



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

Accredited by NAAC with "A+" Grade | NBA - 6 UG Programmes



List of research papers published per teacher in the Journals notified on UGC care list during 2019-20.

| Sr No | Title of paper | Name of the author/s | Department of the teacher | Name of journal | Year of publication | Page No |
|-------|---|--|---------------------------|--|---------------------|---------|
| 1 | Heterogeneous synthesis of Ethyl butyrate: Parameter optimization and kinetic studies | Dr. P. N. Dange and V. K. Rathod | Chemical Engineering | Catalysis in Green Chemistry and Engineering | 2019-20 | 1 |
| 2 | Ferets diameter estimation of activated carbon for effluent treatment application | Abhijit Jadhav, Govindaraj Thangaraj Mohanraj, Ashok Gokarn, Suseeladevi Mayadevi | Chemical Engineering | Journal of Indian Chemical Society | 2019-20 | 2 |
| 3 | Rapid method for determination of nano surface area of arecanut shell derived activated carbon by iodine adsorption number | Abhijit Jadhav, Govindaraj Thangaraj Mohanraj, Ashok Gokarn, Suseeladevi Mayadevi | Chemical Engineering | News of the National Academy of Sciences of the Republic of Kazakhstan. Series of Chemistry and Technology | 2019-20 | 3 |
| 4 | Co-gasification of high ash Coal-Biomass blends in a fluidized bed gasifier: Experimental study and computational intelligence-based Modeling | Tiwary, S., Ghugare, S.B., Chavan, P.D., Saha, S., Datta, S., Sahu, G. and Tambe, S.S. | Chemical Engineering | Waste and Biomass Valorization | 2019-20 | 4 |

| | | | | | | |
|----|--|--|----------------------|---|---------|----|
| 5 | Treatment of Methylene blue dye using immersed lamp photocatalytic reactor: 5 L scale study | Pravin S. Tadkar, Palas K. Borkar, Sayali N. Gholap, Vitthal L. Gole | Chemical Engineering | J. Inst. Eng. India Ser. E | 2019-20 | 5 |
| 6 | Heavy Metal Removal by using Different Agricultural Waste Adsorbants | V N Patil | Civil Engineering | Test Engineering and Management | 2019-20 | 6 |
| 7 | Automatic Equal Quantity and Quality Water Distribution | V N Patil | Civil Engineering | Test Engineering and Management | 2019-20 | 7 |
| 8 | Semi-Active Fluid Viscous Dampers for Seismic Mitigation of RC Elevated Liquid Storage Tanks | M. V. Waghmare, S. N. Madhekar, and V. A. Matsagar | Civil Engineering | International Journal of Structural Stability and Dynamics | 2019-20 | 8 |
| 9 | Numerical analysis of reinforced embankment slopes made up of pozzolanic waste materials | V N Patil | Civil Engineering | International Journal of Geo-Engineering | 2019-20 | 9 |
| 10 | An Experimental study on strength and properties of thirsty concrete | Shilpi Bhuinyan, Rushikesh Tapkir, Mithila Mane, Smit Modi, Shreyance Luniya | Civil Engineering | International Journal of Innovative Research in Technology | 2019-20 | 10 |
| 11 | Review - An Experimental study on strength and properties of thirsty concrete | Shilpi Bhuinyan, Rushikesh Tapkir, Mithila Mane, Smit Modi, Shreyance Luniya | Civil Engineering | international Journal of innovative Research in Technology | 2019-20 | 11 |
| 12 | Risk Management in infrastructure Development | Shilpi Bhuinyan, Saurabh, Shinu T Ninan, Yash Raut, Shubham Tekade | Civil Engineering | international Journal of innovative Research in Technology | 2019-20 | 12 |
| 13 | Productivity Analysis of Building Construction Using MIVAN Formwork | V N Patil | Civil Engineering | International Journal of Innovative Research in Technology | 2019-20 | 13 |
| 14 | Measuring Project Performance and success factors of construction sites. | Shilpi Bhuinyan, Pranav Gadekar, Nikita Agarwal, Saurabh Basak, Yash Raut | Civil Engineering | international Journal of innovative Research in Technology | 2019-20 | 14 |
| 15 | Behaviour of sandwich plate system in bridge decks | Dr. S R Parekar | Civil Engineering | Journal of Emerging Technologies and Innovative Research | 2019-20 | 15 |
| 16 | Study On Combination Of Mycelium And Fly Ash Brick | Dr. S R Parekar | Civil Engineering | International Journal of Innovative Science, Engineering and Technology | 2019-20 | 16 |
| 17 | Drag Coefficient of Tall Building by CFD Method using ANSYS | Dr. S R Parekar | Civil Engineering | International Research Journal of Engineering and Technology (IRJET) | 2019-20 | 17 |
| 18 | Steel fiber reinforced concrete beams without reinforcement under combined torsion | Dr. S R Parekar | Civil Engineering | International journal of recent trends in Engineering | 2019-20 | 18 |

