



Vidya Pratishthan's

Kamalnayn Bajaj Institute of Engineering & Technology, Baramati

List of Journal Publications (Since 2017-18)

| SN | Title of paper | Name of the author/s | Department of the teacher | Name of journal | Year of publication | ISSN number | Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number | | |
|----|--|---|---------------------------|--|---------------------|-------------|---|---|--|
| | | | | | | | Link to website of the Journal | Link to article / paper / abstract of the article | Is it listed in UGC Care list/Scopus/Web of Science/other, mention |
| 1 | Critical study of steel beams with web openings | Morkhade, S.G. and Gupta, L.M. | Civil Engineering | Australian Journal of Structural Engineering | 2021-22 | 1328-7982 | https://www.tandfonline.com/journals/tsen20 | https://www.tandfonline.com/doi/full/10.1080/13287982.2022.2117319 | ESCI/SCOPUS |
| 2 | Buckling performance evaluation of cellular beams strengthened with flange cover plate | Morkhade, S.G., Jagtap, K.R., Ghorpade, P.S., Ahiwale, D.D., Najm, H. M. | Civil Engineering | Asian Journal of Civil Engineering | 2021-22 | 1563-0854 | https://www.springer.com/journal/42107 | https://link.springer.com/article/10.1007/s42107-022-00483-3 | SCOPUS/UGC Care |
| 3 | Effect of web post width on strength capacity of steel beams with web openings: Experimental and analytical investigation. | Morkhade, S.G., Gupta, L.M., Carlos Humberto Martins. | Civil Engineering | Practice Periodical on Structural Design and Construction | 2021-22 | 1084-0680 | https://ascelibrary.org/journal/ppscfx | https://ascelibrary.org/doi/10.1061/%28ASCE%29SC.1943-5576.0000688 | ESCI/SCOPUS |
| 4 | Parametric study of trapezoidally corrugated web beam | Morkhade, S.G. and Gupta, L.M. | Civil Engineering | Materials Today: Proceedings | 2021-22 | 2214-7853 | https://www.journals.elsevier.com/materials-today-proceedings | https://www.sciencedirect.com/science/article/pii/S2214785321079037 | SCOPUS |
| 5 | Optimization of Self-cured High-Strength Concrete by Experimental and Grey Taguchi Modelling | Nayak, C.B., Suryawanshi, N.T., Thakare, S.B, Kate, G.K. | Civil Engineering | Iranian Journal of Science and Technology, Transactions of Civil Engineering | 2021-22 | 2228-6160 | https://www.springer.com/journal/40996 | https://link.springer.com/article/10.1007/s40996-022-00897-8 | SCIE/SCOPUS/UGC Care |
| 6 | Use of fly ash cenosphere in the construction Industry: A review | Nayak, C.B., Zanjad, N. S., Pawara, S. | Civil Engineering | Materials Today: Proceedings | 2021-22 | 2214-7853 | https://www.sciencedirect.com/journal/materials-today-proceedings | https://www.sciencedirect.com/science/article/pii/S2214785322017072?via%3Dihub | Scopus |
| 7 | Engineering application of organic materials with concrete: A review | Nayak C.B, Bengal, S. N., Pammar, L.S | Civil Engineering | Materials Today: Proceedings | 2021-22 | 2214-7853 | https://www.sciencedirect.com/journal/materials-today-proceedings | https://www.sciencedirect.com/science/article/pii/S2214785322010331?via%3Dihub | Scopus |
| 8 | Modal analysis of cracked cantilever beam using ANSYS software | Dhiraj Ahiwale, Harshada Madake, Nikita Phadtare, Amit Jarande, Deepak Jambhale | Civil Engineering | Materials Today: Proceedings | 2021-22 | 2214-7853 | https://www.journals.elsevier.com/materials-today-proceedings | https://www.sciencedirect.com/science/article/pii/S2214785322000815 | SCOPUS |



