

CURRICULUM VITAE



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[https://en.wikipedia.org/wiki/Muhammad_Sharif_\(cosmologist\)](https://en.wikipedia.org/wiki/Muhammad_Sharif_(cosmologist))

RESEARCH SUMMARY

Civil Award: **Tamgha-i-Imtiaz**
 Total Research papers in Impact Factor journals: **612**
 Cumulative IF: **1477**
 Cumulative citations: **12000**
 h-index: **50**
 i10-index: **362**
 ORCID ID: <https://orcid.org/0000-0001-6845-3506>
 Among **World's Top 2%** researchers in Stanford University's list (2020, 2021)
 Lectures delivered in Local/International Conferences: **118**
 PhD Supervised: **29** PhD in Progress: **04**
 MPhil Supervised: **82** MPhil in Progress: **04**

A complete list of research papers can be seen at the following link.

<http://pu.edu.pk/images/publication/1408596083423-Pub.pdf>

I. ACADEMIC QUALIFICATIONS

<u>Degree</u>	<u>Date</u>	<u>Institutions</u>	<u>Subject(s)</u>
BSc	Nov. 1983	Islamia University Bahawalpur	Maths A, B Courses and Physics
MSc	Dec. 1985	Quaid-i-Azam University Islamabad	Applied Mathematics
MPhil	Nov. 1987	-do-	Applied Mathematics
PhD	Dec. 1991	-do-	Applied Mathematics (Relativity)

II. FIELDS OF INTEREST

Gravitational Theory, Astrophysics and Cosmology

III. EXPERIENCE**A. ACADEMIC EXPERIENCE:**

1. **Tenured Professor** at Department of Mathematics, University of the Punjab, Lahore from **December 21, 2012 to to-date**.
2. **Professor (TTS)** at Department of Mathematics, University of the Punjab, Lahore from **April 28, 2008 to to-date**.
3. **Professor** at Department of Mathematics, University of the Punjab, Lahore from **April 23, 2005 to to-date**.
4. **Associate Professor** at Department of Mathematics, University of the Punjab, Lahore from **August 25, 2001 to April 22, 2005**.
5. **Assistant Professor** at Department of Mathematics, University of the Punjab, Lahore from **Nov. 30, 1995 to August 24, 2001**.
6. **Assistant Professor (Applied Mathematics)** at the Institute of Chemical Engg. & Technology, University of the Punjab, Lahore from **Feb. 22, 1994 to Nov. 29, 1995**.
7. **Research Officer** at Department of Mathematics, Quaid-i-Azam University Islamabad under the Pakistan Science Foundation Project PSF/RES/C-QU/MATHS (16) from June 01, 1989 to May 31, 1992.
8. **Senior Research Assistant** at Department of Mathematics, Quaid-i-Azam University Islamabad from Dec. 17, 1987 to Dec. 16, 1991.
9. **Junior Research Assistant** at Department of Mathematics, Quaid-i-Azam University Islamabad from Dec. 24, 1985 to Dec. 16, 1987.

B. ADMINITRATIVE EXPERIENCE:

1. **Dean**, Faculty of Science, University of the Punjab, Lahore from **April 03, 2019 to to-date**.
2. **Chairman**, Department of Mathematics, University of the Punjab, Lahore from **May 16, 2013 to May 15, 2019**.
3. **Convener**, Board of Studies in Mathematics, University of the Punjab from **May 16, 2013 to May 15, 2019**.
4. **Convener**, Board of Faculty of Science, University of the Punjab from **April 03, 2019 to to-date**.

5. **Coordinator**, Departmental Internet Services during **Oct. 1998-Feb. 2000**.
6. **Coordinator**, MPhil Program from Oct. 1998 and PhD Program from **April 2008-May 15, 2013**.
7. **Coordinator**, Departmental Purchase Committee from **Dec. 2004-Feb. 2010**.
8. **Member**, Departmental Purchase Committee from **March 2007-May 15, 2013**.
9. **Member**, Board of Studies in Mathematics, University of the Punjab from **August 25, 2001 to May 15, 2013**.
10. **Member**, Board of Faculty of Science, University of the Punjab from **April 23, 2005 to to-date**.
11. **Member**, Senate, University of the Punjab from **April 23, 2005 to to-date**.
12. **Member**, Academic Council, University of the Punjab from **April 23, 2005 to to-date**.
13. **Coordinator**, Doctoral Program Committee from **Nov. 2005-May 15, 2013**.
14. **Coordinator**, Departmental Seminar Series from **August 2005-April 2008**.
15. **Coordinator**, Departmental Computer Centre from **March 2007-May 15, 2012**.
16. **Coordinator**, Departmental Scholarship Committee from **March 2007-June 2010**.
17. **Member**, Departmental Examination Committee from **March 2005-May 15, 2013**.

C. COMPUTER EXPERIENCE

- (a) MS Office (b) LaTeX (c) Mathematica (d) Maple.

D. TEACHING EXPERIENCE

a. Taught the following subjects:

1. Intermediate Mathematics Courses, i.e., Calculus etc. (FA, FSc/A.Level) at Government Gordon College;
2. Mathematics Courses A&B (BSc) at Government Gordon College;

3. Advanced Engineering Mathematics Courses (BSc Engineering) at University of the Punjab;
4. Applied Mathematics Courses (Post-Graduate Diploma in Chemical Technology) at University of the Punjab;
5. Quantum Mechanics (MSc) at University of the Punjab;
6. Mechanics & Special Relativity (MSc) at University of the Punjab;
7. Mathematics Courses (BA Honors) at University of the Punjab;
8. Differential Geometry (MSc) at University of the Punjab;
9. Fluid Mechanics (MSc) at University of the Punjab;
10. Calculus (BCS) at FAST and ILM;
11. Quantum Field Theory (MPhil) at University of the Punjab;
12. General Relativity & Cosmology (MPhil and PhD) at University of the Punjab;
13. Special Relativity and A. Dynamics (MSc) at University of the Punjab;
14. Mechanics (MSc) at University of the Punjab;
15. MS Office 2000 (Short Certificate Course) at University of the Punjab;
16. Vector and Tensor Analysis (BSc Honors) at University of the Punjab;
17. Riemannian Geometry (MPhil) at University of the Punjab;
18. Algebra (BSc) at University of Aberdeen, UK;
19. Electromagnetic Theory (MSc) at University of the Punjab;
20. Ordinary Differential Equations (MSc) at University of the Punjab;
21. Partial Differential Equations (MSc) at University of the Punjab;
22. General Relativity I (MPhil) at University of the Punjab;
23. General Relativity II (PhD) at University of the Punjab;
24. Classical Field Theory (PhD) at University of the Punjab;

25. Elastodynamics (MPhil) at University of the Punjab;
26. Integral Equations (PhD) at University of the Punjab;
27. Reading and Research-MA1 (PhD) at University of the Punjab;
28. Cosmology (MPhil) at University of the Punjab.

b. Delivered the following seminars:

1. *Transmission of Elastic Wave through a Random Layer* (Maths Department QAU 1987);
2. *Time Varying Forces in Relativity* (Maths Department QAU 1989);
3. *On the Solution of Cubic Equation* (Maths Department QAU 1989);
4. *Extension of the pseudo-Newtonian Formalism to Time Varying Spacetimes* (Maths Department QAU 1990);
5. *Energy in General Relativity* (Maths Department QAU 1991);
6. *Forces in Non-Static Spacetimes* (Maths Department QAU 1991);
7. *Energy in Gravitational Waves* (Physics Dept. Trakya University Edirne-Turkey 1991);
8. *Motion Caused by Gravitational Waves* (Maths Department QAU 1993);
9. *Some Developments in CAGD* (Institute for Studies in Theoretical Physics & Mathematics, Tehran-Iran, 1995);
10. *An Introduction to General Relativity* (Maths Department PU 1996);
11. *Non-Static Spherically Symmetric Perfect Fluid Solutions of Einstein's Field Equations Using Different Equations of State* (Maths Department QAU 1999);
12. *Non-Static Spherically Symmetric Perfect Fluid Solutions* (Physics Department, Hanyang University, Seoul-Korea 2000);
13. *Classification of Kantowski-Sachs, Bianchi Types I and III Spacetimes according to their Matter Collineations* (Maths Department QAU Islamabad 2002);
14. *Classification of Spherically Symmetric Static Spacetimes according to their Matter Collineations* (Maths Department, University of Aberdeen, UK 2003);

