

CURRICULUM VITAE



Residence: House No. 350, Street No. 2, Afshan Colony,
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Office: Department of Mathematics and Statistics
Faculty of Basic and Applied Sciences
International Islamic University
Islamabad, 44000 Pakistan
Telephone: +92-51-9019735

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muhammad.sajid@iiu.edu.pk

Dr. Muhammad Sajid, T.I

PERSONAL DATA

FATHER'S NAME: GHULAM MUHAMMAD SABIR
DATE AND PLACE OF BIRTH: 29-10-1974; ATTOCK, PAKISTAN
DESIGNATION: PROFESSOR
NATIONALITY: PAKISTANI

RESEARCH INTERESTS

1. Newtonian and non-Newtonian Fluid Mechanics
2. Computational Fluid Dynamics
3. Homotopy analysis method and its applications
4. Computer simulation and code development
5. Magnetohydrodynamics (MHD)
6. Peristalsis
7. Symmetry analysis method and its applications
8. General Relativity
9. Plasma Physics
10. Heavy ion interactions at high, low and intermediate energies using SSNTD

ACADEMIC QUALIFICATIONS

No.	Examination	Division (Percentage)	Year
1.	Matric	1 ST (72.7%)	1990
2.	F.Sc.	1 ST (60.4%)	1992
3.	B.Sc.	1 ST (66.8%)	1994
4.	M.Sc. Mathematics (Gold Medallist)	1 ST (74.4%)	1996
5.	PGCOC (First Position)	1 ST (83.5%)	1998
6.	Ph. D. (Applied Mathematics)		2006

M. Sc. Mathematics

(University of the Punjab, Lahore, Pakistan)

Courses

No.	Course Title	No.	Course Title	No.	Course Title
1.	Real Analysis	7.	Complex Analysis	13.	Numerical Analysis
2.	Set Theory	8.	Differential Geometry	14.	Mathematical Statistics
3.	Vector Analysis	9.	Tensor Analysis	15.	Analytical Dynamics
4.	Analytical Mechanics	10.	Topology	16.	Special Theory of Relativity
5.	Functional Analysis	11.	Algebra	17.	Quantum Mechanics
6.	Measure Theory	12.	Mathematical Physics	18.	Operations Research

Post Graduate Computer Orientation Course (PGCOC)

(Computer Training Centre, Islamabad, Pakistan)

Courses

No.	Course Title	No.	Course Title
1.	Operating System	6.	Programming in C++
2.	Foxpro	7.	Networking and Communication
3.	Computer Architecture	8.	Matlab
4.	AutoCad	9.	Mathematica
5.	Scientific Work Place	10.	Maple

Project Title

System Analysis & Design

Ph. D. Applied Mathematics

(Quaid-i-Azam University, Islamabad, Pakistan)

Thesis Title

Similar and Non-Similar Analytic Solutions for Steady Flows of Differential Type Fluids

Courses

No.	Course Title	No.	Course Title
1.	Group Theoretic Methods	7.	Classical Theory of Fields
2.	Partial Differential Equations	8.	General Relativity
3.	Cosmology	9.	Lie Algebras
4.	Elastodynamics	10.	Advanced Analytical Dynamics
5.	Mathematical Techniques for Boundary Value Problems	11.	Basics of the Theory of Fluid Mechanics
6.	Non-Newtonian Fluid Mechanics	12.	Magnetohydrodynamics

DISTINCTIONS

1. **First Position** in Government Post Graduate College Asghar Mall in B.Sc.
2. **First Position** in order of Merit in University of the Punjab, Lahore, Pakistan in M.Sc.
3. **First Position** in Computer Training Centre, Islamabad, Pakistan in PGCOOC.
4. Obtained **4.5 GPA** in Ph.D. course work.
5. Author of **206** Research Papers, all published in leading journals of the field except **4**.

AWARDS

1. Awarded University of the Punjab **Gold Medal** for standing first in order of Merit in M.Sc. Examination in 1996.
2. Awarded **Research Productivity Award** for the year 2006 in category G.
3. Awarded **PINSTECH performance Gold Medal** for the year 2007.
4. Awarded **SALAM prize in Mathematics** for the year 2007.
5. Awarded **Research Productivity Award** for the year 2007 in category F.
6. Awarded **Junior Associate ship of AS-ICTP** Italy from 01-01-2009 to 31-12-2014.
7. Awarded **Civil Award Tamgha-i-Imtiaz (T.I)** for the year 2009.
8. Awarded **Research Productivity Award** for the year 2010 in category A.
9. Awarded **Research Productivity Award** for the year 2011 in category A (2nd position in merit).
10. Awarded **Research Productivity Award** for the year 2012 in category A (3rd position in merit).

