




Faculty Details proforma for DU Web-site

Title	Dr.	First Name	Sonam	Last Name	Singh	Photograph
Designation	Assistant Professor					
Address	Room no.-113, First Floor, Rugby Sevens Building, University Stadium, Cluster Innovation Centre, University of Delhi, Delhi-110007.					
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Educational Qualifications						
Degree	Institution				Year	
Ph.D (Mathematics)	I.I.T. Roorkee				2014	
M.Sc. (Applied Mathematics)	I.I.T. Roorkee				2009	
B.Sc. Mathematics (H)	Miranada House, University of Delhi				2007	
Career Profile						
<ul style="list-style-type: none"> Working as assistant professor at Cluster Innovation Centre (CIC), University of Delhi since January 2014. 						
Administrative Assignments						
<ul style="list-style-type: none"> Worked in examination committee at Cluster Innovation Centre for compilation of results, examination scheduling etc. 						
Areas of Interest / Specialization						
<ul style="list-style-type: none"> Computational Fluid Dynamics Bio heat transfer problems Numerical techniques, Finite element and Meshfree methods 						
Subjects Taught						
<ul style="list-style-type: none"> Linear Algebra Discrete Mathematics Calculus Probability and Statistics 						

- Fluid Dynamics
- Numerical Methods
- Partial Differential Equations
- Linear Programming Problems

Publications Profile

1. Bhargava R., Singh S. : 2013, Element free Galerkin Simulation of mixed convection MHD flow over a vertical power-law stretching sheet, *International Journal of Applied Mathematics and Mechanics*, **9** (8): 54-74.
2. Singh S., Bhargava R.: 2012, Element free Galerkin simulation of unsteady micropolar squeeze film flow of a biological lubricant', *Journal of Information & Operation Management*, ISSN: 0976-7754 & E-ISSN: 0976-7762 **3** (1) 149-152.
3. Beg Anwar O., Bhargava R., Singh S., and Maregere H.:2013, Element-free galerkin method (EFGM) computation of transient micropolar magnetic squeeze biofilm, *International Journal of Applied Mathematics and Mechanics*, **9**, 1-21.
4. Singh S., Bhargava R.: 2014, Numerical study of natural convection within a wavy enclosure using Meshfree approach: Effect of corner heating, *The Scientific world Journal*, (Hindawi Publications), 2014, Article ID 842401, 18 pages, dx.doi.org/10.1155/2014/842401.
5. Singh S., Bhargava R.: 2015, Numerical simulation of a phase transition problem with natural convection using hybrid FEM / EFGM technique, *International Journal of Numerical methods for Heat and Fluid flow*, Vol. 25, Issue 3, pp. 570-592.
6. Bhargava R., Singh S.: 2012, Numerical study of unsteady flow and heat transfer of a second grade fluid with viscous dissipation and joule heating using Meshfree approach', *World Academy of Science, Engineering and Technology*, International Science index **66**, Vol. 6, Issue 6, pp. 1215-1221 (Proceeding of ICAMNA-2012 held at Paris during 27th June-28th June, 2012).
7. Bhargava R., Singh S.: 2011, Numerical study of mixed convection flow over a vertical power-law stretching sheet using EFGM, *Proceedings of International conference on Advances on Modeling, Optimization and Computing*, 280-290.
8. Bhargava R., Singh S.: 2013, Meshfree methods: An efficient advanced computing approach for Bio-medical problems, *IEEE conference proceedings, ICACCI*, 1397-1402, Digital Object Identifier: [10.1109/ICACCI.2013.6637383](https://doi.org/10.1109/ICACCI.2013.6637383).
9. Singh S., Bhargava R.: 2014, Simulation of phase transition during cryosurgical treatment of a tumor tissue loaded with nano-particles using meshfree approach, *ASME Journal of Heat Transfer*, 136(12), 10 pages, DOI: 10.1115/1.4028730.
10. Singh S., Bhargava R.: 2015, Element free Galerkin simulation of flow and heat transfer of a viscoelastic fluid over a stretching sheet embedded in a porous medium with variable fluid properties and Newtonian heating, *Scientia Iranica B*, vol. 22, Issue 2, pp. 504-518.

