Curriculum Vitae

Dr. Zaheer Asghar

Assistant Professor at Department of Physics and Applied Mathematics &
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QUALIFICATION

Degree (University)	:	**Ph.D (International Islamic University, Islamabad, Pakistan)**
Majors (Completed On):		**Applied Mathematics (21-09-2016)**
Research Work	:	**Five ISI Journal Publications**

Degree (University)	:	**M. Phil (Quaid-i-Azam University, Islamabad, Pakistan)**
Percentage	:	**90%**/A
Majors (Session)	:	**Applied Mathematics (2008-2010)**
Research Work	:	**Two ISI Journal Publications**

Degree (University)	:	**M.Sc (Quaid-i-Azam University, Islamabad)**
Percentage	:	**88.7%**/A
Majors (Session)	:	**Applied Mathematics (2006-2008)**

List of Positions

- Working as a Assistant Professor at Department of Physics and Applied Mathematics & Centre for Mathematical Sciences (CMS), PIEAS Islamabad, March 12, 2019.
- Worked as Deputy Coordinator PhD Program at Department of Physics and Applied Mathematics, PIEAS from April to October, 2019.
- Worked as a Junior Scientist(17 Dec, 2012-Nov, 2017)/Sr. Scientist (Dec 17-Dec18) at Karachi Institute of Power Engineering (**KINPOE**) in the faculty of Power Engineering.
- Worked as a **Lecturer** (10 Aug, 2010 to 16 Dec, 2012) in the Engineering Sciences Dept. of Army Public College of Management & Sciences (**APCOMS**), Rawalpindi Cantt.
- Worked as a **Visiting Lecturer** (spring, summer & fall semesters, 2012) in the Dept. of Mathematics and Dept. Computer Science, Female Campus, IIU, Islamabad, to teach M.Sc and BS classes.

Supervision/Co-Supervision

- Supervised an MS Thesis entitled "Perturbation solutions of the flow of Newtonian fluid with convective heat/mass transfer and nonlinear coupled kinetics equations" at **KINPOE**
- Provided co-supervision in MS thesis with the following titles
  - (a) Neutronic modeling of Molten Salt Reactor
  - (b) Neutronic modeling of coupled burn-up and diffusion in nuclear reactor system at **KINPOE**

List of Publications

- Zaheer Asghar, Nasir Ali, Mixed convective heat transfer analysis for the peristaltic transport of viscoplastic fluid: Perturbation and numerical study, *AIP Advances*, 9, **(2019)** 095001. **(I.F. 1.653)**

- **Z. Asghar**, N. Ali, Analysis of mixed convective heat and mass transfer on peristaltic flow of Fene-P fluid with chemical reaction, *J. of Mechanics*, Vol 32, Issue (01), **(2016)** 83-92.**(I.F. 0.74)**
- **Z. Asghar**, N. Ali, Streamline topologies and their bifurcations for mixed convective peristaltic flow, *AIP Advances*, Vol 5, Issue (9), **(2015)** 097142. **(I.F. 1.653)**
- **Z. Asghar**, N. Ali, Peristaltic transport of Visco-Elasto-Plastic fluids in a planar channel, *ZNA*, Vol 70, Issue (8), **(2015)** 593-603. **.(I.F. 1.432)**
- N. Ali, **Z. Asghar**, An Analysis of peristaltic flow of Finitely Extendable Nonlinear Elastic-Peterlin fluid in two dimensional planar channel and axisymmetric tube, *ZNA*, Vol 69, Issue (8-9), **(2014)** 462-472. **(I.F. 1.432)**
- **Z. Asghar**, N. Ali, Slip effects on streamline topologies and their bifurcations for peristaltic flows of a viscous fluid, *Chinese Physics B*, Vol 23, Issue 3, **(2014)** 064701. **(I.F. 1.321)**
- T. Hayat, Z. Asghar. S. Asghar, S. Mesloub, Influence of inclined magnetic field on peristaltic transport of fourth grade fluid in an inclined asymmetric channel, Journal *of Taiwan Inst. of Chem Engineers*, Vol 41, (2010) 553-563. **.(I.F. 3.849)**
- T. Hayat, S. Asghar, Heat transfer analysis on the peristaltic motion with slip effects, *ZNA,* Vol 65, (2010) 697-704. **.(I.F. 1.432)**