SCHOLARSHIPS

1. Government of Pakistan Scholarship in M.Sc. Mathematics.
2. Merit Scholarship in Ph.D. from Ministry of Science and Technology, Pakistan.

EXPERIENCE

1. Worked as Scientific Officer, Radiation Physics Division, PINSTECH, Islamabad, Pakistan.
Period: 31-12-1998 to 19-09-2002.
2. Worked as Ph. D. Scholar in Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan.
Period: 20-09-2002 to 19-02-2006.
3. Worked as Senior Scientist, Physics Research Division, PINSTECH, Islamabad, Pakistan.
Period: 20-02-2006 to 27-12-2006.

4. Worked as Senior Scientist and Head Applied Mathematics and Simulation Group, Theoretical Physics Division, PINSTECH, Islamabad, Pakistan.
Period: 28-12-2006 to 30-11-2012.
5. Worked as Principal Scientist and Head Applied Mathematics and Simulation Group, Theoretical Physics Division, PINSTECH, Islamabad, Pakistan.
Period: 01-12-2012 to 08-03-2016.
6. Worked as Professor at Department of Mathematics and Statistics, Faculty of Basic and Applied Sciences, International Islamic University, Islamabad, Pakistan.
Period: 09-03-2016 till date.
7. Worked as Chairman Department of Mathematics and Statistics, Faculty of Basic and Applied Sciences, International Islamic University, Islamabad, Pakistan.
Period: 12-04-2017 till date.

Member of University Bodies

1. Secretary Board of Faculty, Faculty of Basic and Applied Sciences from March 29, 2016 till date.
2. Focal Person of Faculty of Basic and Applied Sciences Task Force for HEC ranking from April 15, 2016 till date.
3. Member of the Academic Council, IIUI from March 09, 2016 till date.
4. Member of the Departmental Tenure Review Committee (DTRC) for Department of Mathematics and Statistics from July 18, 2016 till date.
5. Member of the Departmental Tenure Review Committee (DTRC) for Department of Computer Science and Software Engineering from June 30, 2016 till date.
6. Member of the Departmental Tenure Review Committee (DTRC) for Department of Physics from October 24, 2016 till date.

PARTICIPATION IN CONFERENCES

1. **Applications of Symmetry Methods**
Schedule: 15 - 17 October, 2002.
Place: Islamabad, Pakistan.
Purpose: Organised and Participated
2. **4th International Pure Mathematics Conference on Algebra, Analysis and Geometry**
Schedule: 1 - 4 September, 2003.
Place: Islamabad, Pakistan.
Purpose: Participated
3. **International Conference on Mathematical Models and Methods in Fluid Mechanics**
Schedule: 4 - 6 July, 2005.
Place: Islamabad, Pakistan.
Purpose: Participated
4. **12th regional Conference on Mathematical Physics**
Schedule: 27th March – 1st April, 2006.
Place: Islamabad, Pakistan.
Purpose: Participated

