

Department of Applied Sciences (1st Shift)
Journal Publications till July 2021

| Sr. No. | Faculty Name | Title | Journal | ISSN/ ISBN | Year |
|----------------|-----------------------|--|---|-------------------|-------------|
| 1. | Dr. Man Singh Beniwal | Approximation Between Modified Baskakov And Srivastava-Gupta Operators | PUBLICATIONS DE L'INSTITUT MATHEMATIQUE | 0350-1302 | 2020 |
| | | Direct estimates for a certain form of Srivastava-Gupta operator | Boletin de la Sociedad Matematica Mexicana | 1405-213X | 2018 |
| | | Approximation of Durrmeyer type operators depending on certain parameters | Abstract and Applied analysis | 1687-0409 | 2017 |
| 2. | Dr. Ajay Gahlot | Resonant Decay of a Langmuir wave in the presence of dust grains in a cylindrical plasma | Contributions to Plasma Physics | 1521-3986 | 2018 |
| | | Theoretical Modelling of Modulational Instability of a Lower Hybrid Wave in a Complex Plasma | Progress In Electromagnetics Research | 1070-4698 | 2017 |
| | | The effect of dust grains on the Weibel instability in presence of large amplitude electrostatic waves | Physics of Plasmas | 1070-664X | 2020 |
| | | Kinetic theory of effect of dust charge fluctuations on the parametric decay of lower hybrid wave instability by relativistic runaway electrons in tokamak | Physics of Plasmas | 1070-664X | 2021 |
| 3. | Dr. Brijpal Singh | Optimal design of flux for submerged arc weld properties based on RSM coupled with GRA and PCA | Int. J. Manufacturing Technology and Management | 1741-5195 | 2020 |
| | | Correlation of inclusion characteristics and microstructure with mechanical properties in low carbon steel weldments. | Journal of metallurgy and material science | 0974-1267 | 2018 |
| | | Influence of flux composition on | China welding | 0972-4257 | 2018 |

| | | | | | |
|----|-----------------------|--|--|---------------|------|
| | | microstructure and oxygen content of low carbon steels in SAW , | | | |
| | | Experimental study on effect of flux composition on element transfer during SAW | Sadhana Academy | 1004-5341 | 2018 |
| 4. | Dr. Sheela Devi Malik | Interdependence between electrical and magnetic properties of polycrystalline cobalt-substituted tungsten bronze multiferroic ceramics | Journal of Advanced Dielectrics | 2010-135X | 2018 |
| | | Study of Structural and Dielectrical Properties of Lead Free Polycrystalline Electro Ceramics Ba ₅ CaTi ₂ Nb ₈ O ₃₀ (BCTN) for Microwave Tunable Device Applications | Materials Sciences and Applications, | 2153-117X | 2018 |
| | | Impact of copper substitution on the structural, ferroelectric and magnetic properties of tungsten bronze ceramics | Physica B: Condensed Matter | 0921-4526 | 2018 |
| | | Synthesis and characterization of polycrystalline Ba ₅ CaTi _{2-x} M _x Nb ₈ O ₃₀ (M=Cu) tungsten bronze electro ceramics | Ferroelectrics | 0015-193 | 2017 |
| | | Review on dielectric study of polycrystalline rare earth substituted Tungsten Bronze electroceramics for high temperature applications | International Journal of ChemTech Research | 0974-4290 | 2017 |
| | | Investigation of structural, ferroelectric and magnetic properties of iron doped tungsten bronze multiferroic ceramics | Physica B: Condensed matter | 0921-4526 | 2020 |
| | | Phase transition and optical properties of samarium-doped BiFeO ₃ nanoparticles | Journal of Materials Science: Materials in Electronics | 0957-4522 | 2020 |
| | | Synthesis and characterization of samarium substitutes bismuth ferrites nanoparticles | Materials Today : Proceedings | 2214-7853 | 2021 |
| | | Phase formation and spectroscopy analysis of doped bismuth ferrite nanoparticles | Materials Today : Proceedings | 2214-7853 | 2021 |
| | | Electrical characterization of electro-ceramics, chapter in Composite Material | CRC Press Taylor & Francis | 9780367490768 | 2021 |

