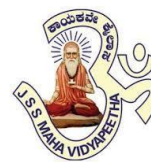




JSS Mahavidyapeetha
JSS Academy of Technical Education, Noida
Department of Mathematics



Publications

Faculty members undertake research work along with their regular teaching workload. They have published around 100+ Articles in Journals / Conferences. Some of the quality publications are listed here.

International Journals	International Conferences
44	11

2023 Publication Details

International Journals	International Conferences
0	3

Conference Publications :2023

1. Bishnu Kant Shukla, Aparupa Shenoy, **Bhupender Parashar**, Ashish Kumar, Pushpendra Kumar Sharma : "*An Experimental Study on Design Mixes of Pervious Concrete for Optimum Compressive Strength*" is **published (Sept 2023) in AIP Proceedings of International Conference on Materials for Emerging Technologies (ICMET-2021), 18-19 Feb 2022 at Lovely Professional University G.T. Road Phagwara Punjab (India).** <https://doi.org/10.1063/5.0162694>
2. Gaurav Bharti, Bishnu Kant Shukla, **Bhupender Parashar**, Ashish Kumar, S Varadharajan: "*Experimental Study on Physico-Mechanical Properties of Expansive Soil by Using Wheat Straw Fiber*" is **published (Sept 2023) in AIP Proceedings of International Conference on Materials for Emerging Technologies (ICMET-2021), 18-19 Feb 2022 at Lovely Professional University G.T. Road Phagwara Punjab (India).** <https://doi.org/10.1063/5.0163437>
3. Bishnu Kant Shukla, **Bhupender Parashar**, Gaurav Bharti, Pushpendra Kumar Sharma, Ashish Kumar: "A Sustainable Design of Energy Efficient and Environment

Friendly Residential Building for Tropical Climate " is *published (Sept 2023) in AIP Proceedings of International Conference on Materials for Emerging Technologies (ICMET-2021), 18-19 Feb 2022 at Lovely Professional University G.T. Road Phagwara Punjab (India).* <https://doi.org/10.1063/5.0162700>

2022 Publication Details

International Journals	International Conferences
6	2

Journal Publications: 2022

1. Ansari Z.K., "Fixed Point Result on Generalized Cone b-Metric Spaces", Pure and Applied Mathematics Journal, 11(2): 28-32, doi: 10.11648/j.pamj.20221102.11 ISSN: 2326-9790 (Print); ISSN: 2326-9812 (Online), 2022.
2. Ansari Z.K., "Fixed Point Results in Fuzzy Metric Spaces, Fuzzy 2 & 3, "Metric Spaces: Pure and Applied Mathematics Journal, 11(5): 84-95, doi:10.11648/j.pamj.20221105.12, ISSN: 2326-9790 (Print); ISSN: 2326-9812 (Online), 2022.
3. Rajkumar Verma, Nikunj Agarwal, "Multiple attribute group decision-making based on generalized aggregation operators under linguistic interval-valued Pythagorean fuzzy environment", Granular Computing, 2022. (WOS).
4. Singh, S., Singh, A. K., & Guha, S. (2022). Reflection of plane waves at the stress-free/rigid surface of a micro-mechanically modelled Piezo-Electro-Magnetic Fiber-Reinforced half-space. Waves in Random and Complex Media, (Impact factor 4.853) (Taylor & Francis) SCI (Q1) DOI: <https://doi.org/10.1080/17455030.2022.2083720>
5. Singh, A. K., Rajput, P., Guha, S., & Singh, S. Propagation characteristics of love-type wave at the electro-mechanical imperfect interface of a piezoelectric fiber-reinforced composite layer overlying a piezoelectric half-space. European Journal of Mechanics-A/Solids, 104527. (Impact factor 4.22) (Elsevier) SCI/SCIE (Q1) DOI: <https://doi.org/10.1016/j.euromechsol.2022.104527>, 2022.
6. Ranu Pandey "A Tsallis-like effective exponential delay discounting model and its implications", is published in Physica A: Statistical Mechanics and its applications

(WOS) 603(1) 2022 <https://doi.org/10.1016/j.physa.2022.127836>.