5. **3rd International Conference on Mathematical Models and Methods in Fluid Mechanics**
 Schedule: 17 – 19 July, 2006.
 Place: Islamabad, Pakistan.
 Purpose: Participated and Presented a Seminar
 Title: **Comparison of homotopy perturbation method and homotopy analysis method: non-Newtonian problems**
6. **International Conference on Mathematics**
 Schedule: 12 – 14 September, 2006.
 Place: Islamabad, Pakistan.
 Purpose: Participated and Presented a Seminar
 Title: **Limitations of HPM and Advantages of HAM: an example from non-Newtonian fluid mechanics**
7. **International Conference on Contemporary Physics**
 Schedule: 26 – 30 March, 2007.
 Place: Islamabad, Pakistan.
 Purpose: Participated
8. **Conference on Recent Advances in Mathematical Models, Methods and Applications**
 Schedule: 28 – 29 April, 2007.
 Place: Lahore, Pakistan.
 Purpose: Participated and Presented a Seminar
 Title: **Homotopy Analysis Method: Its Applications in non-Newtonian Fluid Mechanics**
9. **All Pakistan Mathematical Conference**
 Schedule: 07 – 09 June, 2007.
 Place: Islamabad, Pakistan.
 Purpose: Participated and Presented a Seminar
 Title: **Application of Homotopy Analysis Method in heat radiation equations**
10. **International Nathiagali Summer College on Physics and Contemporary needs**
 Schedule: 25 – 30 June, 2007.
 Place: Nathiagali, Pakistan.
 Purpose: Participated
11. **International Conference on Recent Developments in Fluid Mechanics**
 Schedule: 02 – 04 July, 2007.
 Place: Islamabad, Pakistan.
 Purpose: Participated and Presented a Seminar
 Title: **Pipe flows of non-Newtonian fluids with partial slip: Exact solutions**
12. **National Symposium on Plasma Physics**
 Schedule: 28 – 29 January, 2008.
 Place: Islamabad, Pakistan.
 Purpose: Participated and Presented a Seminar
 Title: **MHD flow of a second grade fluid through a porous channel**
13. **4th International Conference on Mathematical Models and Methods in Fluid Mechanics**

- Schedule: 07 – 09 July, 2008.
 Place: Islamabad, Pakistan.
 Purpose: Participated and Presented a Seminar
 Title: **Application of parameter differentiation for the flow of a third grade fluid past a porous plate**
14. **2nd International Conference on “Recent Developments in Fluid Mechanics”**
 Schedule: 11 – 13 August, 2008.
 Place: Islamabad, Pakistan.
 Purpose: Participated and Presented a Seminar
 Title: **Flow of second grade fluid in a curved pipe**
15. **3rd International Conference on “Recent Developments in Fluid Mechanics”**
 Schedule: 30 July – 01 August, 2009.
 Place: Islamabad, Pakistan.
 Purpose: Participated and Presented a Seminar
 Title: **Some viscous flows with generalized slip condition**
16. **International Scientific Spring**
 Schedule: 01 – 06 March, 2010.
 Place: Islamabad, Pakistan.
 Purpose: Participated and Presented a Seminar
 Title: **Fluid flow in curved geometries: Mathematical Modelling and Applications**
17. **Two day workshop on applications of finite element method**
 Schedule: 05 – 06 April, 2010.
 Place: Islamabad, Pakistan.
 Purpose: Participated
18. **All Pakistan Mathematical Conference**
 Schedule: 22 – 23 June, 2010.
 Place: Islamabad, Pakistan.
 Purpose: Participated
19. **4th International Conference on “Recent Developments in Fluid Mechanics”**
 Schedule: 03 – 05 August, 2010.
 Place: Islamabad, Pakistan.
 Purpose: Participated
20. **One day seminars on plasma and fusion sciences**
 Schedule: 26 January, 2011.
 Place: Islamabad, Pakistan.
 Purpose: Participated
21. **Advance school on scaling laws in geophysics: mechanical and thermal processes in geodynamics**
 Schedule: 23 May – 03 June, 2011.
 Place: Trieste, Italy.
 Purpose: Participated
22. **School and conference on computational methods in dynamics**
 Schedule: 20 June – 08 July, 2011.

- Place: Trieste, Italy.
Purpose: Participated
23. **All Pakistan Mathematical Conference 2011**
Schedule: 21 – 22 July, 2011.
Place: Islamabad, Pakistan.
Purpose: Participated
24. **Two Days Conference on Mathematical Sciences**
Schedule: 19 – 20 October, 2012.
Place: Islamabad, Pakistan.
Purpose: Participated and Presented a Seminar
Title: **Inertial swimming in a non-Newtonian fluid**
25. **Workshop on Mathematical Models of Climate Variability Environmental Change and Infectious Diseases**
Schedule: 29 April – 10 May, 2013.
Place: Trieste, Italy.
Purpose: Participated
26. **Advanced School and Workshop in Real and Complex Dynamics**
Schedule: 20 – 31 May, 2013.
Place: Trieste, Italy.
Purpose: Participated
27. **ICTP-SISSA-Moscow School on Geometry and Dynamics**
Schedule: 03 – 14 June, 2013.
Place: Trieste, Italy.
Purpose: Participated
28. **Short Course on Computational Fluid Dynamics for Industry**
Schedule: 09 – 10 September, 2013.
Place: Islamabad, Pakistan.
Purpose: Participated
29. **Workshop on Basics of Fluids and its Applications**
Schedule: 03 – 04 December, 2014.
Place: Muzaffarabad, AJ&K Pakistan.
Purpose: Participated and Presented a Seminar
Title: **Basics of fluid mechanics**
30. **International Workshop on Current Developments and Applications of Mathematical Sciences**
Schedule: 05 – 07 January, 2015.
Place: Islamabad, Pakistan.
Purpose: Participated and Presented a Seminar
Title: **Some new solutions for two dimensional boundary layer flows**
31. **Advanced workshop on cosmological structures from reionization to galaxies: combining efforts from analytical to numerical methods**
Schedule: 12 – 15 May, 2015.
Place: Trieste, Italy.
Purpose: Participated