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| 9 | Damage detection of warren truss bridge using frequency change correlation | Varsha Patil, Dhiraj Ahiwale | Civil Engineering | Materials Today: Proceedings | 2021-22 | 2214-7853 | https://www.journals.elsevier.com/materials-today-proceedings | https://www.sciencedirect.com/science/article/pii/S2214785321075052 | SCOPUS |
| 10 | Flexural and shear cracking performance of strengthened RC rectangular beam with variable pattern of the BFRP strips | Narule G.N, Sonawane K. K | Civil Engineering | Innovative Infrastructure Solutions | 2021-22 | 2364-4176 | https://www.springer.com/journal/41062 | https://doi.org/10.1007/s41062-022-00785-0 | SCOPUS |
| 11 | Experimental analysis of RC rectangular and square columns confined using carbon fiber composites | Narule,G. N., Bambole, A. N. | Civil Engineering | Materials Today: Proceedings | 2021-22 | 2214-7853 | https://www.journals.elsevier.com/materials-today-proceedings | https://doi.org/10.1016/j.matpr.2022.01.238 | SCOPUS |
| 12 | Experimental investigation on compressive and flexural performance of Forta-fiber reinforced concrete | Narule,G. N., Visapure, A. N. | Civil Engineering | Materials Today: Proceedings | 2021-22 | 2214-7853 | https://www.journals.elsevier.com/materials-today-proceedings | https://doi.org/10.1016/j.matpr.2022.01.244 | SCOPUS |
| 13 | Structural and cracking behaviour of RC T-beams strengthened with BFRP sheets by experimental and analytical investigation | Nayak, C.B, Narule G.N | Civil Engineering | Journal of King Saud University - Engineering Sciences | 2021-22 | 1018-3639 | https://www.sciencedirect.com/journal/journal-of-king-saud-university-engineering-sciences | https://www.sciencedirect.com/science/article/pii/S1018363921000015?via%3Dihub | SCOPUS/UGC Care |
| 14 | Implementation of Reliability Antecedent Forwarding Technique Using Straddling Path | Dr. Santaji Krishna Shinde | COMPUTER | Wireless Communications and Mobile Computing | 2021-22 | 1530-8677 | https://www.hindawi.com/journals/wcmc/about/ | https://doi.org/10.1155/2022/6489185 | Scopus |
| 15 | Mechanical Strengthening of Lightweight Aluminium Alloys through Friction Stir Process | Dr. Santaji Krishna Shinde | COMPUTER | Advances in Materials Science and Engineering | 2021-22 | 1687-8442 | https://www.hindawi.com/journals/amse/about/ | https://doi.org/10.1155/2022/8907250 | Scopus |



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| 16 | Improving the Efficiency of Photovoltaic Panels Using Machine Learning Approach | Dr. Santaji Krishna Shinde | COMPUTER | International Journal of Photoenergy | 2021-22 | 1687-529X | https://www.hindawi.com/journals/ijp/about/ | https://doi.org/10.1155/2022/4921153 | Scopus |
| 17 | A SEMANTIC TRANSFER OF ENGLISH WORDS FOR ACCESSING ENGLISH TEXT IN HINDI | Dr. Dinesh Bhagwan Hanchate | COMPUTER | Stochastic Modeling & Applications | 2021-22 | 0972-3641 | https://www.mukpublication.com/sma-vol-26-1-2022.php | https://www.mukpublications.com/v26-3-si-2022.php | UGC Approved |
| 18 | Integrating Blockchain into Agriculture Supply Chain | Dr. Dinesh Bhagwan Hanchate | COMPUTER | International Journal of Advanced Research in Computer and Communication Engineering | 2021-22 | 2278-1021 | https://ijarce.com/ | https://ijarce.com/papers/integrating-blockchain-into-agriculture-supply-chain/ | Google Scholar/ORCID Indexing |
| 19 | Machine Learning in Horticulture culture Domain: A state-of-art Survey | Dr. Dinesh Bhagwan Hanchate | COMPUTER | Artificial Intelligence in the Life Sciences (Scopus) | 2021-22 | 2667- 3185 | https://www.sciencedirect.com/science/article/pii/S26673185210001062 | https://www.sciencedirect.com/journal/artificial-intelligence-in-the-life-sciences | Scopus/ScienceDirect |
| 20 | Medicine Manufacturing Supply Chain Management System Using Blockchain | Gyankamal Jitendrakumar Chhajed | COMPUTER | Journal of Advanced Research in Computer and Communication Engineering | 2021-22 | 2278- 1021 | https://ijarce.com | https://ijarce.com/papers/medicine-manufacturing-supply-chain-management-system-using-blockchain/ | Google scholar/reserchgate |
| 21 | Evaluation of image quality based on visual perception using antagonistic networks in autonomous vehicles | R. K. Shastri | E&TC Engineering | International Journal of Health Sciences | 2021-22 | 2550-6978 | https://sciencescholar.us/journal/index.php/ijhs | https://doi.org/10.53730/ijhs.v6nS3.8731 | Scopus |
| 22 | Effect of Optimized Deep Belief Network to Patch-Based Image inpainting Forensics | Patil B.H | E&TC Engineering | International Journal of Swarm Intelligence Research | 2021-22 | 1947-9271 | https://www.igi-global.com/journal/international-journal-swarm | https://dl.acm.org/doi/10.4018/IJSIR.304401 | ESCI |
| 23 | Experimental and numerical study on reinforced concrete deep beam in shear with crimped steel fiber | Nayak, C.B. | Civil Engineering | Innovative Infrastructure Solutions | 2021-22 | 2364-4176 | https://www.springer.com/journal/41062 | https://link.springer.com/article/10.1007/s41062-021-00638-2 | SCOPUS/UGC Care |
| 24 | Effect of SiO2 and ZnO Nano-Composites on Mechanical and Chemical Properties of Modified Concrete | Nayak, C.B., Taware, P.P, Jagadale, U.T, Jadhav, N. A., Morkhade, S.G. | Civil Engineering | Iranian Journal of Science and Technology, Transactions of Civil Engineering | 2021-22 | 2228-6160 | https://www.springer.com/journal/40996 | https://link.springer.com/article/10.1007/s40996-021-00694-9 | SCIE/SCOPUS/UGC Care |