Conference Publications: 2022

1. Sunil Bhardwaj, Nitin Bhardwaj, Vijay Kumar, **Dr Bhupender Parashar**: “*Imperfect Maintenance Modelling for Sequential Corrective & Preventive Maintenance*” is published in **AIP Proceedings of National Conference on Applied Sciences and Mathematics (NCASM-20)**, held on 24th - 25th September 2020 at Chitkara University, Punjab (India). Published in May 2022.
Doi : <https://doi.org/10.1063/5.0080592>
2. Nitin Bhardwaj, **Dr Bhupender Parashar**, Ajay Kumar, Deepankar, P.K. Muhammed Jaslam: “Principal Component Analysis for the Assessment of Genetic Diversity” is published in **AIP Proceedings of National Conference on Applied Sciences and Mathematics (NCASM-20)**, held on 24th - 25th September 2020 at Chitkara University, Punjab (India). Published in May 2022.
Doi : <https://doi.org/10.1063/5.0080566>
3. Vinita Khemchandani, Ranu Pandey and Bhupender Parashar, Computational Elucidation of an Unsteady Boundary Lamina Flow With the Heat Transfer Effects Adjoining to An Extending Sheet Via A Permeable in National Conference on Mathematical Sciences for Applied and Agricultural Research" organised by CCS Haryana Agricultural University, Hisar on February 22, 2022.
4. Ranu Pandey, Bhupender Parashar and Vinita Khemchandani, Reliability Models : A Comparative Study of A 2- Unit Hot Standby Systems With and Without Inspection Policy in National Conference on Mathematical Sciences for Applied and Agricultural Research" organised by CCS Haryana Agricultural University, Hisar on February 22, 2022.

2021 Publication Details

International Journals	International Conferences
5	1

Journal Publications: 2021

1. Nitin Bhardwaj, P.K. Muhammed Jaslam, Jitender Kumar Bhatia, Bhupender Parashar, Salinder: “Neural Network Auto Regression and Classical Time Series

Approaches for Rice Yield Forecasting”, is published in The Journal of Animal and Plant Sciences (JAPS) 31 (4) 2021, WoS Journal. Impact factor: 0.59
<https://doi.org/10.36899/JAPS.2021.4.0310>

2. Sunil Bhardwaj, Nitin Bhardwaj, Vijay Kumar, Bhupender Parashar, Mohit Kumar Kakkar, Jasdev Bhatti, “Computational Study Reliability of Diesel Engine through Electrical Assembly” is published in The International Journal of Integrated Engineering, ISSN: 2229-838X e-ISSN: 2600-7916, WoS Journal. Impact factor: 0.85
<https://doi.org/10.30880/ijie.2021.13.06.015>
3. Ranu Pandey, Bhupendar Parashar, Vinita Khemchandani, “Modelling and Reliability Analysis of Power Cables Used as a Two Unit Hot Standby System with Preference of Repair over Replacement in the Metro Railways”, International Conference on Mathematical Sciences : Journal of Physics Conference Series, doi:10.1088/1742-6596/1770/1/012089 ,2021. J. Phys.: Conf. Ser. 1770 012089.
4. Rajkumar Verma, Nikunj Agarwal, “Multiple attribute group decision-making based on generalized aggregation operators under linguistic interval-valued Pythagorean fuzzy environment”, Granular Computing, 2021. (WOS) (Accepted).
5. Nikunj Agarwal, “Decision making model based on fuzzy AHP and TOPSIS using weakest t-norm operations”, Annals of Optimization Theory and Practice, 2021.

Conference Publications: 2021

1. Ranu Pandey, Bhupender Parashar, Vinita Khemchandani, Nitin Bhardwaj, Prashant Pandey, “Modelling and Reliability Analysis of Power Cables Used as a Two Unit Hot Standby System with Preference of Repair over Replacement in the Metro Railways” in International Conference on Mathematical Sciences (ICMS-2020), Sathyabhama institute of Science and Technology, Chennai (March 2020); is published in proceedings in Journal of Physics Conference Series.