| | | | | | | |
|----|---|---|-------------------|--|---------|----|
| 19 | Design Of EPS Geofoam as a pavement Block | Shilpi Bhuinyan, Ashutosh Jagtap, Shantanu Dahatonde, Shubham Baghele, Shubham Bhange | Civil Engineering | International Research Journal Of Engineering and Technology (IRJET) | 2019-20 | 19 |
| 20 | Optimizing Municipal Solid waste Transportation Routes for Pune City using MATLAB | S D Nagrale | Civil Engineering | International Journal of Recent Technology and Engineering (IJRTE) | 2019-20 | 20 |
| 21 | Seismic Retrofitting by Adding a Shear Wall | Dr. S R Parekar | Civil Engineering | International Journal for Research in | 2019-20 | 21 |
| 22 | Stress Distribution of Different Shapes of Opening in Shear Wall | Dr. S R Parekar | Civil Engineering | International Journal for Modern Trends in Science and Technology | 2019-20 | 22 |
| 23 | Seismic analysis of step back building resting on sloping ground considering different types of bracing systems | Dr. S R Parekar | Civil Engineering | International Journal for Modern Trends in Science and Technology | 2019-20 | 23 |
| 24 | Seismic Analysis of RCC, Steel and Steel Concrete Composite Frame | Dr. S R Parekar | Civil Engineering | International Journal for Research in Applied Science & Engineering Technology | 2019-20 | 24 |
| 25 | Seismic Analysis of Diagrid and Buckling restrained Braced structural System | Sangita Biradar and M. V. Waghmare, | Civil Engineering | International Journal for Modern Trends in Science and Technology | 2019-20 | 25 |
| 26 | Nonlinear Analysis of RC structure under Multiple Earthquakes | Shesalu Vadeo and M. V. Waghmare | Civil Engineering | International Journal for Modern Trends in Science and Technology | 2019-20 | 26 |
| 27 | Hydraulic Model Investigation on Stepped Spillway's Plain and Slotted Roller Bucket | P B Nangare | Civil Engineering | Engineering, Technology & Applied Science Research | 2019-20 | 27 |
| 28 | Spatial and Temporal Analysis of Drought using GIS Techniques | P B Nangare | Civil Engineering | International Journal of Research in Engineering, Science and Management | 2019-20 | 28 |
| 29 | Energy Dissipation in Solid Roller Bucket and Controlled Stilling Basin for Ogee Stepped Spillway | P B Nangare | Civil Engineering | International Journal of Recent Technology and Engineering | 2019-20 | 29 |
| 30 | Ambient Air Quality Assessment Studies in India: A Review | K N Kulkarni | Civil Engineering | Journal of critical reviews | 2019-20 | 30 |
| 31 | Failures of Gabion Walls | Ganesh C Chikute | Civil Engineering | International Journal of Innovative Technology and Exploring Engineering | 2019-20 | 31 |
| 32 | Techno-Economical Analysis of Gabion Retaining Wall Against Conventional Retaining Walls | Ganesh C Chikute | Civil Engineering | International Research Journal of Engineering and Technology | 2019-20 | 32 |

