

# DEPARTMENT OF CIVIL ENGINEERING

## Publications in journals and conferences

(a) Published in National/International Journals during July 2018- June 2019

Sl. No	Author(s), Year, Title, Journal, Pub., Vol. No., pp.
1.	Metya, S., &Bhattacharya, G. (2019). Accounting for 2-D Spatial Variation in Slope Reliability Analysis. <i>International Journal of Geomechanics, ASCE, 20 (3), NA.</i>
2.	Prasad, B. K. (2019). Characteristics of LMRC beams under monotonic and cyclic loading: An experimental study. <i>Journal of Institution of Engineers (India): Series A, NA, NA.</i>
3.	Kumar, V. (2019). Damage Evaluation of a Full-Scale RC Frame Exposed to Multiple Extreme Loads. <i>Journal of Structural Fire Engineering, 10(3), 275-296.</i>
4.	Mondal, S., Singh, D. N.,&Baghini, M. S. (2018). Detection of thermal response of geomaterials: a critical appraisal. <i>Emerging Materials Research, 7, 178-191.</i>
5.	Chithambaram, S. J., Kumar, S., Prasad, M. M., &Adak, D. (2018). Effect of Parameters on the Compressive Strength of Fly ash based Geopolymer Concrete. <i>Journal of Structural Concrete, 19(4), 1202-1209.</i>
6.	Palaparthy, V. S., &Mondal, S., Singh, D. N., Baghini, M. S., &Ananthasuresh, G. K. (2018). Effect of spatial variations and desiccation cracks on the DPHP and MPHP sensors. <i>Sensors and Actuators A: Physical, 279, 638-648.</i>
7.	Kumar, V. (2019). Effect of Temperature on Stress-Strain Behaviour of Pre-damaged Confined Concrete. <i>Journal of Structural Fire Engineering, 11(1), 67-99.</i>
8.	Gopi, Mr., Prasad,P.,&Srivastawa, A. K. L. (2019). Energy Based Design as an Alternative Intuitive Criterion to the Drift Criterion. <i>International Journal of Innovative Technology and Exploring Engineering, 12, 5836-5845.</i>
9.	Choudhary, A. K. (2019). Bhardwaj Pandit and G.L. Sivakumar Babu, "Experimental and Numerical Study on Square Anchor Plate Groups in Geogrid Reinforced Sand. <i>Geosynthetics International, 26, 657-671.</i>
10.	Prasad, B. K. (2019). Fatigue behaviour of latex modified reinforced concrete beams. <i>Journal of Structural Engineering, 46, 101-108.</i>
11.	Kumari, S. (2019). Fuzzy-set-based real-time reservoir operation using genetic algorithm. <i>ISH Journal of Hydraulic Engineering, NA, 1-8.</i>

12.	Reddy, G. R., Pal, D., Sinha, A. K., & Choudhary, A. K. (2018). Improvement in Swelling, Strength and Deformation Characteristics of Expansive Soil using Lime and Brick Dust. <i>International Journal of Recent Technology and Engineering (IJRTE)</i> , 6(4), 146-150.
13.	Kumar, V., Kumar, A., & Prasad, B. (2019). Influence of elevated temperature on alkali-activated ground granulated blast furnace slag concrete. <i>Journal of Structural Fire Engineering</i> , 10, 2019-32.
14.	Kumar, V., Kumar, A., & Prasad, B. (2019). Mechanical behavior of non-silicate based alkali-activated ground granulated blast furnace slag. <i>Construction and Building Materials</i> , 198, 494-500.
15.	Biswas, S., & Ghosh, I. (2018). Modeling of the Drivers' Decision Making Behavior During Yellow Phase. <i>KSCE Journal of Civil Engineering</i> , 22(11), 4602-4614.
16.	Prasad, P., & Prasad, B. K. (2019). Performance Behavior of Eccentrically Braced Steel Frame under Seismic Loading. <i>International Journal of Innovative Technology and Exploring Engineering</i> , 8, 1077-1090.
17.	Dash, S. K., & Choudhary, A. K. (2019). Pullout Behavior of Geocell-Reinforced Vertical Plate Anchors under Lateral Loading. <i>International Journal of Geomechanics, ASCE</i> , 19, NA
18.	Choudhary, A. K., & Dash, S. K. (2018). Pull-out behaviour of vertical plate anchor in granular soil. <i>Proceedings of the Institution of Civil Engineers-Geotechnical Engineering</i> , 171, 379-390.
19.	Bhattacharya, G., Chowdhury, R., & Metya, S. (2019). Residual Factor as a Variable in Slope Reliability Analysis. <i>Bulletin of Engineering Geology and the Environment</i> , 78(1), 147-166.
20.	Biswas, S., Chakraborty, S., Ghosh, I., & Chandra, S. (2018). Saturation Flow Model for Signalized Intersection Under Mixed Traffic Condition. <i>TRR: Journal Of The Transportation Research Board</i> , 2672(15), 55-65.
21.	Chithambaram, S. J., Kumar, S., & Prasad, M.M. (2019). Thermo-Mechanical Characteristics of Geopolymer Mortar. <i>Journal of Construction and Building Materials</i> , 213, 100-108.
22.	Choudhary, A. K., Pandit, B., & Babu, G. L. S. (2019). Three-Dimensional Analysis of Vertical Square Anchor plate in Cohesionless Soil. <i>Geomechanics and Geoengineering: An International Journal</i> , 15, 1-9.
23.	Choudhary, A. K., Pandit, B., & Babu, G. L. S. (2019). Uplift capacity of horizontal anchor plate in geocell reinforced sand. <i>Geotextiles and Geomembranes</i> , 47, 203-216.

(b) Published in National/International Conferences during July 2018- June 2019

Sl. No	Author(s), Year, Title, Conference Proceedings, Duration, Organization, PP
1.	Mohanty, M., Choudhary, A.K. and Sunita, K. (2018). A Study on The Behaviour of Multilayered Geocell Reinforced Bottom Ash. <i>Indian Geotechnical Conference, IGC-2018, II Sc. Bangalore.</i>
2.	Muni, N. P., Choudhary, A. K., Choudhary, A. K., & Shukla, S. K. (2018). An Experimental Study on Improving the Performance of Silty Soil by Encased Granular Column Using Shredded Tire Chips. <i>Indian Geotechnical Conference, IGC-2019, SVNIT Surat.</i>
3.	Chaudhary, D.,&Singh, R. P. (2018). Analysis of the Influence of Polymeric Fabric Waste on Soil Subgrade. <i>IGC 2018, Indian Institute of Science, Bangeluru.</i>
4.	Kumar,V.,Kumar, A.,&Prasad, B. K. (2019). Behavior of Non-Silicate Based Activated Blast Furnace Slag at Elevated Temperature. <i>6th International Conference on Applications of Structural Fire Engineering, ASFE'2019, Nanyang Technological University, Singapore.</i>
5.	Kumar, A., Choudhary, A.K, & Shukla, S. K. (2018). Behaviour of Strip Footing Resting on Pretensioned Geogrid- Reinforced Ferrochrome Slag Subgrade. <i>Indian Geotechnical Conference, IGC-2018, IISc. Bangalore.</i>
6.	Rao, C. M.,Bardhan, A., Raj, A.,Kumar, R.,&Ranjan, R. (2019). Detection of land use and land cover change and their impact on stream discharge in Upper Baitarani river basin using 1987, 1997, 2005 and 2015 Landsat images. <i>HYDRO 2019 International conference.</i>
7.	Biswas, S., Malik, N., Singh, S., &Bisen, A. V. (2018). Estimation of dynamic Passenger Car Unit by Multi Objective Optimization Technique. <i>Confluence 2018 on Cloud Computing, Data Science and Engineering.</i>
8.	Gupta, A., Choudhary, A.K.,& Choudhary A. K. (2018). Experimental Investigation of Silty Soil Treated With Sodium Lignosulfonate. <i>Indian Geotechnical Conference, Igc-2019, Svnit Surat.</i>
9.	Prasad,P.,Goopinath, C., &Srivastawa, A. K. L. (2019). FRAGILITY CURVES FOR ENERGY ABSORPTION CAPACITY OF STRUCTURES UNDER EARTHQUAKE LOADING. <i>17 World Conference of Earthquake Engineering, Sendai, Japan.</i>
10.	Prasad, B. K., Ganeshan, S., &Singh, P. (2019). Mechanical Behavior of Polymer Concrete and Ordinary Cement Concrete Exposed to Elevated Temperatures: A Comparative Study. <i>2nd National Conference on Recent Advances in Civil Engineering, RACE - II.</i>

