

CURRICULUM VITAE



Name : **DR. QUDDUS KHAN**
Present Post : **Professor**
Father's Name : Mr. NAYAB KHAN
Date of Birth : January 15, 1967
Nationality : Indian
Mailing Address : 29-S, Sector- 7, Jasola Vihar, New Delhi-110025,
Ph.- 0-9911886758 and 0- 9773651956.
E-Mail Address : qkhan@jmi.ac.in, qudduskhani5j@gmail.com
Permanent Address : Vill. - Husain Purwa; P.O.- Patna Ghusyari Via Risia,
Distt.- Bahraich (U.P.), India;
Ph.-0-9911886758 and 0- 9773651956.

EDUCATIONAL QUALIFICATIONS

Degree	University / Board	Year	%	% in Mathematics
Ph.D. (Mathematics)	Jamia Millia Islamia New Delhi-110025	2000		Awarded on September 1, 2000
M. Sc. (Mathematics)	Avadh University, Faizabad (U.P)	1993	65	65
B. Sc.	Avadh University, Faizabad (U.P)	1991	58.72	80

Title of Ph.D. Thesis : **A Study on some Curvature Properties of a Riemannian Manifold**
Research field of Interest : Differential Geometry and its applications
Research Experience : Twenty Four Years
Teaching Interests : Differential Calculus, Integral Calculus, Riemannian Geometry, Differential Geometry, Differential Geometry of Manifolds, Tensor Analysis, Differential Equations, Linear Algebra, Abstract Algebra, Numerical Analysis etc.
Award : Young Scientists 2001- 2002 Under the SERC Fast Track Proposals.

EMPLOYMENT HISTORY

Position	Institution	Nature of work	Period of services
Professor	D/o Applied Science & Humanities, F/o Engineering & Technology, JMI, New Delhi -110025	Teaching and Research	July, 01, 2017 to till date
Associate Professor	D/o Applied Science & Humanities, F/o Engineering & Technology, JMI, New Delhi -110025	Teaching and Research	March 21, 2017 to June 30, 2017
Associate Professor	Shibli National P. G. College, Azamgarh Under V. B. S. Purvanchal University, Jaunpur (U. P.) India	Teaching and Research	July 01, 2014 to March 20, 2017
Assistant Professor	Shibli National P. G. College, Azamgarh Under V. B. S. Purvanchal University, Jaunpur (U. P.) India	Teaching and Research	May 11, 2004 to June30, 2014
Young Scientist (P.D.F.)	D/o Mathematics, F/o Natural Sciences, JMI, New Delhi-110025	Teaching and Research	July 1, 2002 to May 10, 2004
Guest Lecturer	D/o Applied Science and Humanities, F/o Engineering and Technology, JMI, New Delhi-110025	Teaching and Research	July 22, 2001 to December 28, 2002

MAJOR RESEARCH PROJECT

Title of the Project : On Some Curvature Properties of Manifolds with Structure.

Funding Agency : Department of science and technology (D. S.T.),
Government of India, Ministry of Science and
Technology, Technology Bhavan, New Mehrauli Road,
New Delhi - 110016.

Amounts : **Rs. 9, 24, 000 (Rupees Nine Lacks Twenty Four Thousand
only)**

Ref. No. : **SR/FTP/MS-17/2001**

Duration : Three years

Principal investigator : **DR. QUDDUS KHAN**

RESEARCH SUPERVISION

- (i) Number of students Awarded their Degree = 04
- (ii) Number of students under supervision = 01 (Thesis submitted)

BOOKS (AUTHORED / DEVELOPED / REVIEWED)

