CURRICULUM VITAE

PERSONAL DATA

i. Name   : **Dr. ARSHAD KHAN**

ii. Passport No.   : WE4100094

iii. Date of Birth   : April 04, 1976

iv. Nationality   : Pakistani

v. Religion   : Islam

vi. Gender   : Male

vii. Marital Status   : Married

viii. Present Address: Institute of Computer Sciences and Information Technology, The University of Agriculture, Peshawar, KPK, Pakistan.

ix. Permanent Home address: Mohallah Sulaiman Khel, Village Badrashi,Tehsil and Distt Nowshera,P/O Nowshera Cantt,KPK Pakistan

i. Hand phone No.   : 00923339022886

ii. E-mail   : **arshadkhan@aup.edu.pk, arshmaths@gmail.com**

ACADEMIC AWARD

Best Student Award (Gold Medal)

The University Teknology Malaysia's graduate study academic committee has conferred **Best Student Award (Gold Medal) Doctor of Philosophy Mathematics** based on excellent academic achievement in conjunction with the 56th Convocation Ceremony 2016.

HEC GRANT: 0.3 MILLION

ACADEMIC QUALIFICATION

i. Degree	:	Doctor of Philosophy (PhD) (Mathematics)
Field	:	Mathematics
Duration	:	Feb 2013- Dec 2015
Name and Place of Institution	:	Universiti Teknologi Malaysia, Johor Bahru.
ii. Degree	:	Master of Philosophy (M. Phil) (Pure Mathematics)
Field	:	Algebra, Functional Analysis, Fuzzy Therory
Duration	:	2008- 2010
Name and Place of Institution	:	FASTNU Islamabad Pakistan.
iii. Degree	:	Master of Science (M. Sc) (Pure Mathematics)
Field	:	Topology, Group theory, Linear Algebra
Duration	:	1998- 2000
Name and Place of Institution	:	University of Peshawar Pakistan.
iv. Degree	:	Bachelor Science (B. Sc)
Field	:	Mathematics and Physics
Duration	:	1995- 1997
Name and Place of Institution	:	University of Peshawar, KPK Peshawar, Pakistan.
v. Degree	:	Bachelor of Education (B. Ed)
Field	:	Mathematics and Physics
Duration	:	1999- 2000
Name and Place of Institution	:	Allama Iqbal Open University Islamabad, Pakistan.

TEACHING/RESEARCH EXPERIENCE

- **HEC Approved Supervisor**

- **Assistant Professor:** Institute of Computer Sciences and IT, The University of Agriculture, Peshawar, KPK, Pakistan. January 2018 till date.

- **Associate Professor:** Faculty of Science, Department of Computer Science &IT, Sarhad University of Science & IT, Peshawar, KPK, Pakistan. April 2017 to January 2018.

- **Assistant Professor:** Faculty of Science, Department of Computer Science &IT, Sarhad University of Science & IT, Peshawar, KPK, Pakistan. January 2016 to March 2017.

- **Lecturer**: Department of Mathematics, December 2006 to January 2016. Northern University, Nowshera, Pakistan.

- **Lecturer**: Department of Mathematics Fazaia Degree College Risalpur, KPK Pakistan, December 2001 to December 2006.

MEMBERSHIP
- Member of Senate, The University of Agriculture, Peshawar.
- Member of Academic Council of Sarhad University of Science and IT, Peshawar.
- Member of Board of Studies, Sarhad University of Science and IT, Peshawar.
- Member of selection committee to take interview and demonstration (IBMS), The University of Agriculture, Peshawar.
- Member of Board of Faculty (Sciences and Information Technology), City University of Science and Information Technology, Peshawar.
- Member of Board of Advanced Studies and Research (BASAR), Department of Management Sciences and Mathematics. City University of Science and Information Technology, Peshawar.

COURSES TAUGHT

1. Calculus
2. Linear Algebra
3. Business Mathematics
4. Engineering Mathematics-I
5. Engineering Mathematics-II
6. Numerical Analysis
7. Advanced Calculus
8. Ordinary Differential Equations
9. Partial Differential Equations

10. Topology

11. Functional Analysis

12. Group Theory

LANGUAGES

- English, Urdu, Pushto,

COMPUTER SKIL

- Internet, Mathematica, Scientific Workplace, MathCad, Latex, MS Office .