11.	Prasad, B. K., Patel, A., & Singh, P. (2019). Mechanical Properties of Fibre Reinforced Self Compacting Concrete. <i>2nd National Conference on Recent Advances in Civil Engineering, RACE - II</i> .
12.	Choubey, B., Kumar, V., & Dutta, S. C. (2019). Modeling of reinforced concrete tunnel structure in fire. <i>13-14th June</i> .
13.	Choudhary, A. K., Jha, J. N., & Sujata, F. (2019). Strength and Deformation Characteristics of Bottom-Ash Reinforced with Single Geocell Mattress Made of Waste Pet Bottles. <i>Geo-Congress 2019 GSP 312 ASCE 2019, 8th International Conference on Case Histories in Geotechnical Engineering, Philadelphia, Pennsylvania, USA</i> .
14.	Kumar A., Choudhary, A. K., & Jha, J. N. (2018). Studies On The Behavior Of Encased Granular Piles In Soft Clay Using Bottom Ash. <i>Indian Geotechnical Conference, IGC-2018, IISc, Bangalore</i> .
1.	Jha, N., Choudhary, A. K., Shukla, S. K., & Gill, K. S. (2019). Tri-axial Behaviour of Steel Fiber- Reinforced Sand. <i>Geo-Congress 2019 GSP 309 ASCE 2019, 8th International Conference on Case Histories in Geotechnical Engineering, Philadelphia, Pennsylvania, USA</i> .
2.	Biswas, S., Ghosh, I., & Gate, T. (2019). Conceptual Method For Estimating Start Up Loss Time Under Heterogeneous Traffic Condition. <i>98th Annual Meeting of Transportation Research Board 2019, Washington DC</i> .
3.	Singh, M., Duggal, S. K., Kumar, P., & Sharma, K. K. (2019). Correlation of Shear Wave Velocity with Standard Penetration Resistance Value for Allahabad City., <i>International IACMAG Symposium, 05-07th March, 2019, IIT Gandhinagar</i> .
4.	Metya, S., & Bhattacharya, G. (2018). A Comparison of LEM and RFEM Based Slope Reliability Considering Spatial Variability. <i>Indian Geotechnical Conference (IGC 2018), December 13-15, 2018, IISc, Bangalore</i> .
5.	Sinha, A.K., Jha, J, N., & Choudhary, A.K. (2018). A Study on CBR Behaviour of Waste PET Strip Reinforced Stone Dust. <i>Sustainable Waste Management through Design, GNDEC, 2nd -3rd November, 2018, Ludhiana</i> .
6.	Choudhary, A. K., Das, S. & Jha, J, N. (2018). Improvement of Properties of Clay Subgrade Using Waste LDPE Strip Reinforcement. <i>Sustainable Waste Management through Design, GNDEC, 2nd-3rd November, 2018, Ludhiana</i> .
7.	Metya, S., & Bhattacharya, G. (2019). Influence of Number of Slices in Slope Reliability Analysis Considering Spatial Variability. <i>Indian Conference on Geotechnical and Geo-Environmental Engineering (ICGGE-2019), March 01-02, 2019, MNNIT Allahabad</i> .
8.	Naik, R. R. & Sinha, A. K. (2019). Lateral Response of Monopile Foundation Proc. of Indian Conference on Geotechnical and Geo- Environmental

	Engineering (ICGGE-2019).NIT, Allahabad, 01-02 March, 2019.
9.	Patla, S.,Mondal, S.,Choudhary, & A. K. (2019). On improving the performance of silty soil by treating with ferro-chrome slag: an experimental study. <i>Indian Geotechnical Conference 2019, SVNIT Surat</i>
10.	Kumar, S. (2019). Performance of Reinforced Self Compacting Concrete Short Column Containing Steel Fibers. <i>UKIERI Concrete Congress/ 5th to 8th March 2019, NIT Jalandhar.</i>
11.	Kumar, S., Chithambaram, S. J., Kumar, M., &Prasad, M. M. (2019). Strength Performance of Geopolymer Concrete Exposed to Elevated Temperature. <i>UKIERI Concrete Congress/ 5th to 8th March 2019, NIT Jalandhar.</i>
12.	Prasad, B. K., Kumar,V.,&Singh, P. (2019). Utilisation of LD slag aggregate in construction industry. <i>UKIERI Concrete Congress on Concrete: The Global Builder (UKIERI-2019), Dr.B.R.Ambedkar National Institute of Technology Jalandhar, India.</i>
13.	Prasad, B. K., Kumar, V., & Singh, P. (2019). Utilisation of Linz Donawitz slag as aggregates in construction industry. <i>6th UKIERI Concrete Congress on Concrete: The Global Builder (UKIERI-2019), 5-8 March 2019, Dr. B.R. Ambedkar National Institute of Technology Jalandhar, India.</i>
14.	Kumar, V.,&Paswan, R. K. (2019). Utilisation of steel slag as cementitious material in construction industry. <i>6th UKIERI Concrete Congress on Concrete: The Global Builder (UKIERI-2019), 5-8 March 2019, Dr. B.R. Ambedkar National Institute of Technology Jalandhar, India.</i>