32. **First ICTP advanced school on cosmology**
 Schedule: 18 – 29 May, 2015.
 Place: Trieste, Italy.
 Purpose: Participated
33. **11th Symposium on computational complexities, innovations and solutions**
 Schedule: 09 – 10 May, 2016.
 Place: Abbotabad, Pakistan.
 Purpose: Participated and Presented a Seminar
 Title: **Stagnation point flow of Walters-B fluid: Some new observations**
34. **International conference on differential equations and applications**
 Schedule: 26 – 28 May, 2016.
 Place: Lahore, Pakistan.
 Purpose: Participated and Presented a Seminar
 Title: **A Legendre wavelet spectral collocation technique for boundary layer flows of Walter-B fluid**
35. **Two day workshop on basics of fluids and its applications**
 Schedule: 17 – 18 January, 2017.
 Place: Muzaffarabad, AJK, Pakistan.
 Purpose: Participated and Delivered Series of Lectures
 Title: **Basic of fluids**
36. **Second workshop on advancements in pure and applied mathematics**
 Schedule: 20 – 21 April, 2017.
 Place: Attock, Pakistan.
 Purpose: Participated and Delivered a Seminar
 Title: **Non-Newtonian fluids: Applications in polymer processing**
37. **3rd National Conference on Mathematical Sciences**
 Schedule: 27 – 28 April, 2017.
 Place: Islamabad, Pakistan.
 Purpose: Participated and Organized
38. **1st National Science Conference**
 Schedule: 04 – 06 May, 2017.
 Place: Bahawalpur, Pakistan.
 Purpose: Participated and Delivered a Seminar
 Title: **Theoretical analysis of on-Newtonian fluids**
39. **International Conference on Applied Mathematics**
 Schedule: 22 – 24 May, 2017.
 Place: Lahore, Pakistan.
 Purpose: Participated and Delivered a Seminar
 Title: **Non-Newtonian fluids: Applications in physiological flows**

CONFERENCES ORGANIZED

1. **Applications of Symmetry Methods**
Schedule: 15 - 17 October, 2002.
Place: Islamabad, Pakistan.
2. **International Conference on Recent Developments in Fluid Mechanics**
Schedule: 02 – 04 July, 2007.
Place: Islamabad, Pakistan.
3. **2nd International Conference on Recent Developments in Fluid Mechanics**
Schedule: 11 – 13 August, 2008.
Place: Islamabad, Pakistan.
4. **3rd International Conference on Recent Developments in Fluid Mechanics**
Schedule: 30 July – 01 August, 2009.
Place: Islamabad, Pakistan.
5. **Two day workshop on applications of finite element method**
Schedule: 05 – 06 April, 2010.
Place: Islamabad, Pakistan.
6. **One day seminars on plasma and fusion sciences**
Schedule: 26 January, 2011.
Place: Islamabad, Pakistan.
7. **Three day workshop on Modelling and simulation of materials (DFT)**
Schedule: 26 – 28 March, 2013.
Place: Islamabad, Pakistan.
8. **Seminar on Applications of Particle Accelerators**
Schedule: 14 – 15 May, 2014.
Place: Islamabad, Pakistan.
9. **Three day workshop on Modelling and simulation of materials (DFT)**
Schedule: 23 – 25 September, 2014.
Place: Islamabad, Pakistan.
10. **3rd National Conference on Mathematical Sciences**
Schedule: 27 – 28 April, 2017.
Place: Islamabad, Pakistan.