| | | | | | |
|----|--------------------|---|--|-----------|-----------|
| 5. | Dr. Jindagi Kumari | “Slaughtering Myths”: A Study of Dalit Feminism in Meena Kandasamy’s Poetry.” | MSIT Journal of Research, Vol. 8 | 2319-7897 | 2020 |
| | | Review article on The Origins of Dislike by Amit Chaudhuri (New Delhi: Oxford University Press | Muse India | 0975-1815 | 2019 |
| | | Review article on The Day We Went Strawberry Picking in Scarborough by Ranu Uniyal. (Bhubaneshwar: Dhauli books | Teesta Review. Vol.1N.2 | 2581-7094 | 2018 |
| | | Review article on Why I am Hindu by Shashi Tharoor. (New Delhi: Aleph Books.2018. ISBN: 978-93-86021-10-6 Pp 302 / 699) | Muse India. 79 | 0975-1815 | 2018 |
| | | The "Deluge of Development" in C.L. Kothari: Representation of the Anthropocene in Indian English Poetry | Dialogue: A Journal Devoted to Litrary Appreciation | 0974-5556 | 2017 |
| | | Writing Back: The elements of Post-Colonialism in Amitav Ghosh’s Sea of Poppies | Int. J. of Language Literature and Theory | 2347-355X | Feb 2016 |
| | | The Post- Colonial Metropolis: A study of the Cityscape in Amitav Ghosh’s The Shadow Lines | Dialogue | 0974-5556 | Dec 2015 |
| | | Portrait of Childhood in Indian English Short Stories by Women | Dialogue | 0974-5556 | June 2013 |
| | | Erotic Consciousness in the Poetry of Shiv K. Kumar and R.K. Singh: A Comparative Study | Poetcrit | 0970-468X | 2012 |
| | | It’s Too Much To Live: Theme of Death in R.K. Singh’s Poetry | Poetcrit | 0970-2830 | 2010 |
| | | Reinterpretation of Biblical Myths in Shiv K. Kumar’s Trapfalls in the Sky: A Study | Indian Book Chronicle: News and Reviews | 0970-468 | 2010 |
| | | Treatment of Myths in the Poetry of Shiv K. Kumar and R.K. Singh: A Comparative Study | Anvikshiki: Bimonthly International J. of All Research | 0973-9777 | 2010 |
| | | From the Howling Sea to the Vale of Silence: | A Study of the | 978-81- | 2009 |

| | | | | | |
|----|------------------|---|--|-------------------|------|
| | | Dark Imagery in Niranjana Mohanty's Prayers to Lord Jagannath | Poetry of Niranjana Mohanty (Book) | 8435-209-2 | |
| | | The Poetics of R. K. Singh | The Journal of Indian Writing in English | 0302-1319 | 2009 |
| 6. | Dr. Pooja Singh | Hypergeometric Functions on Cumulative Distribution Function | Asian Research Journal of Mathematics | 2456-477X | 2019 |
| | | Integrals of Four Variables with Statistical Distribution associated with hyper geometric function of Matrix Argument | International Journal of Scientific Research and Engineering Development | 2581-7175 | 2019 |
| | | Hypergeometric function and its Applications, | Journal of Critical Review | 2394-5125 | 2020 |
| 7. | Dr. Rakesh Kumar | Self-Supported Lightweight Polyaniline Thin Sheets for Electromagnetic Interference Shielding with Improved Thermal and Mechanical Properties | American Journal of Polymer Science | 2163-1352 | 2015 |
| | | Poly (o-anisidine)-carbon fiber based composites as an introductory material for EMI shielding | Advanced Materials Letters | 0976-3961 | 2015 |
| | | Fabrication and microwave shielding properties of free standing polyaniline-carbon fiber thin sheets | Materials Chemistry and Physics | 0254-0584 | 2015 |
| | | Lightweight and solution processible thin sheets of poly (o-toluidine)-carbon fiber-novolac composite for EMI shielding | RSC Advances | 2046-2069 | 2015 |
| | | Silicones as Alternate Materials to Plastic: A Brief Review" in edited book entitled "Fundamental of Plastic Waste Management | DBH Publishers and Distributors | 978-93-84871-18-5 | 2019 |
| 8. | Ms. Pooja Singh | Properties and Transistor Applications of Silicon Nanowires | International Journal of Physics | 0974-3103 | 2020 |