(a) Authored

1. Textbook of Advanced Engineering Mathematics, Tyrason Publication, ISBN-13: 978 - 9393121059 and ISBN-10: 9393121052(November 09, 2022).
2. Textbook of Tensor Calculus and Differential Geometry and Their Applications, Misha Books, 2356, Guru Tegbahadur Nagar, Hudson Line, Delhi-110009, **ISSN**-13: 9789389055320 and **ISBN**-10: 938-90-55326, (January 01, 2020).
3. Textbook of Differential Calculus, Misha Books, 2356, Guru Tegbahadur Nagar, Hudson Line Delhi-110009, **ISBN**-13: 978-9389055085, **ISBN**-10: 9389055083, (January 01, 2019).
4. Textbook of Integral Calculus and Elementary Differential Equation, Misha Books, 2356, Guru Tegbahadur Nagar, Hudson Line, Delhi-110009, **ISSN**-13: 9789-389-055-283 and **ISBN**- 10: 9389055091, (January 01, 2019).
5. Mathematics for Chemistry, Ane Books Pvt. Ltd., 4821, Parwana Bhawan, 24, Ansari Road, Daryaganj, New Delhi-110002, India, **ISSN**-13: 978-93-8676-171-2 and **ISSN**-10:938671617 8 (January 01, 2018).
6. Differential geometry and its Applications, Aushman Publication House, 352/D2 Ajit Bhawan Munirka Near JNU Main Gate, New Delhi 110067, India, **ISBN**-13: 978-9352340125, **ISBN**-10: 9352340124, (January 01, 2016).
7. Tensor Analysis and its Applications, Partridge publication, **ISBN**-13: 978-14828-5067-3 and **ISBN**-10: 1482850672, (August 27, 2015).
8. Fundamental Concepts of Symmetric Manifolds and Sasakian Manifolds, Lap Lambert Academic Publishing, Germany, **ISBN**-13: 978-3-659-76387-8 and **ISBN**-10: 365976387X, (August 3, 2015).
9. Fundamental Concepts of Recurrent Manifolds and Sasakian Manifolds, Lap Lambert Academic Publishing, Germany, **ISBN**-13: 978-3-659-71338-5 and **ISBN**-10: 3659713384, (May 26, 2015).
10. Differential geometry of manifolds, PHI Learning Private Limited, New Delhi-110001, **ISBN**-13:978-81-203-4650-5 and **ISBN**-10: 8120346505, (September 15, 2012).

(b) Development of Textbook

1. Mathematics (class XII), held during July 21- 27, 2006, in the Department of Education in Science and Mathematics (DESM), NCERT, New Delhi - 110016.
2. Mathematics (class XI), held during November 21-23, 2005, in the Department of Education in Science and Mathematics (DESM), NCERT, New Delhi - 110016.

(c) Review / Vetting of Textbook

1. Mathematics (class XII), held during November 17-21, 2008, in the Department of Education in Science and Mathematics (DESM), NCERT, New Delhi-110016.
2. Mathematics (class XI, Part I), held during May 24 - 30, 2005, in the Department of Education in Science and Mathematics (DESM), NCERT, New Delhi-110016.
3. Mathematics (class XI and XII, Part I), held during January 06-14, 2004, in the Department of Education in Science and Mathematics (DESM), NCERT, New Delhi - 110016.
4. Mathematics (class IX), held during December 08-12, 2003, in the Department of Education in Science and Mathematics (DESM), NCERT, New Delhi - 110016.
5. Mathematics (class XI, Part II), held during November 06-10, 2003, in the Department of Education in Science and Mathematics (DESM), NCERT, New Delhi - 110016.
6. Mathematics (class VI and VII), held during November 11- 14, 2003, in the Department of Education in Science and Mathematics (DESM), NCERT, New Delhi - 110016.

LIST OF RESEARCH PAPERS PUBLISHED IN REFEREED JOURNALS

(a) International

1. On an Einstein Projective Sasakian Manifold, Novi Sad J. Math., Vol. 36, No.1, 2006, 97-102.
2. On Generalized Recurrent Sasakian manifolds, Kyungpook Mathematical journal, Vol. 44, No. 2, 2004, 167 - 172.
3. On Recurrent Riemannian Manifolds, Kyungpook Mathematical journal, Vol. 44, No .2, 2004, 269 - 276.
4. On Conharmonically and special weakly symmetric Sasakian manifolds, Novi Sad J. Math.,Vol. 34, No. 1, 2004, 71 - 77.
5. On Special Weakly Symmetric Riemannian Manifolds, Publ. Math. Debrecen, 58 / 3 (2001), 523 - 536.
6. On Generalized Recurrent Riemannian Manifolds, Publ. Math. Debrecen, 56 / 1 - 2 (2000), 87 - 95 (MR # 2001C : 53025 53B21 53B20).
7. On Symmetric Riemannian Manifolds, Novi Sad J. Math. Vol. 29, No. 3, 1999, 301-308.