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| 25 | Determination of Bacterial Concrete Strength Using Bacillus Subtilis and Lightweight Expandable Clay Aggregate | Dhiraj Ahiwale, Rushikesh Khartode | Civil Engineering | American Journal of Agricultural Science, Engineering, and Technology | 2021-22 | 2158-8104 (Online), 2164-0920 (Print) | https://journals.e-palli.com/home/index.php | https://doi.org/10.54536/ajaset.v5i2.112 | Google Scholar, Crossref, INDEX COPERNICUS INTERNATIONAL (ICI), OpenAIRE |
| 26 | Diuretic For Hypertension: A Review | Sudhir B.Lande | E&TC Engineering | World Journal of Pharmaceutical Research | 2021-22 | 2277– 7105 | https://wjpr.s3.ap-south-1.amazonaws.com/article_issue/10700a9981981a3736196b37aa3bc657.pdf | https://wjpr.s3.ap-south-1.amazonaws.com/article_issue/10700a9981981a3736196b37aa3bc657.pdf | Scopus |
| 27 | Triple Laplace transforms and its properties | Hiwarekar A. P. | General Sciences and Engineering | Advances and Applications in Mathematical Sciences | 2021-22 | 0974-6803 | https://www.mililink.com/journals_ja.php?id=59 | https://www.mililink.com/upload/article/1580658340aams_vol_2011_september_2021_a45_p2843-2851_a_p_hiwarekar.pdf | Web of Science & UGC Care |
| 28 | Cryptographic method based on Laplace-Elzaki transform | Jadhav Shaila S., Hiwarekar A. P. | General Sciences and Engineering | Journal of the Maharaja Sayajirao University of Baroda | 2021-22 | 0025-0422 | https://ugccare.unipune.ac.in/Apps1/Content/Files/pdf/ClovelynaldPdf/ | https://www.researchgate.net/publication/353044110_CRYPTOGRAPHIC_METHOD_BASED_ON_LAPLACE-ELZAKI_TRANSFORM | UGC Care |
| 29 | Synthesis of PbS Thin Film by Chemical Bath deposition Method and its Structural Optical Studies | B. S. Maharnavar, M. G. Bagal, Nitin A. Jadhav, A. R. Pardeshi and P C Pingle | General Sciences and Engineering | Journal of Emerging Technologies and Innovative Research | 2021-22 | 2349-5162 | https://www.jetir.org/ | https://www.jetir.org/papers/JETIR2103352 | UGC Care |
| 30 | Experimental analysis of effective combustion heat release rate for improving the performance of synthetic biogas-diesel dual-fuel engine | Avinash H. Kolekar, Suneet Singh, Anuradda Ganesh | Mechanical | International Conference on Advances in Engineering & Technology | 2021-22 | 1556-7230 | https://www.tandfonline.com/doi/abs/10.1080/145567026.2021.1946215 | https://www.tandfonline.com/doi/abs/10.1080/15567036.2021.1946215 | Scopus, Web of Science |
| 31 | Design & CAD Model of Automatic Drainage | Manisha Lande, Prakash Hadule, Suraj Badekar, Mitali Shinde & Mayuri Tongale | Mechanical | Journal of Huazhong University of Science & Technology | 2021-22 | 1671-4512 | https://www.oriprobe.com/journals/hzgdxxb.html | https://www.researchgate.net/publication/352991143_Design_CAD_Model_of_Automatic_Drainage_Cleanin_g_Machine | Scopus |
| 32 | Multiple Approach of Smart Intelligent Car Parking System | Manisha Lande, Sneha Jadhav, Sharayu Jadhav, Akshay Kamble & Priya Gaikwad | Mechanical | Journal of Huazhong University of Science & Technology | 2021-22 | 1671-4512 | https://www.oriprobe.com/journals/hzgdxxb.html | https://www.researchgate.net/publication/353141646_Multiple_Approach_of_Smart_Intelligent_Car_Parking_System | Scopus |
| 33 | A Review on Vibrational Characteristics of Aluminium (Al) Matrix Composites | Suraj Kumbhar | Mechanical | Journal of Huazhong University of Science and Technology | 2021-22 | 1671-4512 | https://www.oriprobe.com/journals/hzgdxxb.html | https://www.researchgate.net/publication/352932131_A_Review_on_Vibrational_Characteristics_of_Aluminium_Matrix_Composites | Scopus |



