त्रिभुवन विश्वविद्यालय
Tribhuvan University
इन्जिनियरिङ्ग अध्ययन संस्थान
Institute of Engineering
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फोन - ४२४६४६५, ४२४६३०७
फ्याक्स: ९७७-१-४२४७३४०

Date: 2083-04-11

Notice

This is to inform to all the faculties applying for 'Faculty Research Grant 2083-084" that all the following proposals have been shortlisted for presentation of proposal defense: All the principal investigators are requested to prepare a **Power-point presentation slides** to be presented within 15 minutes. The time, date and venue for presentation will be announced later.

S N	Proposal Title .	Principle Investigator	Department
1	Functional Transformation of Traditional Residential Buildings in the Historic Core of Madhyapur Thimi, Nepal	Ar. Samita Shrestha	Architecture Department
2	Analyzing Electrical Grid Resilience of Nepal for Electric Vehicle Integration	ER. Sajendra Man Bajracharya	Mechanical Engineering
3	Design and Performance Evaluation of Solar-Battery Hybrid Fixed- Wing UAV for High-Altitude Environmental Monitoring in the Nepal Himalayas	ER. Pratik Adhikari	Automobile and Mechanical Engineering
4	Confidence-Aware Network Digital Twin for Safe Change Validation and Fault Localization under Partial Observability	ER. Kobid Karki	Electronics and Computer Engineering
5	Evaluation of the Marshall Characteristicts, temperature susceptibility, and moisture resistance of waste HDPE-Modified Assphalt Concrete Mixtures	Er. Sukriti Suvedi	Civil Engineering
6	Quantifying and Decoupling Environmental and Operational Variability (EOV) in Reinforced Concrete Frame Buildings for Structural Health Monitoring in Nepal	Dr. Sanjeema Bajracharya	Civil Engineering
7	Fabrication and characterization of eco-friendly cellulose acetate membranes for sustainable wastewater remediation	Dr. Dinesh Shah	Applied Science
8	ML Assisted prediction of biomass pellet quality from sal leaf and sawmill wood-waste blends: an experimental and data driven approach	Er. Suman Acharya	Industrial Engineering
9	Leverage ML for proactive speed limit safety assessment: A Geospatial and mobility data driven framework	Dr. Indra Narayan Yadav	Civil Engineering
10	Numerical and Experimental Investigation of Refrigerant Performance Optimization and Environmental Impact in a Domestic Vapor Compression Refrigeration System	Er. Kamal Pokherel	Industrial Engineering
11	Explainable wind-aware spatio temporal graph NN for short term PM2.5 forecasting and estimation at unmonitored sites in kathmandu valley	Er. Suwarna Lingden	Electronics and Computer Engineering

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12	Real time radar subsurface ground penetration mapping VIA awitched SFCW antenna array and back projection migration	Er. Umesh Kanta Ghimire	Electronics and Computer Engineering
13	Chirp spread spectrum for distrubance constrained power line communication on low voltage DC microgrids	Er. Praches Acharya	Electronics and Computer Engineering
14	Assesing wheelchair users experiences of ramp acessibility in public buildings: implication for NBC 296:2024	Ar. Bimala Tuladhar	Architecture Department
15	Experimental and numerical benchmarking of the sesmic response of a reconfigurable framed structure	Dr. Alin Chandra Shakya	Civil Engineering
16	Development of Low-Cost multi sensor structural health monitoring system for three storey building prototype	Dr. Ram Prasad Neupane	Civil Engineering
17	Design, fabrication and performance analysis of a low-cost dynamic torque transducer with on shaft signal digitalization and flexure enhanced sensing element	Er. Bishal Jha	Mechanical Engineering
18	Bone conduction hearing with analog and ML based noise suppression	Er. Ganesh Kumal	Electronics and Computer Engineering

Thank you for your cooperation.

Ar. Pradeep Adhikari
(Assistant Professor)
Head, Research and Development Unit
Thapathali campus