| | | | | | | |
|----|---|---------------------------------|----------------------|--|---------|----|
| 33 | TO EXTRACT GFC's FROM CLASH FREE AND WELL COORDINATED REVIT MODEL | D V Wadkar | Civil Engineering | International Research Journal of Engineering and Technology | 2019-20 | 33 |
| 34 | Modeling of Chlorine and coagulant dose in a water treatment plant by artificial neural networks | D V Wadkar | Civil Engineering | Engineering , technology and applied science research | 2019-20 | 34 |
| 35 | Micro-mechanical modeling of SiC reinforce in 8090 Al-Li alloy metal matrix composite. | DR.S.F.SAYYAD | Computer Engineering | IJAST | 2019-20 | 35 |
| 36 | Cloud computing based wireless sensor network in data transmission with routing analysis protocol and deep learning techniques. | Dr. S.V.Athawale | Computer Engineering | IJISAE | 2019-20 | 36 |
| 37 | Method to play computer games using machine learning and AI algorithms | DR.S.F.SAYYAD | Computer Engineering | IJRAR | 2019-20 | 37 |
| 38 | Secure anti-collusion data sharing methods for dynamic groups in cloud | DR.F.B.SAYYAD, Dr. S. S. Shaikh | Computer Engineering | IJSRR | 2019-20 | 38 |
| 39 | Congestion Control in Optical Burst Switching Networks Using Differential Evolution Optimization | Dr. D. M. Ujalambakar | Computer Engineering | Springer link | 2019-20 | 39 |
| 40 | Design and Development of Beach Cleaning Machine | DR.S.F.SAYYAD | Computer Engineering | IJRASET | 2019-20 | 40 |
| 41 | Food inventory system | DR.S.F.SAYYAD | Computer Engineering | IJRAR | 2019-20 | 41 |
| 42 | Soft approach for plant pathology | Dr. D. M. Ujalambakar | Computer Engineering | JETIR | 2019-20 | 42 |
| 43 | Enabling authentication and access control-based data sharing with personal information hiding for secure cloud storage | PROF. S. G. DHENGRE | Computer Engineering | IJFMR | 2019-20 | 43 |
| 44 | Dimension recognition for emotion recognition using facial expression | PROF. S. S. KOLTE | Computer Engineering | IJRAR | 2019-20 | 44 |
| 45 | Criminal record management system using blockchain public network | PROF. N. A. PRADHAN | Computer Engineering | SAMRIDDI | 2019-20 | 45 |

| | | | | | | |
|----|---|--|------------------------|--|---------|----|
| 46 | Double Loop Decoupled Proportional Controller for Dynamic and Kinematic | DR.S.F.SAYYAD | Computer Engineering | International Journal on Emerging Technologies | 2019-20 | 46 |
| 47 | Dermatological Disorder Detection Through Machine Learning | A S Deokar | Computer Engineering | International Journal of Research In Electronics And Computer Engineering (IJRECE) | 2019-20 | 47 |
| 48 | IoT Trash Bin | A S Deokar | Computer Engineering | Iconic Research And Engineering Journals(IRE), | 2019-20 | 48 |
| 49 | Garbage Monitoring System | A S Deokar | Computer Engineering | Iconic Research And Engineering Journals(IRE) | 2019-20 | 49 |
| 50 | Dermatological Disorder Detection Using Machine Learning | A S Deokar | Computer Engineering | International Journal of Innovative Science and Research Technology(IJSRT) Volume 5, Issue 6 | 2019-20 | 50 |
| 51 | Typographic Portrait Generator using | V V Waykule | Computer Engineering | International Journal for Research in Applied Science & Engineering Technology | 2019-20 | 51 |
| 52 | IOT Powered Wearable to Assist Individuals: Survey | V V Waykule | Computer Engineering | Journal of Emerging Technologies and Innovative Research | 2019-20 | 52 |
| 53 | Ensemble of Rule Learner and Sequential Minimum Optimization Algorithm for Intrusion Detection System | S.S.Kolte | Computer Engineering | International Journal of Engineering and Advanced Technology (IJEAT) | 2019-20 | 53 |
| 54 | Classification and Prediction of traffic in Optical Burst Switched Networks using Machine Learning | D M Ujalambkar | Computer Engineering | International Journal of Future Generation Communication and Networking | 2019-20 | 54 |
| 55 | Disturbance observer based speed control of PMSM using fractional order PI controller | Aishwarya Apte, Ujjwala Thakar, Vrunda Joshi | Electrical Engineering | IEEE/CAA Journal of Automatica Sinica | 2019-20 | 55 |
| 56 | Disturbance Observer based Sensorless Control of PMSM using Integral State Feedback Controller | Dr A A Apte, Dr V A Joshi, Hrishikesh Mehta, Rahee Walambe | Electrical Engineering | IEEE | 2019-20 | 57 |
| 57 | Hybrid neural network with bat approach for smart grid fault location | MH Dhend, RH Chile | Electrical Engineering | International Journal of Reasoning based intelligent systems | 2019-20 | 59 |
| 58 | Hardware Implementation of Fuzzysmc based Speed Control of BLDC Motor | P. B. More, A. A. Godbole | Electrical Engineering | IJERT | 2019-20 | 60 |