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| 34 | A compact ultra-wideband square and circular slot ground plane planar antenna with a modified circular patch | Patil B.H | E&TC Engineering | International Journal of Microwave and Wireless Technologies | 2021-22 | 1759-0787 | https://www.cambridge.org/core/journals/international-journal-of-microwave-and-wireless-technologies | https://doi.org/10.1017/S175907872100129X | Scopus |
| 35 | Advanced Deep Learning and Super Optimization Technique based on Classification of Medical Images | Dr. Santaji Krishna Shinde | COMPUTER | International Journal of Mechanical Engineering | 2021-22 | 0974-5823 | https://www.scopus.com/sourceid/21101016918 | https://kalaharijournals.com/ijme-vol7-issue-jan2022.php | Scopus |
| 36 | Experimental and Analytical Investigation of Castellated Steel Beams with Varying Openings Eccentricity. | Morkhade, S.G., Shirke, T., Mansuke, A., Chavan, M. U, Gupta L.M. | Civil Engineering | Journal of The Institution of Engineers (India): Series A | 2020-21 | 2250-2157 | https://www.springer.com/journal/40030 | https://link.springer.com/article/10.1007/s40030-021-00516-1 | SCOPUS/UGC Care |
| 37 | A state-of-the-art review of vertical ground motion (VGM) characteristics, effects and provisions | Nayak, C.B. | Civil Engineering | Innovative Infrastructure Solutions | 2020-21 | 2364-4176 | https://www.springer.com/journal/41062 | https://link.springer.com/article/10.1007/s41062-021-00491-3 | SCOPUS/UGC Care |
| 38 | Linear Transient Dynamic Analysis of Plates With and Without Cutout | Nayak, C.B., Khante, S.N | Civil Engineering | Arabian Journal for Science and Engineering | 2020-21 | 2191-4281 | https://www.springer.com/journal/13369 | https://link.springer.com/article/10.1007/s13369-021-05523-9 | SCIE/SCOPUS/UGC Care |
| 39 | Optimization of sustainable high-strength-high-volume fly ash concrete with and without steel fiber using Taguchi method and multi-regression analysis | Nayak, C.B,Kate, G.K., Thakare, S.B | Civil Engineering | Innovative Infrastructure Solutions | 2020-21 | 2364-4176 | https://www.springer.com/journal/41062 | https://link.springer.com/article/10.1007/s41062-021-00472-6 | SCOPUS/UGC Care |
| 40 | Quantification study for roof truss subjected to near-fault ground motions | Dhiraj Ahiwale, Prajka Shaha, Kamatchi Palaniyandi, Chittaranjan Nayak, Pushkech Khartede | Civil Engineering | Innovative Infrastructure Solutions | 2020-21 | 2364-4184 | https://www.springer.com/journal/41062 | https://link.springer.com/article/10.1007/s41062-021-00478-0 | SCOPUS, UGC Care |
| 41 | Structural performance of relief shelf in cantilever retaining wall | Lonkar S., Narule, G. N. | Civil Engineering | Journal of Engineering, Computing and Architecture | 2020-21 | 1934-7197 | http://www.journaleca.com/INDEXING/ | DOI:17.0002.JECA.2021.V11I5.200786.6008 | UGC-CARE Group-II |
| 42 | Structural response of storied building for orientation of shear wall | Bhosale P., Narule, G.N. | Civil Engineering | GIS Science Journal | 2020-21 | 1869-9391 | http://www.gisscience.net/ | DOI:20.18001.GSJ.2021.V8I5.21.37112 | UGC-CARE Group-II |



