CURRICULUM VITAE



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[www.researchgate.net/profile/Prof\_Dr\_Sohail\_Nadeem](http://www.researchgate.net/profile/Prof_Dr_Sohail_Nadeem)

<https://publons.com/researcher/3138004/sohail-nadeem/>

### Education

### Post Doc from Yonsei University South Korea 2011.

### Degrees from Quaid-i-Azam University, Islamabad, Pakistan

### Ph.D. in Mathematics, 2004, Area of specialization: Applied Mathematics (Non-Newtonian fluid Mechanics)

M. Phil in Mathematics, 2000, Area of specialization: Applied Mathematics

M. Sc. In Mathematics, 1998

**Awards and Honors**

1. Become the Fellow Pakistan Academy sciences in 2019.
2. Adjunct Professor at Ton Duc Thang University Vietnam from October 2019-2020.
3. Awarded Best university teacher award for the year 2015 in 2016 by Higher education commission of Pakistan.
4. Awarded PAS gold medal in Mathematics for the year 2016 by Pakistan academy of sciences.
5. Third Top Mathematician of Pakistan for the year 2017, according to PCST award list.
6. Productive scientist Award for A Category by PCST for the year 2015 and is on 4th position in Pakistan among all the scientists.
7. According to PCST ranking declared top third Mathematician of Pakistan for the year 2014, and top Eleven Scientist of (all categories) Pakistan.
8. Awarded the letter of outstanding author of Applied mathematics and Mechanics (English Edition) for the year 2014.
9. Ambassador of ICM 2014 which will be held in Korea in this summer.
10. Productive scientist Awards by PCST for the years 2012-2013 A category.
11. Recipient of Best young researcher scholar award for the year 2011 awarded by HEC in 2013.
12. Productive scientist Award for A Category by PCST for the year 2012.
13. Recipient of Salam prize for Mathematics for the year 2012 by Third World Academy of Sciences ICTP, Italy.
14. Selected Member Pakistan Academy of Sciences from 2012 by Pakistan Academy of Sciences.
15. Received two appreciation letters from Communications in Nonlinear Science and Numerical Simulation for top cited articles of 2007-2011.
16. Productive scientist Award for A Category by PCST for the year 2011.
17. Awarded Tamgha-i-Imtiaz by government Pakistan for the year 2012.
18. Successfully completed a research project of more than one million awarded by HEC for the years 2010-2012.
19. Young fellow TWAS by third world Academy of Sciences, Italy, for the years 2011-2016.
20. Visiting Fellow at Yonsei University Seoul Korea for summer 2011.
21. Awarded Research project of more than one Million by higher education commission of Pakistan for the years 2010-2012, which is completed.
22. Successfully supervised 20 Ph.D. Students and more than 70 M. Phil students.
23. Reviewer of more than 100 international journals with high impact factor.
24. Awarded Razi-ud-Din Gold medal by Pakistan Academy of Sciences for the year 2008.
25. Receipient of productivity allowance from Pakistan council for science and technology every year from 2006 to 2010.
26. Razi-ud-Din Scholarship during Ph.D.
27. 3rd Position in M.Phil Mathematics.
28. University merit Fellowship during M.Phil.

**Academics Appointments**

1. Chairman Department of Mathematics, Quaid-i-Azam University Islamabad, Jan.2019 to date.
2. Professor at Quaid-i-Azam University Islamabad from August. 2015 to date.
3. Associate Professor at Quaid-i-Azam University Islamabad from Feb. 2011 to 25 August 2015.
4. Assistant Professor at Quaid-i-Azam University Islamabad from December 2005 to Feb. 2011.
5. Assistant Professor at COMSATS Institute of Information Technology Abbottabad from April 2003 to Feb. 2005.
6. Lecturer at COMSATS Institute of Information Technology Abbottabad from May 2002 to April 2003.

# Two years research experience as junior research assistant at Mathematics department Quaid-i-Azam University from 1998 to 2000.

# Senior research assistant department of Mathematics, Quaid-i-Azam University Islamabad from 2000 to 2004.

Administrative Experience

1. Chairman Department of Mathematics, Quaid-i-Azam University, Islamabad Jan.2019-to date.
2. Chairman Auction Committee Quaid-i-Azam University Islamabad 2015 to date
3. Member of Various committees of Quaid-i-Azam university and other universities in Pakistan.
4. Member HEC M.Phil/Ph.D. review Committee.
5. Worked as Resident Officer Quaid-i-Azam University 2017.
6. Incharge VFH Houses Quaid-i-Azam University Islamabad 2015-2019.
7. Incharge Departmental Computer Lab.
8. Running research Lab where Dr. Sohail Nadeem Has successfully supervised More than 100 Research scholars including 20 Ph.D.’s and more than 80 M. Phil Graduates.