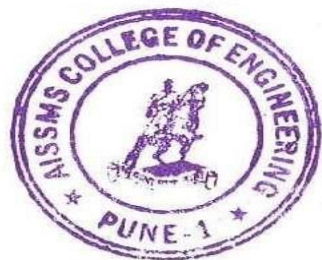
| | | | | | | |
|----|--|--|---|--|---------|----|
| 59 | Fuzzy SMC based speed control of BLDC Motor | A A Godbole | Electrical Engineering | IJERT | 2019-20 | 61 |
| 60 | Comparison of Conventional Single Phase 21-level Cascaded H-Bridge Multilevel Inverter and Single Phase 21 Level Multilevel Inverter with Reduced Switches and Sources for Renewable Energy Applications | Gayatri Kulkarni, Prof. P. K. Sankala | Electrical Engineering | INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY (IRJET) | 2019-20 | 62 |
| 61 | Direct Torque Control Of Permanent Magnet Synchronous Motor using SVPWM | Rigved Kelkar, Aishwarya Apte | Electrical Engineering | IRJET | 2019-20 | 63 |
| 62 | A Framework for Optimal Attribute Evaluation and Selection in Hesitant Fuzzy Environment Based on Enhanced Ordered Weighted Entropy Approach for Medical Dataset | A Dikshit-Ratnaparkhi, D Bormane, R Ghongade | Electronics and Telecommunication Engineering | J Biomed Phys Eng | 2019-20 | 64 |
| 63 | A novel entropy-based weighted attribute selection in enhanced multicriteria decision-making using fuzzy TOPSIS model for hesitant fuzzy rough environment. | Dikshit-Ratnaparkhi, A., Bormane, D. & Ghongade, R | Electronics and Telecommunication Engineering | Complex & Intelligent Systems | 2019-20 | 66 |
| 64 | Mathematical Modeling, Control Design, Simulation & Implementation of Electric Vehicle Charger | R. G. Mapari, D.G.Bhalke, Rahul Parbat | Electronics and Telecommunication Engineering | International Journal of Engineering and Advanced Technology (IJEAT) | 2019-20 | 67 |
| 65 | Audio Fingerprinting using Chromogram Features | Dr.Chanakya Kumar Jha,Dr. D.G. Bhalke | Electronics and Telecommunication Engineering | Journal of Applied Science and Computations, | 2019-20 | 68 |
| 66 | Musical instrument identification using Bispectrum and trispectrum features | Dr.Chanakya Kumar Jha,Dr. D.G. Bhalke | Electronics and Telecommunication Engineering | Journal of Applied Science and Computations, | 2019-20 | 69 |
| 67 | MARINE BORDER ALERT SYSTEM | Dr.D.G.Bhalke, Ms. Sonali Bhosale Ms. R.S. Kothe | Electronics and Telecommunication Engineering | Journal of Applied Science and Computations, | 2019-20 | 70 |