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| 43 | To Study of Seismic Response of Irregular Shaped Columns using Pushover Analysis | Kamble A., Narule,G.N., Khartode, R. | Civil Engineering | GIS Science Journal | 2020-21 | 1869-9391 | http://www.gisscience.net/ | DOI:20.18001.GSJ.2021.V8I7.21.37665 | UGC-CARE Group-II |
| 44 | IR : Backbone of Business Sustainability and Model | Dr. Dinesh Bhagwan Hanchate | COMPUTER | Personnel Today | 2020-21 | 0970- 8405 | https://nipm.in/wp-content/uploads/2021/05/NIPM_2nd_Issue_of | NIPM_Research_Compedium_inner_pages.cdr | NIPM publications |
| 45 | Technological Interface in HR Processes leading to Business Stability | Dr. Dinesh Bhagwan Hanchate | COMPUTER | Personnel Today | 2020-21 | 0970- 8405 | https://nipm.in/wp-content/uploads/2021/02/NIPM_Research | https://nipm.in/wp-content/uploads/2021/02/NIPM-Research-Compendium-compressed.pdf | International Book Publication |
| 46 | APPLICATION OF A NOVEL FUZZY LOGIC CONTROLLER | Dr. Dinesh Bhagwan Hanchate | COMPUTER | JETIR | 2020-21 | 2349- 5162 | https://www.jetir.org/papers/ | https://www.jetir.org/papers/JETIR2107680.pdf | UGC Approved |
| 47 | Employee Engagement In Virtual Industrial Environment | Dr. Dinesh Bhagwan Hanchate | COMPUTER | Turkish Online Journal of Qualitative Inquiry (TOJQI) Scopus | 2020-21 | 12627 – 12632 | https://www.tojq.net/index.php/journal/article | https://www.tojq.net/index.php/journal/article/view/6335 | Scopus |
| 48 | APPLYING ARTIFICIAL INTELLIGENCE TO KNOWLEDGE MANAGEMENT | Dr. Dinesh Bhagwan Hanchate | COMPUTER | Vidyabharati International Interdisciplinary Research Journal (Special Issue) | 2020-21 | 2319- 4979 | https://www.viirj.org/ | https://www.researchgate.net/publication/355570169 APPLYING_ARTIFICIAL_INTELLIGENCE_TO_KNOWLEDGE_MANAGEMENT | UGC Approved |
| 49 | A Knowledge Container To Build Erp Competencies In A Corporate Environment | Dr. Dinesh Bhagwan Hanchate | COMPUTER | International Journal of Advances in Engineering and Management | 2020-21 | 2395- 5252 | https://ijaem.net/issue_dcp/A%20Knowledge%20Container%20To%20Build%20Erp%20 | https://ijaem.net/issue_dcp/A%20Knowledge%20Container%20To%20Build%20Erp%20 | UGC Care List |
| 50 | Automatic Voter Identification Intelligence System (VIIS) | Dr. Dinesh Bhagwan Hanchate | COMPUTER | International Journal of Innovative Research in Science EAI | 2020-21 | 2319-8753 | http://www.ijirset.com/upload/2021/august/72_Automatic_NC | http://www.ijirset.com/upload/2021/august/72_Automatic_NC.pdf | UGC Approved |
| 51 | Data hiding in binary images for secret and secure communication using decision tree | Gyankamal Jitendrakumar Chhajed | COMPUTER | International Conference on Big Data Innovation for Sustainable | 2020-21 | 2522-8595 | https://link.springer.com/book/10.1007/978-3-021-07654-1 | https://link.springer.com/content/pdf/bfm:978-3-031-07654-1/1 | Scopus/orcid/sci |