SUPERVISION OF POSTGRADUATE MASTER STUDENTS

As a Main Supervisor

(1)   Dolat Khan

   Degree: Master of Science (MS)

   Mode: Research

   Topic of Research: Natural Convection Flow of Brinkman Type Fluids with Ramped Wall Temperature.

(2)   Faizan Khan

   Degree: Master of Science (MS)

   Mode: Research

   Topic of Research: Analytical Solutions of Newtonian and Non-Newtonian Fluids

(3)   Gohar Ali

   Degree: Master of Science (MS)

   Mode: Research

   Topic of Research: A Generalized magnetohydrodynamic Two Phase Free Convection Flow of Fluid Dusty Casson Fluid Flow Between Parallel Plates.

(4)   Junaid Khan

   Degree: Master of Science (MS)

   Mode: Research

   Topic of Research: Radiation Effects on MHD Natural Convection Flow past   an Oscillating Plate with Ramped Wall Temperature.

(5)   Zeshan Khan

Degree: Master of Science (MS)

Mode: Research

Topic of Research: Exact Analysis of Unsteady Free Convection Flow of Visco-elastic Fluid in a Rotating Frame

(6)   Faheem Shah

Degree: Master of Science (MS)

Mode: Research

Topic of Research: Exact Solutions of Unsteady Natural Convection Flow with Newtonian Heating.

(7)   Anees Ur Rehman

Degree: Master of Science (MS)

Mode: Research

Topic of Research: Stokes Problems for Transient Flow of Brinkman Type Fluid between Two Side Walls over an Infinite Plate

(8)   Nabeel Khan

Degree: Master of Science (MS)

Mode: Research

Topic of Research: Heat Transfer in Vertically Oscillating Cylinder Filled with Casson Fluid.

(9)   Anees Imtiaz

Degree: Master of Science (MS)

Mode: Research

Topic of Research: Heat Transfer Analysisin Two Phase Model for Blood Flow with Magnetic Particles in Cylindrical Tube: A Caputo Fabrizio Fractional Model.

As a Co Supervisor

(1)   Mansoor Amir

Degree: Master of Science (MS)

Mode: Research

Topic of Research: Network Traffic Classification Using Bat Artificial Neural Network

(2)   Junaid Bakhsh

Degree: Master of Science (MS)

Mode: Research

Topic of Research: Group Task Classification In Cultural Activity Attan Using Long Short-Term Base Convolutional Neural Network

(3)   Shah Room

Degree: Master of Science (MS)

Mode: Research

Topic of Research: Spiking Neural Network Approach For Detection Of Breast Cancer From Histopathology Images

(4)   Riaz Ud Din

Degree: Master of Science (MS)

Mode: Research

Topic of Research: Temperature Aware Energy- Efficient Routing Scheme For Wireless Body Area Network

(5)   Fatima Pervez

Degree: Master of Science (MS)

Mode: Research

Topic of Research: Enhanced Learning Rate of Elman Neural Network Using Sine Cosine Algorithm

(6)   Mohammad Fawad Mian

Degree: Master of Science (MS)

Mode: Research

Topic of Research: Bat Optimization Algorithm Using Jordan recurrent Neural Network

Book Chapter Published: A book chapter1: Effects of wall shear stress on unsteady MHD conjugate flow in porous medium with ramped wall temperature, ***Advances in Boundary Layer Flow and Heat Transfer,*** **UTM Malaysia**

AREA OF RESEARCH

- Applied Mathematics, Fluids Mechanics, Heat and Mass Transfer, Mathematical Modeling.

- Exact Solutions for Linear boundary problems by Laplace transform method.

- Numerical Solutions for linear and non linear PDE,S by using Finite Difference Scheme.

- Numerical solutions of boundary values problems by using Keller Box method.

- Solution for non linear fluids problems by using Runge-Kutta-Fehlberg Method (RKFM) and RK4 Method.