(b) National

1. On Generalized Pseudo-Symmetric Manifold, Bull. Cal. Math. Soc., 113 (4), 2021, 353 362

2. On Some Classes of the Existence of Generalized Ricci Recurrent Manifolds, Journal of Mathematical Control Science and Applications, Vol. 5 No. 2 (July - December, 2019)
3. On special weakly symmetric Riemannian manifolds, BSG Proceeding, Vol. 28 (2021), 01 11.
4. Study on Special Weakly Symmetric Manifold, J. Nat. Acad. Math. Vol. 34, 2020,15 - 20, ISSN- 0970 - 5228.
5. On Special Weakly Projective Symmetric Manifolds, Ganita Vol. 2021, ISSN-0046 -5402.
6. On a Special Weakly Projectively Symmetric Riemannian Manifold, South East Asian J. of Math. & Math. Sci., Vol. 13 (2), 2017, 133-140, ISSN:0972-7752.
7. On Generalized Recurrent Sasakian Manifold with Special Curvature Tensor $J(X,Y,Z)$, Ganita Vol. 67(2), 2017, 189 -194, ISSN- 0046 - 5402.
8. On Special Weakly Conformally Symmetric Riemannian Manifolds, J. Nat. Acad. Math. Vol. 30, 2016, 1-7, ISSN-0970-5228.
9. On Generalized Ricci Recurrent Sasakian Manifold, J. Nat. Acad. Math. Vol.29, 2015, 23- 28, ISSN-0970-5228.
10. Equipartition of Energy in Turbulent Motion, Vol. 5, 2015, 18 -20, ISSN-2249-9393.
11. The Effect of Magnetic field on Vorticity co - variance in MHD Dusty Turbulence, Jour. PAS, Vol. 20 (Mathematical Science), 2014, 91-97 ISSN-0972-3408.
12. Non - Newtonian Models of Blood flow (A general summary), Jour. PAS, Vol. 18 (Mathematical Science), 2012, 100-111, ISSN-0972 -3408.
13. On special weakly projective symmetric spaces, Journal of Progressive Science Vol. 03, No. 2, 2012, 214 – 217, ISSN-0976 – 4933.
14. Commutation Formulae and Curvature Collineation in a Riemannian Manifold, Ranchi University Mathematical Journal, Vol. 30, 1999, 53 – 61, ISSN-0079 – 9602.
15. On a Study of Special Curvature Tensor in a Riemannian Manifold, J. Nat. Acad. Math. Vol. 12, No. 1 and 2, 1998, 75 - 84. (ISSN-0970 - 5228)
16. On a Generalized r -Recurrent Riemannian Manifold, Ganita Vol. 49, No. 2,1998,127-136 (MR # 99 K: 53013 53B20, ISSN-0046 - 5402.

CONFERENCES/ SEMINARS/ ORIENTATION AND REFERESHER PROGRAMMES

(a) Organized the Conferences / Seminars /Workshops

1. **Organising Secretary** of two days Seminar on Emerging Trends in Physical and Biological Sciences, held during November 09 - 10, 2013, in the Department of Mathematics, Shibli National Post-Graduate College, Azamgarh (U.P.)-276001, India.

