



# Vidyavardhini's College of Engineering & Technology

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## REFERRED JOURNAL PAPER PUBLICATION

| Title of paper                                                                                            | Name of the author     | Dept. of Faculty     | Name of Journal                            | Year of Publication | DOI                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------|------------------------|----------------------|--------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 2021-22                                                                                                   |                        |                      |                                            |                     |                                                                                                                                 |
| Artificial intelligence for prediction of performance and emission parameters of CI engine using bio-fuel | Mr.Ganesh Wahile       | Mechanical           | AIP Conference Proceeding                  | 2021                | <a href="https://doi.org/10.1063/5.0060862">https://doi.org/10.1063/5.0060862</a>                                               |
| 2020-21                                                                                                   |                        |                      |                                            |                     |                                                                                                                                 |
| Experimental Performance of Glass based Synthetic Dye Sensitized Solar Cell                               | Dr Ashish J. Chaudhari | Mechanical           | Materials Today Proceeding                 | 2020                | <a href="https://doi.org/10.1016/j.matpr.2020.12.019">10.1016/j.matpr.2020.12.019</a>                                           |
| Automation in Conventional Drilling Machine to Multi-spindle Drilling SPM                                 | Prof. Vinay D. Patel   | Mechanical           | Lecture Notes in Mechanical Engineering    | 2020                |                                                                                                                                 |
| Investigation of Performance Parameters Affecting the Efficiency of Solar Water Heater: A Review          | Prof. Swapnil R. Mane  | Mechanical           | IOP Conf. Series.: Mater. Sci. Eng.        | 2021                | <a href="https://doi.org/10.1088/1757-899X/1091/1/012021">10.1088/1757-899X/1091/1/012021</a>                                   |
| Optimization of power and torque with lower exhaust noise for FSAE Vehicle                                | Mr. Sanjay Lohar       | Mechanical           | IOP Publishing                             | 2021                | doi:10.1088/1742-6596/1969/1/012020                                                                                             |
| Resolving the Interference in 5G Millimeter Wave Through Scheduling Technique In Estimated Channel        | Dr. Vikas Gupta        | Elec. And Tele. Com. | Asian Journal of Convergence In Technology | 2020                | <a href="https://asianssr.org/index.php/ajct/article/view/907/717">https://asianssr.org/index.php/ajct/article/view/907/717</a> |



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| Title of paper                                                                                                                        | Name of the author's                                                | Dept. of teacher | Name of Journal                                          | Year of Publication | ISBN / ISSN Number                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|----------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------|
| 2019-20                                                                                                                               |                                                                     |                  |                                                          |                     |                                                                                                         |
| Waste heat recovery from exhaust gas of an engine by using a phase change material                                                    | Ganesh Wahile                                                       | Mechanical       | Materials Today Proceeding                               | 2020                | <a href="https://doi.org/10.1016/j.matpr.2020.03.247">https://doi.org/10.1016/j.matpr.2020.03.247</a>   |
| Enhancing Uplink/Downlink Performance of Massive MIMO System Using Time-Shifted Pilot signal Transmission with Pilot Hopping (TSPTPH) | Mrs. Amrita Ruperee                                                 | EXTC             | International Journal of wireless and mobile computing   | 2020                | <a href="https://doi.org/10.1504/IJWMC.2020.110193">https://doi.org/10.1504/IJWMC.2020.110193</a>       |
| Ringling artifacts in wavelet based image fusion: Analysis, measurement and remedies                                                  | AshishV. Vanmali, Tushar Kataria, Samrudha G.Kelkar, Vikram M.Gadre | IT               | Information Fusion                                       | 2020                | <a href="https://doi.org/10.1016/j.inffus.2019.10.003">https://doi.org/10.1016/j.inffus.2019.10.003</a> |
| Prediction of Coronavirus Covid 19 cases using Linear Regression and Support Vector Machine                                           | Mr. Yogesh Pingle                                                   | IT               | International Journal of Advanced Science and Technology | 2020                | ISSN: 2005-4238                                                                                         |
| Prediction of Coronavirus Covid 19 cases using Linear Regression and Support Vector Machine                                           | Mrs. Puja Kadam                                                     | Civil            | International Journal of Advanced Science and Technology | 2020                | ISSN: 2005-4238                                                                                         |