- Computational fluid dynamics.

PUBLICATIONS

1. Mohammed Abdulhameed, Ilyas Khan, **Arshad Khan**, & Sharidan Shafie, Closed-form solutions for unsteady magnetohydrodynamic flow in a porous medium with wall transpiration, Journal Porous Media (ISI Indexed, **I.F 0.467**), 16(9), 795-809(2013).

2. I. Khan, **A. Khan**, A. Farhad, M. Qasim, and S. Sharidan, Unsteady Hydromagnetic Rotating Flow through an Oscillating Porous Plate Embedded in a Porous Medium, Mathematical Problems in Engineering (ISI Indexed, **I.F 1.082**) (2013) 8 pages.

3. **Arshad Khan**, Ilyas Khan**,** Farhad Ali, Sami Ulhaq and Sharidan Shafie, Effects of wall shear stress on unsteady MHD conjugate flow in a porous medium with ramped wall temperature, PLoS ONE, (ISI Indexed, **I.F 3.234, Q1**) **,** 9(3) (2014) 1-12

4. **Arshad Khan**, Ilyas Khan, Farhad Ali and Sharidan Shafie, Effects of wall shear stress on MHD conjugate flow over an inclined plate in a porous medium with ramped wall temperature, Mathematical Problems in Engineering (ISI Indexed, **I.F 0.762**) (2014) 15 pages, http://dx.doi.org/10.1155/2014/861708.

5. **Arshad Khan**, Ilyas Khan, Farhad Ali and Sharidan Shafie, A Note on Entropy Generation in MHD Flow over a Vertical Plate Embedded in a Porous Medium with Arbitrary Shear Stress and Ramped Temperature, Journal of Porous Media (ISI Indexed, **I.F 1.144**)(2016).

6. Asma Khalid, Ilyas Khan, **Arshad Khan** and Sharidan Shafie, Conjugate transfer of heat and mass in unsteady flow of a micropolar fluid with wall couple stress, AIP Advances, **(ISI Indexed, I.F 1.444)** (2015).

7. Aaiza Gul, Ilyas Khan, Asma Khalid, Sharidan Shafie and **Arshad Khan**, Heat transfer in MHD mixed convection flow of a ferrofluid along a vertical channel, PLoS ONE, (ISI Indexed, **I.F 3.057, Q1**) , (2015) 10(11): e0141213. doi:10.1371/journal.pone.0141213.

8. **Arshad Khan**, Kashif Ali Abro, Asifa Tassaddiq and Ilyas Khan, Atangana–Baleanu and Caputo Fabrizio Analysis of Fractional Derivatives for Heat and Mass Transfer of Second Grade Fluids over a Vertical Plate: A Comparative Study, Entropy, (ISI Indexed, **I.F 2.305, Q2**),(2017).

9. **Arshad Khan**, Ilyas Khan, Asma Khalid and Sharidan Shafie, Effects of arbitrary shear stress on unsteady free convection flow of Casson fluid past a vertical plate, Results in Physics, (ISI Indexed, **I.F 2.147)**, (2017).

10. Nadeem Ahmad Sheikh, Farhad Ali, Ilyas Khan, Muhammad Saqib and **Arshad Khan**, MHD flow of micropolar fluid over an oscillating vertical plate embedded in a porous media with constant temperature and concentration, Mathematical Problems in Engineering (**ISI Indexed**, **I.F 1.145**) (2017).

11. **Arshad Khan**, Ilyas Khan, Asim Khan and Sharidan Shafie, Heat Transfer Analysis in MHD Flow of Casson Fluid Over a Vertical Plate Embedded in a Porous Medium with Arbitrary Wall Shear Stress, Journal of Porous Media (ISI Indexed, **I.F 1.490**) (2018).

12. **Arshad Khan**, Faizan ul Karim, Ilyas Khan, Farhad Ali, Dolat Khan, Irreversibility analysis in unsteady flow over a vertical plate with arbitrary wall shear stress and ramped wall temperature, Results in Physics, (ISI Indexed, **I.F 3.042)**, (2018).