15. *Matter Symmetries of Spherically Symmetric Static Spacetimes* (Maths Department, University of Aberdeen, UK 2003);
16. *Matter Collineations of Spherically Symmetric Spacetimes* (BRITGRAV III, Ambleside, UK Sep. 2003);
17. *Matter Symmetries* (Maths Department LUMS, Jan. 2004);
18. *Some Examples of Matter Symmetries* (SMS Lahore, March 2004);
19. *Kinematic Self-Similar Solutions* (11th Reg. Conf. Tehran, May 2004);
20. *The Determination of the Metric Tensor by Weyl and the Energy-Momentum Tensor* (CAMP, NUST Rawalpindi, Oct. 2004);
21. *Some Aspects of Carmeli's Relativity* (SMS Lahore, March 4, 2005);
22. *Teleparallel Descriptions of Gravitation* (CAMP, NUST Rawalpindi, April 6, 2005);
23. *Symmetries of the Energy-Momentum Tensor* (30th INSC, Nathiagali, July 1, 2005);
24. *Relativity: An Introduction* (Maths Dept. PU, August 24, 2005);
25. *Symmetries of the Energy Momentum Tensor: Some Basic Facts* (BRITGRAV V, Oxford, UK Sep. 22, 2005);
26. *Matter Collineations: Some Basic Facts* (LUMS Int. Conf. on Mathematics and its Applications in Information Technology LUMS, Lahore, Nov. 29, 2005);
27. *Teleparallel Equivalent of Gravitation: An Overview* (Int. Conf. on Mathematics and its Applications COMSATS, Lahore, Jan. 21, 2006);
28. *Matter Symmetries of Non-Static Plane Symmetric Spacetimes* (12th Regional Conf. QAU, Islamabad, March 27-April 1, 2006);
29. *Classification of Cylindrically Symmetric Kinematic Self-Similar Solutions* (Dept. of Mathematics and Physics, Osaka City University, Japan, May 30, 2006);
30. *Classification of Plane Symmetric Kinematic Self-Similar Solutions* (Institute of Theoretical Physics, Rikkyo University Tokyo Japan, June 2, 2006);
31. *High Speed Cylindrical Collapse of Two Dust Fluids* (MGM11, Dept of Physics Freie University, Berlin Germany, July 27, 2006);

32. *Matter Collineations* (Maths Dept. PU, February 14, 2007);
33. *Symmetries of the Energy-Momentum Tensor* (SMS Lahore, March 6, 2007);
34. *Self-Similar Solutions* (All Pakistan Maths Conf. Islamabad, June 7, 2007);
35. *Gravitational Collapse with Cosmological Constant* (GR18, Sydney-Australia, July 9, 2007);
36. *Wave Properties in Schwarzschild Geometry with Isothermal Plasma* (GR18, Sydney-Australia, July 12, 2007);
37. *An Overview of Einstein's Theory of Relativity* (First Maths Conf. BZU Multan, July 28, 2007);
38. *Gravitational Collapse* (Maths. Dept. PU Lahore October 31, 2007);
39. *Gravitational Collapse with Perfect Fluid* (SMS Lahore November 6, 2007);
40. *Spherically Symmetric Gravitational Collapse* (SMS Lahore March 4, 2009);
41. *Wave Properties in Schwarzschild Magnetosphere* (NCP QAU Islamabad April 9, 2009);
42. *Gravitational Collapse: Expanding and Collapsing Regions* (II Italian-Pakistani Workshop on Relativistic Astrophysics, ICRANet Centre Pescara-Italy, July 9, 2009);
43. *Energy Contents of Plane Gravitational Waves in Teleparallel Gravity* (MGM12 UNESCO, Paris-France, July 16, 2009);
44. *Cosmic Censorship Conjecture* (Maths Dept. PU Lahore September 30, 2009);
45. *The Pseudo Newtonian Potentials* (GRG Conference Maths Dept. PU Lahore February 12, 2010);
46. *Effects of Electromagnetic Field on Cylindrically Symmetric Perfect Fluid Collapse* (GR19, Mexico City-Mexico, July 6, 2010);
47. *Some Interesting Consequences of $f(R)$ Theory of Gravity* (13th Regional Conf. on Mathematical Physics Antalya, Turkey, October 27, 2010);
48. *Modern Cosmology and Modified Gravity Theories* (Department of Physics, Akdeniz University Antalya, Turkey, Nov. 01, 2010);

49. *Effects of $f(R)$ Dark Energy on the Dynamics of Gravitational Collapse* (Department of Physics, Akdeniz University Antalya, Turkey, Nov. 01, 2010);
50. *Modified Theories of Gravity* (Institute of Mathematics, University of Aberdeen, Aberdeen Scotland, UK, June 9, 2011);
51. *Phantom Accretion onto a Class of Black Holes* (III Italian-Pakistani Workshop on Relativistic Astrophysics, University of Salento, Lecce-Italy, June 21, 2011);
52. *Tunneling of Dirac Particles* (3rd Galileo-Xu Guangoi Meeting, National Astronomical Observatories, Beijing, China, Oct. 11-15, 2011);
53. *$F(T)$ Gravity* (NUST Conference on Mathematical Sciences, NUST Islamabad, Nov. 17, 2011);
54. *Cosmic Acceleration in Teleparallel Gravity* (Int. Conference on Physics and the World of Today, Karachi University, Karachi, December 22, 2011);
55. *Kaluza Klein Cosmology with Modified Holographic Dark Energy* (4th Winter Meeting in Particles and Physics, Physics Dept. LUMS Lahore, January 28, 2012);
56. *Dark Energy Models and Laws of Thermodynamics* (MGM13 Stockholm University, Stockholm-Sweden, July 03, 2012);
57. *Modern Cosmology* (First National Conference on Space Sciences, ISPA, University of Karachi, October 08, 2012);
58. *Effects of Electromagnetic Field on Shearfree Spherical Collapse* (IV Italian-Pakistani Workshop on Relativistic Astrophysics, CAMP-NUST, Islamabad-Pakistan, February 15, 2013);
59. *$f(R)$ Theory of Gravity* (Maths Dept. PU Lahore October 02, 2013);
60. *Bianchi Type Universe and Superpotential Reconstruction in Scalar-Tensor Cosmology* (Second National Conference on Space Sciences, ISPA, University of Karachi, October 07, 2013);
61. *Dynamics of Bianchi Type Scalar-Tensor Cosmology* (27th Texas Symposium on Relativistic Astrophysics, Dallas, USA, December 09, 2013);
62. *Noether Symmetries in a Modified Scalar-Tensor Gravity* (SDEA-II, SNS-NUST Islamabad, January 27, 2014);
63. *Inflationary Cosmological Model* (1st National Conference on Mathematical Sciences, University of Malakand, Dir Lower, KPK, September 02, 2014);