| | | | | | |
|-----|---------------------|---|--|-------------|------|
| | | | and Applications | | |
| | | Infrared Detector | International Journal of Electronics Engineering Research | 0975-6450 | 2019 |
| 9. | Ms. Deeba Naqvi | Solving I-fuzzy two person zero-sum matrix games: Tanaka and Asai approach | Granular Computing | 2364-4966 | 2019 |
| | | A novel approach for two person zero-sum matrix game with intuitionistic fuzzy 2-tuple linguistic information | The Research Journal (TRJ) | 2454-7301 | 2020 |
| 10. | Dr. Ajay Kumar | Using Quorum for Solving Channel Allocation Problem | International Journal of Computer Science and Mobile Computing | 2320-088X | 2019 |
| | | A Brief Study of Routing Protocols for Finding Efficient Path in MANETS | International Journal of Computer Science and Mobile Computing | 2320-088X | 2020 |
| 11. | Dr. Anju R. Ahlawat | Heterocyclic systems containing Bridgehead nitrogen atom : synthesis and antimicrobial, antifungal activity of cis-8,8a-dihydropyrazolo[3',4':4,5]thiazolo[2,3-b]-s-triazolo[3,4-b][1,3,4]thiadiazole | Heterocyclic Letters | 2230 - 9632 | 2018 |
| | | Electronic Waste Impacting Health and Environment, Its Management- Global & Indian Perspective | International Journal of Scientific Research and Engineering Development | 2581 - 7175 | 2019 |
| | | Improved Fuel Quality Standards And | International | 2582-5208 | 2020 |

| | | | | | |
|-----|------------------------|---|--|-----------|------|
| | | Advancements In Emission Norms –Warranting Better Air In Urban India | Research Journal of Modernization in Engineering Technology and Science | | |
| 12. | Mr. Rajbir Singh | Interdependence between electrical and magnetic properties of polycrystalline cobalt substituted tungsten bronze multiferroic ceramics, | Journal of Advanced Dielectrics | 2010135X | 2018 |
| | | Magnetic Abrasive Flow Machining Process Review and Its Experimental Investigation | International Journal of Engineering Research & Technology | 2278-0181 | 2019 |
| | | Safety Intervention in Urban Planning For Vulnerable Road Users | International Journal Of Engineering Research And Development | 2278-067X | 2020 |
| 13. | Mr. Rajbir Singh Rathi | Techno-Economic Comparison of UASB Reactors with other Sewage Treatment Technologies in India | International Journal for Innovative Research in Multidisciplinary Field | 2455-0620 | 2019 |
| | | Biomedical Waste Management in the wake of Covid-19: Challenges and Current state of Affairs in India | International Journal Of Engineering Research And Development | 2278-067X | 2020 |
| 14. | Dr. Reetu Siwach | Lie Nilpotent Group Algebras: A Survey | International Journal of Mathematics Trends and Technology | 2349-5758 | 2019 |
| | | A Note on Lie Derived Length of Group | International | 2395-0056 | |

| | | | | | |
|-----|------------------|---|---|------------------------|------|
| | | Algebras | Research Journal of Engineering and Technology (IRJET) | | |
| 15. | Dr. Sumita Dabas | Zinc Silicate-Bonded Dimethyl Dithiocarbamate as a Selective Adsorbent for Separating Transition Metal Ions and Preconcentration of Palladium(II) | MSIT Journal of Research-SATYAM | 2319-7897 | 2020 |
| 16. | Dr. Anju Dhillon | Safety Interventions in Urban Planning For Vulnerable Road Users | International Journal of Engineering Research & Development | 2278-067X | 2020 |
| | | Polypyrrole/Zinc oxide nanocomposite in supercapacitors | Satyam | 2319-7897 | 2020 |
| | | pH- responsive drug release from dependal-M loaded polyacrylamide hydrogels | Elsevier Journal of Science: Advanced Materials and Devices | 2468-2179 | 2017 |
| 17. | Mr. Jayesh kumar | Advancement and Challenges in Latent Heat Thermal Energy Storage System | Lecture Notes in Advances in Mechanical Engineering. Springer | ISBN 978-981-15-7711-6 | 2021 |