MEMBER OF EDITORIAL BOARD

International Journal of Nonlinear Science and Numerical Simulations (2008-2010)
The Nucleus (2008-till date)

REVIEWER OF INTERNATIONAL JOURNALS

1. Applied Mathematical Modelling
2. Applied Mathematics and Computation
3. Archive of Applied Mechanics
4. Bulletin of Malaysian Mathematical Sciences Society
5. Bulletin of the Belgian Mathematical Society
6. Central European Journal of Physics

7. Chemical Engineering Communications
8. Communications in Nonlinear Science and Numerical Simulations
9. Computers and Mathematics with Applications
10. Differential Equations and Nonlinear Mechanics
11. International Communications in Heat and Mass Transfer
12. International Journal for Numerical Methods in Fluids
13. International Journal of Applied Mathematics
14. International Journal of Differential Equations
15. International Journal of Heat and Mass Transfer
16. International Journal of Industrial Mathematics
17. International Journal of Mathematics and Mathematical Sciences
18. International Journal of Modern Physics B
19. International Journal of Nonlinear Science
20. International Journal of Numerical Methods in Heat and Fluid Flow
21. International Journal of Physical Sciences
22. Journal of Advanced Research in Applied Mathematics
23. Journal of Applied Mathematics and Computing
24. Journal of Applied Mathematics Chinese University
25. Journal of Chinese Institute of Chemical Engineers
26. Journal of Engineering Mathematics
27. Journal of Fluid Mechanics
28. Journal of Mechanical Engineering Research
29. Journal of Numerical Analysis in Industrial and Applied Mathematics
30. Journal of Porous Media
31. Journal of Strain Analysis
32. Journal of Taiwan Institute of Chemical Engineers
33. Mathematical Modelling and Analysis
34. Mathematical Problems in Engineering
35. Meccanica
36. Microfluidics and Nanofluidics
37. Nonlinear Analysis Real World Applications
38. Nonlinear Analysis: Modelling and Control
39. Numerical Methods for Partial Differential Equations
40. International Journal of Nonlinear Sciences and Numerical Simulations
41. Physics Letters A
42. PIER and JAMWA
43. Scientific Research and Essays
44. Thermal Science
45. World Applied Sciences Journal
46. Z. Naturforsch A
47. Journal of Mechanical Science and Technology
48. Walailak Journal of science and technology
49. Journal of Applied Mathematics
50. Ain Shams Engineering Journal
51. Chemical Engineering Journal

Ph.D. SUPERVISION

Completed (7)

1. **Iftikhar Ahmed (2008)**

- Title: Solutions of some unsteady flows over a stretching sheet using homotopy analysis method
University: Department of Mathematics, Quaid-i-Azam University
2. **Zahid Iqbal (2012)**
Title: Some nonlinear steady flow problems with heat transfer
University: Department of Mathematics, Quaid-i-Azam University
 3. **Manzoor Ahmed (2016)**
Title: Flow and heat transfer analysis of some Newtonian and non-Newtonian fluids
University: Department of Mathematics, AJ&K University Muzaffarabad
 4. **Muhammad Naveed (2016)**
Title: Boundary layer flows over a curved moving surface
University: Department of Mathematics, The Islamia University of Bahawalpur
 5. **Akbar Zaman (2016)**
Title: Numerical study of pulsatile blood flow in arteries
University: Department of Mathematics and Statistics, International Islamic University, Islamabad
 6. **Khuram Javid (2016)**
Title: Peristalsis transport of non-Newtonian fluids in a curved channel
University: Department of Mathematics and Statistics, International Islamic University Islamabad
 7. **Khalid Mehmood (2017)**
Title: Stagnation point flows on lubricated surface
University: Department of Mathematics and Statistics, International Islamic University Islamabad

In Progress (9)

8. **Zeeshan Asghar**
Title: Gliding motion of bacteria and spermatozoa in complex fluids
University: Department of Mathematics and Statistics, International Islamic University Islamabad
9. **Hafiz Muhammad Atif**
Title: Non-Newtonian flows in coating and calendaring phenomena
University: Department of Mathematics and Statistics, International Islamic University Islamabad
10. **Bilal Ahmad**
Title: A numerical study of inertia and streamline curvature effects on peristaltic flows
University: Department of Mathematics and Statistics, International Islamic University Islamabad
11. **Tasawar Abbas**
Title: Inverse scattering using asymptotic techniques
University: Department of Mathematics and Statistics, International Islamic University Islamabad
12. **Ambreen Arshad**
Title: Some nonlinear oblique stagnation point flows
University: Department of Mathematics, Riphah International University
13. **Syeda Aleena Iqbal**
Title: Numerical and analytical solutions for some two dimensional boundary layer flows
University: Department of Mathematics, Riphah International University
14. **Muhammad Noveel Sadiq**