64. *Warm Inflation* (Maths Dept. PU Lahore, September 24, 2014);
65. *Inflationary Universe Model* (Dark Side of the Universe, University of Cape Town, South Africa, November 17, 2014);
66. *Stability Analysis of Stellar Object* (1st UMT National Conference on Pure and Applied Mathematics, Lahore, March 07, 2015);
67. *Stability: Impact of Physical Factors* (The International Conference on Gravitation and Cosmology/4th Galileo-Xu Guangoi Meeting, Institute of Theoretical Physics, Beijing, China, May 07, 2015);
68. *Gravitational Lensing* (Maths Dept. PU Lahore, September 02, 2015);
69. *Strong Gravitational Lensing of a Spherically Symmetric Black Hole* (Spanish Relativity Meeting 2015, UIB, Palma de Mallorca, Spain, September 07, 2015);
70. *Warm Inflation with Viscous Pressure* (Third National Conference on Space Science and Technology, ISPA, University of Karachi, October 05, 2015);
71. *Gravitational Lensing in a String Cloud Background* (14th Regional Conference on Mathematical Physics, Quaid-i-Azam University Islamabad, November 11, 2015);
72. *Inflation: Some Recent Developments* (International Conference on Recent Advances in Applied Mathematics, COMSATS, Lahore, December 17, 2015);
73. *Thermodynamics in Modified Gravity* (1st International Conference on Pure and Applied Sciences, UMT, Lahore, March 05, 2016);
74. *Study of Thin-Shell Wormholes Stability* (21st International Conference on General Relativity and Gravitation, Columbia University, New York City-USA, July 13, 2016);
75. *Thin-Shell Wormholes Supported by Different Cosmological Models* (V Italian-Pakistani Workshop on Relativistic Astrophysics, University of Salento, Lecce-Italy, July 22, 2016);
76. *Thin-Shell Wormholes* (Maths Dept. PU Lahore, August 17, 2016);
77. *Thermodynamics and Gravity* (Fourth National Conference on Space Science and Technology, ISPA, University of Karachi, October 08, 2016);

78. *Noether Symmetries and their Applications* (One Day National Seminar on Advancement in Pure and Applied Mathematics, GC University Faisalabad, January 25, 2017);
78. *Noether Symmetries and Modified Gravity* (Third UMT International Conference on Pure and Applied Mathematics, Faletti's Hotel, Lahore March 04, 2017);
79. *Stability of Circular Orbits around a Tidal Charged Black Hole* (641th WE-Heraeus-Seminar "Do Black Holes Exist?-The Physics and Philosophy of Black Holes", Physics Centre Bad Honnef, Germany, April 26, 2017);
80. *Dynamics of Particles around Black Hole* (Mathematical Physics and General Relativity Symposium in Honor of Professor Ivor Robinson, UTD-Dallas, USA, May 08, 2017);
81. *Study of GSLT in Curvature-Matter Coupling Gravity* (International Conference on Gravitation: Joint Conference of ICGAC-XIII and IK15, Ehwa Women University Seoul, S. Korea, July 03, 2017);
82. *Stability Analysis of Bulk Viscous Cosmology* (International Conference on Gravitation: Joint Conference of ICGAC-XIII and IK15, Ehwa Women University Seoul, S. Korea, July 07, 2017);
83. *What Can We Learn from Black Holes?* (Maths Dept. PU Lahore, August 16, 2017);
84. *Gravitational Collapse in Modified Theory* (Fifth National Conference on Space Science and Technology, ISPA, University of Karachi, October 09, 2017);
85. *Black Holes: Some Interesting Outcomes* (International Conference on Mathematics and Applications, CASPAM, Bahauddin Zakariya University, Multan, November 06, 2017);
86. *Gravitational Collapse in $f(R)$ Gravity* (29th International Texas Symposium on Relativistic Astrophysics, Cape Town, South Africa, December 06, 2017);
87. *Effects of $f(R)$ Models on the Polarization of Gravitational Waves* (Gravity@Malta2018, University of Malta, Malta, January 22, 2018);
88. *Einstein Field Equations* (ICE-2018, University of Education, Lahore, March 17, 2018);
89. *Fact, Friction, or Unknown: Black Holes* (Fourth UMT International Conference on Pure and Applied Mathematics, Faletti's Hotel, Lahore March 31, 2018);

90. *Study of Polarization Modes in Modified Theory* (21st Capra Meeting Max Planck Institute, Potsdam-Germany June 27, 2018);
91. *Stability of Einstein Universe in Matter-Curvature Coupling Gravity* (MG15 University of Rome, Rome-Italy, July 06, 2018);
92. *Tilted Anisotropic Polytropes* (JGRG28 Rikkyo University, Tokyo-Japan, November 06, 2018);
93. *Charged Anisotropic Solutions in General Relativity* (Maths Dept. PU Lahore, January 09, 2019);
94. *Gravitational Decoupled Anisotropic Solutions in Modified Gravity* (6th Italian-Pakistani Workshop on Relativistic Astrophysics, NUST, Islamabad-Pakistan, January 24, 2019);
95. *Gravitational Decoupled Anisotropic Solutions* (ICRAAM2019, COMSATS University, Lahore Campus, February 20, 2019);
95. *Black Holes* (2nd Pak-Turk Int. Conference, GIKI, Topi, March 11, 2019);
96. *Null Geodesics and Gravitational Lensing* (5th UMT International Conference on Pure and Applied Mathematics, UMT, Lahore March 30, 2019);
97. *Dynamics of Scalar Shell for Black Holes* (10th Alexander Friedmann Int. Seminar on Gravitation and Cosmology St. Petersburg-Russia, June 27, 2019);
98. *Anisotropic Solutions and Minimal Geometric Deformation* (XXI Int. Meeting, Phys. Interpretations of Relativity Theory Moscow-Russia, July 02, 2019);
99. *Stability of Anisotropic Homogeneous Cylinder* (GR22 Valencia-Spain, July 09, 2019);
100. *Charged Gravastars in Extended Gravity* (30th International Texas Symposium on Relativistic Astrophysics, Portsmouth, UK, December 18, 2019);
101. *Black Holes and Gravastars* (PAS Lecture, Guest Speaker, Bacha Khan University Charsadda, KPK, February 03, 2020);
102. *Charged Gravastars in Curvature-Matter Coupling Gravity* (6th UMT International Conference on Pure and Applied Mathematics, UMT, Lahore February 22, 2020);
103. *Decoupled Charged Anisotropic Solutions* (5th International Conference on Pure and Applied Mathematics, University of Sargodha, Sargodha, February 24, 2020);

104. *Gravastars* (3rd Pak-Turk Int. Conference, GIKI, Topi, June 09, 2020) (**Online**);
105. *Compact Stars in Modified Gravity* (17th Russian Gravitational Conference – International Conference on Gravitation, Cosmology and Astrophysics St. Petersburg - Russia, July 02, 2020 RUSSGRAV-17) (**Online**);
106. *Effects of Charge on Gravastars in Modified Theory of Gravitation* (The 14th International Conference on Gravitation, Astrophysics and Cosmology (ICGAC14) National Central University, Jhongli, Taiwan, August 19, 2020) (**Online**);
107. *Compact Strange Objects in Modified Gravity* (The Fourth Zeldovich Virtual Meeting, ICRA Net and National Academy of Sciences of Belarus, September 09, 2020) (**Online**);
108. *Compact Objects* Nusrat (Jehan Girls College Chenab Nagar, April 06, 2021) (**Online**);
109. *Einstein Law of Gravitation* (International Conference on Impact of Mathematics in Modern Era, 2021, The Islamia University of Bahawalpur, April 08, 2021);
110. *Stellar Structures in Energy-Momentum Squared Gravity* (Geometric Foundations of Gravity 2021, University of Tartu-Estonia, June 30, 2021) (**Online**);
111. *Thermodynamics of a Charged Black Hole* (MG15 Rome-Italy, July 06, 2021) (**Online**);
112. *Noether Symmetry Technique in Modified Gravity* (XXII Int. Meeting, Phys. Interpretations of Relativity Theory Moscow-Russia, July 06, 2021) (**Online**);
113. *Anisotropic Solutions through Decoupling in Curvature-Matter Coupling Gravity* (MG15 Rome-Italy, July 09, 2021) (**Online**);
114. *Decoupled Quark Stars in Self-interacting Brans-Dicke Gravity* (Gravitex 2021 Durban-South Africa, August 12, 2021) (**Online**);
115. *Alternative Gravity and Gravastars* (Alternative Gravities and Fundamental Cosmology Conference Szczecin-Poland, September 07, 2021) (**Online**);
116. *Study of Compact Objects* (Tarbiat Modares University Tehran-Iran, October 20, 2021);
117. *Study of Stellar Objects in Modified Gravity* (4th Pak-Turk Int. Conference, UW-GIKI, November 04, 2021) (**Online**).