Department of Applied Sciences (1st Shift)
Conference Presentation/Publications till July 2021

| Sr. No. | Faculty Name | Title of paper presented/published | Conference Title | Organizer & Venue | Year |
|---------|------------------|--|--|--|------------------------------------|
| 1 | Dr. Rakesh Kumar | Effects of Backbone Functionalization on Electrical and Shielding Behaviour of Conducting Polyaniline Composites | Online National Conference on Recent Advances in Functional Materials (RAFM-2020) | Department of Physics, ARSD College, DU, Delhi | Nov. 05-06, 2020 |
| 2 | Dr. Rakesh Kumar | Carbon Fiber Reinforced Poly (o-methoxy aniline) Composites for Futuristic Applications | International e-Symposium on Smart Polymers: Applications in Current Scenario (SPACS-2021). | Amity University Noida, U.P. in Association with Asian Polymer Association | Jan. 15-16, 2021 |
| 3 | Dr. Rakesh Kumar | Recent developments in Surface Acoustic Wave (SAW) sensors and their applications in different areas | 7th National Conference on Advances in Metrology-2021 (AdMet-2021) | MSIT in Association with CSIR-NPL, MSI & NABL | March 05-06, 2021 |
| 4 | Mr. Jayesh Kumar | The effect of geometric parameters of a container on thermal charging of latent heat thermal energy storage system: A Review | 1st International Conference on Energy, Materials Sciences and Mechanical Engineering (EMSME - 2020) | Department of Mechanical Engineering, National Institute of Technology Delhi, Delhi, India | October 30th - November 01st, 2020 |
| 5 | Mr. Jayesh Kumar | Advancement and challenges in latent heat Thermal Energy Storage system | Innovative technologies in Mechanical Engineering | department of Mechanical engineering, KIET group of Institutions, Ghaziabad, U.P. | 18-19th October 2019 |
| 6 | Mr. Jayesh Kumar | PCM as thermal energy storage medium: state of art review | Sustainable Technologies for Environmental Management | Delhi Technology university (DTU) , Delhi. | March 25-26, 2019 |
| 7 | Dr Brijpal Singh | Modelling of slag produced in Submerged arc welding; Int. conference on | Emerging trends in Electro-Mechanical Technologies and management. 26-27 July 2019 | HMR IT Delhi | 26-27 July 2019 |
| 8 | Dr Brijpal Singh | Optimization of flux for bead geometry and weld dilution | 7th National Conference on Advances in Metrology-2021 (AdMet-2021) | MSIT in Association with CSIR-NPL, MSI & NABL | 5-6 March 2021 |
| 9 | Deeba Naqvi | Two Person Zero Sum Matrix Game involving I-Fuzzy Parameters | 51st Annual Convention of Operational Research Society of India (ORSI) and International | IIT Bombay and Operational Research Society of India Mumbai Chapter | December 16-19, 2018 |
| 10 | Deeba Naqvi | On Solving Group Matrix Games Involving Interval Valued Fuzzy Numbers | "International Conference on Mathematical Analysis and its Applications (ICMAA-2019)" | South Asian University, New Delhi-110021, India. | December 14-16, 2019 |
| 11 | Mr. Surender | Analysis of Toxic Elements in the underground water of Bahadurgarh City Haryana India" | International conference on "Innovations in Chemical, Biological & Environmental Sciences"(ICICBES-2019) | Deptt. Of Chemistry Arya P.G. College Panipat (HR) | 27 - 28 February 2019 |
| 12 | Mr. Surender | Effects of backbone functionalization on electrical and shielding behavior of conducting polymer composites | National conference on "Recent Advances in Functional Materials" (RAFM-2020) | ARSD College, DU | 5 - 6 November 2020 |

