DR. LIAQAT ALI

**PROFESSOR,
HEC APPROVED SUPERVISOR**

PROFILE

CAREER OBJECTIVE

To obtain a teaching position that will allow me to utilize my excellent skills and knowledge of Mathematics for the development of science and

CONTACT

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CNIC # 17301-5233718-7
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EDUCATION

**Ph.D. IN APPLIED MATHEMATICS
ABDUL WALI KHAN UNIVERSITY, KPK, PAKISTAN**
12- Nov- 2012 – 28-Nov-2017, CGPA: 3.45,
SUBJECTS: Optimization thery-1, Viscus Fluid, Geometric function theory, Numerical solution of ODEs, Numerical solution of PDEs, Computational Fluid Dynamics

**M.S. IN MATHEMATICS
FAST NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES**
01-Jun-2008- 10-Jun-2010, CGPA: 3.07,
SUBJECTS: Functional Analysis, Advance Number Theory, Algebraic topology, Advanced Algebra, Adv. Numerical Methods for Ord. Diff. Eqs, Advance Fuzzy Methods and Application, Infinite Group Theory, Advance Mathematical Statistics, Academic Writing (English)

WORK EXPERIENCE

**TEACHING EXPERIENCE:
IQRA NATIONAL UNIVERSITY, KPK, PAKISTAN:
PROFESSOR**
01.Sep-2019–to date
Teaching

**CECOS UNIVERSITY OF COMPUTER AND EMERGING SCIENCES, KPK, PAKISTAN,
ASSOCIATE PROFESSOR.**
28. Sep-2005–30. Aug-2019
Teaching

**FAZAIA DEGREE COLLEGE, PAF, BASE PESHAWAR, PAKISTAN
LECTURER:**
15. Sep-2003–15. Sep -2004.
Teaching

**ARMY DEGREE COLLEGE PESHAWR, PAKISTAN;
LECTURER**
18. Oct-2001–01. Oct-2003,
Teaching

SUBJECTS TAUGHT:
Calculus, Multi variable Calculus, Numerical Analysis, Business Mathematics, Linear Algebra, Vector Analysis, Differential Equations both ODE's & PDE's, Analytic Geometry, Real Analysis, Complex Analysis and Transforms, Probability and Statistics, Numerical Analysis with Mathematica and MATLAB.

RELATED EXPERIENCE

Faculty Room Facilitator, August 2005 - August 2007.
- Planned and organized out station recreation tours for Faculty.
- Facilitated faculty within campus recreation programs.

Social growth facilitator/Discipline
- Head of the disciplinary committee grand yearly function CECOS University 2007.
- Food and refreshment organizer Entry test gathering CECOS University ,2006 & 2007
- Canteen Organizing committee member. (2009)

Proctorial Board
- Chief Proctor of the teacher proctorial board, October 1997 -2000.
Hayatabad Science College Peshawar.
- Staff Proctor of proctorial board,2006- CECOS University of Engineering and IT

Student Hostel Warden
- Peshawar Public School and college Peshawar 1993-1996.

CERTIFICATIONS:

- Faculty Training & Development Program, CECOS University of Engineering & IT, March 2008 – May 2008.
- Workshop on Computational Mathematics, summer camp 2005
- Thafseer QURAN KAREEM,
- Thafheem Dean Academy Hayatabad Peshawar 2010.
- The National Cadet Corps Pakistan Army.
- Social Work Program

AWARDS AND PROFESSIONAL DEVELOPMENT:
- Achievement April, 2016

SKILLS

RESEARCH:

- Projective special linear transformations acting on the relative quadratic extension field over a finite field.
- Analytical Solutions of Boundary value problems
- Numerical Analysis
- Mathematical Modeling
- Applied Mathematics

COMPUTER:
Microsoft Word, Microsoft Word Perfect, Mathematica, Latex software. MATLAB

PUBLICATIONS:

1. L. Ali, I. Islam, T. Gul, A Simple Algorithm for exact solution of systems of linear and nonlinear integro-differential equations, Applied Mathematics and Computation 307 (2017) 311-320. Impact Factor (3.092)

2. L. Ali, I. Islam, T. Gul, I. Khan, L. C. C. Dennis, W. Khan, A. Khan, The Brownian and Thermophoretic

Analysis of the Non-Newtonian Williamson Fluid Flow of Thin Film in a Porous Space over an Unstable Stretching Surface, Appl. Sci. 7 (2017) 404; doi:10.3390/app7040404 Impact Factor (2.217)

3.   L. Ali, S. Islam, T. Gul, A. Alshomrani, I. Khan, A. Khan, Magnetohydrodynamics thin film fluid flow under the effect of thermophoresis and variable fluid properties, American Institute of Chemical Engineering Journal (AIChE Journal) (2017), DOI: 10. 1002/aic.15794 Impact Factor (3.463).