13. Asma Khalid, Ilyas Khana, **Arshad Khan**, Sharidan Shafie, Influence of wall couple stress in MHD flow of a micropolar fluid in a porous medium with energy and concentration transfer, Results in Physics, (ISI Indexed, **I.F 3.042)**, (2018).

14. Muhammad Saqib, Farhad Ali, Ilyas Khan, Nadeem Ahmad Sheikh, **Arshad Khan**, Entropy Generation in Different Types of Fractionalized Nanofluids, Arabian Journal for Science and Engineering, (ISI Indexed, **I.F 1.518)**, (2018).

15. **Arshad Khan**, Dolat Khan, Ilyas Khan, Farhad Ali, Faizan ul Karim and Muhammad Imran, MHD Flow of Sodium Alginate- Based Casson Type Nanofluid Passing Through A Porous Medium With Newtonian Heating, Scientific Reports, (ISI Indexed, **I.F 4.011)**, (2018).

16. **Arshad Khan** , Faizan ul Karim , Ilyas Khan , Tawfeeq Abdullah Alkanhal, Farhad Ali, Dolat Khan and Kottakkaran Sooppy Nisar, Entropy Generation in MHD Conjugate Flow with Wall Shear Stress over an Infinite Plate: Exact Analysis, Entropy, (ISI Indexed, **I.F 2.494, Q2**),(2019).

17. Dolat Khan, **Arshad Khan**, Ilyas Khan, Farhad Ali1, Faizan ul Karim & I. Tlili, Effects of Relative Magnetic Field, Chemical Reaction, Heat Generation and Newtonian Heating on Convection Flow of Casson Fluid over a Moving Vertical Plate Embedded in a Porous Medium, Scientific Reports, (ISI Indexed, **I.F 3.998)**, (2019).

18. **Arshad Khan**, Dolat Khan, Ilyas Khan, Farhad Ali, Faizan ul Karim and Kottakkaran Sooppy Nisar, MHD Flow of Brinkman Type H2O-Cu, Ag, TiO2 and Al2O3 Nanofluids with Chemical Reaction and Heat Generation Effects in a Porous Medium, Journal of Magnetics, (ISI Indexed, **I.F 0.480)**, (2019).

19. **Arshad Khan**, Dolat Khan, Ilyas Khan , Muhammad Taj , Imran Ullah, MHD Flow and Heat Transfer in Sodium Alginate Fluid with Thermal Radiation and Porosity Effects: Fractional Model of Atangana–Baleanu Derivative of Non-Local and Non-Singular Kernel, Symmetry, (ISI Indexed, **I.F 2.645)** (2019).

20. Imran Ullah, Kottakkaran Nisar, Sharidan, **Arshad Khan** and Ilyas Khan, Unsteady Free Convection Flow of Casson Nanofluid Over a Nonlinear Stretching Sheet, IEEE Access, (ISI Indexed, **I.F 3.745)** (2019).

21. A Shah, JI Bangash, AW Khan, I Ahmed, **A Khan**, Comparative Analysis of Median Filter and its Variants for Removal of Impulse Noise from Gray Scale Images, Journal of King Saud University Science, (ISI Indexed, **I.F 3.819)** (2020).

22. M Taj ,**Arshad Khan** et al, Effects of elastic medium on buckling of microtubules due to bending and torsion, Advances in Concrete Construction, (ISI Indexed, **I.F 2.443)** (2020).

23. A. Saeed, **A Khan** et al, Darcy-Forchheimer MHD Hybrid Nanofluid Flow and Heat Transfer Analysis over a Porous Stretching Cylinder, Coatings (ISI Indexed, **I.F 2.330**) (2020).

24. Cui Zou, **Arshad Khan** et al, Mandelbrot Sets and Julia Sets in Picard-Mann Orbit, IEEE Access, (ISI Indexed, **I.F 3.745**) (2020).

25. Dong Li, **Arshad khan** et al, CR iteration in generation of antifractals with s-convexity, IEEE Access (ISI Indexed, **I.F 3.745**) (2020).