118. *Compact Objects by Gravitational Decoupling* (Institute of Space Science and Technology, University of Karachi, Karachi, February 28, 2022).

IV. CONFERENCES AND SEMINARS ATTENDED

1. All Pakistan Mathematical Conference held at Mathematics Department, Quaid-i-Azam University Islamabad, Oct. 1-4, 1985.
2. Third Regional Conference on Mathematical Physics *SUPERSTRINGS AND RELATIVITY* held at Physics Department, Quaid-i-Azam University Islamabad, Feb. 18-24, 1989.
3. Third Albert Einstein Seminar held at Mathematics Department, Quaid-i-Azam University Islamabad, Feb. 25-27, 1989.
4. One day Arif-uz-Zaman Symposium held at Physics Department, Quaid-i-Azam University Islamabad, Nov. 27, 1989.
5. School on Fundamental Physics and Cosmology held at Physics Department, Quaid-i-Azam University Islamabad, March 11-25, 1990.
6. Third National Symposium on Frontiers in Physics held at Physics Department, Quaid-i-Azam University Islamabad, Nov. 26-29, 1990.
7. Mini Workshop on Relativity, Astrophysics and Cosmology held at Mathematics Department, Quaid-i-Azam University Islamabad, Oct. 15-17, 1991.
8. Fifth Regional Conference on Mathematical Physics held at Physics Department, Trakya University Edirne-Turkey, Dec. 15-22, 1991.
9. Fourth National Symposium on Frontiers in Physics held at Physics Department, Quaid-i-Azam University Islamabad, April 15-19, 1992.
10. BCSPIN Pakistan Preparatory School held at Physics Department, Quaid-i-Azam University Islamabad, Nov. 25-Dec. 17, 1992.
11. International Workshop on Experimental Gravitation held at Nathiagali, June 26-July 01, 1993.
12. All Pakistan Mathematical Conference held at Mathematics Department, University of Engineering & Technology Lahore, March 11-14, 1995.
13. Seventh Regional Conference on Mathematical Physics (Caspian Conference) held at the Institute for Studies in Theoretical Physics & Mathematics, Tehran-Iran, Oct. 15-22, 1995.

14. Summer School in High Energy Physics and Cosmology held at International Centre for Theoretical Physics, Trieste-Italy, June 10-July 26, 1996.
15. BCSPIN Pakistan Preparatory School held at Physics Department, Quaid-i-Azam University Islamabad, Jan. 4-23, 1997.
16. Symposium on Relativity, Astrophysics and Cosmology held at Mathematics Department, Quaid-i-Azam University Islamabad Nov. 18-20, 1999.
17. Workshop on Applications of Symmetry Methods held at Mathematics Department, Quaid-i-Azam University Islamabad Oct. 15-17, 2002.
18. The Robert Cormack Bequest Meeting for Astronomy held at Department of Mathematical Sciences, University of Aberdeen, Scotland, UK March 31, 2003.
19. The Third British Gravity Meeting (BRITGRAV III) held at Ambleside Conference Centre, Ambleside with Lancaster University, UK Sep. 12-14, 2003.
20. World Conference on 21st Century Mathematics 2004 held at School of Mathematical Sciences, Lahore, March, 18-20, 2004.
21. 11th Regional Conference on Mathematical Physics and IPM Spring Conference held at the Institute for Studies in Theoretical Physics & Mathematics (IPM), Tehran-Iran, May, 3-6, 2004.
22. 17th International Conference on General Relativity and Gravitation held at RDS Dublin-Ireland, July 18-23, 2004.
23. Second Symposium on Relativity, Astrophysics and Cosmology held at Centre for Advanced Mathematics and Physics (CAMP), National University of Sciences and Technology, Rawalpindi Oct. 4-6, 2004.
24. Second World Conference on 21st Century Mathematics 2005 held at School of Mathematical Sciences, Lahore, March, 4-6, 2005.
25. 30th International Nathiagali Summer College on Physics and Contemporary Needs held at Nathiagali, June 27-July 2, 2005.
26. The Fifth British Gravity Meeting (BRITGRAV V) held at St. Catherine's College, Oxford, UK Sep. 20-23, 2005.
27. LUMS International Conference on Mathematics and its Applications in Information Technology held at LUMS, Lahore, Nov. 27-30, 2005.
28. International Conference on Mathematics and its Applications held at COMSATS, Lahore, Jan. 20-22, 2006.

29. 12th Regional Conference on Mathematical Physics held at Quaid-i-Azam University Islamabad, March 27-April 1, 2006.
30. International Symposium on Relativity held at University of the Punjab Lahore, April 6, 2006.
31. 11th Marcel Grossmann Meeting held at Freie University, Berlin Germany, July 23-29, 2006.
32. Third World Conference on 21st Century Mathematics 2007 held at School of Mathematical Sciences, Lahore, March, 5-7, 2007.
33. All Pakistan Mathematical Conference Islamabad, June 7-9, 2007.
34. 18th International Conference on General Relativity and Gravitation held at Sydney Convention and Exhibition Centre Sydney-Australia, July 8-14, 2007.
35. First Mathematics Conference held at CASPAM, BZU Multan, July 27-28, 2007.
36. LUMS 2nd International Conference on Mathematics held at LUMS, Lahore, March 9-12, 2008.
37. Eleventh National Symposium on Frontiers in Physics held at GC University Lahore, January 29-31, 2009.
38. Fourth World Conference on 21st Century Mathematics 2009 held at School of Mathematical Sciences, Lahore, March, 4-7, 2009.
39. 1st NCP Scientific Spring 2009 held at NCP QAU, Islamabad, April 6-9, 2009.
40. II Italian-Pakistani Workshop on Relativistic Astrophysics, ICRANet Centre, Pescara-Italy, July 8-10, 2009.
41. 12th Marcel Grossmann Meeting held at UNESCO, Paris-France, July 12-18, 2009.
42. Conference on General Relativity and Gravitation at University of the Punjab February 11-13, 2010.
43. 19th International Conference on General Relativity and Gravitation held at Mexico City-Mexico, July 5-9, 2010.
44. 13th Regional Conference on Mathematical Physics held at Antalya, Turkey, October 27-31, 2010.
45. Twelfth National Symposium on Frontiers in Physics held at GC University Lahore, February 02-04, 2011.

46. III Italian-Pakistani Workshop on Relativistic Astrophysics, University of Salento, Lecce-Italy, June 20-22, 2011.
47. 3rd Galileo-Xu Guangqi Meeting, National Astronomical Observatories, Beijing, China, Oct. 11-15, 2011.
48. NUST Conference on Mathematical Sciences, NUST Islamabad, Nov. 17-19, 2011.
49. International Conference on Physics and the World of Today, Department of Physics, University of Karachi, Karachi, December 21-22, 2011.
50. 4th Winter Meeting in Particles and Physics, Department of Physics, LUMS Lahore, January 27-28, 2012.
56. 13th Marcel Grossmann Meeting held at Stockholm University, Stockholm-Sweden, July 01-07, 2012.
57. First National Conference on Space Sciences, ISPA, University of Karachi, October 08-09, 2012.
58. IV Italian-Pakistani Workshop on Relativistic Astrophysics, CAMP-NUST, Islamabad-Pakistan, February 15-17, 2013.
59. Second National Conference on Space Sciences, ISPA, University of Karachi, October 07-08, 2013.
60. 27th Texas Symposium on Relativistic Astrophysics, Dallas, USA, December 08-13, 2013.
61. Symmetries, Differential Equations and Applications-II, SNS-NUST, Islamabad, January 27-30, 2014.
62. First National Conference on Mathematical Sciences, Department of Mathematics, University of Malakand, Chakdara, Dir Lower, KPK, September 02-04, 2014.
63. Dark Side of the Universe, University of Cape Town, South Africa, November 17-21, 2014.
64. 1st UMT National Conference on Pure and Applied Mathematics, Lahore, March 07-08, 2015.
65. The International Conference on Gravitation and Cosmology/4th Galileo-Xu Guangqi Meeting, Institute of Theoretical Physics, Beijing, China, May 04-08, 2015.
66. Spanish Relativity Meeting 2015, UIB, Palma de Mallorca, Spain, September 07-11, 2015.