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|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------|----------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------|
| 2018-19                                                                                                                                   |                                                                                        |                  |                                                          |                     |                                                                                                 |
| State-of-the-art Technology in Variable Compression Ratio Mechanism for Spark Ignition Engine.                                            | Chaudhari A., Sahoo N. and Kulkarni V.                                                 | Mechanical       | Sadhana Indian Academy of Science                        | 2018                | <a href="https://doi.org/10.1007/s12046-018-0987-7">10.1007/s12046-018-0987-7</a>               |
| Effect of vertical location of the spark plug on the performance of a raw biogas fueled variable compression ratio spark ignition engine. | Chaudhari A., Hotta S., Sahoo N. and Kulkarni V.                                       | Mechanical       | Energy and Environment                                   | 2019                | <a href="https://doi.org/10.1177/0958305X19841270">https://doi.org/10.1177/0958305X19841270</a> |
| Combined Impact of Compression Ratio and Re-circulated Exhaust Gas on the Performance of a Biogas Fueled Spark Ignition Engine.           | Chaudhari A., Sahoo N. and Kulkarni V.                                                 | Mechanical       | Journal of Renewable and Sustainable Energy              | 2019                | <a href="https://doi.org/10.1063/1.5045742">https://doi.org/10.1063/1.5045742</a>               |
| Design and development of automatic lubrication system for bearing and gearbox                                                            | Siddhesh Penkar, Parth Rathod, Hardik Churi, Prathmesh Chaudhari, Dr. Ashish Chaudhari | Mechanical       | Journal of Emerging Technologies and Innovative Research | 2019                | ISSN-2349-5162                                                                                  |
| Tri-variate copula modeling for spatially correlated observations in wireless sensor networks                                             | Sunayana Jadhav                                                                        | EXTC             | Journal of communication                                 | 2019                | doi:10.12720/jcm.14.10.951-957                                                                  |



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|----------------------------------------------------------------------------------------------------------------------------|---------------------|----------|----------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------|
| Time Shifted Pilot Signal Transmission With Pilot Hopping To Improve The Uplink Performance of Massive MIMO System for NGN | Amrita Ruperee      | EXTC     | KSII Transactions on Internet and Information Systems                                  | 2019 | <a href="https://doi.org/10.3837/tis.2019.09.004">https://doi.org/10.3837/tis.2019.09.004</a> |
| A B-spline Global Optimization Algorithm for Optimal Power Flow Problem.                                                   | Dr. Deepak Gawali   | INSTRU   | WCGO 2019: Optimization of Complex Systems: Theory, Models, Algorithms and Application | 2019 | DOI: 10.1007/978-3-030-21803-4_6                                                              |
| Automation in Paper Cutting Machine                                                                                        | Mr.Prafulla Patil   | INSTRU   | International Journal of Engineering Science and Computing                             | 2019 | ISSN:2319-7242                                                                                |
| Predictive Maintenance For Hydraulic System                                                                                | Mr.Vishal Pande     | INSTRU   | International Journal of Engineering Science and Computing                             | 2019 | ISSN:2319-7242                                                                                |
| GSM & GPS Vehicle Antitheft Tracking System                                                                                | Mr.Vishal Pande     | INSTRU   | International Journal of Engineering Science and Computing                             | 2019 | ISSN:2319-7242                                                                                |
| Automatic Controlling of Electronic Devices and Power Consumption Analysis using IoT                                       | Mr. Vikrant Agaskar | Computer | International Journal of Emerging Technologies and Innovative Research (JETIR)         | 2019 | ISSN-2349-5162                                                                                |
| Supply Bus Tracking Under Breakdown Condition                                                                              | Mr. Anil Hingmire   | Computer | International Journal of Emerging Technologies and Innovative Research (JETIR)         | 2019 | ISSN-2349-5162                                                                                |



