

Personal Profile		
Name	Dr. Amit Mondal	
Address with email	<i>Present Add:</i> Flat-2, 4th floor, Sakuntala Apartment, Vivekananda Pally, Asansol, Pin-713301. <i>Permanent Add:</i> Sakhigopal Para, Bishnupur, Bankura, Pin-722122, W.B Email: amitmondal009@gmail.com amitmondal@bccollegeasansol.ac.in	
Date of Joining	10.11.2020	
Teaching Experience	7 years	
Topics Taught	Differential Equations (ODE+PDE), Numerical Analysis, Mechanics, Differential Calculus, Integral Calculus, Vector Calculus,	
Research Experience	7 years	
Research Area	<u>Bio-fluid Dynamics, Fluid Mechanics, Electroosmotic Flow, Heat Transfer</u>	
Award and Recognition (if any)	▪ Qualified in joint CSIR-UGC NET (National Eligibility Test) for Junior Research Fellowship in Mathematical Sciences in 2012 and secured 84 rank in the Mathematical Science. ▪ Dr. D.S. Kothari Post Doctoral fellowship was awarded by UGC in 2018.	
Membership	▪ Life time member of Indian Mathematical Society.	
Other Activity	▪ Reviewer of the International Journal : 'Waves in Random and Complex Media' . ▪ Qualified NCC 'A' Certificate in 2003 for Cadet rank in 53 Bengal BN NCC	

List of Publications	1. A. Mondal, P.K. Mandal, S. Maiti, G.C. Shit, Combined effects of temperature-dependent properties and magnetic field on electro-osmotic mobility at arbitrary zeta potentials, Waves in Random and Complex Media, (2022) (SCI) (I.F.-1.5) Link- https://doi.org/10.1080/17455030.2022.2113929 2. A. Mondal, P.K. Mandal, B. Weigand, A.K. Nayak, 'Entropy and heat-transfer analysis of EMHD flows with temperature-dependent properties', Fluid Dynamics Research', 52, 1-36 (2020) (SCI) (I.F.-1.5)Link- https://doi.org/10.1088/1873-7005/abbcc7 3. A. Mondal, G.C. Shit, 'Electro-osmotic flow and heat transfer in a slowly varying asymmetric micro-channel with Joule heating effects', 'Fluid Dynamics Research', 50, 065502 (2018). (SCI) (I.F.-1.5)Link- https://doi.org/10.1088/1873-7005/aad590 4. A. Mondal, G.C. Shit, 'Transport of magneto-nanoparticles during electro-osmotic flow in a micro-tube in the presence of magnetic field for drug delivery application', 'Journal of Magnetism and Magnetic Materials', 442, 319-328 (2017). (SCI) (I.F.-3.097) Link- http://dx.doi.org/10.1016/j.jmmm.2017.06.131 5. G.C. Shit, A. Mondal, A. Sinha, P.K. Kundu, 'Effects of slip velocity on rotating electro-osmotic flow in a slowly varying micro-channel', 'Colloids and Surfaces A: Physicochemical and Engineering Aspects', 489, 249-255, (2016). (SCI) (I.F- 5.518) Link- http://dx.doi.org/10.1016/j.colsurfa.2015.10.036 6. G.C. Shit, A. Mondal, A. Sinha, P.K. Kundu, 'Electro-osmotically driven MHD flow and heat transfer in micro-channel', 'Physica A', 449, 437-454, (2016). (SCI)(I.F.- 3.778) Link- http://dx.doi.org/10.1016/j.physa.2016.01.008 7. G.C. Shit, A. Mondal, A. Sinha, P.K. Kundu, 'Two-layer electro-osmotic flow and heat transfer in a hydrophobic micro-channel with fluid-solid interfacial slip and zeta potential difference', 'Colloids and Surfaces A: Physicochemical and Engineering Aspects' 506, 535-549, (2016). (SCI)(I.F- 5.518) Link- http://dx.doi.org/10.1016/j.colsurfa.2016.06.050 8. A. Sinha, A. Mondal, G.C. Shit , P.K. Kundu, 'Effect of heat transfer on rotating electroosmotic flow through a micro-vessel: haemodynamical applications,' 'Heat Mass Transfer', 52(8),1549–1557, (2016). (SCI) (I.F.-2.464) Link- DOI 10.1007/s00231-015-1673-5.
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9. G.C. Shit, **A. Mondal**, A. Sinha, P.K. Kundu, 'Electro-osmotic flow of power-law fluid and heat transfer in a micro-channel with effects of Joule heating and thermal radiation', 'Physica A' 462, 1040-1057, (2016). (SCI) (I.F.-3.778)

Link- <https://doi.org/10.1016/j.physa.2016.06.142>

10. A. Sinha , **A. Mondal**, 'Mathematical analysis of pulsatile blood flow and heat transfer in oscillatory porous arteries', 'International Journal of Advances in Applied mathematics and Mechanics', 2(3), 1-14, (2015).

Link- <http://www.ijaamm.com/uploads/2/1/4/8/21481830/v2n3p23.pdf>

11. A. Sinha , **A. Mondal**, 'Influence of slip velocity on MHD flow of blood and heat transfer through a permeable capillary: a theoretical study', 'Special Topics & Reviews in Porous Media: An International Journal' 6 (3), 239–250, (2015).

Link: [10.1615/SpecialTopicsRevPorousMedia.v6.i3.20](https://doi.org/10.1615/SpecialTopicsRevPorousMedia.v6.i3.20) (ISSN: 2151-4798)