67. Third National Conference on Space Science and Technology, ISPA, University of Karachi, October 05-06, 2015.
67. 14th Regional Conference on Mathematical Physics, Quaid-i-Azam University Islamabad, November 09-14, 2015.
68. International Conference on Recent Advances in Applied Mathematics, COMSATS, Lahore, December 17-18, 2015.
69. 1st International Conference on Pure and Applied Sciences, UMT, Lahore, March 05-07, 2016.
70. 21st International Conference on General Relativity and Gravitation, Columbia University, New York City-USA, July 11-15, 2016.
71. V Italian-Pakistani Workshop on Relativistic Astrophysics, University of Salento, Lecce-Italy, July 21-23, 2016.
72. Fourth National Conference on Space Science and Technology, ISPA, University of Karachi, October 07-09, 2016.
73. Third UMT International Conference on Pure and Applied Mathematics, Faletti's Hotel, Lahore March 04-06, 2017.
74. 641th WE-Heraeus-Seminar "Do Black Holes Exist?-The Physics and Philosophy of Black Holes", Physics Centre Bad Honnef, Germany, April 24-28, 2017.
75. Mathematical Physics and General Relativity Symposium in Honor of Professor Ivor Robinson, UTD-Dallas, USA, May 07-09, 2017.
76. International Conference on Gravitation: Joint Conference of ICGAC-XIII and IK15, Ehwa Women University Seoul, S. Korea, July 03-07, 2017.
77. Fifth National Conference on Space Science and Technology, ISPA, University of Karachi, October 09-10, 2017.
78. International Conference on Mathematics and Applications, CASPAM, Bahauddin Zakariya University, Multan, November 06-07, 2017.
79. 29th International Texas Symposium on Relativistic Astrophysics, Cape Town, South Africa, December 03-08, 2017).
80. Gravity@Malta2018, University of Malta, Malta, January 22-25, 2018).
81. ICE-2018, University of Education, Lahore, March 15-17, 2018).

82. Fourth UMT International Conference on Pure and Applied Mathematics, Faletti's Hotel, Lahore March 31-April 02, 2018.
83. 21st Capra Meeting Max Planck Institute, Potsdam-Germany June 25-29, 2018.
84. 15th Marcel Grossmann Meeting, University of Rome, Rome-Italy, July 01-07, 2018.
85. The 28th Workshop on General Relativity and Gravitation in Japan – JGRG28, Rikkyo University, Tokyo-Japan, November 05-09, 2018.
86. 6th Italian-Pakistani Workshop on Relativistic Astrophysics, NUST, Islamabad-Pakistan, January 24-26, 2019.
86. ICRAAM2019, COMSATS University, Lahore Campus February 20-22, 2019.
87. 2nd Pak-Turk International Conference, GIKI, Topi March 11-13, 2019.
88. Fifth UMT International Conference on Pure and Applied Mathematics, UMT, Lahore March 29-31, 2019.
89. 10th Alexander Friedmann International Seminar on Gravitation and Cosmology St. Petersburg-Russia, June 23-28, 2019).
90. XXI International Meeting, Phys. Interpretations of Relativity Theory - 2019 Moscow-Russia, July 01-05, 2019).
91. GR22 Valencia-Spain, July 07-12, 2019).
92. 6th Science and Technology Exchange Program (STEP) Meeting, Tehran-Iran, November 9-12, 2019).
93. 30th International Texas Symposium on Relativistic Astrophysics, Portsmouth, UK, December 15-20, 2019).
94. 6th UMT International Conference on Pure and Applied Mathematics, UMT, Lahore February 21-23, 2020.
95. 5th International Conference on Pure and Applied Mathematics, University of Sargodha, Sargodha, February 24-25, 2020.
96. 3rd Pak-Turk International Conference, GIKI, Topi June 09-10, 2020 (through ZOOM).

97. 17th Russian Gravitational Conference – International Conference on Gravitation, Cosmology and Astrophysics St. Petersburg - Russia, June 28-July 04, 2020 RUSSGRAV-17) (**through ZOOM**).
 98. The 14th International Conference on Gravitation, Astrophysics and Cosmology (ICGAC14) National Central University, Jhongli, Taiwan, August 17-21, 2020 (**Online**).
 99. The Fourth Zeldovich Virtual Meeting, ICRANet and National Academy of Sciences of Belarus, September 07-11, 2020 (**Online**).
 100. 1st International Electronic Conference on Universe (ECU 2021), February 22-28, 2021 (**Online**).
 101. International Conference on Impact of Mathematics in Modern Era, 2021, The Islamia University of Bahawalpur, April 08, 2021).
 102. International Workshop on Relativistic Astrophysics and Gravitation, Ulugh Beg Astronomical Institute, Tashkent, Uzbekistan, May 12-14, 2021) (**Online**).
 103. Geometric Foundations of Gravity 2021, University of Tartu-Estonia, June 28-July 02, 2021) (**Online**).
 104. 16th Marcel Grossmann Meeting, University of Rome, Rome-Italy, July 05-10, 2021 (**Online**).
 105. XXII International Meeting, Phys. Interpretations of Relativity Theory - 2021 Moscow-Russia, July 05-09, 2021) (**Online**).
 106. Gravitex 2021 Durban-South Africa, August 09-12, 2021) (**Online**).
 107. Alternative Gravities and Fundamental Cosmology Conference Szczecin-Poland, September 06-10, 2021) (**Online**).
 108. 8th Science and Technology Exchange Program (STEP) Meeting, Tehran-Iran, October 19-22, 2021).
 109. 4th Pak-Turk Int. Conference, UW-GIKI, November 03-04, 2021) (**Online**).
 110. Panel Discussion on “Radicalization of Youth: Challenge for Pakistani Universities” PC Hotel, Lahore, December 20, 2021).
- V. CONFERENCES ORGANIZED**
1. Organized one day *International Symposium on Relativity* at University of the Punjab on April 06, 2006 (1st **PUICGC**).

2. Organized *Lecture Series on Black Holes* at University of the Punjab October 10-11, 2008.
3. Organized *Special Lecture on Approximate Symmetries* at University of the Punjab November 23, 2009.
4. Organized *Conference on General Relativity and Gravitation* at University of the Punjab February 11-13, 2010.
5. Organized *Lecture Series on Cosmology* at University of the Punjab November 23-27, 2010.
6. Organized one day *Conference on Gravitation* at University of the Punjab December 17, 2011.
7. Organized *Lecture Series on Cosmology* at University of the Punjab November 08-09, 2013.
8. Organized five days *International Conference on Relativistic Astrophysics* at University of the Punjab February 10-14, 2015 (**2nd PUICGC**).
9. Organized one day *Conference on Gravitation and Cosmology* at University of the Punjab November 26, 2016.
10. Organized five days *3rd International Conference on Gravitation and Cosmology* at University of the Punjab January 27-31, 2019 (**3rd PUICGC**).
11. Organized four days *4th PU International Conference on Gravitation and Cosmology* at University of the Punjab November 22-25, 2021 (**4th PUICGC**).

VI. AWARDS/FELLOWSHIPS

1. **Merit Scholarship** awarded by Quaid-i-Azam University during M.Sc.
2. **Dr. Raziuddin Siddiqi Research Fellowship** awarded by Quaid-i-Azam University during M.Phil.
3. **Post-Doctoral Fellowship** awarded by Korea Science and Engineering Foundation (KOSEF) (2000).
4. **Research Productivity Award** (2001-2015) awarded by Pakistan Council for Science and Technology (PCST).
5. **Dr. Raziuddin Siddiqi Prize and Gold Medal** (2002) awarded by Pakistan Academy of Sciences.
6. **Post-Doctoral Fellowship** awarded by Ministry of Science & Technology (2003).