**Research Publications**

1. T. Hayat, **S. Nadeem**, S. Asghar and A. M. Siddiqui, Fluctuating flow of a third order fluid on a porous plate in a rotating medium, International J. Non-Linear Mechanics, 36(2001) 901-916. Impact Factor = 1.209.
2. T. Hayat, **S. Nadeem**, S. Asghar and A. M. Siddiqui, MHD rotating flow of a third-grade fluid on an oscillating porous plate, Acta Mechanica, 152(2001)177-190. Impact Factor = 1.292.
3. T. Hayat, **S. Nadeem**, S. P. Pudasaini and S. Asghar, Fluctuating flow of a third order fluid past an infinite plate with variable suction, Archives of Mechanics, 55(2003)305-324. Impact Factor = 0.396.
4. T. Hayat, **S. Nadeem**, S. Asghar and A. M. Siddiqui, An Oscillating Hydromagnetic Non-Newtonian Flow in a Rotating System, Applied Mathematics Letters, 17(2004)609-614. Impact Factor = 1.371
5. T. Hayat, **S. Nadeem**, and S. Asghar, Periodic unidirectional flows of a viscoelastic fluid with the fractional Maxwell model, Applied Mathematics and Computation, 151(2004)153-161. Impact Factor = 1.317.
6. T. Hayat, **S. Nadeem**, K. Hutter and S. Asghar, Unsteady Hydromagnetic Flow of a conducting second grade Fluid, Z. Angew Math. Phys. (ZAMP), 55(2004)626-641. Impact Factor = 0.955.
7. T. Hayat, **S. Nadeem** and S. Asghar, Hydromagnetic Couette flow of an Oldroyd-B fluid in a rotating system, Int. J. Eng. Sci, 42(2004)65-78. Impact Factor = 1.210.
8. T. Hayat, **S. Nadeem** K. Hanif and S. Asghar, Magnetohydrodynamic rotating flow of a second-grade fluid with a given volume flow rate variation, Meccanica, 39(2004)483-488. Impact Factor = 1.558.
9. Masood Khan, **S. Nadeem**, T. Hayat, and A. M. Siddiqui, Unsteady Motions of a Generalized Second grade fluid, Mathematical and Computer Modelling, 41(2005)629-637. Impact Factor = 1.34.
10. T. Hayat, **S. Nadeem**, S. Asghar and A. M. Siddiqui, Effects of hall current on unsteady flow of a second-grade fluid in a rotating system, Chem. Eng. Comm., 192(2005)1272-1284.
11. S. Asghar, **S. Nadeem**, K. Hanif and T. Hayat, Analytic solutions of Stokes second problem in second grade fluid, Mathematical Problems in Engineering 2006(2006)1-8. Impact Factor = 0.777.
12. T. Hayat, **S. Nadeem**, S. Asghar and A. M. Siddiqui, Unsteady MHD flow due to eccentrically rotating porous disk and a third grade Fluid at infinity, Int. Appl. Mech. Eng, 11(2006)415-419. Impact Factor = 0.000.
13. **S. Nadeem**, Hall effects on unsteady motions of a generalized second grade fluid through a porous medium, Journal of Porous Media, 8(2006)779-788. Impact Factor = 0.707.
14. M. Hameed and **S. Nadeem**, Unsteady MHD flow of a non-Newtonian fluid on a porous plate, Journal of Mathematical Analysis and Applications, 325(2007)724-733. Impact Factor = 1.001.
15. **S. Nadeem**, General periodic flows of fractional Oldroyd-B fluid for an edge, Physics Letters A, 368(2007)181-187. Impact Factor = 1.632.
16. M. Sajid, M. Awais, **S. Nadeem**, T. Hayat, The influence of slip condition on thin film flow of a fourth-grade fluid by the homotopy analysis method, Computers & Mathematics with Applications, 56(2008)2019-2026. Impact Factor = 1.747.
17. **S. Nadeem**, M. Awais, Thin film flow of an unsteady shrinking sheet through porous medium with variable viscosity, Physics Letters A, 372(2008)4965-4972. Impact Factor = 1.632.
18. **S. Nadeem**, S. Asghar, T. Hayat and Mazhar Hussain, The Rayleigh Stokes problem for rectangular pipe in Maxwell and second grade fluid, Meccanica, 43(2008)495-504. Impact Factor = 1.558.
19. **S. Nadeem** and M. Ali, Analytical solutions for pipe flow of a fourth-grade fluid with Reynold and Vogel’s models of viscosities, Communications in Nonlinear Science and Numerical Simulation, 14(2009)2073-2090. Impact Factor = 2.806.
20. **S. Nadeem**, N. S. Akbar, Effects of heat transfer on the peristaltic transport of MHD Newtonian fluid with variable viscosity: Application of Adomian decomposition method, Communications in Nonlinear Science and Numerical Simulation, 14(2009)3844-3855. Impact Factor = 2.806.
21. **S. Nadeem**, N. S. Akbar, Influence of heat transfer on a peristaltic transport of Herschel Bulkley fluid in a non-uniform inclined tube, Communications in Nonlinear Science and Numerical Simulation, 14(2009)4100–4113. Impact Factor = 2.806.
22. **S. Nadeem**, T. Hayat, N. S. Akbar and M. Y. Malik, On the influence of heat transfer in peristalsis with variable viscosity, International Journal of Heat and Mass Transfer 52 (2009)4722–4730. Impact Factor = 2.407.
23. **S. Nadeem**, S. Akram, Peristaltic transport of a hyperbolic tangent fluid model in an asymmetric channel, Zeitschrift fur Naturforschung A., 64a (2009)559-567. Impact Factor = 0.94.
24. M. Y. Malik, A. Hussain, **S. Nadeem** and T. Hayat, Flow of a third grade fluid between coaxial cylinders with variable viscosity, Zeitschrift fur Naturforschung, 64a(2009)588-596. Impact Factor = 0.94.
25. **S. Nadeem**, S. Abbasbandy, M. Hussain, Series solutions of boundary layer flow of a Micropolar fluid near the stagnation point towards a shrinking sheet, Zeitschrift fur Naturforschung, 64a (2009)575-582. Impact Factor = 0.94.
26. **S. Nadeem**, Thin film flow of a third-grade fluid with variable viscosity, Zeitschrift fur Naturforschung, 64a (2009)553-558. Impact Factor = 0.94.
27. **S. Nadeem**, N. S. Akbar, Influence of heat transfer on a peristaltic flow of Johnson Segalman fluid in a non-uniform tube, International communications in heat and mass transfer, 36(2009)1050-1059. Impact Factor = 1.892.
28. **S. Nadeem**, N. S. Akbar, Peristaltic flow of a Jeffrey fluid with variable viscosity in an asymmetric channel, Zeitschrift fur Naturforschung, 64a (2009)713 – 722. Impact Factor = 0.94.
29. **S. Nadeem**, A. Hussain, M. Y. Malik and T. Hayat, Series solutions for the stagnation flow of a second-grade fluid over shrinking sheet, Applied Mathematics and Mechanics, 30(2009) 1255-1262. Impact Factor = 0.558.
30. **S. Nadeem**, A. Hussain, MHD flow of a viscous fluid on a non-linear porous shrinking sheet by Homotopy analysis method, Applied Mathematics and Mechanics, 30(2009)1569-1578. Impact Factor = 0.558.
31. **S. Nadeem**, N. S. Akbar and M. Y. Malik, Exact and numerical solutions of a micropolar fluid in a vertical Annulus, Numerical methods for partial differential equation, 26(2009) 1660-1674. Impac**t** Factor = 1.404.