26. Dolat Khan, Gohar Ali, Arshad Khan, Ilyas Khan,Chu, Yu-Ming and Nisar, K Sooppy A New Idea of Fractal-fractional Derivative with Power Law Kernel for Free Convection Heat Transfer in a Channel Flow between Two Static Upright Parallel Plates, Computers, Materials & Continua, (ISI Indexed, **I.F 4.890**) (2020).

27. Gohar Ali, Farhad Ali, **Arshad Khan**, Abdul Hamid Ganie, Ilyas Khan, A generalized magnetohydrodynamic two-phase free convection flow of dusty Casson fluid between parallel plates, Case Studies in Thermal Engineering, (ISI Indexed, **I.F 4.724)** (2022).

28. Ilyas Khan, Dolat Khan, Gohar Ali, **Arshad Khan**, Effect of Newtonian heating on two-phase fluctuating flow of dusty fluid: Poincaré–Lighthill perturbation technique, Eur. Phys. J. Plus (ISI Indexed, **I.F 3.911**) (2021).

29. Ilyas Khan, Dolat Khan, Gohar Ali, Arshad Khan , New results of fractal fractional model of drilling nanoliquids with clay nanoparticles, Fractals (ISI Indexed, **I.F 4.555**) (2022).

30. Dolat Khan, Poom Kumam, Ilyas Khan, Kanokwan Sitthithakerngkiet, **Arshad Khan**, Gohar Ali, Unsteady rotating MHD flow of a second-grade hybrid nanofluid in a porous medium: Laplace and Sumudu transforms,Heat Transfer (ISI Indexed, **I.F 4.11**) (2022).

31. Dolat Khan, Poom Kumam, Wiboonsak Watthayu, **Arshad Khan**, Ilyas Khan & Muhammad Arif, Parmana Journal of Physics, Mathematical analysis of second law on Casson fluid through a vertical plate with arbitrary shear stress and exponential heating, (ISI Indexed, **I.F 2.669**) (2022).

32. Muhammad Janas Khan, Fasee Ullah , Muhammad Imran ,Jahangir Khan ,**Arshad Khan** Ahmed S. AlGhamdi and Sultan S. Alshamrani ,Identifying Challenges for Clients in Adopting Sustainable Public Cloud Computing, Sustainability, (ISI Indexed, **I.F 3.9**) (2022).

33. Shahzad Hameed,Qurratul-Ain Minhas,Sheeraz Ahmad,Fasee Ullah , **Arshad Khan**, Atif Khan,M. Irfan Uddin and Qiaozhi Hua Connectivity of Drones in FANETs Using Biologically Inspired Dragonfly Algorithm (DA) through Machine Learning, Wireless Communications and Mobile Computing, (ISI Indexed, **I.F 2.146**) (2022).

34. Farhad Ali, Gohar Ali, **Arshad Khan**, Ilyas Khan,Elsayed Tag Eldin4 and Matin Ahmad, Effects of Newtonian heating and heat generation on magnetohydrodynamics dusty fluid flow between two parallel plates, Frontiers in Materials, (ISI Indexed, **I.F 3.2**) (2023).

35. Anwer ZebSaima Anwer Lashari **Arshad Khan**, Abdullah Khan, Numerical solution of wavelet neural network learning weights using accelerated particle swarm optimization algortithm, Fractels (ISI Indexed, **I.F 4.55**) (2023).

36. Asim Khan, Inayat Ali Shah, **Arshad Khan**, Ilyas Khan, Waqar A. Khan, Numerical investigation of MHD Cattaneo–Christov thermal flux frame work for Maxwell fluid flow

over a steady extending surface with thermal generation in a porous medium, International Journal of Thermofluids, (ISI Indexed, **I.F 6.76**) (2023).

37. Muhammad Shuaib, MuhammadAnas,Hijab ur Rehman, **Arshad Khan**, Ilyas Khan,Sayed M. Eldin, Volumetric thermo- convective casson fuid fow over a nonlinear inclined extended surface, Scientific Reports, (ISI Indexed, **I.F 4.6**) (2023).