7. **Izaz-i-Fazeelat (Presidential Award)** awarded by Government of Pakistan (Dec. 13, 2007).
8. **Tamgha-i-Imtiaz** awarded by Government of Pakistan (March 23, 2008).
9. **Best University Teacher Award** awarded by Higher Education Commission (August 13, 2008).
10. **Best Research Paper Award** awarded by Higher Education Commission (December 17, 2009).
11. **Pakistan Academy of Sciences Gold Medal** awarded by Pakistan Academy of Sciences (December 22, 2009).
12. **HEC Distinguished National Professor** awarded by Higher Education Commission (November 03, 2010).
13. **Fellow, Pakistan Academy of Sciences** elected by Pakistan Academy of Sciences (November 26, 2010).
14. **Best Research Paper Award** awarded by Higher Education Commission (March 13, 2015).
15. **Pakistan Top Scientist** in all disciplines awarded by PCST during 2014 and 2015.
16. **Best University Teacher Award** awarded by Higher Education Commission (January 28, 2016).
17. Among **World's Top 2%** researchers in Stanford University's list (2020 and 2021).

VII. RESEARCH PROJECTS

1. *The pseudo-Newtonian Formalism*, Quaid-i-Azam University (1989-1992) **(Completed)**.
2. *Application of the pseudo-Newtonian Formalism*, University of the Punjab (1999) **(Completed)**.
3. *Effects of Electromagnetic Field on Dissipative Viscous Collapse*, University of the Punjab (2015) **(Completed)**.
4. *Warm Inflation with General Dissipation Coefficient*, University of the Punjab (2016) **(Completed)**.

5. *Stability Analysis and Some Interesting Cosmic Issues*, Pakistan Academy of Sciences (2016-2018) (**Completed**).
6. *Some Aspects of Gravitational Collapse and Cosmic Issues in Gravitational Theories*, Higher Education Commission (2017-2019) (**Completed**).
7. *Wormhole Solutions in Curvature-Matter Coupling Gravity*, University of the Punjab (2018) (**Completed**).
8. *Anisotropic Strange Stars in Modified Gravity*, University of the Punjab (2020) (**Completed**).
9. *Physical Viability and Stability of some Cosmological Models in Modified Gravity*, Pakistan Academy of Sciences (2020-2022) (In progress).

VIII. HONORARY POSITIONS HELD, ETC.

1. Conducted a Refresher Course for College teachers of Azad Kashmir at Mirpur, Feb. 1992.
2. Research Fellow at ICTP Trieste-Italy, July 27-August 14, 1996.
3. Life Member, Punjab Mathematical Society, Pakistan.
4. Member, All Pakistan Mathematical Association.
5. Third World Academy of Sciences (TWAS) Associateship for Brazil 1998-2000.
6. Visiting Professor at IMECC, UNICAMP, Campinas, SP, Brazil, July 20-Oct. 17, 1998 and June 01-August 31, 2000.
7. Supervision of Ph.D. Students under the Indigenous PhD Fellowship Program of Higher Education Commission.
8. Visiting Professor at Department of Mathematics, Canakkale Onsekiz Mart University, Turkey, June 17-July 19, 2002.
9. Member, Pakistan Mathematical Society, Pakistan.
10. Referee, International Journals like *General Relativity and Gravitation* etc.
11. Life Member, International Society of General Relativity and Gravitation.
12. PCST awarded *Pakistan Top Scientist* during 2005-2006, 2006-2007, 2014.
13. Punjab University awarded Top Scientist during 2005.

14. Visiting Professor at Department of Mathematics and Physics, Osaka City University, Osaka, Japan, May 27-June 4, 2006.
15. Life Member, Pakistan Physical Society, Pakistan.
16. Visiting Professor at Institute of Mathematics, University of Aberdeen, UK, June 04-July 02, 2011 under HEC program PPCR.
17. Member, Board of Governors, Abdus Salam School of Mathematical Sciences, GCU, Lahore from 2013-2019.
18. Regular Member, Selection Board, Islamia University Bahawalpur from 2015-2018.
19. HEC Consultancy Services for Short Study of Faculty Staff under TESP during March-June 2016.
20. Guest Editor, Special issue of Advances in High Energy Physics on "Theoretical and Observational Aspects of Black Holes, Gravitational Waves, and Spacetime Singularities (TOAHS)" 2017.
21. Academic Editor, Advances in Astronomy from July 2020 to to-date.

IX. COUNTRIES VISITED

- 1. S. Korea:** Postdoctoral Fellow at Hanyang University during March 2000-Feb. 2001 for one year and to attend International Conference on Gravitation, Ehwa University during July 03-07, 2017.
- 2. Brazil:** Visiting Professor at IMECC, UNICAMP during July-Oct. 1998 and June-August 2000 for three months each.
- 3. UAE:** Excursion during June 1996, June 2002, Nov. 2014, July 2017 and Jan. 2018.
- 4. Iran:** To attend Regional Conferences during Oct. 1995 for two weeks, during May 2004 for one week, 6th STEP meeting during Nov. 9-12, 2019 and 8th STEP meeting during October 19-22, 2021.
- 5. Ireland:** To attend 17th International Conference on General Relativity and Gravitation during July 18-23, 2004 for one week.
- 6. Japan:** Visiting Professor at Department of Mathematics and Physics, Osaka City University, Osaka, Japan, May 27-June 4, 2006, To attend JGRG28, Nov. 05-09, 2018.
- 7. Germany:** To attend 11th Marcel Grossmann Meeting during July 23-29, 2006 for one week; to attend 641th WE-Heraeus-Seminar "Do Black Holes Exist?-The Physics and Philosophy of Black Holes" during April 24-28, 2017 for one week; to attend Capra 21 during June 25-29, 2018.
- 8. Australia:** To attend 18th International Conference on General Relativity and Gravitation during July 8-14, 2007 for one week.

- 9. Switzerland:** Excursion during July 2009 and June 2018 for two days each. CERN Visit from September 30-October 03, 2019.
- 10. France:** To attend 12th Marcel Grossmann Meeting during July 12-18, 2009 for one week.
- 11. Mexico:** To attend 19th International Conference on General Relativity and Gravitation during July 5-9, 2010 for one week.
- 12. Italy:** To attend a Summer School at ICTP during June-August 1996 for three months; to attend II, III and V Italian-Pakistani Workshops on Relativistic Astrophysics during July 2009, June 2011 and July 2016, respectively for one week each; to attend MGV during July 01-07, 2018.
- 13. UK:** Postdoctoral Fellow at University of Aberdeen, Scotland during Nov. 2002-Oct. 2003 for one year; to attend BritGrav V in Sep. 2005 for one week; Visiting Professor at University of Aberdeen, Scotland during June 04-July 02 2011 for one month.
- 14. Saudi Arabia:** To perform Umrah during July 1998, June 2002, Sep. 2005; July 2006 for 12 days; June/July 2008 for two weeks; June 2012 for two weeks; Hajj during Dec. 2004-Jan. 2005 for 6 weeks; Hajj during August 2018 for 3 weeks.
- 15. Sweden:** To attend 13th Marcel Grossmann Meeting during July 01-7, 2012 for one week.
- 16. Norway:** Excursion during July 2012 for five days.
- 17. USA:** To attend 27th Texas Symposium on Relativistic Astrophysics, December 08-13, 2013 for one week; to attend GR21, July 08-18, 2016; to attend Mathematical Physics and General Relativity Symposium in Honor of Professor Ivor Robinson, UTD-Dallas, during May 07-09, 2017.
- 18. S. Africa:** To attend “Dark Side of the Universe” Conference during November 17-21, 2014 and 29th International Texas Symposium on Relativistic Astrophysics during December 02-09, 2017.
- 19. China:** To attend 3rd Galileo-Xu Guangoi Meeting, Oct. 11-15, 2011 for a week; to attend 4th Galileo-Xu Guangoi Meeting, May 04-08, 2015.
- 20. Turkey:** To attend a Conference during Dec. 1991 for three weeks; visiting Professor at Onsekiz Mart University during June-July 2002 for one and half month; to attend a Regional Conference during Oct. 2010 for ten days; excursion during September 05-06, 2015 for two days.
- 21. Spain:** To attend “Spanish Relativity Meeting 2015” Conference during September 07-11, 2015 for one week. To attend GR22 during July 05-13, 2019.
- 22. Malta:** To attend “Gravity @Malta2018” Conference during January 21-25, 2018 for five days.
- 23. Denmark:** Excursion during June 2018 for two days.
- 24. Finland:** Excursion during June 2018 for two days.