| | | | | | |
|----|---------------------|---|--|---|----------------------|
| 13 | Dr. Ajay Gahlot | Resonant Decay of a Langmuir wave in presence of dust grains in cylindrical plasma | National Symposium on Radiation Physics at University Science Instrumentation Centre | JNU | 8-10 Nov 2019 |
| 14 | Dr. Ajay Gahlot | Effect of time dependent dust charging on amplitude modulated electromagnetic signal | International conference on Innovations in Science, Engineering and technology (ICISSET-19) | Arya P.G. College, Panipat (HR) | 9-10 Nov 2019 |
| 18 | Dr. Jindagi Kumari | "X-Men of Rushdie: A Study of Cinematic Allusions in Two years eight months and Twenty-Eight Nights" | International Conference on New Direction of Linguistics Language and literature, Sharda University, | Sharda University | March 29 - 30, 2019 |
| 19 | Dr. Jindagi Kumari | "A Study of Magahi Folksongs of Biah(Wedding) as a tool for Counselling, Orientation and Communication", | National Conference on Revitalizing Indigenous Languages, KIIT Bhubaneswar | | July 12-14, 2019 |
| 20 | Dr. Jindagi Kumari | "In Pursuit of Sustainable Development Goals: A Study of the contributions of current Indian English Eco-fiction" | International Conference on Sustainable Development Goals | Vivekanand College, Delhi University | Feb 2020. |
| 21 | Dr. Jindagi Kumari | The Queen that loves "looking out": "Female Gaze" in Chitra Banerjee Divakaruni's The Last Queen | e-conference on postcolonial narrative organized by IIT Patna11 | IIT Patna | 11-12, March 2021 |
| 26 | Dr. Pooja Singh | Hypergeometric Functions and its Application | 2nd international E-conference on Environment Sustainability & Teaching Tools in COVID-19 Scenario (ICESTT-2020) | Jagadambha College of Engineering & Technology, Maharashtra | May 19th& 20th, 2020 |
| 27 | Dr. Pooja Singh | Relation between Hypergeometric Function with Legendre Functions | Contemporary Problems on Mechanics & Vibrations | BITS-Pilani, Hyderabad Campus | May 20-22,2021 |
| 28 | Dr. Pooja Singh | Hypergeometric Function with Legendre Functions | Recent Advances in Applied Statistics | Punyashlok Ahilyadevi Holkar Solapur University | April 24, 2021 |
| 29 | Dr. Pooja Singh | The Hypergeometric Function: Relation to Legendre Functions | Virtual International Conference on Soft Computing, Optimiation Theory and Applications | Birla Institute of Technology, Jharkhand | March 26-27,2021 |
| 30 | Rajbir Singh Rathee | An Experimental Study on Effect of Water Quality on Compressive Strength of Concrete, | <i>National Conference on Water Resources Management (WRM2019)</i> , | Civil Engineering Department, AMU, Aligarh | March 15 - 16, 2019 |
| 31 | Ms. Nidhi | MHD Double Diffusive Mixed Convective Boundary Layer Flow of Nanofluid past a Linear Stretching Vertical Plate | Recent Advances in Mathematical Sciences and its Applications | Jaypee Institute of Information Technology, India | January 9-11, 2020 |
| 32 | Ms. Nidhi | MHD Double Diffusive Nanofluid Flow Induced by a Power Law Stretching/Shrinking Sheet | Recent Advances in Mathematical Sciences and its Applications | Jaypee Institute of Information Technology, India | January 17-19, 2021 |
| 33 | Dr. Anju Dhillon | Study of mechanism of charge transport in nickle (100 MeV) swift heavy ion irradiated polypyrrole | International conference on frontiers on material science and technology 2017 | KIET Ghaziabad | January 6-7, 2017 |
| 34 | Dr. Anju Dhillon | Green Synthesis of Graphene Based | International conference on smart | Delhi Technical Campus, | January 11- |

| | | | | | |
|----|------------------|---|---|---|----------------------|
| | | nanocomposites | technology in the field of engineering and management sciences | Greater Noida, UP | 12, 2018 |
| 35 | Dr. Anju Dhillon | Synthesis and characterization of polypyrrole-zinc oxide nanocomposites | International conference on materials for energy applications 2018 | SS Jain Subodh PG College, Jaipur Rajasthan | December 6-8, 2018 |
| 36 | Dr. Anju Dhillon | Comparative study of Polypyrrole/Zinc Oxide nanocomposites synthesized by different methods | International Conference on Atomic, Molecular, Optical and nano Physics with Applications (CAMNP-2019) | Delhi Technological University | December 18-20, 2019 |
| 37 | Dr. Anju Dhillon | Study of DC sputtered undoped NiO thin film | The national conference on Sensors & Advance materials for Measurement & Quality improvement (AdMet-2021) | Maharaja Surajmal Institute of Technology | March 5-6, 2021 |