32. **S. Nadeem**, T. Hayat, M. Y. Malik and S. A. Rajput, Thermal radiations effects on the flow by an exponentially stretching surface: a series solution, Zeitschrift fur Naturforschung, 65a (2009)1-9. Impact Factor = 0.94.
33. **S. Nadeem**, N. S. Akbar and M. Hameed, Peristaltic transport and heat transfer of an MHD Newtonian fluid with variable viscosity, International Journal for Numerical Methods in Fluids, 63(2010)1375-1393. Impact Factor = 1.176.
34. **S. Nadeem**, T. Hayat, S. Abbasbandy, M. Ali, Effects of partial slip on a fourth-grade fluid with variable viscosity: An analytic solution, Nonlinear Analysis: Real World Applications, 11(2010) 856-868. Impact Factor = 2.043.
35. T. Hayat, **S. Nadeem**, R. Ellahi, S. Asghar, The influence of Hall current in a circular duct, Nonlinear Analysis: Real World Applications, 11(2010)184-189. Impact Factor = 2.043.
36. **S. Nadeem**, S. Akram, Peristaltic flow of a Williamson fluid in an asymmetric channel, Communications in Nonlinear Science and Numerical Simulation, 15(2010)1705-1716. Impact Factor = 2.806.
37. **S. Nadeem**, S. Akram, Heat transfer in a peristaltic flow of MHD fluid with partial slip, Communications in Nonlinear Science and Numerical Simulation, 15(2010)312-321. Impact Factor = 2.806.
38. **S. Nadeem**, S. Akram, Slip effects on the peristaltic flow of a Jeffrey fluid in an asymmetric channel under the effect of induced magnetic field, International Journal for Numerical Methods in Fluids, 63(2010)374-394. Impact Factor = 1.176.
39. **S. Nadeem**, A. Hussain and M. Khan, HAM solutions for boundary layer flow in the region of the stagnation point towards a stretching sheet, Communication in Nonlinear Sci. Numer. Simul, 15(2010)475-481. Impact Factor = 2.806.
40. **S. Nadeem**, A. Hussain and M. Khan, Stagnation Flow of a Jeffrey Fluid over a Shrinking Sheet, Zeitschrift fur Naturforschung, 65a (2010)540-548. Impact Factor = 0.94.
41. **S. Nadeem**, N. S. Akbar and M. Y. Malik, Numerical solutions of peristaltic flow of a Newtonian fluid under the effects of magnetic field and heat transfer in porous concentric tubes, Zeitschrift fur Naturforschung, 65a (2010)369-380. Impact Factor = 0.94.
42. **S. Nadeem**, N. S. Akbar, Influence of heat transfer on peristaltic transport of a Johnson Segalman fluid in an inclined asymmetric channel, Communication in nonlinear science and numerical simulation, 15(2010)2860-2877. Impact Factor = 2.806.
43. **S. Nadeem**, N. S. Akbar, N. Bibi, S. Ashiq, Influence of heat and mass transfer on peristaltic flow of a third order fluid in a Diverging tube, Communication in nonlinear science and numerical simulation, 15(2010)2916-2931. Impact Factor = 2.806.
44. **S. Nadeem**, N. S. Akbar, Corrigendum to ‘‘Effects of heat transfer on the peristaltic transport of MHD Newtonian fluid with variable viscosity: Application of Adomian decomposition method”. Communication in nonlinear science and numerical simulation, 15(2010)1419–1420. Impact Factor = 2.806.
45. **S. Nadeem,** N. S. Akbar, Effects of temperature dependent viscosity on peristaltic flow of a Jeffrey-six constant fluid in a non-uniform vertical tube, Communication in nonlinear science and numerical simulation, 15(2010)3950-3964. Impact Factor = 2.806.
46. **S. Nadeem**, N. Faraz, Thin film flow of a second-grade fluid over a stretching/shrinking sheet with variable temperature dependent viscosity, Chinese physics letters, (2010) 27(3):034704. Impact Factor = 0.731.
47. **S. Nadeem**, N. S. Akbar, Effects of induced magnetic field on the peristaltic flow of Johnson Segalman fluid in a vertical symmetric channel, Applied Mathematica and Mechanics 31(2010)969-978. Impact Factor = 0.558.
48. **S. Nadeem**, N. S. Akbar, Influence of heat and mass transfer on a peristaltic motion of a Jeffrey-six constant fluid in an annulus, Heat and Mass transfer, 46(2010)485-493. Impact Factor = 0.896.
49. **S. Nadeem**, N. S. Akbar, Erratum to "Influence of heat transfer on a peristaltic transport of Herschel--Bulkley fluid in a non-uniform inclined tube" [Commun Nonlinear Sci Numer Simulat 14(2009)4100-4113.], Communication in nonlinear science and numerical simulation, 15(2010)4241. Impact Factor = 2.806.
50. **S. Nadeem**, S. Akram, Influence of inclined Magnetic field on the peristaltic flow of a Williamson fluid model in an inclined symmetric and asymmetric channel, Mathematical and Computer Modelling, 52(2010)107-119. Impact Factor = 1.346.
51. N. S. Akbar and **S. Nadeem**, Simulation of heat and chemical reactions on Reiner Rivlin fluid model for blood flow through a tapered artery with a stenosis, Heat and Mass transfer, 46(2010)531-539. Impact Factor = 0.896.
52. **S. Nadeem** and N. S. Akbar, Simulation of second grade fluid model for blood flow through a tapered artery with a stenosis, Chinese physics letters, 27(2010)068701. Impact Factor = 0.731.
53. **S. Nadeem** and N. S. Akbar, Influence of temperature dependent viscosity on peristaltic transport of a Newtonian fluid: Application of an endoscope, Applied Mathematics and Computation, 216(2010)3606-3619. Impact Factor = 1.317.
54. **S. Nadeem**, N. S. Akbar, Effects of heat and mass transfer on peristaltic flow of Carreau fluid in a vertical annulus, Zeitschrift fur Naturforschung, 65a(2010)1-12. Impact Factor = 0.94.
55. **S. Nadeem**, N. S. Akbar, Influence of radially varying MHD on the peristaltic flow in an annulus with heat and mass transfer, Taiwan Institute of chemical engineers, 41(2010)286-294. Impact Factor = 2.138.
56. **S. Nadeem**, S. Akram, Pristaltic flow of a Jeffrey fluid in a rectangular duct, Nonlinear Analysis Real World Application, 11(2010)4238-4247. Impact Factor = 2.043.
57. **S. Nadeem**, S. Akram, Influence of heat transfer and magnetic field on a peristaltic transport of a Jeffrey fluid in an asymmetric channel with partial slip, Zeitschrift fur Naturforschung, 65a (2010)483 – 494. Impact Factor = 0.94.
58. **S. Nadeem** and N. S. Akbar, Peristaltic flow of Sisko fluid in a uniform inclined tube, Acta Mechanica sinica. 26(2010)675 – 683. Impact Factor = 0.860.
59. **S. Nadeem** and N. S. Akbar and T. Hayat , Effects of variable viscosity on the peristaltic motion in a third order fluid, Zeitschrift fur Naturforschung, 65a(2010 )1-10. Impact Factor = 0.94.
60. **S. Nadeem** and N. S. Akbar, Series solutions for the peristaltic flow of a tangent hyperbolic fluid in a uniform inclined tube, fur Naturforschung, 65a (2010)1-9. Impact Factor = 0.94.