- Title:
University: Department of Mathematics and Statistics, International Islamic University Islamabad
15. **Muhammad Mughees**
Title:
University: Department of Mathematics and Statistics, International Islamic University Islamabad
16. **Waqar Mehmood**
Title:
University: Department of Mathematics and Statistics, International Islamic University Islamabad

M. Phil SUPERVISION

Completed (22)

1. **Khalid Mahmood (2011)**
Title: Application of generalized slip on a lubricated surface
University: Department of Mathematics, Riphah International University
2. **Bilal Ahmad (2011)**
Title: Mixed convection in stagnation point flow of an Oldroyd-B fluid
University: Department of Mathematics, Riphah International University
3. **Abdul Raheem (2011)**
Title: Flow past an infinite porous plate having a layer of porous medium
University: Department of Mathematics, Riphah International University
4. **Misbah Irshad Mughal (2011)**
Title: Stretching flows with general slip boundary condition in porous medium
University: Department of Mathematics, Riphah International University
5. **Muhammad Asim Hafeez (2011)**
Title: Blasius flow of a Maxwellian fluid
University: Department of Mathematics, Riphah International University
6. **Azhar Ali (2012)**
Title: Axisymmetric flow over a stretching sheet with prescribed skin friction
University: Department of Mathematics, Riphah International University
7. **Syeda Aleena Iqbal (2012)**
Title: Stretching a curved surface through porous medium in a micro-polar fluid with partial slip
University: Department of Mathematics, Riphah International University
8. **Nosheen Zareen Khan (2012)**
Title: Flow of a third grade MHD fluid through two parallel porous plates
University: Department of Mathematics, Riphah International University
9. **Muhammad Shoaib (2012)**
Title: Effect of couple stresses on unsteady two-phase fluid flow
University: Department of Mathematics, Riphah International University
10. **Shafiq-ur-Rehman (2012)**
Title: MHD three dimensional flow past a porous plate with partial slip
University: Department of Mathematics, Riphah International University
11. **Sajid Ahmed Ghauri (2012)**
Title: Unsteady oscillatory stagnation-point flow of a Maxwell fluid
University: Department of Mathematics, Riphah International University
12. **Yasir Ali (2012)**

- Title: A hybrid method for generalized slip flow of a non-Newtonian fluid
University: Department of Mathematics, Riphah International University
13. **Umaisa Anum Shaukat (2014)**
Title: Slip effects on magnetohydrodynamic stagnation point flow with convective boundary condition
University: Department of Mathematics, Riphah International University
14. **Maria Kanwal (2014)**
Title: Squeezing flow in a micropolar fluid
University: Department of Mathematics, Riphah International University
15. **Muhammad Noveel Sadiq (2016)**
Title: Slip and radiation effects for two dimensional oblique stagnation point flow towards a stretching surface in a viscoelastic fluid
University: Department of Mathematics, SNS, National University of Science and Technology
16. **Hira Siddique (2016)**
Title: Theoretical analysis of exiting sheet thickness in calendering of the Rabinowitsch fluid
University: Department of Mathematics, SNS, National University of Science and Technology
17. **Umaira Firdaus (2016)**
Title: Unsteady MHD boundary layer flow of a Carreau fluid due to a stretching sheet with heat source or sink
University: Department of Mathematics, Riphah International University
18. **Faiza Batool (2016)**
Title: Unsteady oscillatory stagnation point flow of Jeffrey fluid
University: Department of Mathematics, Riphah International University
19. **Abida Sarwar (2017)**
Title: Peristaltic motion of PTT fluid in a symmetric channel
University: Department of Mathematics, Riphah International University
20. **Farhat Amin (2017)**
Title: Influence of thermal radiation on the unsteady boundary layer flow due to exponentially stretching sheet
University: Department of Mathematics, Riphah International University
21. **Muhammad Hassan (2017)**
Title: Slip and MHD effects in blade coating
University: Department of Mathematics and Statistics, International Islamic University
22. **Muhammad Rooman (2017)**
Title: Interfacial slip condition for boundary layer flow
University: Department of Mathematics and Statistics, International Islamic University