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|-----------------------------------------------------------|------------------------|----------|--------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Machine Learning in Video Surveillance for Fall Detection | Mrs. Sangita Chaudhari | Computer | International Journal of Emerging Technologies and Innovative Research (JETIR) | 2019 | ISSN-2349-5162                                                                                                                                                              |
| Automated Data Entry using OCR                            | Mrs. Sangita Chaudhari | Computer | International Journal of Emerging Technologies and Innovative Research (JETIR) | 2019 | ISSN-2349-5162                                                                                                                                                              |
| Question Paper Generator                                  | Mrs. Sangita Chaudhari | Computer | International Journal of Emerging Technologies and Innovative Research (JETIR) | 2019 | ISSN-2349-5162                                                                                                                                                              |
| IoT Based Retail Stock Management                         | Mr. Sunil Katkar       | Computer | International Journal of Emerging Technologies and Innovative Research (JETIR) | 2019 | ISSN-2349-5162                                                                                                                                                              |
| Tweet Summarization: A new Approach                       | Mr. Sunil Katkar       | Computer | International Journal of Emerging Technologies and Innovative Research (JETIR) | 2019 | ISSN-2349-5162                                                                                                                                                              |
| Decentralized Crowd Funding Application using Blockchain  | Mrs. Sweetie Rupani    | Computer | International Journal of Emerging Technologies and Innovative Research (JETIR) | 2019 | ISSN-2349-5162                                                                                                                                                              |
| Genetic Syndrome Detection Using Transform and Bit Planes | Archana Ekbote         | IT       | International Journal of Computer Engineering & Technology (IJCET)             | 2018 | <a href="https://www.researchgate.net/publication/330778663_GENETIC_SYNDROME_DETECTION_">https://www.researchgate.net/publication/330778663_GENETIC_SYNDROME_DETECTION_</a> |



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|                                                                        |                |    |                             |      | USING_RA<br>DON_TRA<br>NSFORM_<br>AND_BIT_<br>PLANES |
| Genetic Syndrome<br>Identification: An<br>image Processing<br>Approach | Archana Ekbote | IT | IETE Journal of<br>Research | 2019 | DOI:10.108<br>0/03772063.<br>2019.16194<br>88        |

| Title of paper                                                                                                                   | Name of the author's                                                                                          | Dept. of<br>teacher | Name of<br>Journal                                                        | Year<br>of<br>Public<br>ation | ISBN / ISSN<br>Number                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------|
| 2017-18                                                                                                                          |                                                                                                               |                     |                                                                           |                               |                                                                                                     |
| Analysis of digital<br>X-ray for mapping of<br>pixel values using<br>MATLAB image<br>processing tool                             | Gavali S.L., Vankudre<br>H.V., Vijayakumar K.N.                                                               | Mechanical          | International<br>journal of<br>communication<br>Antena and<br>propagation | 2017-<br>18                   | <a href="https://doi.org/10.15866/irecap.v7i6.13615">https://doi.org/10.15866/irecap.v7i6.13615</a> |
| Design Data for<br>Quick Development<br>of Folded H Plane<br>Tee                                                                 | Harish V.Dixit, Aviraj R.<br>Jadhav, Yogesh M.<br>Jain, Alice N. Cheeran,<br>Vikas N. Gupta and<br>P.K.Sharma | EXTC                | Sadhana-<br>Springer                                                      | 2017-<br>18                   | <a href="https://doi.org/10.1007/s12046-018-0819-9">https://doi.org/10.1007/s12046-018-0819-9</a>   |
| Visible and NIR<br>Image Fusion using<br>Weight Map Guided<br>Laplacian-Gaussian<br>Pyramid for<br>Improving Scene<br>Visibility | Vanmali, A. V.; Gadre, V.<br>M.                                                                               | EXTC                | Sadhana-<br>Springer                                                      | 2017-<br>18                   | <a href="https://doi.org/10.1007/s12046-017-0673-1">https://doi.org/10.1007/s12046-017-0673-1</a>   |