## DEPARTMENT OF MECHANICAL ENGINEERING

### *Publications in journals and conferences (International/National)*

(a) Published in National/International Journals during July 2018- June 2019

Sl. No.	Author(s), Year, Title, Journal, Pub., Vol. No., pp.
1.	Mayank Srivatava, M.K.Sinha, (2019), "Mathematical Modelling for the Performance of Encapsulated Phase change TESS and Effect of Stefan's number" <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, pp 280-284.
2.	Pardeep Bishnoi, M. K. Sinha, (2019), "Computational Investigation of Various Transition Stages in the Drop Formation Process" <i>Advances in Interdisciplinary Engineering Springer</i> , pp 249-261.
3.	Abhishek Priyam, Prabha Chand, (2019), "Experimental investigations on thermal performance of solar air heater with wavy fin" <i>Heat and Mass Transfer</i> , Vol. 55, pp 2651-2666.
4.	Chordiya Jayesh Subhash, Ram Vinoy Sharma, (2019), "Numerical study on effect of corrugated diathermal partition on natural convection in a square porous cavity" <i>Journal of Mechanical Science and Technology</i> , Vol. 33, pp 2481-2491.
5.	Chordiya Jayesh Subhash, Ram Vinoy Sharma, (2019), "Study of Natural convection in a fluid saturated porous thermal insulation with multiple inclined diathermal partitions" <i>International Journal of Heat and Technology</i> , Vol. 37, pp 123-130.
6.	Anand Shankar Singh, Tushar Choudhary, S. Sanjay, (2019), "Thermal Analysis of Aircraft Auxiliary Power Unit: Potential of Super-Critical CO <sub>2</sub> Brayton Cycle" <i>SAE Technical Paper</i> , Vol. 2019-01-1391.
7.	Prashant Kumar, M. D. Akram, Anand Shankar Singh, S. Sanjay, (2019), "Thermal Analysis of Aircraft Auxiliary Power Unit: Application of Chemical Looping Combustion" <i>SAE International Journal of Advances and Current Practices in Mobility 1</i> , Vol. 2019-01-1390, pp 458-465.
8.	Jatinder Pal Singh, Satish Kumar, S. K. Mohapatra, Gopal Nandan, (2019), "Experimental Design-Based Analysis on Process Parameters for Head Loss in Pipe Bend" <i>Lecture Notes in Mechanical Engineering</i> , Vol. 1, pp 379-388.
9.	<u>Jashanpreet Singh, Satish Kumar, Jatinder Pal Singh, Prince Kumar, S. K. Mohapatra</u> , (2019), "CFD modeling of erosion wear in pipe bend for the flow of bottom ash suspension" <i>Particulate Science and Technology</i> , Vol. 37, pp 275-285.
10.	Varinder Singh, Satish Kumar, DwarikanathRatha, (2019), "Synergistic effect of the addition of TiO <sub>2</sub> feedstock on solid particle erosion of Ni/Al <sub>2</sub> O <sub>3</sub> and Ni/Cr <sub>2</sub> O <sub>3</sub> coatings" <i>Wear</i> , Vol. 426-427, pp 250-257.
11.	<u>Chandan Kishor, Satish Kumar, Sumeet Sharma, Anil Kumar Singh</u> , (2019), "Effective Utilization of F-type Bottom Ash by Enhancement of Pozzolanic Properties" <i>Journal of Energy Sources Part A Recovery Utilization, and Environmental Effects</i> , Vol. 42, pp 259-266.
12.	Jatinder Pal Singh, Satish Kumar, S. K. Mohapatra, (2019), "An experimental study on head loss characteristics of pipe bends for flow of coal-water slurry

	at high solid concentration" Proc I Mech E Part E: Journal of Process Mechanical Engineering, Vol. 233, pp 1151-1161.
13.	<u>Mani Kanwar Singh</u> , <u>Satish Kumar</u> , <u>DwarikanathRatha</u> , <u>Harkirat Sandhu</u> , (2019), "Improvement in head loss characteristics of fine particulate coal-water suspension with addition of coarser particulate" International Journal of Coal Preparation and Utilization, pp 1-10.
14.	Vijay Kumar Dalla, Pushparaj Mani Pathak, (2019) "Power-optimized motion planning of reconfigured redundant space robot" Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering, Vol. 233, pp 1030-1044.
15.	Vijay Kumar Dalla, Pushparaj Mani Pathak, (2019) " Impedance Control in Multiple Cooperative Space Robots Pulling a Flexible Wire " Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science Sage, Vol. 233, pp 2190-2205.
16.	Abhilash Karakoti, Vishesh Ranjan Kar, (2019), "Deformation characteristics of sinusoidally-corrugated laminated composite panel–A higher-order finite element approach" Composite Structures, Vol. 216, pp 151-158.
17.	Sandip Kumar, Mani Kant Paswan, Sudhakar Behera, (2018), "Micro Study of Hybrid Power System for Rural Electrification- A Case Study, International Journal of Applied Engineering Research, Vol. 13, pp 4888-4896.
18.	Abhishek Priyam, Prabha Chand, (2018), "Thermal performance of wavy finned absorber solar air heater" Int. Journal of Heat and Technology, Vol. 36, pp 1393-1403.
19.	Abhishek Priyam, Prabha Chand, (2018), "Effect of wavelength and amplitude on the performance of wavy finned absorber solar air heater" Renewable Energy, Vol. 119, pp 690-702.
20.	Rajesh Kumar, Prabha Chand, (2018), "Analytical Investigation on Solar Air Heater with Fins and Twisted Tapes" Int. Journal of Heat and Technology, Vol. 37, pp 33-40.
21.	Rajesh Kumar, Prabha Chand, (2018), "Performance prediction of extended surface absorber solar air collector with twisted tape inserts" Solar Energy, Vol. 169, pp 40-48.
22.	Rajesh Kumar, Prabha Chand, (2018), "Experimental performance investigation of air heating solar collector with fins and twisted tapes" Carbon: Science and Technology, Vol. 10, pp 61-66.
23.	Subhash Chand, Prabha Chand, (2018) "Parametric study on the performance of solar air heater equipped with louvered fins" Journal of Mechanical Science and Technology, Vol. 32, pp 1-9.
24.	Subhash Chand, Prabha Chand, (2018) "Performance evaluation of solar air heater equipped with louvered fins" Int. Journal of Heat and Technology, Vol. 36, pp 741-751.
25.	Subhash Chand, Prabha Chand, (2018) "Exergy based analysis of triangular finned solar air heater" Carbon: Science and Technology, Vol. 10, pp 51-60.
26.	Shalini Rai, Prabha Chand, S.P. Sharma, (2018), "Evaluation of thermohydraulic effect on offset fin absorber solar air heater" Renewable Energy, Vol. 125, pp 39–54.
27.	Ambaty Pravin, Prabha Chand, (2018), "Modeling of quadruple junction solar cell" Carbon- Science and Technology, Vol. 10, pp 19-26.

28.	M. Srivastava, M. K. Sinha, (2018), "Heat Balance Integral Method for Cylindrical and Spherical Encapsulated Phase Change Thermal Energy Storage System" International Journal of Mechanical Engineering and Technology, Vol. 8, pp 890-898.
29.	M. Srivastava, M. K. Sinha, (2018), "Computational Analysis of Encapsulated Thermal Energy Phase Change Storage System: Cylindrical and Spherical Geometry" International Journal of Mechanical Engineering and Technology, Vol. 9, pp 662-668.
30.	Pradeep, M. K. Sinha, (2018), "Numerical investigation of the drop formation mechanism and study of the droplet's pressure contour" International Journal of Mechanical and Production Engineering Research and Development, Vol. 8, pp 299-306.
31.	Pradeep, M. K. Sinha, (2018), "A new approach to determine the diabetic level in patients" UPB Scientific Bulletin Series D: Mechanical Engineering, Vol. 18, pp 71-84.
32.	Chordiya Jayesh Subhash, Ram Vinoy Sharma, (2018), "Conjugate Natural Convection in a Fluid Saturated Porous Enclosure with a Pair of Solid Vertical Partitions" Heat Transfer-Asian Research, Vol. 47, pp 1031-1047.
33.	Chordiya Jayesh Subhash, Ram Vinoy Sharma, (2018), "Numerical study on the effects of multiple internal diathermal obstructions on natural convection in a fluid-saturated porous enclosure" Archive of Mechanical Engineering, Vol. 64, pp 553-578.
34.	Alok K. Mohapatra, Sanjay, (2018), "Exergetic evaluation of gas-turbine based combined cycle system with vapor absorption inlet cooling" Applied Thermal Engineering, Vol. 136, pp 431-443.
35.	Shivam Mishra, Sanjay, (2018), "Thermodynamic Performance Prediction of Air-Film Blade Cooled Gas Turbine Based Cogeneration Cycle for Marine Propulsion Applications" SAE Technical Papers, Vol.2018-01-1364.
36.	Rajiv Ranjan Kumar, Ashok Kumar, Shalendra Kumar, (2018), "Effect on Tool Design and Heat Input of Some Welding Parameters in Friction Stir Welded Interstitial Free Steels" International Journal of Engineering and Technology Innovation, Vol. 8, pp 64-75.
37.	A. Singh, Shalendra Kumar, H.L. Yadav, (2018), "Numerical Parametric Study of Crack Parameters Near Crack Tip" International Journal of Mechanical and Production Engineering Research and Development, Vol. 8, pp 83-92.
38.	A. Singh, Shalendra Kumar, H.L. Yadav, (2018), "Numerical investigation of thickness effect on the crack parameters" Modelling, Measurement and Control B, Vol.87, pp 101-106.
39.	Md AshfaqueAlam, A.K.Prasad, (2018), "Performance and Emission characteristics of diesel engine fuelled with various nano particles blended biodiesels" International Journal of mechanical engineering and technology, Vol.9, pp 569-578.
40.	AtwariRawani, KDP Singh, SP Sharma, Kumari Namarta, (2018), "Analytical modeling of parabolic linear collectors for solar power plant" Springer-Journal of mechanical science and Technology Springer, Vol.32, pp 4993-5004.
41.	Bipin Kumar, Vinayak Ranjan, Mohammad Sikandar Azam, Ranjan Kumar, (2018), "Acoustic Response of Thin Plate with Discrete Patches with Variable



