

Dr. Musharraf Ali

Curriculum Vitae

Present Position

Associate Professor
Department of Mathematics
[Gandhi Faiz-e-Aam College,](#)
[Shahjahanpur, India](#)

Address

Postal Department of Mathematics
[Gandhi Faiz-e-Aam College, Shahjahanpur](#)
[242001, UP, India](#)

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Shahjahanpur 242001, U.P., India

Personal Information

Father's Name Muqaddas Ali

Date of Birth September 09, 1973

Place of Birth Ushait, Budaun, UP, India

Marital Status Married

Nationality Indian

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Scopus iD <https://www.scopus.com/authid/detail.uri?authorId=57216672333>

WoS Profile Web of Science ResearcherID: AAJ-4521-2021
<https://publons.com/researcher/4336770/musharraf-ali/>

GS Profile https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=musharraf+ali&oq=m

RG Profile <https://www.researchgate.net/profile/Musharraf-Ali-5>

ACADEMIC QUALIFICATIONS

Ph.D.	Mathematics, Dr Bhim Rao Ambedkar University, Agra, India, 2006.
Topic of Ph.D.	Mathematical analysis of optimal accelerated life test plans
Master of Science	Mathematics, first division from Rohilkhand University, Bareilly, India, 1997
Bachelor of Science	Mathematics and Physics, first division from Rohilkhand University, Bareilly, India, 1994
Intermediate	Mathematics, Physics and Chemistry, first division from U.P. board, Allahabad, India, 1991
High School	Mathematics, Physics and Chemistry, first division from U.P. board, Allahabad, India, 1989

FIELD OF SPECIALIZATION AND INTEREST

Special Functions, Integral Transforms and other related emerging areas,
Mathematical Modelling, Life test plans of non survival items.

TEACHING EXPERIENCE

20 years

- Nov 14, 2020-Continue Professor (Associate), Department of Mathematics,
[Gandhi Faiz-e- Aam College, Shahjahanpur, India](#)
- Nov 14, 2008-Nov 2020 Professor (Assistant), Department of Mathematics,
[Gandhi Faiz-e- Aam College, Shahjahanpur, India](#)
- August 2007 - Nov 2008 Reader, Department of Mathematics, Vishveshwarya Institute of
Engineering and Technology, Greater Noida, India.
- July 2004 - August 2007 Senior Lecturer, Department of Mathematics, Vishveshwarya
Institute of Engineering and Technology, Greater Noida, India
- Oct 1999 - June 2004 Lecturer (temporary), Department of Mathematics, N.M.S.N. Das (P.G.)
College, Budaun, India.

COURSES TAUGHT

- Under-graduate Differential Equations, Integral transform, Special Functions, Calculus, Advanced
Calculus, Vector Analysis, Dynamics and Statics, Co-ordinate Geometry of two
dimensions, Co-ordinate Geometry of three dimensions, Matrix, Numerical Analysis,
Complex Analysis. Real Analysis, Modern Algebra, Convergence of infinite series,
Engineering Mathematics, Advance Engineering Mathematics.
- Post-graduate Complex Analysis, Fluid Dynamics, Mathematical Statistics.

RESEARCH PUBLICATIONS

1. Multi-index Fubini-type polynomials, *Montes Taurus Journal of Pure and Applied Mathematics*, 4(1) (2022), 97-106. (with Richard Bruce Paris).
[SCOPUS Refereed and Indexed journal]
2. Extensions of beta and related functions, *The Journal of analysis*, (2021), (with Richard Bruce Paris and M. Ghayasuddin).
[SPRINGER, SCOPUS Refereed and Indexed journal]
3. Construction of Generalized k-Bessel–Maitland function with Its certain properties, *Journal of Mathematics Hindawi*, Volume 2021, Article ID 5386644, 14 pages, (with Hasan Aydi, Jihad Younis, M. Ghayasuddin and W.A.Khan).
[SCI, ESCI, SCOPUS Refereed and Indexed journal, I.F. 0.91. Q3]
4. A unified presentation of Beta, Gauss and confluent hypergeometric functions, *Advance studies in contemporary mathematics*. 32(1) (2022), 53-62. (with W.A. Khan and M. Ghayasuddin).
[SCOPUS Refereed and Indexed journal]
5. A Novel kind of the multi-index Whittaker function and its certain properties, *International Journal of Applied Mathematics*, 34(6) (2021), 1031-1047. (with K.S. Nisar, W.A. Khan).
[Elsevier, SCOPUS Refereed and Indexed journal, Q3]
6. A note on extended Beta, Gauss and confluent hypergeometric functions, *Italian Journal of pure and applied Mathematics*, 46(2) (2021), 815-826. (with M. Ghyasuddin).
[SCOPUS Refereed and Indexed journal, Q4]
7. Integrals with two-variable generating function in the Integrand, *Montes Taurus Journal of Pure and Applied Mathematics*, 3(3)(2021), 95-103. (with T. K. Pogany and M. Ghayasuddin).
[SCOPUS Refereed & Indexed Journal]
8. A Novel kind of the multi-index Beta, Gauss, and confluent hyper geometric function, *Journal of Mathematics and Computer Science*, 23(2021), 145-154. (with K.S. Nisar, W.A. Khan, M. Ghayasuddin)
[ESCI, SCOPUS Refereed and Indexed journal, Q3]

