

JOURNAL OF

ENGINEERING ISSUES AND SOLUTIONS

Volume 1, Issue 1

April 2021



Official Journal of Nepal Engineers' Association (NEA)

Table of Contents

Evaluation of weibull parameter estimators for wind speed of Jumla, Nepal.....	1
<i>Ayush Parajuli</i>	
Assessment of the impact of COVID-19 on transportation and its inter-linked sectors of Nepal	8
<i>Dipendra Bahadur Singh, Deepak Kumar Sah</i>	
Shear and tensile bond strengths of autoclaved aerated concrete (AAC) masonry with different mortar mixtures and thicknesses.....	20
<i>Raghav Tandon, Sanjeev Mahajan, Suraj Gautam</i>	
Voltage stability analysis of wind power plant integration into transmission network of Nepal	32
<i>Sagar Dharel, Rabindra Mahajan</i>	
A comparative study of structural parameters of a RCC T-girder bridge using loading pattern from different codes	46
<i>Salav Sigdel</i>	
Analyzing effectiveness of active learning through project-based learning approach in university level ICT courses.....	59
<i>Dhiraj Shrestha, Satyendra Nath Lohani, Roshan Manjushree Adhikari</i>	
Influence of structural irregularities on seismic performance of RC frame buildings.....	70
<i>Krishna Ghimire, Hemchandra Chaulagain</i>	
Numerical modelling of the sand particle flow in pelton turbine injector.....	88
<i>Tri Ratna Bojacharya, Rajendra Shrestha, Ashesh Baba Timilsina</i>	
Effects of source digital elevation models in assessment of gross run-off-river hydropower potential: A case study of West Rapti Basin, Nepal	106
<i>Sunil Bista, Umesh Singh, Nagendra Kayastha, Bhola NS Ghimire, Rocky Talchahadel</i>	
Window to wall ratio and orientation effects on thermal performance of residential building: A case of Butwal Sub-Metropolis.....	129
<i>Sanjaya Upadhyay, Shiva Kafley, Parsha Shrestha</i>	
Design and simulation of components of vacuum forming machine using household vacuum cleaner	138
<i>Navaraj Adhikari, Nirajan Sharma Timilsina, Sunshar Gautam, Snehraj Kephie, Pratisthit Lal Shrestha</i>	
Development of rainfall – runoff model for extreme storm events in the Bagmati River Basin, Nepal ...	158
<i>Nirajan Devkota, Narendra Man Shakya</i>	
A study on FTTH implementation and migration in Nepal	174
<i>Naba Raj Khatiwada, Babu R Devwedi</i>	