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| 52 | Spatio-temporal deep neural networks for accession classification of Arabidopsis plants using image sequences | S. U. Kolhar | E&TC Engineering | Ecological Informatics, 101334 | 2020-21 | 1574-9541 | https://www.sciencedirect.com/journal/ecological-informatics | https://www.sciencedirect.com/science/article/abs/pii/S1574954121001254?via%3Dihub | SCIE |
| 53 | Plant Trait Estimation and Classification Studies in Plant Phenotyping Using Machine Vision-A Review | S. U. Kolhar | E&TC Engineering | Information Processing in Agriculture | 2020-21 | 2214-3173 | https://www.sciencedirect.com/journal/information-processing-in | https://www.sciencedirect.com/science/article/pii/S2214317321000238?via%3Dihub | Scopus |
| 54 | Bibliometric Review on Image Based Plant Phenotyping | S. U. Kolhar | E&TC Engineering | Library Philosophy and Practice (e-Journal). 5065. | 2020-21 | 1522-0222 | https://digitalcommons.unl.edu/ | https://digitalcommons.unl.edu/libphilprac/5065/ | Scopus |
| 55 | Smart Monitoring and Controlling of Agriculture System | R. S. PISKE | E&TC Engineering | International Research Journal of Modernization in Engineering Technology | 2020-21 | 2582-5208 | https://www.irjmets.com/pastvolumeissue.php?no=25 | https://www.irjmets.com/paperdetail.php?paperId=37d561e3a5405ec9b6a9bdf10a3a4942&title=Smart+Monitoring+and+Co | |
| 56 | MS-UNet: A multi-scale UNet with feature recalibration approach for automatic liver and tumor segmentation in CT images | D. T. Kushnure | E&TC Engineering | Computerized Medical Imaging and Graphics | 2020-21 | 0895-6111 | https://www.sciencedirect.com/journal/computerized-medical | https://doi.org/10.1016/j.compmedimag.2021.101885 | Scopus |
| 57 | Evaluation of Filtering Methods for Extraction of Dolphin Signals | Rajveer Shastri, Arnab Das | E&TC Engineering | Journal of Critical Reviews | 2020-21 | 2394-5125 | http://www.jcreview.com/index.php | http://www.jcreview.com/admin/Uploads/Files/61af6d9398fcb8.14935274 | Scopus |
| 58 | Secret data modification based image steganography technique using genetic algorithm having a flexible chromosome structure | R.S Bichkar | E&TC Engineering | Engineering Science and Technology, an International Journal | 2020-21 | 2215-0986 | https://www.sciencedirect.com/journal/engineering-science-and | https://doi.org/10.1016/j.jestch.2020.11.008 | Scopus |
| 59 | Grading and sorting technique of dragon fruits using machine learning algorithms | Sudhir B.Lande | E&TC Engineering | Journal of Agriculture and Food Research | 2020-21 | 2666-1543 | https://www.sciencedirect.com/journal/journal-of-agriculture-and | https://doi.org/10.1016/j.jafr.2021.100118 | Scopus |
| 60 | New Method for Cryptography using Laplace-Elzaki Transform | Jadhav Shaila S., Hiwarekar A. P. | General Sciences and Engineering | Psychology and education | 2020-21 | 1553 - 6939 | http://psychologyandeducation.net/pae/index.php/pae | http://www.psychologyandeducation.net/pae/index.php/pae/article/view/5119 | Scopus |



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Kamalnayan Bajaj Institute of Engineering & Technology, Baramati

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Vidya Pratishthan's

Kamalnayn Bajaj Institute of Engineering & Technology, Baramati

List of Journal Publications (Since 2017-18)

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Vidya Pratishthan's

Kamalnayan Bajaj Institute of Engineering & Technology, Baramati

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Vidya Pratishthan's

Kamalnayan Bajaj Institute of Engineering & Technology, Baramati

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Vidya Pratishthan's

Kamalnayan Bajaj Institute of Engineering & Technology, Baramati

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