61. **S. Nadeem** and N. S. Akbar, Numerical solutions of peristaltic flow of a Jeffrey-six constant fluid with variable MHD, Zeitschrift fur Naturforschung, 65a (2010)911-918. Impact Factor = 0.94.
62. **S. Nadeem**, A. Hussain, Effects of heat transfer on the stagnation flow of a third order fluid over a shrinking sheet, Zeitschrift für Naturforschung A, 65a (2010)969-994. Impact Factor = 0.94.
63. **S. Nadeem**, N. S. Akbar and S. Ashiq, Simulation of heat and chemical reactions on the peristaltic flow of a Johnson Segalman fluid in an endoscope, International Journal of Non-linear Science and Numerical Simulation, 11(2010)873-885. Impact Factor = 1.484.
64. **S. Nadeem**, M. Hussain and M. Naz, MHD Stagnation flow of a micropolar fluid through porous medium, Meccanica 45(2010)869-880. Impact Factor = 1.558.
65. **S. Nadeem** and N. S. Akbar, Peristaltic flow of Walter's B fluid in a uniform inclined tube, Journal of Biorheology, 24(2010)22-28. Impact Factor = 1.93.
66. **S. Nadeem** and N. S. Akbar, Application of radially varying magnetic field on a peristaltic flow of non-Newtonian fluid in the presence of heat and mass transfer, Heat transfer Asian Research, 39(2010)555-574. Impact Factor = 0.000.
67. **S. Nadeem**, M. Awais, thin film flow of a non-newtonian fluid down a vertical cylinder through a porous medium, Journal of Porous Media, 13(2010)973-980. Impact Factor = 0.707.
68. **S. Nadeem**, N. S. Akbar, Influence of heat and chemical reactions on the peristaltic flow of a Johnson Segalman fluid in a vertical asymmetric channel with induced MHD, Taiwan Institute of chemical engineers, 42(2011)58-66. Impact Factor = 2.110.
69. **S. Nadeem**, S. Akram, Peristaltic flow of a couple stress fluid under the effect of induced magnetic field in an asymmetric channel, Archives of applied Mechanics, 81(2011)97–109. Impact Factor = 0.95.
70. N. S. Akbar, T. Hayat, **S. Nadeem** and Awatif A. Hendi, Effects of slip and heat transfer on the peristaltic flow of a third order fluid in an inclined asymmetric channel, International Journal of Heat and Mass Transfer, 54(2011)1654-1664. Impact Factor = 2.407.
71. **S. Nadeem**, N. S. Akbar, Influence of heat and chemical reactions on Walter's B fluid model for blood flow through a tapered artery, Taiwan Institute of chemical engineers, 42(2011)67-75. Impact Factor = 2.110.
72. **S. Nadeem**, N. S. Akbar and K. Vajravelue, Peristaltic flow of a Sisko fluid in an endoscope analytical and numerical solutions, International Journal of Computer mathematics, 88(2011)1013–1023. Impact Factor = 0.499.
73. N. S. Akbar and **S. Nadeem**, Simulation of heat transfer on the peristaltic flow of a Jeffrey-six constant fluid in a diverging tube, International Communication in Heat and Mass transfer, 38(2011)154-159. Impact Factor = 1.892.
74. **S. Nadeem**, N. S. Akbar, T. Hayat and Awatif A Hendi, Power law fluid model for blood flow through a tapered artery with a stenosis, Applied Mathematics and Computation, 217 (2011)7108-7116. Impact Factor = 1.317.
75. **S. Nadeem** and S. Akram, Peristaltic flow of a Maxwell model through porous boundaries in a porous medium, Transport in Porous media, 86(2011)895-909. Impact Factor = 1.168.
76. Emna Gargouri-Ellouze, N. S. Akbar and **S. Nadeem**, Modelling Nonlinear Bivariate Dependence Using the Boubaker Polynomials Copula: Application to Infiltration Rainfall Patterns in Saddine-1 (Makthar, Northern Tunisia), Studies in Nonlinear Sciences, 2 (2011)13-18. Impact Factor = 0.000.
77. **S. Nadeem** and S. Akram, Magnetohydrodynamics peristaltic flow of a hyperbolic tangent fluid in a vertical asymmetric channel with heat transfer, Acta Mechanica Sinica, 27(2011)237-250. Impact Factor = 0.860.
78. **S. Nadeem**, N. S. Akbar, T. Hayat and Awatif A Hendi, Peristaltic flow of Walter’s B fluid in an endoscope, Applied Mathematics and Mechanics, 32(2011)689-700. Impact Factor = 0.558.
79. **S. Nadeem** and N. S. Akbar, Exact and numerical simulation of peristaltic flow of a non-Newtonian fluid with inclined magnetic field in an endoscope, International Journal for Numerical Methods in Fluids, 66(2011)919-934. Impact Factor = 1.176.
80. **S. Nadeem** and N. S. Akbar, Numerical solutions of peristaltic flow of Williamson fluid with radially varying MHD in an endoscope, International Journal for Numerical Methods in Fluids, 66(2011)212-220. Impact Factor = 1.176.
81. **S. Nadeem** and N. S. Akbar, Numerical analysis of peristaltic transport of a tangent hyperbolic fluid in an endoscope, Journal of Aerospace engineering, 24(2011)309-317. Impact Factor = 0.697.
82. N. S. Akbar, T. Hayat, **S. Nadeem** and Awatif A. Hendi, Effects of heat and mass transfer on the peristaltic flow of hyperbolic tangent fluid in an annulus, International Journal of Heat and Mass Transfer, 54(2011)4360-4369. Impact Factor = 2.407.
83. M. Y. Malik, A. Hussain, and **S**. **Nadeem**, Flow of a Jeffrey-six constant fluid between coaxial cylinders with heat transfer, Communications in theoretical physics, 56(2011)345-351. Impact Factor = 0.747.
84. N. S. Akbar and **S. Nadeem**, Jeffrey fluid model for blood flow through a tapered artery with a stenosis, J. of Mechanics in Medicine and Biology, 11(2011)529-545. Impact Factor = 0.468.
85. **S. Nadeem** and N. S. Akbar, Effects of heat and chemical reactions on peristaltic flow of Newtonian fluid in a diverging tube with inclined MHD, Asia Pascific journal of chemical engineering, 6(2011)659-668. Impact Factor = 0.758.
86. **S. Nadeem**, S. Zaheer and Ti. Fang, Effects of thermal radiation on the boundary layer flow of a Jeffrey fluid over an exponentially stretching surface, Numerical Algorithms, 57(2011)187-205. Impact Factor = 1.402.
87. N. S. Akbar and **S. Nadeem**, Analytical and numerical solutions of peristaltic flow of Williamson fluid model in an endoscope, J. of Mechanics in Medicine and Biology, 11(2011)941-957. Impact Factor = 0.468.
88. N. S. Akbar and **S. Nadeem**, Combined effects of heat and chemical reactions on the peristaltic flow of Carreau fluid model in a diverging tube, Int. J. of Numerical Methods in fluid, 67(2011)1818-1832. Impact Factor = 1.176.