(b) Papers Presented in Conferences / Seminars

1. On Ricci recurrent Sasakian manifolds, in 67th Annual Conference of Indian Mathematical Society (IMS), held during January 27- 30, 2002 in the Department. of Mathematics Aligarh Muslim University, Aligarh - 202002, India.
2. On Generalized Recurrent Sasakian Manifold, in the Conference on Emerging Trend in Mathematics, held during March 24 - 26, 2001 in the Department of Mathematics, Aligarh Muslim University, Aligarh - 202002, India.
3. On Conharmonically and Special Weakly Ricci symmetric Sasakian Manifold, in annual conference of Mathematics, held during January 2- 3, 2001, in the Department of Mathematics and Astronomy, Lucknow University, Lucknow - 226007, India.
4. On Recurrent Riemannian Manifolds, in International Conferences on Geometry, Analysis and application, held during August 21- 24, 2000, in the Department of Mathematics, BHU, Varanasi, India.
5. On Proper Weakly Symmetric Riemannian Manifolds, in 65th Annual Conferences of Indian Mathematical Society (IMS), held during December 20 - 23, 1999, in the Department of Mathematics, APS University, Rewa (M.P) - 486003, India.
6. Commutation Formulae and Curvature Collineation in a Riemannian Manifold, in 11th Annual Conference of Purvanchal Academy of Sciences (PAS), held during December 11 -12, 1999, in the Department of Mathematics, T. D. Post Graduate College, Jaunpur -222002 (U.P.), India.
7. On Generalized Recurrent Riemannian Manifolds, in 64th Annual Conference of Indian Mathematical Society (IMS), held during December 19 - 22, 1998, in the Department of Mathematics and Statistics, Gurukula Kangri Vishwavidyalaya, Hardwar, India.
8. On a Generalized r - Recurrent Riemannian Manifold, in 10th Annual Conference of Purvanchal Academy of Sciences (PAS), held during December 12 - 13, 1998, in the Department of Mathematics, Shibli National Post- Graduate College, Azamgarh - 276001 (U.P.), India.

(c) Attended the Conferences / Seminars /Workshops

1. The short term course in Research Guidance, Quality Research and its Metrics, held during September 24 -30, 2013, in Academic Staff College, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur (U. P.), India.
2. Workshop, organized by National Council for Promotion of Urdu Language (NCPUL), to review of the manuscript of Terminology of the Mathematics held on May 07 -11, 2012, in NCPUL (Ministry of Human Resource Development, Government of India), Farogh- e -Urdu Bhawan, FC-33/9, Institutional Area, Jasola, New Delhi -110025.
3. Workshop, organized by National Council for Promotion of Urdu Language (NCPUL), to review of the manuscript of Terminology of the Mathematics held

on April 16, 2012, in NCPUL (Ministry of Human Resource Development, Government of India), Farogh - e - Urdu Bhawan, FC-33/9, Institutional Area, Jasola, New Delhi -110025.

4. Workshop, organized by National Council for Promotion of Urdu Language (NCPUL), to review of the manuscript of Terminology of the Mathematics held on October 17 -21, 2011, in NCPUL (Ministry of Human Resource Development, Government of India), Farogh - e -Urdu Bhawan, FC-33/9, Institutional Area, Jasola, New Delhi -110025.
5. The lecture on Life and works of the legendary Indian Mathematician - Srinivas Ramanujan, held during December 22, 2004, in the Department of Mathematics, J.M.I., New Delhi - 25, in the collaboration with the Department of Science and Technology, Gov. of India.
6. Group Monitoring workshop in Earth, Atmospheric and Mathematical Sciences, held during January 16 -17, 2004 in Physical Research Laboratory, Ahmedabad.

(d) Delivered Talk in Conferences / Seminars

1. Tensor Analysis and its Applications, in National Conference on Recent Trends in Mathematical Sciences, held during July 23 - 24, 2016, in the Department of Mathematics and Statistics, D.D.U. Gorakhpur University, Gorakhpur (U.P.), India.
2. Applications of Tensor Calculus, in National Conference on Relevance of Ramanujan's work and its Applications in Mathematical Sciences, held during October 24 - 26, 2015, in the Department of Mathematics, T. D. Post Graduate College, Jaunpur - 222002 (U.P.), India.
3. Riemannian Manifold and its Applications, in National Conference on Advances in Mathematical Science and its Applications jointly organized by Indian Society of Mathematics & Mathematical Sciences (ISMAMS), held during February 20 - 21, 2015, in the Department of Mathematics and Statistics, D.D.U. Gorakhpur University, Gorakhpur (U. P.), India.
4. Study of Special Curvature Tensors, in National Conference on Recent Developments in Special Functions and their Applications , held during November 04 - 06, 2014, Department of Mathematics, T. D. Post Graduate College, Jaunpur- 222002 (U. P.), India.
5. Semi Inner Product Space, in 11th National Conference on Role of Mathematical Sciences in Science and Technology jointly organized by Indian Society of Mathematics and Mathematical Sciences (ISMAMS), held during February 21 - 22, 2014, in the Department of Mathematics and Statistics, D.D.U. Gorakhpur University, Gorakhpur (U. P.), India.
6. Study on Recurrent Riemannian Manifolds, in National Conference on Ramanujan's Mathematics and Mathematics Education, held during December 01 - 03, 2013, in the Department of Mathematics, T. D. Post - Graduate College, Jaunpur (U.P.) - 222002, India.
7. Study on Symmetric Riemannian Manifolds, in two days Seminar on Emerging Trends in Physical and Biological Sciences, held during November 09 -10, 2013, in the Department of Mathematics, Shibli National Post -Graduate College, Azamgarh- 276001 (U.P.), India.

