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Greetings from BLDEACET,

It is well known that, "Today's innovation is Tomorrow's History", Research and Development becomes an integral part of any Education institution. The faculties of BLDEACET, in addition to the academics, are actively involved in Research and Development activities. As a result, the institute has published 15 research publications in Scopus indexed Journals during 1st quarter of 2022. Also, the faculties have received 6 grants from Karnataka Science and Technology Academy (KSTA), Bengaluru, to organize various workshops and short-term study. It is moment of pride that during 21st VTU Annual Convocation 4 faculties of BLDEACET have received PhD degree. Let's hope the research activities of the Institute reach even more greater heights.

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Research Publications during January-March 2022

- Noola, D.A., Basavaraju, D.R. Corn leaf image classification based on machine learning techniques for accurate leaf disease detection. *International Journal of Electrical and Computer Engineering*. 2022, 12(3): 2509-2516.
- Hiremath, C.R., Kadoli, R., Adsorption and desorption through packed and fluidized clay-based composite desiccant beds: a comparison study. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*. 2022, 44(4): 157
- Dixit, U.D., Shirdhonkar, M.S. An Improved Fingerprint-based Document Image Retrieval using Multi-resolution Histogram of Oriented Gradient Features. *International Journal of Engineering, Transactions A: Basics*. 2022, 35(4): 750-759.
- Killedar, L.S., Vernekar, P.R., Shanbhag, M.M., Shetti, N.P., Malladi, R.S., Veerapur, R.S., Reddy, K.R. Fabrication of nanoclay-modified electrodes and their use as an effective electrochemical sensor for biomedical applications. *Journal of Molecular Liquids*. 2022, 351: 118583
- Ghuli, A., Edla, D.R., Tavares, J.M.R.S. Epileptic seizure endorsement technique using DWT power spectrum. *Journal of Supercomputing*. 2022, 78(6): 8604-8624.
- Niranjana, S.J., Kubsad, S.S., Manjunatha, S., Nagaraj, Y., Bhavi, I., Angadi, B.M., Chamkha, A.J., Vanarotti, M.B. Experimental Investigation and Numerical Simulation of Air Circulation in a Non-AC Bus Coach System. *International Journal of Engineering, Transactions A: Basics*. 2022, 35(3): 572-579.
- Patil, R.S., Biradar, N., Pawar, R. A new automated segmentation and classification of mammogram images. *Multimedia Tools and Applications*. 2022, 81(6): 7783-7816
- Hosamani, B.R., Doddi, S., Puthani, P. Assessment of density and kinematic viscosity of two methyl ester blends at elevated temperatures. *Materials Today: Proceedings*. 2022
- Kondaguli, R.S., Malaji, P.V. Geometry design and performance evaluation of thermoelectric generator. *European Physical Journal: Special Topics*. 2022
- Math, R.K.M., Dharwadkar, N.V. Early detection and identification of grape diseases using convolutional neural networks. *Journal of Plant Diseases and Protection*. 2022
- Hatti, D.I., Sutagundar, A.V. Resource Provisioning in Fog-Based IoT. *Lecture Notes in Networks and Systems*. 2022, 336: 433-447

- Chaurha, A., Malaji, P.V., Mukhopadhyay, T. Dual functionality of vibration attenuation and energy harvesting: effect of gradation on non-linear multi-resonator metastructures. European Physical Journal: Special Topics. 2022.
- Zende, A.A., Khadiranaikar, R.B., Momin, A.I.A. Shear Behavior of High Strength Self-Compacting Concrete with Lower Transverse Reinforcement Index. Journal of Applied Science and Engineering (Taiwan). 2022, 25(4): 649-657.
- Dhundasi, A.A., Khadiranaikar, R.B., Momin, A.I.A. Stress-strain Characteristics of Reactive Powder Concrete under Cyclic Loading. International Journal of Engineering, Transactions A: Basics. 2022, 35(1): 172-183.
- Bannur, M.M., Jangamshetti, S.H. Energy Prospects for Sustainable Rural Livelihood in Vijayapur District, Karnataka India. Lecture Notes in Electrical Engineering. 2022, 767: 189-198.

Faculty/Institution Achievement

- Dr. Pradeep V. Malaji, Vice Principal (Academic and Research) and Associate Professor, Dept. of Mechanical Engineering has been admitted as Associate of Karnataka Science and Technology Academy (KSTA), Department of Science and Technology, Government of Karnataka.

BLDEACET congratulates the following faculty members for receiving the PhD degree certificate during the 21st VTU Annual Convocation held on 11th March 2022 at VTU, Belagavi

Dr. Ravi Hosur, Assistant Professor, Dept. of Computer Science and Engineering

Dr. Naveen N Desai, Professor and Head, Dept. of Civil Engineering

Dr. A. D. Katagond, Assistant Professor, Dept. of Mechanical Engineering

Dr. Ravi Naik, Research Scholar, completed the PhD under the guidance of Dr.(smt).G.V.Patil, Vice Principal and Professor, Dept. of Mechanical Engineering.

Research Grants received during January to March 2022

- Dr. Naveen N. Desai (PI), Dr. Ramesh S. Malladi (CoI-1) and Dr. Basavaraju Manu (CoI-2) received a research grant of Rs. 14.50 Lakhs under VTU Research Grants Scheme-2022 for the project proposal “A study of Organic and Inorganic Contaminants removal from Leachate by Photocatalytic nanomaterials”.
- Dr. Pradeep V. Malaji (PI), Dr. Iresh G. Bhavi (CoI-1) and Dr. Rajinderkumar Math (CoI-2) received a research grant of Rs. 8.00 Lakhs under VTU Research Grants Scheme-2022 for the project proposal “Analysis and Development of 3D-Printed meta-structure based broadband energy harvester for IoT System”.
- Dr. Ramesh Jeergal, Associate Professor and Head, Dept. of Mechanical Engineering, received a grant of Rs. 30,000/- from KSTA, Bengaluru to organize an STTP on “Flex Fuel Engines for Future Transportation”
- Dr. Pradeep Malaji, Vice Principal (Academic and Research) and Associate Professor, Dept. of Mechanical Engineering, received a grant of Rs. 25,000/- from KSTA, Bengaluru to organize a workshop on “IoT trends and Applications.
- Dr. M. M. Bachalapur, Chief Librarian and Dr. Kailash S. Chadchan, Assistant Professor of Chemistry jointly received a grant of Rs. 20,000/- from KSTA, Bengaluru to organize a workshop on “Research Publication and Ethics”.
- Dr. Basavaraj Angadi, Associate Professor, Dept. of Mechanical Engineering, received a grant of Rs. 30,000/- from KSTA, Bengaluru to organize an Outreach Programme on “Automation Systems and 3D Printing”
- Dr. Anand Ghuli, Associate Professor, Department of MCA, received a short-term study grant of Rs. 35,000/- from KSTA, Bengaluru for the proposal “Non-invasive EEG signal classification, analysis and recognition of the frontal and occipital lobe to study the degree of short-term memory in subjects’ behavior for medical diagnosis and treatment”.
- Prof. Ravindra Kondaguli, Assistant Professor, Department of Mechanical Engineering, received a short-term study grant of Rs. 35,000/- from KSTA, Bengaluru for the proposal “Thermoelectric generator for Hybrid Electric vehicles”