38. Mohamad, Ahmad Qushairi, Ilyas Khan, Lim Yeou Jiann, **Arshad Khan**, Mohd Rijal, Sharidan Shafie, Magnetohydrodynamic Conjugate Flow of Casson Fluid Over a Vertical Plate Embedded in a Porous Medium with Arbitrary Wall Shear Stress, Journal of Nanofluids, 9 173-181 (ISI Indexed, **I.F 0.329**) (2017)

39. Zeeshan Khan, Saeed Islam, Haroon Ur Rashed, Hamid Jan, **Arshad Khan,** Analytical Solution of Magnetohydrodynamic flow of a Third Grade Fluid in Wire Coating Analysis, Journal of Applied Environmental and Biological Sciences (**(ISI Indexed**) (2017).

40. **Arshad Khan**, Ilyas Khan, Farhad Ali, Asma Khalid and Sharidan Shafie, Exact solutions of heat and mass transfer with MHD flow in a porous medium under time dependent shear stress and temperature, Abstract and Applied Analysis (ISI Indexed, **I.F 1.274**) (2015).

41. Sami Ul Haq, Ilyas Khan, Farhad Ali, **Arshad Khan,** and Tarek Nabil Ahmed Abdelhameed, Influence of Slip Condition on Unsteady Free Convection Flow of Viscous Fluid with Ramped Wall Temperature, Abstract and Applied Analysis (ISI Indexed, **I.F 1.274**) (2015) 18 pages, Article ID 327975.

42. **Arshad Khan**, Ilyas Khan and Sharidan Shafie, Effects of Newtonian heating and mass diffusion on MHD free convection flow over vertical plate with shear stress at the wall, Jurnal Teknologi, (ISI Indexed, **I.F 0.203**) (2016).

43. **Arshad Khan**, Ilyas Khan, Zulkhibri Ismail and Sharidan Shafie, Effects of Radiation and Porosity on the MHD Flow near a Vertical Plate that Applies Shear Stress to the Fluid, International Journal of Applied Mathematics and Statistics, 53(3) 128-139 (2015).

44. Asma Khalid, Ilyas Khan, **Arshad Khan** and Sharidan Shafie, Unsteady MHD Free Convection Flow of Casson Fluid Past Over an Oscillating Vertical Plate Embedded in a Porous Medium, Engineering Science and Technology, an International Journal, 16, 309-317 (ISI Indexed, **I.F 5.115**) (2015).W

45. **Arshad Khan**, Muhammad Junaid, Ilyas Khan, Farhad Ali, Kamal Shah ,Dolat Khan, Application of homotopy analysis natural transform method to the solution of non linear partial differential equations, Sci.Int.(Lahore), (2017). **ISI Indexed**.

46. Asma Khalid, Ilyas Khan, **Arshad Khan**, Sharidan Shafied, I. Tlili, Case study of MHD blood flow in a porous medium with CNTS and thermal analysis, Case Studies in Thermal Engineering, (**IF 4.010**) (2018).

47. Farhad Ali, Nadeem Ahmad Sheikh, Muhammad Saqib and **Arshad Khan**, Hidden Phenomena of an MHD Unsteady Flow in Porous Medium with Heat Transfer, Nonlinear Sci. Lett. A, (2017).

NATIONAL AND INTERNATIONAL CONFERENCES PAPERS

1. **Arshad Khan**, Ilyas Khan, Zulkhibri Ismail and Sharidan Shafie, Exact Solutions for Unsteady MHD Free Convection Flow with Time Dependent Shear Stress, Proceeding of 5th International Graduate Conference on Engineering, Science and Humanities (IGCESH2014). UTM Malaysia.

2. Farhad Ali**,** Sami Ul Haq, Ilyas Khan, **Arshad Khan** and Asma Khalid, Heat and Mass Transfer Analysis due to Mixed Convection in a Rotating Fluid, First International Conference on Emerging Trends in Engineering, Management and Sciences" December 28-30, 2014 (ICETEMS-2014) Peshawar, Pakistan.

3. Aaiza Gul, **Arshad Khan**, Taza Gul, Ilyas Khan, Saeed Islam and Sharidan Shafie. Unsteady Flow of a Second Grade Fluid between Two Oscillating Vertical Plates, Proceeding of 3nd International Science Postgraduate Conference (ISPC2015) © Faculty of Science, Universiti Teknologi Malaysia. (2015).