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|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------|---------|---------------------------------------------------------------------------------------------------------------|
| Design of the 3.7 GHz, 500 kW CW circulator for the LHCD system of the SST-1 tokamak                                                                       | Harish V.Dixit, Aviraj R. Jadhav, Yogesh M. Jain,Alice N. Cheeran, Vikas N. Gupta and P.K.Sharma   | EXTC                        | Fusion Engineering and Design     | 2017-18 | <a href="https://doi.org/10.1016/j.fusengdes.2017.04.085">https://doi.org/10.1016/j.fusengdes.2017.04.085</a> |
| Design of 500 kW water load at 3.7 GHz for the LHCD system of the SST-1 tokamak                                                                            | Harish V.Dixit, Yogesh M. Jain, Aviraj R. Jadhav, ,Alice N. Cheeran, Vikas N. Gupta and P.K.Sharma | EXTC                        | Fusion Engineering and Design     | 2017-18 | <a href="https://doi.org/10.1016/j.fusengdes.2017.05.096">https://doi.org/10.1016/j.fusengdes.2017.05.096</a> |
| Algorithms for unconstrained global optimization of nonlinear (polynomial) programming problems: the single and multi-segment polynomial B-spline approach | D. D. Gawali, Ahmed Zidna and P. S. V. Nataraj                                                     | Instrumentation Engineering | Computers and Operations Research | 2017-18 | <a href="https://doi.org/10.1016/j.cor.2017.02.013">https://doi.org/10.1016/j.cor.2017.02.013</a>             |

| Title of paper                                                                                                     | Name of the author's                                                     | Dept. of teacher | Name of Journal                                | Year of Publication | ISBN / ISSN Number                                                                           |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------|------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------|
| 2016-17                                                                                                            |                                                                          |                  |                                                |                     |                                                                                              |
| Numerical and experimental studies on stress analysis of customized implants                                       | Gavali S.L., Vankudre H.V.,Vijayakumar K.N.                              | Mechanical       | International review of mechanical engineering | 2016-17             | <a href="https://doi.org/10.15866/irme.v11i6.12848">10.15866/irme.v11i6.12848</a>            |
| In-situ Alkaline Transesterification of Castor Seeds: Optimization and Performance Evaluation Study in a CI Engine | Dasari, S. R.; Chaudhary, A. J.; Goud, V. V.; Sahoo, N.; Kulkarni, V. N. | Mechanical       | Energy Conversion and Management- Elsevier     | 2016-17             | DOI: <a href="https://doi.org/10.1016/j.enconm.2017.03.044">10.1016/j.enconm.2017.03.044</a> |



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|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------|
| Influence of waste cooking oil methyl ester biodiesel blends on the performance and emissions of a diesel engine                                   | Borugadda V.B., Paul, A.K., Chaudhari,A.J., Kulkarni,V., Sahoo,N., Goud,V.V.               | Mechanical                     | Waste and Biomass Valorization-Springer                                   | 2016-17 | DOI: <a href="https://doi.org/10.1007/s12649-016-9749-0">10.1007/s12649-016-9749-0</a>                              |
| Modeling and experimental validation of a unitized regenerative fuel cell in electrolysis mode of operation                                        | Amit C.Bhosale; Swapnil R.Mane; DebanandSingdeo and Prakash C.Ghosh                        | Energy science and Engineering | Energy-Elsevier                                                           | 2016-17 | DOI: <a href="https://doi.org/10.1016/j.energy.2017.01.031">10.1016/j.energy.2017.01.031</a>                        |
| Hamiltonian modelling and bucklinganalysis of a nonlinear flexible beam with actuation at the bottom                                               | M. V. Trivedi, R. N. Banavar, P. Kotyczka                                                  | Instrumentation Engineering    | Mathematical and Computer Modelling of Dynamical Systems,Taylor & Francis | 2016-17 | <a href="https://doi.org/10.1080/13873954.2016.1201517">https://doi.org/10.1080/13873954.2016.1201517</a>           |
| A Preliminary Examination of the Application of Unscented Transformation Technique to Error Propagation in Nonlinear Cases of Nuclear Data Science | Harshavardhan Kadvekar, Sana Khan, Sangeetha Prasanna Ram, Jayalekshmi Nair and S. Ganesan | Instrumentation Engineering    | Nuclear Science and Engineering,                                          | 2016-17 | DOI: <a href="https://doi.org/10.13182/NSE15-103">10.13182/NSE15-103</a>                                            |
| Design of Robust Fractional-order controller for 4-leg inverter                                                                                    | Rohan Shingne, Mukesh D Patil, Vishwesh Vyawahare, Balu Bhusari                            | Instrumentation Engineering    | IEEE (PEDES 2016)                                                         | 2016-17 | DOI: <a href="https://doi.org/10.1109/PEDES.2016.7914489">10.1109/PEDES.2016.7914489</a>                            |
| Generating honeywords from real passwords with decoy mechanism                                                                                     | Komal Naik                                                                                 | Computer Engg.                 | IJREAM                                                                    | 2016-17 | <a href="https://www.ijream.org/papers/IJREAMV02I041612.pdf">https://www.ijream.org/papers/IJREAMV02I041612.pdf</a> |