89. **S. Nadeem**, N. S. Akbar and T. Naz, The numerical and analytical solution of peristaltic flow of a Jeffrey fluid in an inclined tube with partial slip, J. of Mechanics in Medicine and Biology, 11(2011)773-802. Impact Factor = 0.468.
90. **S. Nadeem** and N. S. Akbar, Influence of heat transfer and variable viscosity in vertical porous annulus with peristalsis, Journal of porous media, 14(2011)849-863. Impact Factor = 0.707.
91. **S. Nadeem** and N. S. Akbar, T. Hayat and Awatif A. Hendi. Numerical and series solutions of the peristaltic motion of an Oldroyd 8-constant fluid in an endoscope, Computer Methods in Biomechanics and Biomedical Engineering, 14(2011)987–993. Impact Factor = 0.849.
92. T. Hayat, M. Hussain and **S. Nadeem**, Falkner-Skan wedge flow of a power-law fluid with mixed convection and porous medium, Computers and Fluids, 49(2011)22–28. Impact Factor = 1.81.
93. M. Y. Malik, Azad Hussain, and **S. Nadeem**, Analytical treatment of an Oldroyd-8 constant fluid between the coaxial cylinder with variable viscosity, Communications in theoretical physics, 56 (2011)933–938. Impact Factor = 0.747.
94. **S. Nadeem**, N. S. Akbar, Ahmet Yildirm, Anwar Hussain and Mohamed Ali, Series Solutions for the Stagnation Flow of' a Maxwell Fluid over a Shrinking Sheet, Composites: Mechanics, Compositions Applications, 2(2011)1-15. Impact Factor = 0.000.
95. N. S. Akbar, **S. Nadeem**, Endoscopic Effects on Peristaltic Flow of a Nanofluid, Communications in Theoretical Physics, 56(2011)761–768. Impact Factor =0.747.
96. **S. Nadeem**, N. S. Akbar, T. Hayat and Awatif A Hendi, Influence of heat and mass transfer on Newtonian bio magnetic fluid of blood flow through a tapered porous arteries with a stenosis, Transport in porous media, 91(2012)81–100. Impact Factor = 1.811.
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462. Ullah, N., Nadeem, S., & Saleem, A. (2020). Impact of gravity-induced and Fourier’s heat flux on the nano-film flow over thermal sensitive surface. *Applied Nanoscience*, 1-11.
463. Hussain, F., Hussain, A., & Nadeem, S. (2020). Thermophoresis and Brownian Model of Pseudo-Plastic Nanofluid Flow over a Vertical Slender Cylinder. *Mathematical Problems in Engineering*, *2020*.
464. Amjad, M., Zehra, I., Nadeem, S., & Abbas, N. (2020). Thermal analysis of Casson micropolar nanofluid flow over a permeable curved stretching surface under the stagnation region. *Journal of Thermal Analysis and Calorimetry*, 1-13.
465. Hassan, M., Issakhov, A., Khan, S. U. D., Assad, M. E. H., Hani, E. H. B., Rahimi-Gorji, M., ... & Khan, S. U. D. (2020). The effects of zero and high shear rates viscosities on the transportation of heat and mass in boundary layer regions: A non-Newtonian fluid with Carreau model. *Journal of Molecular Liquids*, *317*, 113991.
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476. Nadeem, S., Akhtar, S., & Abbas, N. (2020). Heat transfer of Maxwell base fluid flow of nanomaterial with MHD over a vertical moving surface. *Alexandria Engineering Journal*.
477. Nadeem, S., Amin, A., & Abbas, N. (2020). On the stagnation point flow of nanomaterial with base viscoelastic micropolar fluid over a stretching surface. *Alexandria Engineering Journal*.
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480. Al-Hanaya, A. M., Sajid, F., Abbas, N., & Nadeem, S. (2020). Effect of SWCNT and MWCNT on the flow of micropolar hybrid nanofluid over a curved stretching surface with induced magnetic field. *Scientific Reports*, *10*(1), 1-18.
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483. Nadeem, S., Kiani, M. N., Saleem, A., & Issakhov, A. (2020). Microvascular blood flow with heat transfer in a wavy channel having electroosmotic effects. *Electrophoresis*.
484. Nadeem, S., Kiani, M. N., Saleem, A., & Issakhov, A. (2020). Microvascular blood flow with heat transfer in a wavy channel having electroosmotic effects. *Electrophoresis*.
485. Ahmad, S., & Nadeem, S. (2020). Analysis of activation energy and its impact on hybrid nanofluid in the presence of Hall and ion slip currents. *APPLIED NANOSCIENCE*.
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487. Ahmad, S., & Nadeem, S. (2020). Cattaneo–Christov‑based study of SWCNT–MWCNT/EG Casson hybrid nanofluid flow past a lubricated surface with entropy generation. *APPLIED NANOSCIENCE*.
488. Ahmad, S., & Nadeem, S. (2020). Application of CNT-based micropolar hybrid nanofluid flow in the presence of Newtonian heating. *Applied Nanoscience*, 1-13.
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499. Shahzadi, I., Suleman, S., Saleem, S., & Nadeem, S. (2020). Utilization of Cu-nanoparticles as medication agent to reduce atherosclerotic lesions of a bifurcated artery having compliant walls. *Computer methods and programs in biomedicine*, *184*, 105123.
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501. Nadeem, S., Abbas, N., & Malik, M. Y. (2020). Inspection of hybrid based nanofluid flow over a curved surface. *Computer Methods and Programs in Biomedicine*, *189*, 105193.
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504. Rashid, M., Shahzadi, I., & Nadeem, S. (2020). Significance of Knudsen number and corrugation on EMHD flow under metallic nanoparticles impact. *Physica A: Statistical Mechanics and its Applications*, *551*, 124089.
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515. Khan, M. N., Nadeem, S., Ahmad, S., & Saleem, A. (2020). Mathematical analysis of heat and mass transfer in a Maxwell fluid. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 0954406220976704.
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520. Khan, M. N., Ullah, N., & Nadeem, S. Transient flow of Maxwell Nanofluid Over a Shrinking Surface: Numerical Solutions and Stability Analysis. *Surfaces and Interfaces*, *22*, 100829.
521. Ahmed, A., Khan, M., Ahmed, J., Anjum, A., & Nadeem, S. (2020). Mixed convective 3D flow of Maxwell nanofluid induced by stretching sheet: Application of Cattaneo-Christov theory. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 0954406220973242.
522. Ghalambaz, M., Mehryan, S. A. M., Mozaffari, M., Hajjar, A., El Kadri, M., Rachedi, N.,& Nadeem, S. (2020). Entropy generation and natural convection flow of a suspension containing nano-encapsulated phase change particles in a semi-annular cavity. *Journal of Energy Storage*, *32*, 101834.
523. Nadeem, S., Ahmad, S., & Muhammad, N. (2020). Analysis of ferrite nanoparticles in liquid. *Pramana*, *94*(1), 1-9.