	Thickness in Water Medium" Journal of vibration Engineering and technologies, Vol. 8, pp 27-34.
42.	Vineet Sahoo, Bhabani S. Mahanto, RathindranathMaiti, (2018), "Effect of Cam Insertion on Stresses in Harmonic Drive in Industrial Robotic Joints" Procedia Computer Science, Vol. 133, pp 432-439.
43.	Mouli B Chandra, K Ramji, V R Kar, S K Panda, Anil K, H K Pandey, "Numerical study of temperature dependent eigenfrequency responses of tilted functionally graded shallow shell structures" Structural Engineering and Mechanics, Vol. 68, pp 527-536.
44.	Shashank Pandey, S. Pradyumna, (2018), "Analysis of functionally graded sandwich plates using a higher-order layerwise theory" Composites Part B: Engineering, Vol. 153, pp 325-336.
45.	Shashank Pandey, S. Pradyumna, (2018), "Transient stress analysis of sandwich plate and shell panels with functionally graded material core under thermal shock" Journal of Thermal Stresses, Vol. 41, pp 543-567.
46.	Paras Verma, Satish Kumar, Kundan Lal, Jatinder Pal Singh, SB Prasad, (2018), "Prediction of pressure drop for the flow of zinc ore-water suspension in horizontal pipeline" IOP Materials Science and Engineering, Vol. 455, pp 1-8.

(b) Published in National/International Conferences during July 2018- June 2019

Sl. No.	Author(s), Year, Title, Conference Proceedings, Duration, Organization, PP
1.	Kumar, Vikram, Naresh Prasad, M. K. Paswan, Pankaj Kumar, Sanjoy Biswas, (2019), "Design Analysis and Pressure Loss Optimization of Automobile Muffler." ICIMES-2019, 21-22 June 2019 Organised By MRCET, HYDERABAD.
2.	S.S. Rathore, S. Mishra, M.K Paswan, Sanjay, (2019), "A Review on Design and Development of Free Piston Linear Generators in Hybrid Vehicles" 2nd International Conference on Computational and Experimental Methods in Mechanical Engineering, 3 May 2019 through 5 May 2019.
3.	S.S. Rathore, S. Mishra, M.K Paswan, Sanjay, (2019), "An overview of diagnostics and prognostics of rotating machines for timely maintenance intervention" 2nd International Conference on Computational and Experimental Methods in Mechanical Engineering, 3 May 2019 through 5 May 2019.
4.	Rahul Agrawal, KDP Singh, HinaShrivastav, (2019), "Review on enhancement of thermal conductivity of phase change materials with nano- particle in engineering applications" ICMMM-2019.
5.	Chordia Jayesh Subhash, R.V. Sharma, (2018), "Natural convection in inclined rectangular porous enclosure with a vertical diathermal partition wall" In proceedings of National Conference on Renewable Energy and Environmental Challenges, February 26-28, 2018, N.I.T. Jamshedpur.
6.	Chordia Jayesh Subhash, R.V. Sharma, (2018), "Natural convection in square porous enclosure with diathermal partition wall" in proceedings of 5 <sup>th</sup> International Conference on Computational Methods for Thermal Problems, July 9-11, 2018, IISc, Bangalore.
7.	Chordia Jayesh Subhash, R.V. Sharma, (2018), "Unsteady Natural convection in a fluid saturated square porous enclosure with a pair of L-

	shaped diathermal partition" in proceedings of International Conference on Mathematical Modelling and Scientific Computing, July 19-21, 2018, I.I.T. Indore.
8.	Chordia Jayesh Subhash, R.V. Sharma, (2018), "Numerical analysis of partition-clustering in a high temperature gradient region for suppression of heat transfer in porous enclosure" International Conference on Applied and Computational Mathematics, November 23-25, 2018.
9.	M.K.Paswan, (2018), "Hybrid Renewable Energy Design for rural area a case study" National conference on Renewable Energy and Challenges, 26 <sup>th</sup> and 27 <sup>th</sup> February, 2018,NIT Jamshedpur.
10.	M.K.Paswan, (2018), "Renewable Energy and Environment Challenges" National conference on Renewable Energy and Challenges, 26 <sup>th</sup> and 27 <sup>th</sup> February, 2018,NIT Jamshedpur.
11.	Abhilash Karakoti, Vishesh Ranjan Kar, (2018), "Free vibration analysis of corrugated laminated composite panel" International Conference on Contemporary Design and Analysis of Manufacturing and Industrial Engineering systems (CDAMIES 2018), Jan 18-20, 2018 NIT Tiruchirappalli, India.
12.	Vineet Sahoo, RathindranathMaiti, (2018), "Initial Tooth Contacts and Stresses in Flex-gear Cup on Assembling the Conventional Involute Toothed Gear Set and Cam in Harmonic Drive" IFToMM Asian Mechanism and Machine Science 2018, Bangalore, India.
13.	Vineet Sahoo, Bhabani S. Mahanto, RathindranathMaiti, (2018), "Contact loading of split cam SWG with flex-gear cup: A theoretical analysis" IFToMM Asian Mechanism and Machine Science 2018, Bangalore, India.
14.	D. Roy, R. Maiti, P.K. Das, Vineet Sahoo, (2018), "FEM estimation of deformations and gaps in form closed epitrochoidal gears used in HST units" International Gear Conference, 29-30 Aug 2018, Lyon France.
15.	Kumar, Ranjan, Sanjoy K. Ghoshal, Vinayak Ranjan, Bipin Kumar, (2018), "Burst strength analysis of gas turbine disc based on deformation characteristics." In AIP Conference Proceedings, AIP Publishing LLC, vol. 2018, no. 1, p. 020016.
16.	A.K. Prasad, AshfaqueAlam, (2018), "Effect of bio-diesel blends and nano - particles on engine performance" Advances in humanities sciences and management under the cloud of ICTIMES, dated-28-29 December 2018 Mallareddy college of engineering, hyderabad, india.

## DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

### *Publications in journals and conferences (International/National)*

(a) Published in National/International Journals during July 2018- June 2019

Author(s), Year, Title, Journal, Pub., Vol. No., pp.	
1	Y. Srivastava, S. Rathod, P.K. Singh, S.K. Vajpai, S. Srivastava: Study of magneto-structural phase transitions and magnetocaloric effects in Co-based Heusler alloys synthesized via mechanical milling, Journal of Magnetism and Magnetic Materials, vol. 433, 2018, pp. 141-147.
2	Bhupendra Sharma, Sanjay Kumar Vajpai, Kei Ameyama: An Efficient Powder Metallurgy Processing Route to Prepare High Performance $\beta$ -TiNb Alloys using Pure Titanium and Titanium Hydride Powders, Metals, vol. 8, 2018, pp. 516-1-16.
3	Sanjay Kumar Vajpai, Bhupendra Sharma, Mie Ota, Kei Ameyama: Effect of cold rolling and heat-treatment on the microstructure and mechanical properties of $\beta$ -titanium Ti-25Nb-25Zr alloy, Materials Science and Engineering A, vol. A736, 2018, pp. 323-328.
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9.	Rashmi Sinha, Arvind Choubey, Santosh Kumar Mahto, Prakash Ranjan, and Chetan Barde "Synthesis of Linear Array Antenna Using Hybrid IWO/WDO Algorithm" Progress in Electromagnetic Research Symposium PIERS 2019 in Rome, Italy, 17-20 June, 2019
10.	Chetan Barde, Rajnish Kumar, Arvind Choubey, Rashmi Sinha, Santosh Kumar Mahto and Prakash Ranjan "A Novel Circular Shape ZOR Antenna for X-Band Application" International Conference on "Advances in Electronics, Electrical & Computational Intelligence", IIIT Allahabad India, 31st May–1st June, 2019.
11.	Rashmi Sinha, Arvind Choubey, Chetan Barde, Prakash Ranjan, Santosh Kumar Mahto "A Compact Wideband Metamaterial Absorber for Various Application of Ku Band" International Conference on "Advances in Electronics, Electrical & Computational Intelligence", IIIT Allahabad India, 31st May–1 <sup>st</sup> June, 2019.
12.	Prashant Shekhar, Ajay Kumar, Amir Ahmad, Mayank Srivastava "Alloptical OR/NOR logic gate using the Micro-ring Resonator based Switching Activity" International Conference on Electrical, Electronics and Computer Engineering (UPCON) 2019.
13.	J.Kumar, S.Kumar, A.Kumar, B.Behera "Real-Time Monitoring Security System integrated with Raspberry Pi and mailcommunication link" Confluence 2019 (9 <sup>th</sup> International Conference on Cloud System and Big Data Engineering), Amity University, Noida, India, 10-11 Jan 2019.
14.	Jayendra Kumar; Sourabh Kumar ;Anupam Kumar; Basudeba Behera "Real-Time Monitoring Security System integrated with Raspberry Pi and mail communication link" 9 <sup>th</sup> International Conference on Cloud Computing, Data Science & Engineering (Confluence), 10-11 jan 2019.
15.	Jayendra Kumar, Nivedita Gupta, Alisha Kumari, Smitakumari "Automatic Plant Watering and Monitoring System using Node MCU" 9 <sup>th</sup> International Conference on Cloud Computing, Data Science & Engineering (Confluence), 10-11 jan 2019.
16.	Jayendra Kumar, Mohit Kumar, Deepak Kumar Pandey, Rishikesh Raj "ENCRYPTION AND AUTHENTICATION OF DATA USING THE IPSEC PROTOCOL" 4 <sup>th</sup> International Conference on Microelectronics, Computing & Communication Systems (MCCS- 2019), 11-12 May 2019.

17.	JayendraKumar,PNV Shiva Krishna, SVS Gowtham Reddy, G. Anjan Kumar "Safety and Surveillance System using ARMLPC2148 Microcontroller" 4 <sup>th</sup> International Conference on Microelectronics, Computing & Communication Systems(MCCS- 2019),11-12 May 2019.
18.	K.Singh, V. Kumar, and M. Kumar "Performance Evaluation of Phosphorene Elevated Source Tunnel FET with Strained Channel and Ferroelectric Gate Oxide" Sixth IEEE International Conference on Signal Processing & Integrated Networks" (IEEE-SPIN 2019), 7- 8 March 2019.
19.	Kogara Naveen Kumar,Pappala Chandra Mouli, Suraj DasK, and Mayank Srivastava "Novel Electronic/Resistance Adjustable Capacitance Multiplier Circuit with VDCCs and Grounded Resistances" Sixth IEEE International Conference on Signal Processing & Integrated Networks" (IEEE-SPIN 2019),7- 8 March 2019
20.	Suraj DasK, Kogara Naveen Kumar, Pappala Chandra Mouli and Mayank Srivastava "New Generalized grounded impedance scaling configuration with Electronic/resister tunability" Sixth IEEE International Conference on Signal Processing & Integrated Networks" (IEEE-SPIN 2019), 7- 8 March 2019.
21.	Kuldeep Panwar, Kapil Bhardwaj, Mayank Srivastava and Dinesh Prasad "Grounded Parallel R- Limpedance Simulator using CDDITA" 2 <sup>nd</sup> IEEE International Conference ICEIL- 2019, Noida.
22.	Kapil Bhardwaj, Dinesh Prasad, Mayank Srivastava, Ajay Roy and Kuldeep Panwar "Grounded Series R-L impedance Simulator using CDDITA" 5 <sup>th</sup> International conference on signal processing and communication, JIIT, Noida, 2019, 7-9 March 2019.
23.	Kapil Bhardwaj, Mayank Srivastava, Ajay Roy and Anant Singh "New Grounded Impedance Multiplier using VDDIBA" 2 <sup>nd</sup> IEEE International Conference ICEIL- 2019, Noida.
24.	Prashant Kumar, Chaudhari Mahesh Sahamrao, Mithun Mukherjee "Sum-rate Maximization with Joint Power Allocation and Mode Selection in D2D- enabled 5G Cellular Networks" IEEEICC 20-24 May 2019.
25.	S.S. Pattanayak, S.H. Laskar and S.Sahoo "Microwave Absorption Properties of Building Material Marble." 5 <sup>th</sup> International Conference for Convergence in Technology (I2CT), IEEE Conference, 2019.
26.	S.S. Pattanayak, S.H. Laskar and S.Sahoo "Modelling Coconut Fiber Coir and Charcoal Powder Made Microwave Absorber over X- band Frequency." 5 <sup>th</sup> International Conference for Convergence in Technology (I2CT), IEEE Conference 2019.
27.	S.Sahoo "Dielectric Investigation of Alkyl Acrylate with Phenol from Conductivity Measurement under 9.37 GHz Electric Field." 3 <sup>rd</sup> International Conference on Trends in Electronics and Informatics (ICOEI 2019), IEEE Conference, 2019, 23-25 April.
28.	S.Sahoo "Dielectric Relaxation of Argemone- Mexicana Oil from Susceptibility and Conductivity measurement under 8.93 GHz Electric Field." 3 <sup>rd</sup> International Conference on Trends in Electronics and Informatics (ICOEI2019), IEEE Conference, 2019, 23-25 April.

29.	S.Sahoo "Investigation of Dielectric Relaxation in Dipolar Liquids under High Frequency Electric Field." 3 <sup>rd</sup> International Conference on Electronics, Communication and Aerospace Technology (ICECA 2019), IEEE Conference, 2019, 12-14 June.
30.	S.Sahoo "Double Relaxation Phenomena of Amide with Phenol from Susceptibility measurement under High Frequency Electric Field." 3 <sup>rd</sup> International Conference on Electronics, Communication and Aerospace Technology (ICECA 2019), IEEE Conference, 2019 12-14 June.
31.	Soumya Sundar Pattanayak, S. H. Laskar, and Swagatadeb Sahoo, "Modelling Agricultural Residue based Microwave Absorber under X-band Frequency." TENSYP - The IEEE Region 10 Symposium, 2019, 7-9 June.
32.	Soumya Sundar Pattanayak, S. H. Laskar, and Swagatadeb Sahoo, "A Review on Microwave Absorber Using Agricultural Residues." International Conference In Recent Trends on Electronics & Computer Science (ICRTECS-2019), NIT Silchar, 2019, 15-16 March
33.	P. K. Singya, N. Kumar, V. Bhatia `` Performance Analysis of Opportunistic Two-Way 3P-ANC Multi-Relay System with Imperfect CSI and NLPA," 2018 IEEE Global Communications Conference (GLOBECOM), Dec. 2018.
34.	Mayank Srivastava, Kapil Bharadwaj, Ajay Roy and Anant Singh "An Active-C Realization for Simulating Electronically Controllable Lossy Grounded Inductance" Sixth IEEE International Conference on Signal Processing & Integrated Networks" (IEEE-SPIN 2019), 7- 8March2019

(C) Participation in International/National Conferences in India/Abroad during July 2018 - June 2019

Sl. No	Name of the faculty	Place of conference	Conference Details	Date(s) of conference
1.	Dr. Kunal Singh	Amity University , Noida, India.	Sixth IEEE International Conference on Signal Processing & Integrated Networks" (IEEE-SPIN 2019),	7- 8 March 2019.