4. **Arshad Khan**, Ilyas Khan, Sharidan Shafie, Radiation and Porosity Effects on Heat and Mass Transfer of Magnetohydrodynamic Flow near a Vertical Plate that Applies Arbitrary Shear Stress to the Fluid with Mass Diffusion, AIP Conference Proceedings 1602, 227 (2014); doi: 10.1063/1.4882492.

5. **Arshad Khan**, Ilyas Khan and Sharidan Shafie, MHD Free Convection Flow Over an Inclined Plate that applies Arbitrary Shear Stress to the Fluid, Proceeding of 2nd International Science Postgraduate Conference (ISPC2014) © Faculty of Science, Universiti Teknologi Malaysia. 1013-1025 (2014).

6. Ilyas Khan, Zulkhibri Ismail, **Arshad Khan** and Sharidan Shafie, Stokes' Second Problem for Rotating MHD Flow of a Maxwell Fluid in a Porous Medium, Proceeding of

2nd International Science Postgraduate Conference (ISPC2014) © Faculty of Science, Universiti Teknologi Malaysia. 62 (2014).

7. **Arshad Khan**, Ilyas Khan and Sharidan Shafie. Effects of Newtonian Heating and Mass Diffusion on MHD Free Convection Flow over Vertical Plate with Shear Stress at the Wall, Proceeding of 3nd International Science Postgraduate Conference (ISPC2015) © Faculty of Science, Universiti Teknologi Malaysia. (2015).

8. Dolat khan ,**Arshad Khan,** Farhad Ali, Ilyas khan, Faizan ul Karim, Exact analysis of convection flow of Casson fluid in a porous medium with relative magnetic field and Newtonian heating, 3rd International Conference on Emerging Trends in Engineering, Management and Sciences. (ICETEMS-2018).

9. Faizan ul Karim , **Arshad Khan**, Dolat khan , **,** Farhad Ali, Ilyas khan, Entropy generation influencing on unsteadt flow over a vertical plate with wall shear stress and ramped wall temperature, 3rd International Conference on Emerging Trends in Engineering, Management and Sciences. (ICETEMS-2018).

10. Faizan ul Karim , **Arshad Khan,** Dolat khan , Farhad Ali, Ilyas khan , The effects of MHD conjugate flow on entropy generation with wall shear stress over an infinite plate, 3rd International Conference on Emerging Trends in Engineering, Management and Sciences. (ICETEMS-2018).

11. Fasihah Zulkiflee, Ahmad Qushairi Mohammad2 Sharidan Shafie and **Arshad Khan**, Heat and mass transfer on unsteady free convection flowbetween two parallel plates with Newtonian heating, 7th International Graduate Conference of Engineering, Science and Humanity, (IGCESH 2018),UTM, Malaysia.

CUMULATIVE IMPACT FACTOR (CIF)   **70+ (Approx)**

CONFERENCES
As an Organizer
1. **International Conference on Sustainable Agriculture and Food Security held on 27th-31st August 2023. The University of Agriculture Peshawar.**
2. **International Conference on Food Security through Sustainable Plant Protection Strategies held on January 16-20, The University of Agriculture Peshawar.**

As Participant

- **3ʳᵈ International Conference on Emerging Trends in Engineering, Management and Sciences. (ICETEMS-2018). City University of Science and Information Technology Peshawar.**

- **The 3rd International Conference of Mathematical Sciences ICMS3, Kuala Lumpur, Malaysia. 2013.** (17 Dec-19 Dec).

- **Proceeding of 2nd International Science Postgraduate Conference 2014 (ISPC2014)**

  © Faculty of Science, Universiti Teknologi Malaysia. (10 Mac-12 Mac).

WORKSHOP ATTENDED

- Workshop on Numerical Methods for Solving Navier-Stokes Equations, Organized by Industrial and Scientific Computation (ISC) & Fluid Mechanics Group (FMG), Nanotechnology Research Alliance, UTM. In Collaboration with Post graduate Student Society Faculty of Science (PGSSFS), Universiti Teknologi Malaysia and Advanced (28, August 2013).