2020 Publication Details

International Journals	International Conferences
3	1

Journal Publications: 2020

1. Ajay Kumar Singh, Z . K. Ansari, J.P. Patel, Pawan Kumar, “Some Fixed Point Results in Menger Space Using the Notion of CLR and JCLR Property”, Journal of Advances and Scholarly Researches in Allied Education Vol.17, Issue No . 2, 202-208, October -2020.
2. Pawan Kumar, Balbir Singh, Z K Ansari, “Some fixed point results in parametric metric space”, J. Math. Comput. Sci. 10, No. 6, 3143-3158, 2020. <https://doi.org/10.28919/jmcs/5039> ISSN: 1927-530.
3. S.K.J. Pacif, Md Salahuddin Khan, L K Paikroy and Shalini Singh, “An accelerating cosmological model from a parametrization of hubble parameter”, Modern Physics Letters A, Vol 33/ No.1, PAGE No-2050011(16 Pages), 2020, DOI:10.1142/S021773232050011X (Scopus, WoS & SCI, IF:1.391)

Conference Publications: 2020

5. Ranu Pandey, Bhupender Parashar, Vinita Khemchandani, Nitin Bhardwaj, “Comparative Analysis of reliability models of an electric wire (33 KV) used in metro railways under inspection policy” in National Seminar on “Mathematical Sciences: Repositories of Logical Thoughts and Analytical Tools” organised by CCS Haryana Agricultural University, Hisar and sponsored by DST, Haryana, 22nd December 2020.
6. Sunil Bhardwaj, Nitin Bhardwaj, Vijay Kumar, Bhupender Parashar, “Imperfect Maintenance Modelling for Sequential Corrective & Preventive Maintenance” is accepted to be published in AIP Proceedings of National Conference on Applied Sciences and Mathematics (NCASM-20), held on 24th - 25th September 2020 at Chitkara University, Punjab (India).
7. Nitin Bhardwaj, Bhupender Parashar, Ajay Kumar, Deepankar, P.K. Muhammed Jaslam, “Principal Component Analysis for the Assessment of Genetic Diversity” is accepted to be published in AIP Proceedings of National Conference on Applied Sciences and Mathematics (NCASM-20), held on 24th - 25th September 2020 at Chitkara University, Punjab (India).
8. Anushri Verma, “Thermal Effect of Compressible Rivlin Ericksen Fluid Permeated with Suspended Particles in Porous Medium”, 2nd National Conference on Recent Trends in Mathematics with Applications, January 30-31, 2020, organized by Shri Ramswaroop Memorial University, Lucknow.

2019 Publication Details

International Journals	International Conferences
2	1

Journal Publications: 2019

1. Sunil Bhardwaj, Nitin Bhardwaj, Vijay Kumar, Bhupender Parashar, “Estimation of lifespan of diesel locomotive engine”, in Journal of Information and Optimization Sciences, Taylor & Francis group, Web of Science, Vol. 40, No. 5, pp. 1097–1108, August 2019, ISSN 0252-2667 (Print), ISSN 2169-0103 (Online). DOI: 10.1080/02522667.2019.1641895
2. Ranu Pandey, Bhupender Parashar, Ajay Kumar Gupta, “Availability and Profit Analysis of Power Cables Used as a Two Unit Hot Standby System with Inspection in Metro Railways Network”, in Journal of Emerging Technologies and Innovative Research (JETIR), Vol 6, Issue 3, pp. 391-406, March 2019, ISSN (O) 2349-5162.
3. Vinita Khemchandani, Ranu Pandey, “Radiation effects on unsteady two-dimensional flow through a porous medium over a stretching sheet with slip boundary conditions”, IJREAM 5(4) 144-150. June 2019, ISSN: 2454-9150. DOI:10.35291/2454-9150.2019.0309

Conference Publications: 2019

1. Ranu Pandey, Bhupender Parashar, A K Gupta, “With the Inspection Policy Availability Analysis of Cables Used as a 2- Unit Cold Standby System in Metro Railways”, in the proceedings of 2nd National Conference on Advance Research in Computer Science & Engineering (ARCSE - 2019) in International Journal of Advance Research & Innovative Ideas in Education (IJARIIE), Conference Issue: Vol.3, Issue 4, Pgs. 6-11, 2019, 4th & 5th Sept 2019, ISSN No. (Online): 2395-4396.
2. A K Aggarwal, Anushri Verma “Double Diffusive Convection in a Rotating Nanofluid Layer Saturating in a Porous Medium”, Track C, Continuum Mechanics and Numerical Analysis, Page No. C.8, 3rd International Conference on Recent Advances in Mathematical Sciences and its Applications, January 17-19, 2019, Organized by Department of Mathematics, Jaypee Institute Of Information Technology, Noida.