| | | | | | | |
|----|---|--|---|--|---------|----|
| 68 | Design & Analysis of MIMO Microstrip Antenna with Improved Mutual Coupling | Preeti Kumbhar, Dr. D.S. Bormane, Dr. D.G. Bhalke | Electronics and Telecommunication Engineering | INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY (IRJET) | 2019-20 | 71 |
| 69 | Design of Microstrip Patch Antenna with Enhanced Bandwidth and Harmonic Suppression for WLAN Applications | Thorat Sunita, Bhalke D G, Bormane D S, | Electronics and Telecommunication Engineering | International research journal of engineering and technology | 2019-20 | 72 |
| 70 | A fast and optimized architecture to perform multi-bit permutation operation | Sushma Wadar, D S Bormane | Electronics and Telecommunication Engineering | Helix: The Scientific Explorer | 2019-20 | 73 |
| 71 | Comparative Analysis of Planar Acoustic MVDR Beamformer | Kirtimalini Chaudhari, Mukul Sutaone and Prashant Bartakke | Electronics and Telecommunication Engineering | INTERNATIONAL JOURNAL OF CIRCUITS, SYSTEMS AND SIGNAL PROCESSING | 2019-20 | 74 |
| 72 | Investigation of host guest complexation of ternary model: P-Sulfonatothiacalix arene-Fluorescein | V S Kalyani | First Year Engineering | <u>Polyhedron</u> | 2019-20 | 75 |
| 73 | The investigation of cooperative binding between p-Sulfonatothiacalix arene fluorescein with transition metal ions by Spectrometrically | V S Kalyani | First Year Engineering | <u>Journal of Chemical Sciences</u> | 2019-20 | 76 |
| 74 | Synthesis and biological activity of 7-(2-(1H-1,2,4-triazol-1-yl)ethoxy)-4-(styryl/4-Substituted styryl)-2H-chromen-2-one | P D Baviskar | First Year Engineering | Indian Journal of Chemistry -Section B | 2019-20 | 77 |
| 75 | Synthesis and characterization of Optimized Nano-EmuLGEL Micelles as a vehicle of plant extracted curcumin: Drug release and In vitro Study | P D Baviskar | First Year Engineering | INTERNATIONAL JOURNAL OF RESEARCH IN PHARMACY AND CHEMISTRY | 2019-20 | 78 |
| 76 | Initial coefficient inequalities for some subclasses of analytic bi-univalent functions (94-97) | Dr A B Patil | First Year (Mathematics) | International Journal of Research and Analytical Reviews | 2019-20 | 79 |
| 77 | Performance of Additives Concerning Synergistic Effect in Lube Oil | Pramod S. Kathmore, Bhanudas D. Bachchhav, Harijan H. Bagchi | Mechanical Engineering | International Journal of Engineering and Advanced Technology | 2019-20 | 80 |

| | | | | | | |
|----|---|---|------------------------|---|---------|----|
| 78 | Friction and Wear Characteristics of Rubber Resin-Bonded Metallic Brake Pad Materials | Kishor N. Hendre, Bhanudas D. Bachchhav | Mechanical Engineering | International Journal of Engineering and Advanced Technology | 2019-20 | 81 |
| 79 | Frictional Characteristics of Brake Pad Materials Alternate to Asbestos | K.N. Hendre, B. D. Bachchhav, H. H. Bagchi. | Mechanical Engineering | International Journal of Engineering and Advanced Technology | 2019-20 | 82 |
| 80 | Bio-based Lubricant Selection for Metal Cutting Operations Using MADM Technique | Kathmore P. S; Bachchhav B. D | Mechanical Engineering | International Journal of Mechanical and Production Engineering Research and Development | 2019-20 | 83 |
| 81 | Experimental Study of Hydrocarbon R290 in Water Cooler refrigeration System | C S Choudhari, S N Sapali | Mechanical Engineering | Journal of thermal Engineering | 2019-20 | 84 |
| 82 | Performance evaluation of EN24 for planetary gear transmission of CNC bending machine. | Dhanvij, N.H., Gawande, S.H. & Gajjal, P.S. | Mechanical Engineering | Journal of the Brazilian Society of Mechanical Sciences and Engineering | 2019-20 | 85 |
| 83 | Study of aerodynamic drag of sports utility vehicle by experimental and numerical method | Bauskar M .P., Dhande, D.Y., Vadgeri S. S., Patil, S.R. | Mechanical Engineering | Materials Today: Proceedings | 2019-20 | 86 |
| 84 | Implementation of CFD-FSI Technique Coupled with Response Surface Optimization method for Analysis of Three-Lobe Hydrodynamic Journal Bearing | Dr D Y Dhande, Langewar G H & Pande D W | Mechanical Engineering | Journal of The Institution of Engineers (India): Series C | 2019-20 | 87 |
| 85 | Tribological Parametric Influence of Dry Sintered Iron Bearings | Priya Gajjal, Shekhar Y Gajjal | Mechanical Engineering | Journal of Emerging Technologies and Innovative Research | 2019-20 | 88 |
| 86 | Wear Model of Dry Sintered Bearing Material by Dimensional Analysis | Priya Gajjal, Shekhar Y Gajjal | Mechanical Engineering | c | 2019-20 | 89 |
| 87 | Experimental investigation of forming parameters for square cup deep drawing process | C S Choudhari, S S Khasbage | Mechanical Engineering | Materials Today: Proceedings | 2019-20 | 90 |
| 88 | Stress Analysis of Carbon Fiber Reinforced Composite Laminate with Different Centrally Located Cutouts | Vadgeri S. S., Patil S. R. | Mechanical Engineering | Materials Today: Proceedings | 2019-20 | 91 |
| 89 | Predicting Tensile Behaviour of Bulk Bamboo | Mannan Sayyad | Mechanical Engineering | Advanced Materials Letters | 2019-20 | 92 |