## DEPARTMENT OF PRODUCTION & INDUSTRIAL ENGINEERING

### *Publications in journals and conferences (International/National)*

(a) Published in National/International Journals during July 2018- June 2019

Sl. No	Author(s), Year, Title, Journal, Pub., Vol. No., pp.
1.	Hulas Raj Tonday, Anand MukutTigga, (2018), "A critical study of paradigms and perspectives for advancement of E-entrepreneurship", <i>International Journal of E-Entrepreneurship and innovation</i> , Vol. 09, pp. 49-57.
2.	Pravin Pawar, Amaresh Kumar and Raj Ballav, (2019), "Analysis of Machining for Silicon Carbide on Electrochemical Discharge Machining with Brass Tool", <i>International Journal of Modern Manufacturing Technologies</i> , Vol. XI, pp. 86-94.
3.	Pravin Pawar, Amaresh Kumar, R Ballav, (2019), "Parametric analysis of Electrochemical discharge Drilling on Soda Lime Glass material using Taguchi L27 orthogonal array method", <i>Journal of Mechanical Engineering</i> , Vol. 69, No. 14, pp. 115-132.
4.	Piyush Jaiswal, Amaresh Kumar, (2018), "Assessment of drivers to implement integrated lean green manufacturing system in Indian SMEs through IF-TOPSIS approach", <i>International Journal of Management and Decision Making</i> , Vol. 17, No.2, pp. 224-243.
5.	Piyush Jaiswal, Amaresh Kumar, Sumit Gupta, (2018), "Prioritization of green manufacturing drivers in Indian SMEs through IF-TOPSIS approach", <i>UPB Scientific Bulletin, Series D:Mechanical Engineering</i> , Vol. 80, No. 2, pp. 277-292.
6.	Singh, Pravin Kumar, Patel, D, Prasad, Shashi B, (2018), "Investigation on the effect of auxiliary vibrations on microstructure and mechanical properties of SMAW butt welded joints", <i>Journal of Engineering and Materials Sciences</i> , vol. 25, pp. 155-162
7.	Gurumeet Singh, Satish Kumar, Satbir Singh Sehgal, Shashi Bhushan Prasad, (2019), "Erosion wear analysis of HVOF coated Colmonoy-88 and Stellite-6 micron layers on pump impeller steel by using the Taguchi's approach", <i>Industrial Lubrication and Tribology</i> , Vol. 72 No. 3, pp. 455-463.
8.	Ashish Das & Mukul Shukla, (2019), "Pulsed laser-deposited hopeite coatings on titanium alloy for orthopedic implant applications: surface characterization, antibacterial and bioactivity studies", <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , Vol. 41. <a href="https://doi.org/10.1007/s40430-019-1722-y214">https://doi.org/10.1007/s40430-019-1722-y214</a> .
9.	Chander Prakash, Sunpreet Singh, Kartikey Verma, Sarabjeet S. Sidhu, Subhash Singh, (2018), Synthesis and characterization of Mg-Zn-Mn-HA Composite by Spark Plasma Sintering Process for Orthopedic Applications, <i>Vacuum</i> , Vol. 155, pp. 578-584.
10.	Kanishka Jha, Ravinder Kumar, Kartikey Verma, Babulal Chaudhary, Y.K. Tyagi, Subhash Singh, (2018), "Application of Modified TOPSIS Technique in Deciding Optimal Combination for Bio-degradable Composite", <i>Vacuum</i> , Vol.157, pp. 259-267.
11.	Neetu, Subhash Singh, P. Nageshwar Rao, R. Jayaganathan, A. Midathada,

	Kartikey Verma, Uday K. Ravella, (2018), "Elevated corrosion in strain hardened Al-Mg alloy", <i>Vacuum</i> , Vol. 157, pp. 402–413.
12.	Chander Prakash, Sunpreet Singh, Manjeet Singh, Kartikey Verma, Babulal Chaudhary, Subhash Singh, (2018), "Multi-objective particle swarm optimization of EDM parameters to deposit HA-coating on biodegradable Mg-alloy", <i>Vacuum</i> , Vol. 158, pp. 180–190.

## DEPARTMENT OF HUMANITIES, SOCIAL SCIENCES AND MANAGEMENT

### *Publications in journals and conferences (National/International)*

(a) Published in National/International Journals during July 2018- June 2019

Sl. No	Author(s), Year, Title, Journal, Pub., Vol. No., pp.
1.	<b>Shukla, A.</b> , Geetika and Tiwari, N. (2019), Consumer perception of Corporate Social Responsibility and Purchase Behaviour, International Journal of Business Excellence, Vol. 18 No. 1, pp. 22 to 41
2.	<b>Shukla, A.</b> , Goel, G., and Shukla, N. (2019), Evaluating the impact of corporate social responsibility expenditure on profitability of energy sector firms in India, International Journal of Sustainable Society, Vol. 11 No. 3, pp. 220 to 234

(b) Published in National/International Conferences during July 2018- June 2019

Sl. No	Author(s), Year, Title, Conference Proceedings, Duration, Organization, PP
1.	Chhavi and Bhushan, R. (2019), Patriarchal Perpetuation and Male Bigotry in Contemporary Society as a Threat to Men- A Study, International Conference on Performing the Nation: Memory and Desire in Contemporary Literature, 8-9 February 2019, Behrampur University, Orissa, pp. 44-54
2.	Kapoor, M. (2019), Anita Nair and the Frame Narrative, International Journal of Arts & Sciences' (IJAS) American Canadian Conference for Academic Disciplines, 11 to 14 June 2019, Ryerson University, Toronto
3.	Sudha, S. (2019), Role of Information and Communication Technology in Organisational Learning and Knowledge Management, Managing ICT for GNH based Development, 7-8 March 2019, Gyalpozhing college of information technology, Bhutan
4.	Kumari, P. and <b>Kapoor, M.</b> (2019), Bringing the Marginal to the Mainstream: Everyday Discourse and the Politics of Language to Maintain Caste Hierarchy, Dalits in India: Socio-cultural and Literary Representations, 8 to 9 March 2019, Purnidevi Chowdhury Girls' College. Bolpur, Birbaum, West Bengal.

(C) Participation in International/National Conferences in India/Abroad during July 2018- June 2019

Sl. No	Name of the faculty	Place of conference	Conference Details	Date(s) of conference
1.	Dr. Rajiv Bhushan	Berhampur University, Orissa	International Conference on Performing the Nation: Memory and Desire in Contemporary	8 to 9 February 2019

			Literature	
2.	Dr. Maninder Kapoor	Ryerson University, Toronto	International Journal of Arts & Sciences' (IJAS) American Canadian Conference for Academic Disciplines	11 to 14 June, 2019
3.	Dr. Maninder Kapoor	Purnidevi Chowdhury Girls' College. Bolpur, Birbaum, West Bengal.	Dalits in India: Socio-cultural and Literary Representations	8 to 9 March 2019
4.	Dr. Shwati Sudha	Gyalpozhing college of information technology, Bhutan	Managing ICT for GNH based Development	7 to 8 March 2019