In Progress (7)

23. **Muhammad Asif**
Title: Effects of porosity in shrinking cylinder problem near a stagnation point
University: Department of Mathematics and Statistics, International Islamic University
24. **Hammad Ahmed Sani**
Title: MHD axisymmetric stagnation point on a spiralling disk with slip

- University: Department of Mathematics and Statistics, International Islamic University
25. **Aurangzeb**
Title: Flow of fourth grade fluid over a stretching sheet
University: Department of Mathematics and Statistics, International Islamic University
26. **Muhammad Awais Yousaf**
Title:
University: Department of Mathematics and Statistics, International Islamic University
27. **Naveed Ibrahim**
Title:
University: Department of Mathematics and Statistics, International Islamic University
28. **Muhammad Fahim**
Title: A study of unsteady fluid flow in a slightly curved pipe
University: Department of Mathematics and Statistics, International Islamic University
29. **Syed Sibtul Hasan**
Title: A study of unsteady fluid flow in a slightly curved pipe
University: Department of Mathematics and Statistics, International Islamic University

REFERNCES

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"Gh. Asachi"
Technical University of Iasi
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Email: cfetecau@yahoo.de
8. Dr. Shijun Liao
School of Naval Architecture and Ocean
Engineering
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Shanghai 200030, China
Email: sjliao@sjtu.edu.cn
9. Dr. Fazal Mahmood Mahmood
Centre for Differential Equations
10. Dr. Abdul Hameed Kara
Centre for Differential Equations

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Continuum Mechanics and Applications
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University of Witswatersrand
Wits 2050, Johensburg, South Africa
e-mail: kara@maths.wits.ac.za

LIST OF PUBLICATIONS

Published Papers [206]

2000 [1]

1. Charge identification in CR-39 nuclear track detector using relativistic lead ion fragmentation
Authors: S. Manzoor, I.E. Qureshi, M.A. Rana, M.I. Shahzad, G. Sher, **M. Sajid**, H.A. Khan, G. Giacomelli, M. Giorgini, G. Mandrioli, L. Patrizii, V. Popa, P. Serra and V. Togo
Journal: Nuclear Instruments and Methods A **453** (2000) 517 – 521.

2001 [2]

2. Heavy ion interactions of (14.0 MeV/u) Pb + U
Authors: E. U. Khan, I.E. Qureshi, J.J. Baluch, M.I. Shahzad, S. Karim, **M. Sajid**, F. Malik, S. N. Husaini and H.A. Khan
Journal: Radiation Measurements **34** (2001) 227 – 230.
3. Applications of ion track micro filters in chemical sciences: A Review
Authors: S. N. Husaini, F. Malik, E. U. Khan, S. Karim and **M. Sajid**
Journal: The Nucleus **38** (2001) 59 - 66.

2002 [2]

4. A quick method for maintaining the molarity of a solution used for continuous etching of CR-39
Authors: E. U. Khan, S. N. Husaini, F. Malik, **M. Sajid**, S. Karim and I.E. Qureshi
Journal: Radiation Measurements **35** (2002) 41 – 45.
5. Swelling in CR-39 and its effect on the bulk etch rate
Authors: F. Malik, E.U. Khan, S.N. Husaini, **M. Sajid**, S. Karim, I.E. Qureshi and K. Jamil
Journal: Radiation Measurements **35** (2002) 301 – 305.

2006 [4]

6. On the analytic solution of the steady flow of a fourth grade fluid
Authors: **M. Sajid**, T. Hayat, and S. Asghar
Journal: Physics Letters A **355** (2006) 18 – 26.
7. MHD boundary layer flow of an upper-convected Maxwell fluid in a channel
Authors: Z. Abbas, **M. Sajid** and T. Hayat
Journal: Theoretical and Computational Fluid Dynamics **20** (2006) 229 – 238.
8. Series solution for the upper-convected Maxwell fluid over a porous stretching plate
Authors: T. Hayat, Z. Abbas and **M. Sajid**
Journal: Physics Letters A **358** (2006) 396 – 403.

9. Steady flow of Oldroyd 8-constant fluid between coaxial cylinders in a porous medium
Authors: T. Hayat, M. Khan, **M. Sajid** and M. Ayub
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