| | | | | | | |
|----|--|--------------------------------|------------------------|--|---------|-----|
| | using Weibull Statistics for Progressive Failure | | | | | |
| 90 | Finite element analysis comparison of spur gears between standard tooth profile and modified profile | Ajinkya Mali, Rahul Marne | Mechanical Engineering | International Research Journal of Engineering and Technology | 2019-20 | 93 |
| 91 | A review of computer application for selection of harmonic gear drive | U D Rathod, D Y Dhande | Mechanical Engineering | International Engineering Journal for Research and Development | 2019-20 | 94 |
| 92 | Smart Surveillance Drone - Warehouse Operations | Om Bayas, S V Chaitanya | Mechanical Engineering | International Journal of Advanced Research in Science Communication and Technology | 2019-20 | 95 |
| 93 | Tolerance analysis in selective assembly in multiple component features to control assembly variation using matrix model and genetic algorithm | A K Jeevanantham S V Chaitanya | Mechanical Engineering | International Journal of Precision Engineering and Manufacturing | 2019-20 | 96 |
| 94 | Use of analytical hierarchy process for the selection of optimum parameter of IC Engine | S Sawrate, S V Chaitanya | Mechanical Engineering | International Research Journal of Engineering and Technology | 2019-20 | 97 |
| 95 | MULTI-Attributes Decision Making to Evaluate the Performance of Indian Small Scale Machining Industry by using Field Data Based TOPSIS Method | M R Phate | Mechanical Engineering | International Journal of Research and Analytical Reviews | 2019-20 | 98 |
| 96 | Investigation of Performance of CI Engine with Rotating Energy Exchanger (REE) for Variation of Intake Air Temperature | M R Phate | Mechanical Engineering | International Journal of Research and Analytical Reviews | 2019-20 | 99 |
| 97 | Analyze Impact of Machining Environment on Human Energy in Indian Small Scale Industries | M R Phate | Mechanical Engineering | International Journal of Research in Advent Technology | 2019-20 | 100 |
| 98 | Critical Analysis of Machining Performance of Ferrous Materials Using Artificial Neural Network | M R Phate | Mechanical Engineering | International Journal of Advance and Innovative Research | 2019-20 | 101 |
| 99 | Prediction and Analysis of Surface Roughness in WEDM of Al/Gr/Cp5 MMC Using RSM & ANN | M R Phate | Mechanical Engineering | Industrial Engineering Journal | 2019-20 | 102 |

| | | | | | | |
|-----|---|------------------|------------------------|---|---------|-----|
| 100 | Analysis of Apparent Masses (AM) of Anthropometric based Human Seated Posture | M R Phate | Mechanical Engineering | Industrial Engineering Journal | 2019-20 | 103 |
| 101 | A review of the open-access scenario in Afghanistan | Dr Dandawate V S | Library | Library Hi Tech | 2019-20 | 104 |
| 102 | Open access e resources development in India and china: a comparative study | Dr Dandawate V S | Library | Journal of Advancements in Library Sciences | 2019-20 | 105 |




PRINCIPAL
 ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S
 COLLEGE OF ENGINEERING
 KENNEDY ROAD, PUNE-411 001