Paudel
17158	A Qualitative and Quantitative Analysis of the Political Discourse on Nepalese Social Media	Mandar Sharma
17161	Infinite Server Queueing Model with State Dependent Arrival and Service Rates	Sushil Ghimire
17162	Object Detection in Images using Region based CNN	Deepesh Lekhak
17169	Improved Salient Object Extraction using Structured Matrix Decomposition and Contour Based Spatial Prior	Ramesh Bhandari
17179	A Novel Approach to Traffic Sign Localization and Recognition Based on Single Shot Multibox Detector	Sushma Shrestha
17186	Indoor Odometry and Point Cloud Mapping	Bikram Acharya
17193	Difference Between User Experience in Implementation of Redirected Walking in Referenced Environment and Unreferenced Environment	Ashu Adhikari

**IOE Graduate Conference 2017 : : Program Schedule**

Venue: Department of Architecture, Pulchowk Campus

Day 2 (Dec 30, Saturday)

**10:00 - 12:00 Technical Session - III****Session A3: Electrical / Electronics****Chair: Dr. Dibakar Raj Pant**

Paper ID	Title	Presenting Author
17104	Design of Tri-channel Active Electrode EEG Device for Classification of Motor Imagery Brainwaves	Saroj Bista
17139	Performance Analysis of Solar PV System of Teaching Hospital, Kathmandu, Nepal	Ashok Aryal
17143	Optimal PV Inverter Reactive Power Control and Real Power Curtailment to Improve the Performance of Low Voltage Distribution System	Sunil Kumar Mahto
17151	Optimal Reactive Power Control for Distribution Network Loss Reduction	Roshani Thapa
17153	Effect of Grounding Resistance and Lightning Arrester Non-linear Characteristics in Electrical Distribution System	Mukesh Gautam
17201	Analysis and Optimization of Magnetic Resonant Wireless Power Transfer System	Binay Paudyal

**Session B3: Transportation / Geology / Environment****Chair: Dr. Indra Acharya**

Paper ID	Title	Presenting Author
17141	A Strain-Based Fatigue Damage Model for Woven Fabric Composites	Sajan Shakya
17148	Stability Analysis of Cut-slope: A case study of Kathmandu- Nijghad Fast track	Gopal Kharel
17160	A Study of Effect of Filler Contents and Filler Types in Marshall Stability and Flow Value in Asphalt Concrete	Niraj Bohara
17180	Reinforcement of Soil Using Recycled Polyethylene Terephthalate (PET) Bottle Strips	Rashik Karmacharya
17181	Study of Rainfall Thresholds for Landslide in Soil Slopes Based on Numerical Modeling	Sapath Rajbhandari
17190	Comparative Study of Gravel and Anthracite as Media in Up Flow Filter	Ravi Chandra Joshi

**Session C3: Energy and Environment - I****Chair: Dr. Shreeraj Shakya**

Paper ID	Title	Presenting Author
17112	Design, Fabrication and Testing of Charcoal Retort	Sarjan Maharjan
17122	Energy Recovery Potential from Spent Grains in Breweries of Nepal	Jainendra Chaudhary
17127	Impact of Renewable Energy Subsidy Policy in Rural Electrification	Madhusudhan Adhikari
17135	Energy Demand and Emissions Mitigation Potential of Mass Transportation Vehicle: A Case Study of Ring Road Kathmandu Valley	Prativa Gautam
17137	Assessment to Identify the Techno-economic and Sustainable Hybrid Energy Model for Remote Area of Nepal	Narayan Prasad Poudel
17146	Comparative Study of Gaseous and Particulate Emissions from Traditional and Modified Charcoal Production Kilns	Dipak Sharma

**12:00 - 13:00 Lunch**

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Day 2 (Dec 30, Saturday)

**13:00 - 15:00 Technical Session - IV****Session A4: Energy and Environment - II**

Chair: Dr. Ajay Kumar Jha

Paper ID	Title	Presenting Author
17107	Implementation of Decision Engineering Tool on International Destination Selection in Aviation: A Case of Nepal Airlines Corporation	Krishna Prasad Gaihre
17108	Solar PV Pumping Technology for the Development of Agriculture in Mustang, Nepal: A case study of Tiri Village	Sujita Thakali
17128	Contamination Control Behavior Practice of Puff Industry: A Case Study of Puff Unit of Khajorico Pvt. Ltd. Chapagaun Lalitpur , Nepal	Sanjib Kumar Yadav
17140	Effect of Pulse Charging in Lead Acid Batteries Used in Electric Vehicles of Nepal	Ram Raj Khanal
17149	Analysis of Nepal's Long Term Electricity Demand Using End Use Methodology	Manjana Ghimire
17156	Driving Factors of Energy Consumption in Transport Sector	Anita Prajapati
17194	Design, Fabrication and Testing of Waste Plastic Pyrolysis Plant	Prabin Pradhananga

**Session B4: Infrastructure Planning**

Chair: Prof. Sudha Shrestha

Paper ID	Title	Presenting Author
17101	Assessment of Building Envelope Materials for Sustainable Private House Reconstruction (A Multi-Criteria Decision Analysis for case of Dhoksan)	Parikshya Singh
17102	Exploring Smart Rural Planning at Jhong, Mustang: A step towards Sustainable Development	Niranjan Shrestha
17115	A Housing Morphology for the Case of Proposed Panchkhal Smart City	Anjana Shrestha
17126	Urge of New Town: Energy Resilient Urban Morphology	Akansha Gupta
17152	Passive solar approaches for New Town Development: A case at Baireni-Galchhi(400-500m)	Prerana Tuladhar
17165	Sustainable Design and Thermal Comfort Strategy: Cases of Urban "Affordable Housing" in Nepal	Pratiksha Shrestha
17170	Earth as Building Material for Sustainable Development: Case from Jhong, Mustang	R M Pandey

**Session C4: Transportation / Urbanization**

Chair: Dr. Basanta Raj Adhikari

Paper ID	Title	Presenting Author
17131	Concept of Urban Renewal and Its Suitability to Kathmandu	Subid Ghimire
17184	Performance Improvement of a Signalized Intersection: A Case Study of New Baneshwor Intersection	Sakar Shrestha
17185	The relationship between LAA value and Thickness of Base Course of Different Aggregate Samples of Nepal	Sashank Uprety
17189	Integrated Roadside Vegetation Management along the Highways of Nepal	Shubhechcha Bhatta
17196	A Study on the Practice of Implementation of Quality Assurance Plan in Nepal: A case study in Department of Road	Sanjay Kasula
17197	Effect of Aggregate Gradation Variation on the Marshall Mix Properties of Asphalt Concrete	Rajendra Maharjan
17198	Using Logistic Regression to Estimate the Influence of Crash Factors on Road Crash Severity in Kathmandu Valley	Rajeeb Shakya

**15:00 - 16:00 Closing**