2018 Publication Details

International Journals	International Conferences
7	1

Journal Publications: 2018

1. Ranu Pandey, Bhupender Parashar, Ajay Kumar Gupta, “Modelling and Availability Analysis using Single Unit Power Cable in Metro Railways” in International Transactions in Mathematical Sciences and Computers (ITMSC), Volume: 11 (2), Pages: 25-36, ISSN (Print) : 0974-5068 , ISSN(ONLINE): 0975-3753 , Dec 2018.
2. Ranu Pandey, Bhupender Parashar, Ajay Kumar Gupta, “Performance and Reliability Analysis of a Single Unit Power Cable with Inspection Policy in Metro Railways” in International Journal for Research in Engineering Application & Management (IJREAM) Vol-04, Issue-09, pp.310-318, Dec 2018, ISSN: 2454-9150.
3. Ranu Pandey, Bhupender Parashar, Ajay Kumar Gupta, Nitin Bhardwaj, “Stochastic Analysis of Reliability of Power Cables used as a Two-unit Cold Standby System in Metro Railways”, International Journal of Mathematical Archive (IJMA), 9(5), pp. 8-21, April 2018, ISSN (ONLINE): 2229-5046.
4. Pawan Kumar, Balbir Singh, Z K Ansari, “Some Fixed Point results in Cone b-metric Space”, International Journal of Advances in Mathematics, Vol.4, PP 80-89, 2018,ISSN-2456-6098. DOI: 10.9734/JAMCS/2017/37973.
5. Pawan Kumar, Balbir Singh, Z K Ansari, “Variants of compatible mappings in Fuzzy Metric spaces”, Annals of Fuzzy Mathematics and Informatics, Volume 15, No. 2, pp. 169–180, April 2018.ISSN-2093-9310. <https://doi.org/10.9734/JAMCS/2017/37973>
6. Pawan Kumar, Balbir Singh, Z K Ansari, “Fixed Point Theorems in Partial b-Metric Spaces Using Contractive Conditions”, Asian Research Journal of Mathematics 8(4): 1-11, 2018; Article no.ARJOM.39819. ISSN: 2456-477X. DOI: 10.9734/ARJOM/2018/39819
7. Pawan Kumar, Balbir Singh, Z K Ansari, “Compatible mappings of Types using implicit relations in Fuzzy metric spaces: International Journal of Advance in Mathematics”, Vol 2018, Number 2, 61-74, 2018. ISSN-2456-6098.<https://adv-math.com/compatible-mappings-types-using-implicit-relations-fuzzy-metric-spaces/>.

Conference Publications: 2018

1. Ranu Pandey , Bhupendar Parashar, Vinita Khemchandani, “Reliability Modelling and Availability Analysis of Power Cables Used as a Two Unit Hot Standby System in Metro Railways”, IEEE - International Conference On Recent Innovations In Electrical, Electronics & Communication Engineering - (ICRIEECE, proceedings) at KIIT University, Bhubaneshwar, Odisha, India, July 2018.