## DEPARTMENT OF MATHEMATICS

### *Publications in journals and conferences (International/National)*

(a) Published in National/International Journals during July 2018- June 2019

Sl. No	Author(s), Year, Title, Journal, Pub., Vol. No., pp.
1.	Kumar, R., Edalatpanah, S. A., Jha, S., Broumi, S., Singh, R., & Dey, A. (2019). A multi Objective Programming Approaches to Solve Integer Valued Neutrosophic Shortest Path Problems. <i>Neutrosophic Set and Systems</i> , 24, 134-149.
2.	Das, S. K., Mandal, T., & Behera, D. (2018). A New Approach for solving fully fuzzy linear programming problems. <i>Int. J. Mathematics in Operational Research</i> , Inderscience Publication, 15(3), 269-309.
3.	Kumar, R., Edalatpanah, S. A., Jha, S., & Singh, R. (2019). A Novel Approach to solve Gaussian Valued Neutrosophic Shortest Path Problems. <i>International Journal of Engineering and Advanced Technology</i> , 8(3), 347-353.
4.	Prashu, & Nandkeolyar, R. (2018). A numerical treatment of unsteady three-dimensional hydromagnetic flow of a Casson fluid with Hall and radiation effects. <i>Results in Physics</i> , 11, 966-974.
5.	Kumar, R., Edalatpanah, S. A., Jha, S., & Singh, R. (2019). A Pythagorean Fuzzy Approach to the Transportation Problem. <i>Complex &amp; Intelligent System-Springer</i> , 5, 255-263.
6.	Kumar, S., & Odibat, Z. (2019). A robust computational algorithm of homotopy asymptotic method for solving systems of fractional differential equation. <i>Journal of Computational and Nonlinear Dynamics</i> , 14, NA.
7.	Mondal, B., Mandal, T., Choudhury, T., & Khan, D. A. (2018). A Secure Biometric Image Encryption Scheme using Chaos and Wavelet Transformations. <i>Recent Patents on Engineering</i> , 11, NA.
8.	kumar, S., Gangadhar, K., Rao, M. V.S., Sharma, S., & Munjam, S. R. (2019). A series-form solution of the coupled nonlinear equations by the method of directly defined inverse mapping and SRM. <i>International Journal of Ambient Energy</i> , NA, 1-10.
9.	Pramanik, S., Maiti, I., & Mandal, T. (2018). A Taylor series based Fuzzy Mathematical Approach for Multi-objective Linear Fractional Programming Problem with Fuzzy Parameters. <i>International journal of Computer Applications</i> , 180, NA.
10.	Kundu, S., & Ghoshal, K. (2019). An entropy based model for velocity-diposition. <i>Journal of Environmental Informatics</i> , 33, 113-128.
11.	Moysis, L., Volos, C., Pham, V. T., Goudos, S., Stouboulos, I., Gupta, M. K.,

	&Mishra, V. K. (2019). Analysis of a Chaotic System with Line Equilibrium and Its Application to Secure Communications Using a Descriptor Observer. <i>Technologies</i> , 7(4), NA.
12.	Kumar, S.,Jleli, M.,Kumar, R.,&Samet, B. (2019). Analytical approach for time fractional wave equations in the sense of Yang-Abdel- AtyCattani via the homotopy perturbation transform method. <i>Alexandria Engineering Journal</i> , NA, NA.
13.	Sharma, B.,Kumar, S.,&Paswan, M. K. (2018). Analytical solution for mixed convection and MHD flow of electrically conducting non-Newtonian nanofluid with different nanoparticles: A comparative study. <i>International Journal of Heat and Technology</i> , 36, 987-996.
14.	Kundu, S. (2019). Analytical Solutions of One-Dimensional Space Fractional Advection-Diffusion Equation for Sediment Suspension using Homotopy Analysis Method. <i>Journal of Engineering Mechanics ACSE</i> , 145, 1-18.
15.	Kumar, S.,Delgado, V. F. M.,Gmez-Aguilar, J. F., &Tanew-Hernandez, M. A. (2018).Analytical Solutions of the Keller-Segal chemotaxis model involving fractional operators without singular Kernel. <i>The European Physical Journal Plus</i> , 133, NA.
16.	Kumar, S.,Sharma, B., Paswan, M. K., &Mahto, D. (2019). Chebyshev Operational Matrix Method for Lane- Emden Problem. <i>Nonlinear Engineering- Modeling and Application</i> , 8, 1-9.
17.	Kumar, A., Singh, R.,Tripathi, R., &Seth, G. S. (2019). Double Diffusive Magnetohydrodynamic Natural Convection Flow of Brinkman Type Nanofluid with Diffusion-Thermo and Chemical Reaction Effects. <i>Journal of Nanofluids</i> , NA, NA.
18.	Seth, G. S., Kumar, R., Tripathi, R.,&Bhattacharyya, A. (2018). Double diffusive MHD Casson fluid flow in a non-Darcy porous medium with Newtonian heating and thermo-diffusion effects. <i>International Journal of Heat and Technology</i> , 36, 1517-1527.
19.	Das, M., Mahatha, B. K., Nandkeolyar, R., &Sarkar, S. (2018).Double-diffusive mixed convection flow towards a convectively heated stretching sheet with non-linear thermal radiation. <i>International Journal of Heat and Technology</i> , 36(3), 1015-1024.
20.	Kumar, A., Tripathi, R.,&Singh, R. (2019). Entropy generation and regression analysis on stagnation point flow of Casson nanofluid with Arrhenius activation energy. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 41, NA.
21.	Khan, M. I., Kumar, A., Hayat, T., &Singh, R. (2019). Entropy generation in flow of Carreau nanofluid. <i>Journal of Molecular Liquids</i> , NA, NA.

22.	Pratibha, Mishra, R. K., & Mohan, R. (2019). Graded 2-absorbing primary fuzzy ideals and Graded Weakly 2- Absorbing Primary Fuzzy Ideals. <i>JARDCS</i> , 11, 1211-1220.
23.	Pratibha, Mishra, R. K., & Mohan, R. (2018). Graded Fuzzy Representable Module And Graded Fuzzy Attached Primes. <i>JARDCS</i> , 10, 2435-2444.
24.	Nandkeolyar, R., Narayana, M., Motsa, S. S., & Sibanda P. (2018). Magnetohydrodynamic mixed convective flow due to a vertical plate with induced magnetic field. <i>Journal of Thermal Science and Engineering Applications</i> , 10(6), NA.
25.	Seth, G. S., Kumar, B., & Nandkeolyar, R. (2019). MHD mixed convection stagnation point flow of a micropolar nanofluid adjacent to stretching sheet: a revised model with successive linearization method. <i>Journal of Nanofluids</i> , 8(3), 620-630.
26.	Kundu, S. (2019). Modeling stratified suspension concentration distribution in turbulent flow using fractional advection-diffusion equation. <i>Environmental Fluid Mechanics</i> , 19, 1557-1574.
27.	Kumar, R., Edalatpanah, S. A., Jha, S., Broumi, S., & Dey, A. (2018). Neutrosophic Shortest Path Problem. <i>Neutrosophic Set and Systems</i> , 23, 5-15.
28.	Kumar, S., Sharma, B., & Paswan, M. K. (2019). Numerical investigation of MHD stagnation point flow and heat transfer of sodium alginate non-Newtonian nanofluid. <i>Nonlinear Engineering- Modeling and Application</i> , 8, 179-192.
29.	Kumar, S., Kumar, A., Momani, S., Aldhaifallah, M., & Nisar, K. S. (2019). Numerical solutions of nonlinear fractional model arising in the appearance of the stripe patterns in two dimensional systems. <i>Advances in Difference Equations</i> , 2019, NA.
30.	Gayen, S., Jha, S., Singh, M., & Kumar, R. (2019). On a Generalized Notation of Anti- fuzzy Subgroup and some Characterizations. <i>International Journal of Engineering and Advanced Technology</i> , 8(3), 385-390.
31.	Kumar, B., Seth, G. S., Nandkeolyar, R., & Chamkha, A. J. (2019). Outlining the impact of induced magnetic field and thermal radiation on magneto-convection flow of dissipative fluid. <i>International Journal of Thermal Sciences</i> , 146, NA.
32.	Debnath, S. K. (2019). Provably Secure Private Set Intersection With Constant Communication Complexity. <i>International Journal of Cyber Warfare and Terrorism (IJCWT)</i> , 9, 39-64.
33.	Kumar, B., Seth, G. S., & Nandkeolyar, R. (2019). Regression model and analysis of MHD mixed convective stagnation point nanofluid flow: SLM and