- 25. Russia:** To attend “10th A. Friedmann Meeting and PIRT2019” during June 26-July 05, 2019 for 10 days.

SUPERVISION OF MPHIL/PHD STUDENTS:**SUPERVISED PHD THESIS TITLES:**

1. *Kinematic Self-Similar Solutions and their Applications* by **Ms Sehar Aziz** (January 11, 2008).
2. *Wave Properties in Black Hole Magnetospheres* by **Miss Umber Sheikh** (September 01, 2008).
3. *Some Important Issues of General Relativity in Teleparallel Theory of Gravity* by **Mr. Muhammad Jamil Amir** (October 17, 2008).
4. *Gravitational Collapse: A Key Issue in General Relativity* by **Mr. Zahid Ahmad** (February 23, 2009).
5. *Some Aspects of Dark Energy and Gravitational Collapse in $f(R)$ Theory* by **Miss H. Rizwana Kausar** (May 12, 2012).
6. *Fate of Gravitational Collapse in Electromagnetic Theory* by **Mr. Ghulam Abbas** (January 11, 2013).
7. *Some Cosmological Issues in Scalar-Tensor Theories* by **Miss Saira Waheed** (January 04, 2014).
8. *Evolution of the Universe and Dark Energy Mystery* by **Mr. Abdul Jawad** (January 17, 2014).
9. *Hawking Radiation from Some Particular Black Holes* by **Ms Wajiha Javed** (January 17, 2014).
10. *Stability Analysis: A Crucial Study in General Relativity* by **Mr. Muhammad Azam** (February 28, 2014).
11. *Curvature Matter Coupling: Some Cosmic Aspects* by **Mr. Muhammad Zubair** (April 19, 2014).
12. *Some Interesting Issues in $f(T)$ Gravity* by **Miss Shamaila Rani** (December 11, 2014).
13. *Stability Analysis of Self-gravitating Collapsing Systems* by **Mr. M. Zaeem ul Haq Bhatti** (October 26, 2015).
14. *Some Inflationary and Cosmic Issues in General Relativity* by **Miss Rabia Saleem** (October 26, 2015).
15. *Dynamical Evolution of Collapsing Stellar Systems in $f(R)$ Gravity* by **Mr. Zeeshan Yousaf** (November 02, 2015).
16. *Gravitational Lensing and Dynamics of Black Holes* by **Miss Sehrish Iftikhar** (December 15, 2016).
17. *Dynamics of Self-Gravitating Systems in Scalar-Tensor Gravity* by **Miss Rubab Manzoor** (July 28, 2017).
18. *Some Aspects of Modified Gauss-Bonnet Gravity* by **H. Ismat Fatima** (January 13, 2018).
19. *Study of Cosmic Issues in Modified Gauss-Bonnet Theories* by **Ayesha Ikram** (February 12, 2018).
20. *Stability Analysis of Celestial Objects and Cosmos* by **Saadia Mumtaz** (February 12, 2018).
21. *Cosmic Inflation and Evolution in $f(R)$ and $f(R,T)$ Theories* by **Iqra Nawazish** (February 12, 2018).

22. *Evolution of the Universe in $F(T, T_G)$ Gravity* by **Kanwal Nazir** (April 13, 2018).
23. *Study of Physical Characteristics of Stellar Configurations* by **Sobia Sadiq** (February 15, 2019).
24. *Effects of Modified Theories on Stellar Structure and Cosmic Evolution* by **Aisha Siddiqa** (February 15, 2019).
25. *Study of Stellar Structures and Stability Analysis in Modified Gravity* by **Arfa Waseem** (November 29, 2019).
26. *Cosmic Evolution and Gravitational Decoupled Solutions in Modified Gauss-Bonnet Gravity* by **Saadia Saba** (January 24, 2020).
27. *Physical Viability and Stability of Self-gravitating Systems* by **Qanitah Ama-Tul-Mughani** (October 29, 2020).
28. *Mechanical Stability and Dynamical Evolution of Thin-Shell* by **Faisal Javed** (June 03, 2021).
29. *Some Aspects of Self-interacting Brans-Dicke Theory* by **Amal Majid** (January 21, 2022).

PhD in Progress:

1. Mr. Muhammad Zeeshan Gul (2019-2022)
2. Mr. Tayyab Naseer (2020-2023)
3. Miss Komal Hassan (2020-2023)
4. Miss Saba Naz (2020-2023)

SUPERVISED MPhil THESIS TITLES:

1. *Non-Static Spherically Symmetric Perfect Fluid Solutions* by **Tanveer Iqbal** (1999).
2. *Matter Collineations of Spherically Symmetric Static Spacetimes* by **Sehar Aziz** (2002).
3. *Spacelike and Timelike Matter Inheritance Vectors in Different forms of Matter Tensor* by **Umber Sheikh** (2004).
4. *Energy-Momentum Distribution: A Crucial Problem in General Relativity* by **Tasnim Fatima** (2004).
5. *Matter Collineations of Plane Symmetric Spacetimes* by **Tariq Ismaeel** (2006).
6. *Conformal Collineations for Fluid Spacetimes* by **Naghmana Tehseen** (2006).
7. *Energy-Momentum Distribution of Some Specific Spacetimes* by **Muhammad Azam** (2006).
8. *Linear Perturbations of Self-Similar Spherically Symmetric Solutions of Second Kind* by **Aziz Ullah** (2006).
9. *Symmetries of Energy-Momentum Tensor: Plane Symmetric Spacetimes* by **Nousheen Ilyas** (2007).
10. *Energy-Momentum Distribution in General Relativity and Teleparallel Theory of Gravitation* by **Kanwal Nazir** (2007).
11. *Parallel and Orthogonal Self-Similar Solutions of Cylindrically Symmetric Spacetimes* by **Javaria Zanub** (2007).
12. *Tilted Self-Similar Solutions of Cylindrically Symmetric Spacetimes* by **Sajid Sultan** (2007).
13. *Behavior of Time Varying Constants in Relativity* by **H. Rizwana Kausar** (2008).

14. *Plasma Wave Properties of Non-Rotating Spacetimes* by **Ghulam Mustafa** (2008).
15. *Killing Vectors in Teleparallel Theory of Gravitation* by **Bushra Majeed** (2008).
16. *Spherically Symmetric Gravitational Collapse* by **Khadija Iqbal** (2008).
17. *Wave Properties of the Schwarzschild Magnetosphere with Hot Plasma* by **Asma Rafique** (2009).
18. *Spherically Symmetric Gravitational Collapse with Electromagnetic Field* by **Ghulam Abbas** (2009).
19. *Some Issues in $f(R)$ Theory of Gravity* by **M. Farasat Shamir** (2009).
20. *Hamiltonian Approach: Energy and its Contents in Teleparallel Gravity* by **Sumaira Taj** (2009).
21. *Plane Symmetric Kinematic Self-similar Heat Conducting and Charge Solutions* by **Wajiha Javed** (2009).
22. *Dynamics of Viscous Dissipative Plane Symmetric Gravitational Collapse* by **Zakia Rehmat** (2009).
23. *Wave Properties of the Non-Rotating Black Hole in a Veselago Medium* by **Noureen Mukhtar** (2010).
24. *Effects of Electromagnetic Field and Anisotropic Dark Energy on Cosmological Models* by **Muhammad Zubair** (2010).
25. *Conserved Quantities with Approximate Symmetries of Some Well-Known Spacetimes* by **Saira Waheed** (2010).
26. *Dynamics of the Charged Plane Symmetric Gravitational Collapse* by **Aisha Siddiqa** (2010).
27. *Conserved Energy-Momentum Issue using Hamiltonian Approach in Teleparallel Gravity* by **Abdul Jawad** (2010).
28. *Dynamics of the Charged Cylindrically Symmetric Gravitational Collapse* by **Sundas Fatima** (2010).
29. *Charged Anisotropic Static Cylindrically Symmetric Models* by **H. Ismat Fatima** (2011).
30. *Thermodynamics and Some Cosmological Parameters with Varying G and Λ* by **Farida Khanum** (2011).
31. *Expanding Universe in Generalized Teleparallel Gravity* by **Shamaila Rani** (2011).
32. *Plasma Wave Properties of Schwarzschild de Sitter Black Hole in a Veselago Medium* by **Ifra Noureen** (2011).
33. *Energy Density Inhomogeneity and Electromagnetic Field with Spherical Symmetry* by **Neelum Bashir** (2012).
34. *Dark Energy $f(T)$ Gravity Models with Anisotropic Universe Models* by **Sehrish Azeem** (2012).
35. *Electromagnetic Wave Propagation with Negative Phase Velocity in Some Black Holes* by **Rubab Manzoor** (2012).
36. *Thermodynamics and Some Cosmological Parameters for Dark Energy Models* by **Rabia Saleem** (2012).
37. *Structure Scalars in Charged Cylindrical and Plane Symmetries* by **M. Zaem ul Haq Bhatti** (2012).