2017 Publication Details

International Journals	International Conferences
10	0

Journal Publications: 2017

1. Anjali Naithani, Bhupender Parashar, P. K. Bhatia, Gulshan Taneja, “Probabilistic analysis of a 3-unit induced aft fan system with one warm standby with priority to repair of the unit in working state” in Springer’s International Journal of System Assurance Engineering and Management; ISSN 0975-6809, DOI 10.1007/s13198-017-0608-6 (2017).
2. Nitin Bhardwaj, Bhupender Parashar, “Stochastic Reliability Analysis of Two Identical Cold Stand by Units with Geometric Failure & Repair Rates” in Mathematical Journal of Interdisciplinary Sciences Vol-5, No-2, pp. 131–142 March 2017; ISSN No. Print: 2278-9561 ISSN No. Online: 2278-957X.
3. Pawan Kumar, Balbir Singh, Z K Ansari, “Variants of Compatible Mappings in Menger Spaces”, Journal of Advances in Mathematics and Computer Science, 25(6) 1-15,2017. Article no.JAMCS.37973 ISSN: 2456-9968 (Past name: British Journal of Mathematics & Computer Science, Past ISSN: 2231-0851)
4. Pawan Kumar, Balbir Singh, Z K Ansari, “Common fixed Point Theorems in Fuzzy Metric Spaces Using CLR Property”, International Journal of Fuzzy Mathematical Archive ,Vol. 13 ,No.2, 173-190, 2017. ISSN: 2320 –3242 (P), 2320 –3250 (online).<http://dx.doi.org/10.22457/ijfma.v13n2a8>
5. Pawan Kumar, Arun Garg, Z K Ansari, “Some fixed point results in cone Metric Spaces for Rational Contractions”, SOUTH EAST ASIAN JOURNAL OF MATHEMATICS AND MATHEMATICAL SCIENCES, Volume 13, No. 2,

October, 2017, 125-132. ISSN-0972-7752. South East Asian J. of Math. & Math. Sci.
ISSN : 0972-7752 ...<http://rsmams.org> > download >

6. Z. K. Ansari, Pawan Kumar, Arun Garg, “Some Common Fixed Point Theorems of Contractive mappings in Cone b-metric Spaces”, International Journal of Mathematics And its Applications Volume 5, Issue 4–A, 1–8, 2017. ISSN: 2347-1557. <http://ijma.in/>
7. A K Aggarwal, Anushri Verma, “Effect of Hall currents on double diffusive convection of compressible Rivlin-Ericksen fluid permeated with suspended particles in porous medium” Mathematical Sciences and its Applications, AIP Conf. Proc., vol. 1802, Issue 1, pp. 020001-1–020001-9; ISSN 0094243, <http://dx.doi.org/10.1063/1.4973251>. 2017. (Indexed in SCOPUS, Impact Factor-1.45).
8. Shalini Singh and S D Singh, “Tensor of the type (0,4) in a manifold equipped with an almost para Norden contact metric manifold”, Journal of Mathematics and Informatics, , vol 9, 1-7, Oct 2017. ISSN 2349-0632 (Print) ISSN 2349-0640 (Online).
9. Shalini Singh, “Semi-symmetric non-metric S-connection on a generalized contact metric structure manifold”, International Journal of Advanced Research, 5(6), 1685-1690, June 2017. ISSN 2320-5407.
10. D. S. Chauhan, Vinita Khemchandani, “Entropy analysis of a coupled-convection flow through a vertical channel partially filled by a porous medium with injection/suction and slip boundary conditions”, Heat Transfer-Asian Research, doi/10.1002/htj.21252 , 2017, ISSN:1523-1496(Online).
11. Harish Garg, Nikunj Agarwal and Alka Tripathi, “Some improved interactive aggregation operators under interval-valued intuitionistic fuzzy environment and its application to decision making process”, Scientia Iranica. Transaction E, Industrial Engineering, Vol.24 (5), pp. 2581-2604, 2017.
12. Harish Garg, Nikunj Agarwal and Alka Tripathi, “Choquet Integral-Based Information Aggregation Operators under the interval-valued intuitionistic fuzzy set and Its Applications to Decision-Making Process”, International Journal for Uncertainty Quantification, Vol. 7 (3), 2017.
13. Harish Garg, Nikunj Agarwal and Alka Tripathi, “A novel generalized parametric directed divergence measure of intuitionistic fuzzy sets with its application”, Annals of Fuzzy Mathematics and Informatics, Vol.13 (6), pp. 703-727, 2017.