4.   F. Ghani, S. Islam, C. Ozel, L. Ali, M. M. Rashidi. Application of Modified Optimal Homotopy Perturbation Method Higher Order Boundary Value problems
in a Finite Domain, Hacettepe Journal of Mathematics and Statistics 45 (2016) 1049-1060. Impact Factor: 0.433

5.   L. Ali, I. Islam, T. Gul, I. Khan, L. C. C. Dennis, New Version of Optimal Homotopy Asymptotic Method for the solution of nonlinear boundary value problems in finite and infinite intervals, Alexandria Engineering Journal 55 (2016) 2811-2819. Impact Factor: 3.696

6.   N. Khan, S. Islam, T. Gul, I. Khan, W. Khan, L. Ali, Thin film flow of a second grade fluid in a porous medium past a stretching sheet with heat transfer, Alexandria Engineering Journal, (2018), 57, 1019-1034, doi.org/10.1016/j.aej.2017.01.036. Impact Factor: 3.696.
7.   Fareesa Thahir, Taza Gul, Saeed Islam, Zahir Shah, Aurangzeb Khan, Waris Khan, Liaqat Ali and Muradullah, Flow of a Nano-Liquid Film of Maxwell Fluid with Thermal Radiation and Magneto Hydrodynamic Properties on an Unstable Stretching Sheet, j. Nanofluids 6 (2017) 1021-1030, Impact Factor: 1.79.

8.   Liaqat Ali , Saeed Islam, Taza Gul, Aurangzeb Khan, Ali Saleh Alshomrani, Muradullah, A New Analytical Approach for Solving Nonlinear Boundary Value Problems Arising in Nonlinear Phenomena, FILOMAT 32 (7) (2018), 2489-2497, Impact Factor: 0.789.

9.   Liaqat Ali , Saeed Islam, Taza Gul, Muhammad Altaf Khan, Ebenezer Bonyah, Solutions of nonlinear real world problems by a new analytical techniques , Heliyon, 4 (11) (2018), Impact Factor: 1.650.

10.   Muhammad Naeem, Sher Muhammad, Syed Asif Hussain, Zaheer Ud Din, Liaqat Ali, Applying homotopy type techniques to higher order boundary value problems, Punjab University of Mathematics, (ISSN 1016-2526) 51(1) , 2019, 127-139

11.   Liaqat Ali , Saeed Islam, Taza Gul, Muhammad Altaf Khan, Ebenezer Bonyah,,An Improved form of Optimal Homotopy Asymptotic Method for the Solution of a system of Nonlinear coupled differential Equations Occurring in the Phenomenon of Fluid Mechanics, AIP Conference Proceedings 2116, 300006 (2019); https://doi.org/10.1063/1.5114306.

12.   Liaqat Ali , Saeed Islam, Taza Gul, Modified Optimal Homotopy Perturbation Method to Investigate Jeffery-Hamel Flow, Punjab University of Mathematics, Punjab University Journal of Mathematics, (ISSN: 1016-2526) 51 (11) (2019), 17-29.

13.   Liaqat Ali, Saeed Islam, Taza Gul, Solution of Nonlinear problems by a New Analytical technique using Daftardar-Gejji and Jafari Polynomials, Advances in Mechanical Engineering, 11, 2019, 1-10 Impact Factor: 1.024.

14.   Liaqat Ali, Asifa Tassaddiq, Rohail Ali, Saeed Islam, Taza Gul, Poom Kumam , Safyan Mukhtar, Noor Saeed Khan , and Phatiphat Thounthong A new analytical approach for the research of thin-film flow of magneto hydrodynamic (MHD) fluid in the presence of thermal conductivity and variable viscosity, ZAMM - Journal of Applied Mathematics and Mechanics, 2020 ;e201900292. https://doi.org/10.1002/zamm.201900292. Impact Factor: 1.103.

15.   Ali L, Khan NS, Ali R, Islam S, Kumam P, Thounthong P. Novel insights into the computational techniques in unsteady MHD second-grade fluid dynamics with oscillatory boundary conditions. Heat Transfer. 2020;1–23.

https://doi.org/10.1002/htj.21989

16.   Noor Saeed Khan ,Liaqat Ali ,Rohail Ali ,Poom Kumam ,Phatiphat Thounthong. A novel algorithm for the computation of systems containing different types of integral and integro-differential equations, Heat Transfer, 7 December, 2020,   https://doi.org/10.1002/htj.22018