38. *Shear and Expansion Free Evolution Models in General Relativity* by **Zeeshan Yousaf** (2012).
39. *Some Exact Solutions in $f(R)$ Gravity and Energy-Momentum Distribution* by **Sadia Arif** (2012).
40. *Gravitational Collapse and Dynamics of Charged Tilted LTB Spacetimes* by **Amal Majid** (2013).
41. *Center of Mass Energy for Some Well-known Black Holes* by **Nida Haider** (2013).
42. *Some Exact Static Plane Symmetric Interior Solutions and Traversable Wormholes in $f(R)$ Gravity* by **Zuriat Zahra** (2013).
43. *Gravitational Collapse and Wormhole Solutions in $f(G)$ Gravity* by **Ayesha Ikram** (2014).
44. *Some Anisotropic Cosmic Models in Scalar-Tensor Theories* by **Imrana Shafique** (2014).
45. *Stability and Thermodynamics of Anisotropic Model in $f(T)$ Gravity* by **Saima Jabbar** (2014).
46. *Dynamics of Some Spacetimes in Tilted and Non-tilted Frames* by **Hira Tahir** (2014).
47. *Dynamics of Tilted LTB Spacetime and Noether Symmetry in $f(R)$ Gravity* by **Iqra Nawazish** (2014).
48. *Thin-shell Wormhole Solutions and their Stability Static* by **Saadia Mumtaz** (2014).
49. *Gravitational Structure Scalars of Dissipative Axial System in $f(R)$ Gravity* by **Zunaira Nasir** (2015).
50. *Conformally Flat Anisotropic Polytropes* by **Sobia Sadiq** (2015).
51. *Study of Inflation with Generalized Dissipation and Inhomogeneous Viscous Fluid* by **Sidra Mohsaneen** (2015).
52. *Thermodynamics of Chaplygin Gas and Emergent Universe Models* by **Ayesha Sarwar** (2016).
53. *Some Features of Compact Stars in $f(R, T, R_{\mu\nu}T^{\mu\nu})$ Gravity* by **Arfa Waseem** (2016).
54. *Stability Analysis of Bardeen Thin-Shell Wormholes with Variable Equation of State* by **Faisal Javed** (2016).
55. *Anisotropic Exact Solutions in Scalar-Tensor-Vector Gravity Theory* by **Aasma Yousaf** (2016).
56. *Stability of Circular Orbits around Tidal Charged Black Hole* by **Lubna Kousar** (2017).
57. *Particle Dynamics around Non-Rotating and Rotating Black Holes in Modified Gravity* by **Misbah Shahzadi** (2017).
58. *On Thermal Stability of Some Dark Energy Models* by **Sara Ashraf** (2017).
59. *Dynamics of Cylindrically Symmetric Collapse in $f(R)$ Gravity* by **Naila Farooq** (2017).
60. *Higher-Dimensional LTB Collapse in Modified Theories* by **Atiq Anwar** (2018).
61. *Cosmic Evolution of Dark Energy Models in Brans-Dicke Theory* by **Syed Asif Ali Shah** (2018).
62. *Study of Charged Gravitational Collapse in Modified Gauss-Bonnet Gravity* by **Saba Naz** (2018).

63. *Study of Gravitational Collapse in Curvature-Matter Coupled Gravity* by **Muhammad Zeeshan Gul** (2018).
64. *Study of Complexity Factor for Self-gravitating Systems* by **Iqra Ijaz Butt** (2018).
65. *Complexity Factor for Charged Dynamical Self-gravitating System* by **Saher Tariq** (2019).
66. *Thermodynamics of a Class of Rotating Regular Black Holes* by **H. Saba Nawaz** (2019).
67. *Complexity Factor for Self-Gravitating System in $f(G)$ Gravity* by **Mian M. Muddassar Nasir** (2019).
68. *Wormhole Solutions and Noether Symmetry in Modified Gauss-Bonnet Gravity* by **Shahid Hussain** (2019).
69. *Study of Tilted Anisotropic Dissipative Tilted Quark Star* by **Sumaira Nazir** (2019).
70. *Stability of the Einstein Universe against Anisotropic Perturbations in $f(R)$ Gravity* by **Sana Saleem** (2020).
71. *Study of Compact Stars in Curvature-Matter Coupling Gravity* by **Aroob Naeem** (2020).
72. *Stability Analysis of Bardeen and Hayward Thin-Shells around Wormholes* by **Komal Ashraf** (2020).
73. *Study of Compact Stars in Modified Gauss-Bonnet Gravity* by **Amna Ramzan** (2020).
74. *Thermodynamics of Rotating Charged Black Hole with Weyl Corrections* by **Zunaira Akhtar** (2020).
75. *Gravitationally Decoupled Non-Static Anisotropic Spherical Solutions* by **Shehrbano Ahmed** (2021).
76. *Decoupled Stellar Models in $f(\mathbb{R}, T)$ Gravity* by **Fizza Furqan** (2021).
77. *Thermodynamics of Bardeen Black Hole Surrounded by Perfect Fluid Dark Matter* by **Amjad Khan** (2021).
78. *Greybody Factor of Rotating Bardeen Black Hole Surrounded by Perfect Fluid Dark Matter* by **Sulaman Shaukat** (2021).
79. *Compact Objects by Gravitational Decoupling in $f(R)$ Gravity* by **Mariyah Aslam** (2021).
80. *Effects of Curvature-Matter Coupled Gravity on Anisotropic Polytropes* by **Muhammad Shafaqat** (2021).
81. *Study of Gravastar Admitting Conformal Motion in Energy-Momentum Squared Gravity* by **Muhammad Saeed** (2021).
82. *Complexity of Anisotropic Static Sphere in $f(R, T^2)$ Gravity* by **Kamran Ahmad** (2021).

MPhil in Progress:

1. Mr. Ali Raza (2020-2022)
2. Miss Ayesha Anjum (2020-2022)
3. Miss Shazmeena Eltaf (2020-2022)
4. H. Muhammad Salman Akram (2020-2022)

EDITORSHIP:

1. Chief Editor, *Punjab University Journal of Mathematics* from 2013 to 2019.

2. Editor, *Punjab University Journal of Mathematics* from 1996 to 2012.
3. Editor (Physical Sciences), *Proceedings of the Pakistan Academy of Sciences* from 2015 to to-date.
4. Editor, *Proceedings of the Mini Workshop on Relativity, Astrophysics and Cosmology* (The Wall Street Printers, 1992).
5. Editor, *Proceedings of the International Conference on Relativistic Astrophysics* (Department of Press and Publications, University of the Punjab, 2015).

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