**Thesis Supervision**

* **Completed Ph. D. Thesis 27**
* **Completed M. Phil Thesis 90+**

**Completed Ph. D. Theses**

1. Anwar Husain (2010) Stagnation flows of non-Newtonian fluids towards a shrinking sheet.
2. Safia Akram (2011) Peristaltic flows of non-Newtonian fluids in an asymmetric channel.
3. Noreen Sher Akbar (2012) Peristaltic flows in cylindrical geometries.
4. Sadaf Ashiq (2013) Peristaltic Flows of non-Newtonian fluids in a diverging tube.
5. Majid Hussain (2013) Heat transfer analysis in two-dimensional flows.
6. Abdul Rehman (2014) Stagnation flows of Newtonian and non-Newtonian fluids.
7. Ehnber Naheed (2014) Mathematical study of Peristaltic flows of non-Newtonian fluids in tubes with different geometrical shapes.
8. Arshad Riaz (2014) Study of Peristaltic Flows of non-Newtonian Fluids.
9. Shafiq-Ur-Rehman (2014) Blood flow of non-Newtonian fluids
10. Salman Saleem (2015) Time dependent flow problems induced by a rotating cone.
11. Rizwan-Ul-Haq, (2015) Development and analysis of stretched flows with nanoparticles.
12. Rashid Mahmood, (2015) Non-Orthogonal stagnation point flows with rheological characteristics.
13. Syed Tayyab Husain Shah, (2015) Analysis of steady flows over a continuous moving surface.
14. Hina Sadaf (2016) Theoretical Investigation of Peristaltic and Ciliary Transport.
15. Shagufta Ijaz (2016) Theoretical Analysis of Blood Flow through Arteries.
16. Aziz Ur Rehman (2017) Speculative Study of Rotating Nanofluids Over a Stretching Surface.
17. Aqeela Shaheen (2017) Peristaltic flows of non-Newtonian fluids.
18. Muhammad Ashfaq (2018) Biomathematical study of some linear and nonlinear blood flow problems.
19. Iqra Shahzadi (2018) Peristaltic transport of nanofluids in tubes and channels.
20. Arif Ullah Khan, (2019) Investigation of Unsteady Stagnation point flow of nanofluids.
21. Tanzila Hayat (2019) Heat transfer analysis for the flows of nanofluids over a stretching surface.
22. Noor Muhammad (2020) Mathematical analysis of Ferro-magnetic fluids.
23. Nuzhat Irshad (2020) Mathematical Observations of Peristaltic flows of nanofluids in an endoscope.
24. Zahid Ahmed (2020) Numerical study of stretching/shrinking problems.
25. Maryam Subhani (2020) Boundary layer flow of micropolar fluid by an exponentially stretching surface.
26. Madiha Rashid (2020) Flow in a Corrugated Walls with EMHD
27. Nadeem Abbas (2020) Theoretical analysis of hybrid nanofluid flow at various stretching surfaces

**Current Ph. D. Theses**

1. Naeem Ullah (Work in Progress) Flows of Nanofluids in cavities: Finite Element Method.
2. Nadeem Abbas (Work in Progress) Stagnation point flows and Nano fluids.
3. Shafiq Ahmad (work in Progress) Stretching surfaces
4. Naveed Ahmad Khan (Work in Progress) Stagnation flows of non-Newtonian fluids
5. Salman Akhtar (Work in Progress) Peristaltic and blood flows.

**Completed M. Phil Theses**

1. Itrat Rubab (2007) Three-dimensional flow of a non-Newtonian fluid with Heat Transfer.
2. Tauseef Aslam (2007) Slip Flow on a stretching surface in a rotating Frame.
3. Muhammad Awais (2007) Analytic solution for thin film flow of a fourth-grade fluid.
4. Muhammad Ali (2007) Flow of a third-Grade fluid with variable viscosity.
5. Muhammad Naseer (2007) Unsteady flows of non-Newtonian fluid with Heat transfer.
6. Mahvish Naz (2008) Boundary Layer Flow Due to Stretching Sheet.
7. Noreen Sher Akbar (2008) The effects of variable fluid properties in a uniform tube with peristalsis.
8. Sajida Bano (2008) An oscillatory hydromagnetic third grade fluid in a rotating system.
9. Saeed Ahmad Rajput (2008) Flow and heat transfer due to an exponential stretching sheet.
10. Ansa Rafique (2008) Influence of heat transfer on thin film flow of a third-grade fluid with variable viscosity.
11. Iffat Zehra (2008) Effects of Heat transfer on MHD flow of an Oldroyd-B fluid between eccentric rotating disks with variable viscosity.
12. Majid Hussain (2009) Stagnation point flow of a Micropolar fluid towards a stretching sheet: an analytic solution.
13. Tabinda Naz (2009) Closed form solution to a second order boundary value problem and its applications in peristalsis.
14. Naheeda Bibi (2009) Influence of heat transfer on peristaltic flow of a non-Newtonian fluid in a vertical annulus.
15. Ziafat Mehmood (2009) Stagnation flow towards a shrinking sheet.
16. Naeem Faraz (2009) Flow of a non-Newtonian fluid film on a stretching surface.
17. Shela Zaheer (2010) Boundary layer flow of a non-Newtonian fluid over an exponentially stretching surface.
18. Bushra Tahir (2010) Stagnation point flow of a non-Newtonian fluid.
19. Haleema Sadia (2010) Flow of a non-Newtonian fluid with Reynolds and Vogel’s models of viscosity.
20. Aziz-ur-Rehman (2010) Study of stokes first and second problem.
21. Sajjad Shaukat (2010) Solution of differential equation by variational method.
22. Abdul Rehman (2010) Annular axisymmetric stagnation flow of a non-Newtonian fluid on moving cylinder.
23. Salman Saleem (2010) Mixed convection flow of a non-Newtonian fluid on a rotating cone.
24. Asif Shahzad (2010) The Falkner Skan flow with variable viscosity.
25. Uzma Batool (2011) Peristaltic flow in a rectangular duct.
26. Rizwan Ul Haq (2011) MHD flow due to shrinking sheet: An analytical solution.
27. Farhan Ahmad (2011) Mixed convection flow near the stagnation point on a vertical surface.
28. Sadaf Moin (2011) Peristaltic flow of six constant Jeffrey fluid in an asymmetric channel.
29. Syed Tayyab Hussain Shah (2012) Flow of two-dimensional Williamson fluid.
30. Farhan Yousaf (2012) Stagnation flow in a circular cylinder.
31. Syed Waqar Hussain Shah (2012) The study of non-Newtonian fluid in a slowly deforming channel.
32. Sehrish Abbas (2012) Peristaltic flow of non-Newtonian fluid through porous boundaries.
33. Sidra-tul-Muntha (2012) The study of peristaltic flow in a rectangular duct.
34. Aqeela Shaheen (2012) Peristaltic flow of non-Newtonian fluid with variable viscosity.
35. Shagufta Ijaz (2012) Blood flow in tapered arteries.
36. Hina Sadaf (2012) Peristaltic flow in vertical annulus.
37. Taimoor Salahudin (2012) Study of Peristaltic flows of non-Newtonian Fluids.
38. Samina Tasleem (2013) Mathematical study of arterial blood flow.
39. Nuzhat Irshad (2013) Theoretical study of peristaltic flow in an annulus.
40. Wajeeha Sundas (2013) Steady flow of natural convection due to stretching cylinder.
41. Fauzia Bibi (2013) Unsteady flow over a rotating stretchable Disk
42. Bushra Sarfraz (2013) Boundary Layer flow of mixed convection heat transfer over a stretching wedge.
43. Shazia Parveen (2013) Blood flow through a tapered overlapping stenosed artery.
44. Misbah Ijaz (2013) Flows of couple stress fluid.
45. Aashibah Ghazal (2014) Blood flow of non-Newtonian fluid through catheterized arteries.
46. Syeda Anum Fatima (2014) Electroosmotic flow of non-Newtonian fluid.
47. Amna Munim (2014) Flow of non-Newtonian fluid due to ciliary motion.
48. Iqra Shahzadi (2014) Mathematical Analysis for peristaltic flow in a curved channel
49. Fiaz Ur Rehman (2014) Theoretical study of exponentially stretching problem.
50. Tanzila Hayat, (2014) Stagnation flow and heat transfer towards a convectively heated stretching surface.
51. Sadia Akbar (2014) Study of nano liquid film over a stretching surface.
52. Sadaf Masood (2015) Study of rotating nanofluid.
53. Samia Maqbool (2015) Mathematical study of cilia.
54. Arif Ullah Khan (2015) Analysis of unsteady stagnation point flow.
55. Zahid Ahmed (2015) Study of Ag-water and Cu-water nanofluids.
56. Sumaira Mehboob (2015) Heat transfer Analysis of Williamson Fluid.
57. Noor Muhammad (2015) Boundary Layer Flow over a vertical plate with new Roseland thermal radiation.
58. Maryam Subhani (2015) Unsteady Flow and heat transfer over an exponentially stretching surface.
59. Komal Ansar (2015) Effects of induced magnetic field for peristaltic flow of Williamson fluid in a curved channel.
60. Aroosa Naseer (2016) Non-Newtonian Fluid through Channel with Corrugated Walls.
61. Madihal Rashid (2016) Thermo-Solutal Nanofluid Flow by Exponential Streching Sheet with Thermal Radiation.
62. Iram Rashid (2016) Study of Blood Flow through Tapered Elastic

