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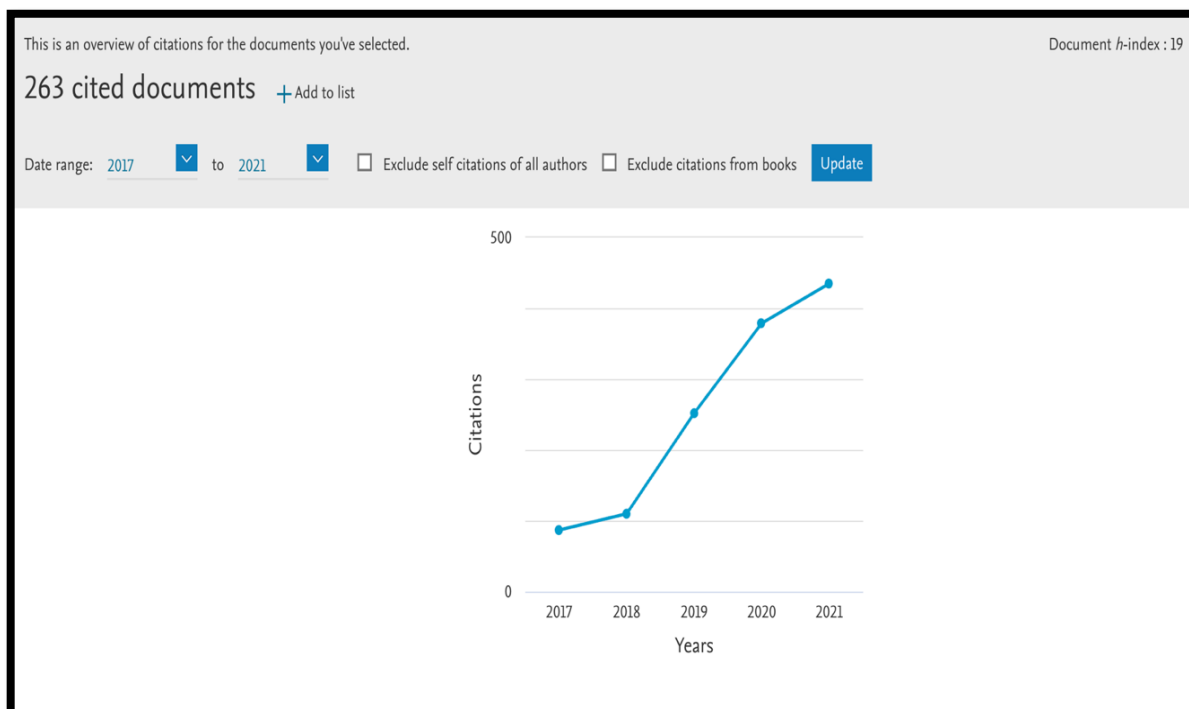
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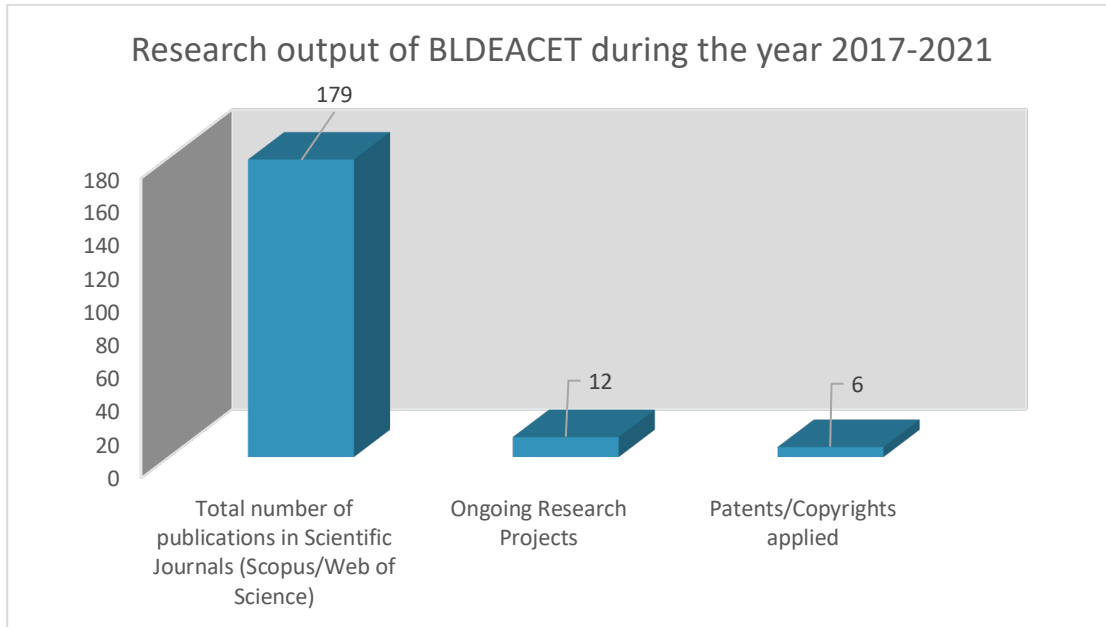
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This E- Research Bulletin explores the progress of the institute's research activities. It also motivates the researchers to know how the research progresses and enlightens the new research opportunities. From the last five years, from 2017 to 2021, research activities in the campus have been growing and sanctioned various projects from funding agencies like VGST, KSCST, AICTE, etc.