8. Application of Relativity, in the workshop on Electromagnetic Waves and Special Relativity organized by Sadbhav Mission, held during October 26 - 27, 2013, in the Department of Physics, Shibli National Post -Graduate College, Azamgarh - 276001 (U.P.), India.
9. Study on Recurrent and Generalized Riemannian Manifolds, in the Workshop on a Tribute to S. Ramanujan and Prof. S. Chandrasekhar (Life and Work), held during April 18 - 22, 2013, in the Department of Mathematics, T. D. Post - Graduate College, Jaunpur (U.P.) - 222002, India
10. Study on Symmetric Riemannian Spaces, in 1st Uttar Pradesh Science Congress, held during March 2 -4, 2013, in the Department of Mathematics and Statistics, D.D.U. Gorakhpur University, Gorakhpur (U. P.), India.
11. Study on generalized recurrent and Sasakian manifolds, in National Conference on Applied Mathematics and Computational Physics (NCAMCP - 2012), held during February 25-26, 2012, in the department of Mathematics and Physics, Hindu college Moradabad (U. P.), India.
12. Application of Tensor Analysis in Differential geometry, Relativity and other Applied Sciences, in National Conference on Ramanujan's Work in the field of Hypergeometric Series and its Application, held during December 04 - 06, 2011, in the Department of Mathematics, T. D. Post- Graduate College, Jaunpur - 222002 (U.P.), India.
13. Application of Differential geometry, in 19th Annual Conference of Purvanchal Academy of Sciences (PAS), held during February 20 - 21, 2010, in the Department of Mathematics, T.D. Post - Graduate College, Jaunpur - 222002 (U. P.), India.
14. Application of Riemannian geometry, in 18th Annual Conference of Purvanchal Academy of Sciences (PAS), held during February 19 - 20, 2009, in the Department of Mathematics, T. D. Post- Graduate College, Jaunpur -222002 (U. P.), India.
15. Application of Tensor Analysis, in 17th Annual Conference of Purvanchal Academy of Sciences (PAS), held during February 19-20, 2008, in the Department of Mathematics, K. S. Saket Post - Graduate College, Ayodhya - Faizabad (U.P.), India.
16. On Special Weakly Conformally Symmetric Riemannian Manifold, in 15th Annual Conference of Purvanchal Academy of Sciences (PAS). held during November 19-20, 2005, in the Department of Mathematics, T. D. Post - Graduate College, Jaunpur -222002 (U. P.), India.

(e) Orientation Programmed

1. 80th four - week Orientation Programme organized by the UGC - ASC, Jamia Millia Islamia, New Delhi - 110025, held during January 19, 2007 to February 19, 2007 and obtained grade **A** .

(f) Refresher Programmed

1. 4th three-week Refresher Course in Basic Sciences (Interdisciplinary) organized by the UGC- ASC, Jamia Millia Islamia, New Delhi-110025, held during May 12, 2014 to June 02, 2014 and obtained grade **A**.

2. 2nd three-week Refresher Course in Information Technology (Multidisciplinary) organized by the UGC - ASC, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur (U. P.), India, held during February 15, 2014 to March 07, 2014 and obtained grade **A**.

MEMBERSHIP OF SCIENTIFIC SOCIETIES

1. Indian Society of Industrial and Applied Mathematics (ISIAM)
2. Indian Mathematical Society (IMS)
3. Bharata Ganita Parisad (BGP)
4. Academy of Progress of Mathematics (APM)
5. National Academy of Mathematics (NAM)

(DR. QUDDUS KHAN)