- LATEX WORKSHOP, on June 19 & 20 2013, at Computer Laboratory 3, Department of Mathematical Sciences, Universiti Teknologi Malaysia (UTM), Johor Bahru, Johor, Malaysia.

- Workshop: **2ⁿᵈ International Mathematics in Industry Study Group Malaysia (MISG-2014)** 17th- 21th March 2014,organized by UTM Centre for Industrial and Applied Mathematics (UTM-CIAM), In cooperation with Oxford Centre for Industrial and Applied Mathematics (OCIAM), Johor State Government. Malaysia.

SEMINAR ATTENDED

- Participated in "Seminar on High Impact Factor Journal: Art of Writing by **Assoc. Prof. Sib Krishna Goshal**" Organized by Postgraduate Student Society Faculty of Science (PGSS FS) , **Faculty of Science** Universiti Teknologi Malaysia, (11 December 2013).

- Participated in "Seminar on **How to Prepare First Assessment Proposal**" Organized by Postgraduate Student Society Faculty of Science (PGSS FS) in collaboration with SPS UTM, **Faculty of Science,** Universiti Teknologi Malaysia, (30 October 2013).

- Participated in "Seminar on **How to Write a Good Scientific Paper in a Highly Impact Factor Journal: Tips from Editor-in-Chief Prof. Dr. Hamido Fujita** (Iwate Prefectural University, Japan)" organized by **Lee Siew Ling**, PhD, Ibnu Sina Institute for Fundamental Science Studies, Universiti Teknologi Malaysia, (10 September 2013).

- Participated in "Seminar on Recent Advances in Fluid Dynamics and their Applications**.** By **Prof Dr. S. P. Anjali Devi** " organized by The UTM Centre for Industrial & Applied Mathematics (UTM-CIAM) , Universiti Teknologi Malaysia, (22 February 2013).

RESEARCH PROJECTS

1. As Principal Investigator completed research projects

Project Title: MAGNETOHYDRODYNAMIC FLOW OF CASSON FLUID WITH NANOPARTICLES OVER A VERTICAL-PLATE, EMBEDDED IN A POROUS-MEDIUM
Project Duration: 27/09/2018 to 27/09/2020, HEC, Islamabad

2. As Co-Principal Investigator completed research projects

Project 1 Details:
Project Title: ENTROPY GENERATION IN MHD FLOW OVER A VERTICAL PLATE
Project Duration: 01/01/2016 to 31/12/2016, Majma University Saudi Arabia

Project 2 Details:

Project Title: **Arbitrary Shear Stress on Unsteady Free Convection Flow of Casson Fluid**
Project Duration: 05/01/2017 to 31/12/2017, Majma University Saudi Arabia

Project 3 Details:
Project Title: **Irreversibility analysis in unsteady flow over a vertical plate**
Project Duration: 03/01/2018 to 03/01/2019, Majma University Saudi Arabia

Project 4 Details:

Project Title: **Entropy Generation in MHD Conjugate Flow**
Project Duration: 05/01/2019 to 03/01/2020, Majma University Saudi Arabia

Project 5 Details:
Project Title: **Newtonian heating on two-phase fluctuating flow of dusty fluid**
Project Duration: 10/01/2020 to 10/01/2021, Majma University Saudi Arabia

Project 6 Details:

Project Title: **FRACTAL FRACTIONAL MODEL OF DRILLING NANOLIQUIDS**
Project Duration: 01/01/2022 to 01/01/2023, Majma University Saudi Arabia

REFERENCES

1. **Prof. Dr. Sharidan Shafie**

   Department of Mathematics, Faculty of Science, Universiti Teknologi Malaysia 81310

   UTM, Skudai Johor Malaysia (Email: sharidan@utm.my).

2. **Dr. Ilyas Khan**

   Associate Professor, College of Engineering Majmaah University, P.O. Box 66, Majmaah 11952, Saudi Arabia (**i.said@mu.edu.sa and ilyaskhanqau@yahoo.com**.)