From 2017 to 2021 the total research publications is 179 out of 263 publications as shown in the Scopus citation database and the h-Index of the institute is 19 and total citations are 1756. It shows we are on the right path to achieve new heights in the research activities. Research and Development cell are encouraging all faculty members to publish articles in Scopus/WoS indexed journals.



Info-graph of Research Activities during the year 2017-2021.



Publications for the period of October-December 2021

- Hiremath, C.R. Ravikiran, K. Experimental analysis of low-temperature grain drying performance of vertical packed clay and clay-additives composite desiccant beds. *Sadhana-Academy Proceedings in Engineering Sciences*, 2021, 46 (1), pp. 37.
- Patil, R.S. Biradar, N. Automated mammogram breast cancer detection using the optimized combination of convolutional and recurrent neural network. *Evolutionary Intelligence*, 2021, 14(4), pp. 1459-1474.
- Jadhav, A.S. Patil, P.B. Biradar, S. Optimal feature selection-based diabetic retinopathy detection using improved rider optimization algorithm enabled with deep learning. *Evolutionary Intelligence*, 2021, 14(4), pp. 1431-1448.
- Nandyal, S., Kattimani, S.L. Umpire gesture detection and recognition using HOG and non-linear support vector machine (NL-SVM) classification of deep features in cricket videos. *Journal of Physics: Conference Series*, 2021, 2070 (1), pp. 012148.
- Momin, A.I.A. Khadiranaikar, R.B. Zende, A.A. Flexural strength and behavioral study of high-performance concrete beams using stress-block parameters. *International Journal of Engineering, Transactions B: Applications*, 2021, 34 (11), pp. 2557-2565.
- Tanksali, A. Soraganvi, V.S. Assessment of impacts of land use/land cover changes upstream of a dam in a semi-arid watershed using QSWAT. *Modelling Earth Systems and Environment*, 2021, 7(4), pp. 2391-2406.
- Dhange, M. Sankad, G. Bhujakkanavar, U. Blood Flow with Multiple Stenoses in a Force Field. *Mathematical Modelling of Engineering Problems*, 2021, 8 (4), pp. 538-546.

Achievement by Research Scholars/Students

- Prof. Vinaykumar Bagali, Prof. Vinod Jiddi and Wasim Jahagirdar, received “Best Paper Presentation” award for the paper entitled “Vermi composting of Biodegradable Waste: An IoT based Approach” during 5th International conference Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT-2021) in association with IEEE Bangalore Section and IEEE Mysore Sub Section, organized by GSSS Institute of Engineering & Technology for Women, Mysuru on 10th & 11th December 2021.
- Prof. Sunil Hattaraki, Abhilash Patil and Sujay Kulkarni received “Best Paper Presentation” award for the paper entitled “Multipurpose Vertical Plotter Machine-MVPM” during 5th IEEE Conference on Computational Systems and information Technology for Sustainable Solutions (CSITSS 2021) organised by R. V. College of Engineering, Bengaluru.
- Three project groups from the Computer Science, Civil, and Electrical and Electronics departments bagged the Best Project of the Year award during the concluding event of 44th series Student project programme (SPP) organised by Karnataka State Council for Science and Technology (KSCST) on 15th September 2021.