	SRM approach. <i>Bulgarian Chemical Communications</i> , 51(4), 557-568.
34.	Kumar, B., Seth, G. S., &Nandkeolyar, R. (2019). Regression model and successive linearization approach to analyse stagnation point micropolar nanofluid flow over a stretching sheet in a porous medium with nonlinear thermal radiation. <i>PhysicaScripta</i> , 94(11), NA.
35.	Kumar, R., Edalatpanah, S. A., Jha, S.,Gayen, S., &Singh, R. (2019). Shortest Path Problems Using Fuzzy Weighted Arc Length. <i>International Journal of Innovative Technology and Exploring Engineering</i> , 8(6), 724-731.
36.	Kumar, S.,Ajou, A. E. I., Oqielat, M. N., Zhour, Z. A., Momani, S. (2019). Solitary solutions for time-fractional nonlinear dispersive PDEs in the sense of conformable fractional derivative. <i>Chaos</i> , 29, NA.
37.	Maiti, I.,Mandal, T.,Pramanik, S., &Das, S. (2019). Solving Multi-objective linear fractional programming problem based on Stanojevic's normalization technique under fuzzy environment. <i>International journal of operation research</i> , NA, NA.
38.	Kumar, A., Singh, R.,Tripathi, R., &Seth, G. S. (2019). Soret Effect on Transient Magnetohydrodynamic Nanofluid Flow Past a vertical Plate Through a Porous Medium with Second Order Chemical reaction and Radiation Effect. <i>International Journal of Heat and Technology</i> , NA, NA.
39.	Kumar, B., Seth, G. S., &Nandkeolyar, R. (2019). Successive linearisation approach to analyse thermally radiative stagnation point micropolar nanofluid flow with regression model. <i>Pramana</i> , 93(5), NA.
40.	Kumar, A., Tripathi, R., Singh, R.,&Seth, G. S. (2019). Three Dimensional Magnetohydrodynamic Flow of Micropolar CNT-based Nanofluid through a Horizontal Rotating Channel. <i>Indian Journal of Physics</i> , NA, NA.
41.	Gupta, M. K., Tomar, N. K., &Darouach, M. (2018). Unknown inputs observer design for descriptor systems with monotone nonlinearities. <i>Int. J. Robust Nonlinear Control</i> , Wiley, 28(17), 1250—1264.
42.	Mondal, B.,Mandal, T.,Choudhury, T.,&Khan, D. A. (2019). Use of "A Light Weight Secure Image Encryption Scheme Based on Chaos & DNA Computing" for Encrypted Audio Watermarking. <i>International Journal of Advanced Intelligence Paradigms</i> , 13, NA.

(b) Published in National/International Conferences during July 2018- June 2019

Sl. No	Author(s), Year, Title, Conference Proceedings, Duration, Organization, PP
1.	Maiti, I.,&Mandal, T. (2019). Goal programming approach for multi-objective Decentralized Bi- Level Linear Fractional Programming problem in fuzzy environment. <i>International conference on Advances in physical Sciences Thailand-2019</i> , AIT Conference center, Bangkok, Thailand.



2.	Das, S., &Mandal, T. (2018). A Revised Method for solving Linear Programming Problem Under Fuzzy Circumstances. <i>IMRF Bangkok, Thailand.</i>
3.	Moysis, L., Volos, C., Pham, V. T., Goudos, S., Stouboulos, I., &Gupta, M. K.(2019)Synchronization of a Chaotic System with Line Equilibrium using a Descriptor Observer for Secure Communication. <i>Int. Conf. Modern Circuits and Systems Technologies, May 13—15, 2019, Thessaloniki, Greece.</i>
4.	Maiti, I.,Mandal, T.,&Pramanik, S. (2019). FGP approach based on Stanojevic's normalisation technique for multi-level multi-objective linear fractional programming problem with fuzzy parameters. <i>2nd International Conference on Information Technology and Applied Mathematics, (07-09 March, 2019; Haldia, India.</i>
5.	Mandal, T. (2018). Probability distributions and its applications with various expression. <i>Bodh-Gaya, Bihar.</i>
6.	Kundu, S.,Yadav, J.,&Mal, T. (2019). Effect of Vertical Secondary Vurrent on Non-Local Transport of Particles in Sediment-Laden Turbulent Flows. <i>24th international conference HYDRO-2019, Osmania University, Hyderabad, 18-20, Osmania University, Hyderabad.</i>

## DEPARTMENT OF PHYSICS

### *Publications in journals and conferences (International/National)*

(a) Published in National/International Journals during July 2018- June 2019

Sl. No	Author(s), Year, Title, Journal, Pub., Vol. No., pp.
1.	Agnihotri, N. (2019), Strong, near-infrared absorbing porphyrins: a DFT study, Canadian Journal of Chemistry, Vol. 97, pp. 1480-3291
2.	Vinita, Tiwari, M. , Agnihotri, N., Singh, M., Singh, A. K., Prakash, R. (2019), Nanonetwork of Coordination Polymer AHMT-Ag for the Effective and Broad, Spectrum Detection of 6- Mercaptopurine in Urine and Blood Serum, ACS Omega, Vol. 4, pp. 16733-16742

(b) Published in National/International Conferences during July 2018- June 2019

Sl. No	Author(s), Year, Title, Conference Proceedings, Duration, Organization, PP
1.	B. Kundu, U. Laha and J. Bhoi (2018), Phase equivalent energy dependent potentials- a supersymmetric approach, International conference on nuclear particle & accelerator physics, Ranchi (23-26 Oct, 2018), International Nuclear Information System (INIS), Ranchi

(c) Participation in International/National Conferences in India/Abroad during July 2018- June 2019

Sl. No	Name of the faculty	Place of conference	Conference Details	Date(s) of conference
1.	Prof. U. Laha	Ranchi	International conference on nuclear particle & accelerator physics	23-26 Oct, 2018
2.	Mr. B. Kundu	Ranchi	International conference on nuclear particle & accelerator physics	23-26 Oct, 2018
3.	Dr. Neha Agnihotri	Pilani	International Conference on Functional Nano-Materials (ICFNM-2019)	22-25 Feb, 2019

## DEPARTMENT OF CHEMISTRY

### *Publications in journals and conferences (International/National)*

(a) Published in National/International Journals during July 2018 - June 2019

Sl. No	Author(s), Year, Title, Journal, Pub., Vol. No., pp.
1.	B.Ambade "The air pollution during Diwali festival by the burning of fireworks in Jamshedpur city, India" Urban Climate, vol.26 pp. 149-160, 2018
2.	S.G. Meshram, S. K.Singh, C. Meshram, R.C.Deo, B.Ambade "Statistical Evaluation of Rainfall Time Series in Concurrence with Agriculture and Water Resources of Ken River Basin, Central India (1901-2010)" Theoretical and Applied Climatology, vol. 320 pp. 1-13, 2018
3.	Naveen Kumar Veldurthi*, Neerugatti Krishna Rao Eswar, SatyapaulA.Singh, Giridhar Madras" Cooperative effect between BaTiO <sub>3</sub> and CaFe <sub>2</sub> O <sub>4</sub> in a cocatalyst-free heterojunction composite for improved photochemical H <sub>2</sub> generation" International journal of hydrogen energy, vol. 43 pp. 22929-22941, 2018