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|----------------------------------------------------------------------------------------------------|--------------------|----------------|------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------|
| Hybrid Wavelet based CBIR System using Software as a Service (SaaS) Model on Public Cloud          | Ms. Krunali Vartak | Computer Engg. | Procedia Computer Science- ELSEVIER                                    | 2016-17 | DOI <a href="https://doi.org/10.1016/j.procs.2016.03.036">10.1016/j.procs.2016.03.036</a>                 |
| Design & Modal Analysis of Photonic Crystal fibre for Dispersion Compensation over Broadband Range | Madhavi Waghmare   | IT             | Journal of Microwaves Opto electronics and Electromagnetic Application | 2016-17 | <a href="https://doi.org/10.1590/2179-10742016v15i4720">https://doi.org/10.1590/2179-10742016v15i4720</a> |

| Title of paper                                                                                     | Name of the author's                                                                                | Dept. of teacher | Name of Journal                                          | Year of Publication | ISBN / ISSN Number                                                                                            |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------|----------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------|
| 2015-16                                                                                            |                                                                                                     |                  |                                                          |                     |                                                                                                               |
| Design and FEA analysis of composite pressure vessel                                               | Mukund Kavekar                                                                                      | Mechanical       | IJRAT                                                    | 2015-16             | ISSN:2321-9637                                                                                                |
| Rubber Seed Oil Methyl Ester Synthesis, Engine Performance, and Emission Characteristics of Blends | Reshad A.S., Barman P., Chaudhari A. J., Tiwari P., Kulkarni V., Goud V.V., and Sahoo N.            | Mechanical       | Energy and Fuels- Springer                               | 2015-16             | <a href="https://doi.org/10.1021/acs.energyfuels.5b01033">https://doi.org/10.1021/acs.energyfuels.5b01033</a> |
| Optical constants of pulsed RF magnetron sputtered nanocolumnar V2O5 coating                       | Esther Carmel M., Porwal D., Maurya S.P., Rangappa, D., Sharma A.D. Dey A.                          | Mechanical       | Physica B                                                | 2015-16             | DOI: <a href="https://doi.org/10.1016/j.physb.2015.09.017">10.1016/j.physb.2015.09.017</a>                    |
| Reversible phase transition in vanadium oxide films sputtered on metal substrates                  | Debajyoti P., Esther C. M., Porwal D., Maurya S.P., Kumar R., Parthasarathi B., Sridhara N., Dey A. | Mechanical       | Phylosophical Magazine and Philosophical Magazine Letter | 2015-16             | DOI: <a href="https://doi.org/10.1080/09500839.2016.1247993">10.1080/09500839.2016.1247993</a>                |



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|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2014-15                                                                                                                     |                                                                                                                              |                  |                          |                     |                                                                                                                                                               |
| A Simulation Models for Spark Ignition Engine: A Comparative Performance study                                              | Chaudhari A., Kulkarni V. and Sahoo N.                                                                                       | Mechanical       | Energy Procedia-Elsevier | 2014-15             | <a href="https://doi.org/10.1016/j.egypro.2014.07.276">https://doi.org/10.1016/j.egypro.2014.07.276</a>                                                       |
| Effect of variable compression ratio and intake charge dilution on fuel efficiency and emission for a spark ignition engine | Chaudhari A., Kulkarni V. and Sahoo N.                                                                                       | Mechanical       | SAE Journal              | 2014-15             | <a href="https://www.sae.org/publications/technical-papers/content/2015-01-0772/">https://www.sae.org/publications/technical-papers/content/2015-01-0772/</a> |
| Nano-indentation response of ITO film                                                                                       | Maurya Sandeep Pradeepkumar, Sibon K.P., Swain Niharika, Sridhara N., Dey Arjun, Barshilia Harish C., and Sharma Anand Kumar | Mechanical       | Ceramic International    | 2014-15             | <a href="https://doi.org/10.1016/j.ceramint.2015.02.090">https://doi.org/10.1016/j.ceramint.2015.02.090</a>                                                   |