Artery.

1. Uzma Bano (2016) Effects of induced Magnetic Field on the Boundary Layer Flow Due to a Moving Wedge.
2. Iram Naz (2016) Series Solution for Three-Dimensional Stagnation Point Flow.
3. Fouzia Rehman (2016) Analysis of Three Dimensional Hydromagnetic Flow with Heat Transfer.
4. Naseem Ullah Khan (2017) Stagnation Region of an Impulsively Rotating Sphere.
5. Arsalan Hayyat (2017) Flow over an Exponentially Stretching Surface with Cattaneo-Christove Heat Flux.
6. Shafiq Ahmad (2017) Computational Study of Falkner-Scan Problem For a Static and Moving Wedge.
7. Nadeem Abbas (2017) Theoretical Study of Steady Three-Dimensional Stagnation Point Flow of Micropolar Nanofluid Past a Cylinder.
8. Sanam Iftar (2017) Trapping Study of Nanofluids with Cilia.
9. Sadia Waheed (2017) Streamline Topologies of two-dimensional peristaltic flow with nanofluid and mixed convection.
10. Iram Raishad (2017) MHD flow of SWCNTs- Nanofluid under slip conditions.
11. Maryam Hussain (2017) Study of MHD Jeffrey Fluid Flow over a stretching surface.
12. Naeem Ullah (2017) MHD study three-dimensional stagnation point flow of a nanofluid past a circular cylinder.
13. Naveed Ahsan (2018) Streamlines topologies of peristaltic flow of non-Newtonian fluid and their bifurcations.
14. Muhammad Naveed Khan (2018) Theoretical investigations of unsteady forced convection slip flow of exponentially stretching sheet.
15. Usama (2018) Boundary Layer flow of nanofluid over a curved stretching surface.
16. Khadija Ali Shah (2018) Influence of heat transfer on peristaltic flow of Bingham fluid.
17. Muzammil Ayub (2018) Blood flow through curved artery with Stenosis.
18. Sana Suleman (2018) Flow of Nano fluid through bifurcated artery.
19. Muhammad Riaz Khan (2019) Oblique Stagnation Point Flow of Viscous nanofluid over a stretching surface.
20. Saba Safdar Keyani (2019) Study of Ciliary flow in a curved channel
21. Naseer Muhammad Khan Numerical Solutions of Maxwell Fluid with double slip
22. Ayesha Saddiqa (2019) Peristaltic flow of Compressible Fluid.
23. Wajiha sabih (2019) Fluid flow past an deformable cone.
24. Muhammad Israr-Ur-Rahman (2020) Analysis of an isotropic slip on three dimensional flow of nano fluids.
25. Mishal Nayab kiani (2020) Theoretical investigation of microvascular non-Newtonian blood flow.
26. Aleesha Qaiser (2020) Cilia induced compressible flow in a microfluidic channel.
27. Asma Amin (2020) Influence of Partial Slip on the stagnation point flow of micropolar nano fluid.
28. Farrah Sajid (2020) Effects of SWCNT and MWCNT on the flow of micropolar hybrid nano fluid over a curved stretching surface with induced magnetic field.

**Research Interests**

Newtonian and non-Newtonian Fluids, Peristaltic flows, flows in arteries, flows in porous medium, Stretching Problems in Newtonian and non-Newtonian Fluid Mechanics, Magnetohydrodynamic flows, Unsteady flows, Micropolar fluids, Homotopy Analysis Method, Optimal Homotopy Analysis Method, Solutions of PDE’s using Analytical Techniques, Fractional Models, Blood Flow through arteries.

### Courses Taught

Calculus (I, II, III), Linear Algebra, Applied Engineering Mathematics, Discrete Mathematics, Numerical Computation, Business Mathematics, Ordinary Differential Equations.

**M.Sc. Level Courses**

Fluid Mechanics-I, Fluid Mechanics-II, Ordinary Differential Equation, Numerical Analysis, Partial Differential Equations, Integral Equations**,** Advance Calculus, Optimization Theory

**M. Phil/ Ph.D. Level Courses**

Basic Theory of Fluids, Advance Partial Differential Equations, Mathematical Techniques for Boundary Value Problem, Advance Mathematical Methods, Group Methods for Differential Equations.