Conference Publications: 2017

Nil

2016 Publication Details

International Journals	International Conferences
6	1

Journal Publications: 2016

1. Z .K. Ansari, Arun Garg, Pawan Kumar, “Fixed Point Theorems in Intuitionistics Fuzzy Metric Spaces Using Implicit Relations”, Journal of Applied Mathematics, 7, 569-577, 2016. <http://dx.doi.org/10.4236/am.2016.76052>
2. A K Aggarwal, Anushri Verma, “Effect of Hall currents on thermal instability of dusty couple stress fluid”, Archives of Thermodynamics, vol 37(3), pp. 3-18, DOI:10.1515, 2016 (Indexed in SCOPUS, Impact Factor-0.67)
3. Shalini Singh, “A semi-symmetric metric connection on an integrated contact metric structure manifold”, International Journal of Advances in Scientific Research, 2(12), 194-197, December 2016. ISSN: 2395-3616.
4. D. S. Chauhan, Vinita Khemchandani, “Entropy generation in the Poiseuille flow of a temperature dependent viscosity fluid through a channel with a naturally permeable wall under thermal radiation”, Advances in Applied Science Research , Vol 7 ,No.4 , 2016, 104-120.ISSN : 0976-8610.
5. D.S. Chauhan, Vinita Khemchandani, “Slip effects on unsteady mixed convection boundary layer flow through porous medium past a vertical stretching sheet and entropy generation”, J. Rajasthan. Acad. Physical Sciences, Vol. 15, No,1&2, ,49-62, 2016. ISSN: 0972-6306.
6. Harish Garg, Nikunj Agarwal and Alka Tripathi, “Generalized intuitionistic fuzzy entropy measure of order alpha and degree beta and its applications to multi-criteria decision making problem”, International Journal of Fuzzy System Applications (IJFSA) Vol. 6 (1), pp. 86-107, 2016
7. Harish Garg, Nikunj Agarwal, Alka Tripathi, “Fuzzy Number Intuitionistic fuzzy soft sets and its properties”, Journal of Fuzzy set valued Analysis, Vol. 3, pp. 196 -

213, 2016.

Conference Publications: 2016

1. Harish Garg, Nikunj Agarwal and Alka Tripathi, “Choquet integral-based intuitionistic fuzzy bonferroni mean operator”, 9th International Conference on Contemporary Computing (IC3)” at IIIT, August 11, 2016 – August 13, 2016.

2015 Publication Details

International Journals	International Conferences
5	1

Journal Publications: 2015

1. Nitin Bhardwaj, Jasdev Bhatti, Bhupender Parashar, Naresh Sharma, “Stochastic Analysis of Standby System with Different failure” published in International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.35, Pgs. 27553-27563, 2015.
2. Z .K. Ansari, Arun Garg, Pawan Kumar, “Fixed Point Theorems on increasing functions in complete partial metric spaces (CPMS)”, Journal of Advanced studies in Topology 6:3, ;117-124 2015. <http://dx.doi.org/10.20454/jast.2015.942>
3. Shalini Singh, “Semi-symmetric non-metric S-connection equipped with an Unified contact Riemannian manifold”, International journal of mathematical archive, 6(3), 106-111, March 2015. EISSN 2229-5046.
4. Shalini Singh, “Some properties of curvature tensor on an almost unified para norden contact metric structure manifold”, International journal of advanced scientific and technical research, Jan-Feb 2015. ISSN 2249-9954.
5. Shalini Singh, “Unified contact Riemannian manifold admitting semi-symmetric metric S-connection”, IOSR Journal of mathematics, vol 11, Issue 1. Ver. V, 80-87, Jan-Feb 2015. e-ISSN: 2278-5728, p-ISSN: 2319-765X.
6. Harish Garg, Nikunj Agarwal and Alka Tripathi, Entropy based multi-criteria decision making method under fuzzy environment and unknown attribute weights, Global Journal of Technology and Optimization, 6, 13-20, 2015.

Conference Publications: 2015

1. Mohit Kakkar, Nitin Bhardwaj, Bhupender Parashar, Naresh Sharma, Jasdev Bhatti, “Reliability Analysis of Two Dissimilar parallel unit system with the provision of Instantaneous Replacement of a Low-cost unit” in Proceeding of 2nd International Conference on Recent Developments in Science, Engineering and Technology (REDSET-2015), pp-472-475, held on 30-31 October, 2015 organized by the School of Engineering, GD Goenka University, Haryana (India).