

ISSN-2594-343x

# **Journal of** **Innovations in Engineering Education**

Volume - 3, Issue - 1, March 2020





## CONTENTS

AERIAL VIEW BASED GUIDANCE SYSTEM Abhijan Wasti, Saugat Tripathi, Sandeep Regmi, Sanjeev Yadav, and Dinesh Baniya Kshatri	1-13
A MODEL OF CUBE-SAT Abhishek Silwal, Abhishek Ghimire, Kapalik Khanal, and Umesh Kanta Ghimire	14-20
MITIGATION OF GHG EMISSION BY REPLACING DIESEL BUSES WITH ELECTRIC BUSES IN KATHMANDU VALLEY "A CASE STUDY OF SAJHA YATAYAT" Anil Nepal	21-28
UN-PLASTICIZED POLYVINYL CHLORIDE AND ITS GROWTH ON NEPALESE MARKET Ankit Shrestha, Sudan Neupane, and Lekhnath Aryal	29-41
A COMPARATIVE STUDY OF WATER TURBIDITY REMOVAL EFFICIENCY OF ANTHRACITE AND GRAVEL IN ROUGHING FILTER Bhesh Kumar Karki and Iswar Man Amatya	42-49
REHABILITATION ISSUE OF STONE SPOUTS AS A PART OF AN ALTERNATIVE SOURCE OF PUBLIC WATER SUPPLY SCHEME WITHIN LALITPUR METROPOLITAN CITY AREA Govinda Prasad Poudel	50-53
FATIGUE IN CONTEXT OF GENDER AND CONCRETE STRUCTURE FOR SUSTAINABLE DEVELOPMENT-A COMPARABLE THOUGHT Indra Narayan Yadav and Kamal Bahadur Thapa	54-70
EFFICIENT ESTIMATION OF NEPALI WORD REPRESENTATIONS IN VECTOR SPACE Janardan Bhatta, Dipesh Shrestha, Santosh Nepal, Saurav Pandey, and Shekhar Koirala	71-77
HYDROLOGICAL AND HYDRAULIC ANALYSES OF URBAN STORM WATER DRAINAGE SYSTEM OF MAJOR AREA OF POKHARA, NEPAL Keshav Basnet, Krishna Chettri, Ganesh Parajuli, and Achyut Bhandari	78-91
SEISMIC VULNERABILITY ASSESSMENT OF TYPICAL STONE MASONRY BUILDING Kshitiz Paudel	92-106

EFFECT OF NATURAL AND SYNTHESIZED OIL BLENDS WITH DIESEL BY VOLUME ON LUBRICATION AND PERFORMANCE OF INTERNAL COMBUSTION ENGINE Laxman Palikhel, Rupesh Lal Karn, Suman Aryal, and Barsha Neupane -----	7-114
PERFORMANCE TESTING OF FOLDABLE ELECTRIC POWERED WHEELCHAIR Raj Kumar Chaulagain, Gaurav Dahal, Alkesh Nepal, Amrit Tiwari, and Pramod Regmi -----	122
RELIABILITY BASED MAINTENANCE IN HYDROPOWER: A CASE STUDY OF BIJAYPUR-I SMALL HYDROPOWER PLANT Rajan Sharma and Nawaraj Bhattarai -----	123-130
WOMEN SELF-DEFENSE AND SECURITY SYSTEM Richa Pokhrel, Asmita Jha, Pooja Singh, Pragya Jha, and Rama Bastola -----	131-137
AUTOMATIC IMAGE CAPTIONING USING NEURAL NETWORKS Subash Pandey, Rabin Kumar Dhamala, Bikram Karki, Saroj Dahal, and Rama Bastola -----	138-146
DESIGN AND IMPLEMENTATION OF A PORTABLE ECG DEVICE Sulove Bhattarai, Sudip Bhujel, Santosh Adhikari, and Shanta Maharjan -----	147-154
WATER QUALITY MONITORING SYSTEM USING IOT Suruchi Pokhrel, Anisha Pant, Ritisha Gautam, and Dinesh Baniya Kshatri -----	155-164
FACTORS AFFECTING THE ADOPTION OF DIGITAL PAYMENT SYSTEMS Sushant Raj Giri and Subodh Kumar Ghimire -----	165-174
DESIGN OF LOG PERIODIC DIPOLE ARRAY ANTENNA RANGING FROM 30 TO 150 MHZ Upendra Subedi, Rabin Nepal, Rhimesh Lwagun, and Sanjay Rijal -----	175-183