**Conferences Attended**

Few conference are listed

1. 25th International Nathiagali Summer College 2000 at Muree Bhurban Pakistan.
2. International Conference on “Application of Group Theoretic Methods” at Math. Department of Quaid-I-Azam University Islamabad Pakistan.
3. 26th International Nathiagali Summer College 2001 at Muree Bhurban Pakistan.
4. Introductory workshop on mathematical modeling and its application to development issues. Arranged by GCISC from 29th Oct. to 2 Nov. at Islamabad Pakistan.
5. International conference on “Models and Methods in Fluid Mechanics”. Arranged by Mathematics Department COMSTAS on 23rd June, to 27th June 2003 held at COMSATS Abbottabad Pakistan.
6. 2nd International conference on “Models and Methods in Fluid Mechanics”. Arranged by Mathematics Department COMSTAS Islamabad 2005.
7. 3rd International conference on “Models and Methods in Fluid Mechanics”. Arranged by Mathematics Department COMSTAS Islamabad 2006.
8. First international conference on “Recent Developments in Fluids” arranged by Fluid Mechanics Group department of Mathematics Quaid-i-Azam University Islamabad, Pakistan.
9. 4th International conference on “Models and Methods in Fluid Mechanics”. Arranged by Mathematics Department COMSTAS Islamabad 2007.
10. Second international conference on “Recent Developments in Fluids” arranged by Fluid Mechanics Group department of Mathematics Quaid-i-Azam University Islamabad, Pakistan.
11. 4th International conference on “Models and Methods in Fluid Mechanics”. Arranged by Mathematics Department COMSTAS Islamabad 2007.Second international conference on “Recent Developments in Fluids” arranged by Fluid Mechanics Group department of Mathematics Quaid-i-Azam University Islamabad, Pakistan.
12. Third international conference on “Recent Developments in Fluids” arranged by Fluid Mechanics Group department of Mathematics Quaid-i-Azam University Islamabad, Pakistan
13. Peristaltic flows in a rectangular duct” presented in Computational sciences and engineering department Yonsei University Seoul, South Korea.
14. ICM 2014 Held in South Korea August 2014.
15. Two days international workshop on Recent Advances in computational fluid dynamics May 28-29, 2015 at COMSATS Islamabad, Pakistan.
16. CASM conference on Qualitative and Quantitative Techniques for Differential Equations and Applications, Arranged by LUMS Lahore June 4-6, 2015.

**Seminars Delivered**

1. On MHD flow of a third-grade fluid on an oscillating porous plate on 12th

December 2001 at Mathematics department Quaid-i-Azam University Islamabad Pakistan

1. An oscillating Hydromagnetic non-Newtonian flow in a rotating system on 5th

March 2002 at Mathematics department Quaid-i-Azam University Islamabad Pakistan

3 Analytic Solutions of Stokes second problem in Second grade fluid on 11th March 2002 at Mathematics department Quaid-i-Azam University Islamabad Pakistan

1. Existence of Solution in case of Resonance and Blowing in “International Conference on Models and Methods in Fluid Mechanics” on 23rd June, to 27th June 2003 held at COMSATS Abbottabad Pakistan.
2. Exact solutions of rotating hydromagnetic flows of second grade fluids on 29th October 2003 at mathematics department COMSATS Institute of Information Technology Abbottabad Pakistan.
3. Solutions of Non-linear equations arising non-Newtonian Fluid Mechanics using Homotopy analysis Method on June 2004 at mathematics department COMSATS Institute of Information Technology Abbottabad Pakistan.
4. Unsteady flow of a second-grade fluid over a stretching sheet with partial slip in “International Conference on Models and Methods in Fluid Mechanics” on 4th July, to 6th July 2005 arranged by COMSATS institute of Information Technology Islamabad, Pakistan.
5. Generalized non-Newtonian fluids “International Conference on Models and Methods in Fluid Mechanics” July 2006 arranged by COMSATS institute of Information Technology Islamabad, Pakistan.
6. Adomian decomposition method and its applications in peristalsis “Second international conference on “Recent Developments in Fluids” arranged by Fluid Mechanics Group department of Mathematics Quaid-i-Azam University Islamabad, Pakistan.
7. Peristaltic flows in rectangular duct “presented in Department of Computational sciences and engineering” Yonsei University Seoul South Korea in summer 2011.
8. Convective heat transfer and MHD flow in the presence of Carbon nanotubes over a stretching surface, ICM 2014, South Korea.
9. Applications of nano fluids in fluid mechanics, presented in Two days international workshop on Recent Advances in computational fluid dynamics May 28-29, 2015 at COMSATS Islamabad, Pakistan.
10. Optimal HAM solutions of differential equations in fluid mechanics, CASM conference on Qualitative and Quantitative Techniques for Differential Equations and Applications, Arranged by LUMS Lahore June 4-6, 2015.

**Research Projects**

1. **Influence of heat transfer on the peristaltic motion of non-Newtonian fluids with different flow geometries. One research project completed 2011 (donor Agency HEC more than 1 Million)**
2. Study of peristaltic flow problem with different nano models **2017-2019(amount is more than 2 million completed)**

**International Assignment**

**Member Editorial Boards**

* 1. *Alexandria Engineering Journal*
	2. *Physica Scripta*
	3. *Journal of nano fluids (American Scientific Publishers)*
	4. *Universal Journal of Applied Mathematics (Horizon Research)*
	5. *Probe Mathematics and Mathematical Sciences (Universe Scientific Publishing)*
	6. *Physics & Astronomy International Journal*

Reviewer Of International Journals

Reviewer of more than 200 journals some are listed below

* 1. Journal of Porous media
	2. Physics Letter A
	3. International Journal for numerical methods in fluids.
	4. Communications in non-linear science and numerical simulations
	5. International Journal of Heat and mass transfer.
	6. Numerical methods for partial differential equations.
	7. Zeitschrift fuer Naturforschung A
	8. Taiwan Journal of Chemical Engineering.
	9. Mathematical and Computer Modeling.
	10. Journal of Advance research in scientific computing.
	11. Journal Mathematical problem in engineering
	12. Journal Quertly of Applied Mathematics
	13. Journal Asian pacific journal of chemical engineering
	14. Chemical engineering communications.
	15. Computers and mathematics with applications.
	16. Journal of Viberation and Control
	17. Journal of Aero Space Engineering
	18. Nonlinear Science Real worl applications
	19. Acta Mechanica Sinica
	20. Meccanica
	21. Applied Mathematics and Mechanics
	22. Mathematical Methods in Applied Sciences
	23. Reviewer of Research grants council of Hong Kong
	24. American Mathematical reviews
	25. Journal of Biomechanics
	26. Applied Mathematics Letters
	27. International journal of Biomathematics
	28. TamKang journal of science and engineering
	29. International journal of Computer Mathematics
	30. Chinese physics letter
	31. AJSE-Mathematics Journal
	32. International journal for Nonlinear science real world Applications
	33. Mathematical Biosciences.
	34. Brazilian Journal of Chemical Engineering
	35. Journal of Applied Mathematics
	36. Ain Shams Engineering Journal
	37. International journal of Physical Sciences
	38. Engineering Analysis with Boundary Elements
	39. Experimental Thermal and Fluid Science