Best Projects of the Year (2020-21)				
Sl. No.	Project title	Branch	Name of the Guide(s)	Name of the Students
1	Plastic Pavement Blocks	Civil Engineering	Dr. Asif Iqbal Momin	Mr. Vinay Guttaragi Ms. Shweta Konnur Mr. Sagar Jadhav Ms. Vijayalaxmi Nidoni
2	An Automated Social Distance Monitoring and Alarm System Based on Human Structure Using Video Surveillance in Covid-19 Pandemic by AI Techniques	Computer Science and Engineering	Prof. Suvarna L. Kattimani	Mr. Prasanna Maidargi Mr. Sandeep C Bajantri Mr. Vasant S Bidari Mr. Mohammed Wasim Jahagirdar
3	Smart Waste Recycling System	Electrical and Electronics Engineering	Dr. Veeresh S Gonal	Mr. Aijaz Inamdar Mr. Shreekant S Mulimani Mr. Sachin Bhairashetti

Faculty/Institution Achievement

- BLDEA's V. P. Dr. P. G. Halakatti College of Engineering and Technology Vijayapur is awarded the Best Performing College of the Year award in the state during the concluding event of 44th series Student project programme (SPP) organised by Karnataka State Council for Science and Technology (KSCST) on September 15, 2021.
- Lublin University of Technology, Poland organised two days' workshop on "Energy Harvesting" during October 14-15, 2021. One of the sessions of virtual workshop was jointly conducted by Department of Mechanical Engineering, B.L.D.E. A's V. P. Dr. P. G. Halakatti College of Engineering and Technology, Vijayapur and IIT Madras, Chennai. Dr. Pradeep V. Malaji of BLDEACET and Dr. S. F. Ali of IIT Madras organised the event.
- Dr. Swastika N. Das, Professor, Department of Chemistry, has been admitted as Associate of Karnataka Science and Technology Academy (KSTA), Department of Science and Technology, Government of Karnataka.
- Dr. P V Malaji, Associate Professor, Mechanical Engineering Department, has chaired a session at XVI International conference on Vibration Engineering & Technology of Machinery (VETOMAC 2021) held at BMS College of Engineering, Bangalore from December 16-18, 2021.
- As a part of International Webinar Series, Department of Mechanical Engineering and Department of Automobile Engineering in association with R & D Cell, organised a webinar on "Systematic Innovative Thinking" on December 30, 2021. Dr. Rom Schrift, Associate Professor, Indiana University and Mr. Eli Itin, Innovation Consultant, Hero Motors were the Resource persons for the webinar.
- As a part of International Webinar Series, Department of Mathematics and Chemistry in association with R & D Cell, organised a webinar "On the Mathematical modelling of Epidemics caused by infectious diseases" on October 8, 2021. Dr. Americo Cunha, Assistant Professor, Applied Mathematics, UERJ, Brazil, was the Resource person.
- Prof. Ravi Hosur, Assistant Professor, Department of Computer Science and Engineering has successfully defended his Ph.D. Thesis entitled "Depth based 3D Image Processing for Modelling and recognition of Objects" on 31st December 2021 and he is recommended by the expert committee for the award of Ph.D. degree.
- Dr. Swastika N. Das, Professor, Department of Chemistry, has chaired a session for the Invited lecture on "Medical Ethics in Teaching, Research and Practice" on 22nd December, 2021, jointly organized by Karnataka Science and Technology Academy (KSTA), and BLDE (Deemed to be University)'s Shri. B. M. Patil Medical College, Hospital and Research Centre, Vijayapura, supported by UNESCO-UNITWIN.
- Dr. Prema T. Akkasaligar, Professor, Department of Computer Science and Engineering, is awarded for her exceptional contribution as Judge during "Toycathon, 2021" organized by AICTE, New Delhi in association with Minister of Education's Innovation Cell, Government of India.
- Department of Computer Applications (M.C.A), B.L.D.E. A's V. P. Dr. P. G. Halakatti College of Engineering and Technology, Vijayapur, and National Institute of Technology, Warangal, jointly organized a Two-Week Faculty development programme on "Machine Learning and Human Computer Interaction with Python" from 06/12/2021 to 15/12/2021, sponsored by E & ICT Academy and Ministry of Electronics and Information Technology (MeitY), Government of India.
- Department of Electronics and Communication Engineering, B.L.D.E. A's V. P. Dr. P. G. Halakatti College of Engineering and Technology, Vijayapur, in association with NIT, Warangal has organized Two Weeks Faculty Development Program on "Artificial Intelligence and Machine Learning with Python Programming" from 11/10/2021 to 22/10/2021.