9. Degenerate Hermite poly-Bernoulli numbers and polynomials with q-parameter, *Stud. Univ. Babeş-Bolyai Math.*, 65(1) (2020), 3-15. (with W.A. Khan & I.A. Khan)
[Elsevier, SCOPUS Refereed and Indexed journal, Q3]
10. A Study of extended Beta, Gauss and confluent hypergeometric functions, *International journal of Applied Mathematics*, 33(1) (2020), 1-13. (with Nabiullah Khan & M. Ghayasuddin)
[Elsevier, SCOPUS Refereed and Indexed journal, Q3]
11. Certain new extensions of Whittaker function and its properties, *Indian Journal of Mathematics*, 62(1) (2020), 81-96. (with Nabiullah Khan & M. Ghayasuddin)
[Elsevier, SCOPUS Refereed and Indexed journal, Q4]
12. Study on double integral operator involving generalized Bessel-Maitland function. *Palestine Journal of Mathematics*, 9(2)(2020), 991-998. (with W.A. Khan & I.A. Khan)
[SCOPUS Refereed and Indexed journal]
13. On certain integral transform involving generalized Bessel-Maitland function and applications, *Journal of fractional calculus and applications*, 11(1) (2020), 82-90. (with W.A. Khan & I.A. Khan)
[UGC CARE 1 Refereed and Indexed journal]
14. Certain integrals involving extended Bessel-Maitland function with generalized Jacobi polynomial, *New Trends in Mathematical Sciences*, 8(1)(2020), 42-49. (with W.A. Khan)
[Refereed and Indexed journal]
15. Some integral involving extended Bessel-Maitland function with Jacobi polynomial, *Ganita*, 69(2) (2019), 1-8. (with W.A. Khan)
[UGC CARE 1 Refereed and Indexed journal]
16. Beta type integral operator involving generalized Bessel-Maitland function, *Tamap Journal of Mathematics and Statistics*, 16(2019), 1-7. (with W.A. Khan & I.A. Khan)
[Refereed and Indexed journal]
17. A note on q-analogue of Hermite poly-Bernoulli numbers and polynomials, *Mathematica Moravica*, 23(2) (2019), 1-16. (with W.A. Khan & I.A. Khan)
[Refereed and Indexed journal]

18. An efficient identity based multi-proxy multi-signcryption scheme from bilinear pairings, *International Journal of Computer Applications*, **151(6)(2016)**, 0975-8887. (with Tej Singh & Rashid Ali)

[Refereed & Indexed Journal]

RESEARCH PAPERS ACCEPTED

- On Multi-index Whittaker function, related integrals and inequalities, *Journal of Mathematical inequalities*, (with Jordanka Paneva-Konovska and Tibor K. Pogany) **[SCI, SCOPUS Refereed and Indexed journal, I.F. 1.225. Q2]**
- Generalized Beta-type integral operators, *Indian Journal of Mathematics*, arXiv:2006.07599v1 [math.CA] 13 June 2020, (With Richard Bruce Paris and M. Ghayasuddin). **[Elsevier, SCOPUS Refereed and Indexed journal, Q4]**
- A further extensions of Beta and related functions, *Palestine Journal of Mathematics*. **[SCOPUS Refereed and Indexed journal]**

RESEARCH PAPERS UNDER REVIEW

- On Entropies and Fisher Information matrix for an extended Beta Distribution, *International journal of Applied and Computational Mathematics*, (With S.A. Siddiqui, A. Saboor and R.B. Paris). **[SPRINGER, SCOPUS Refereed and Indexed journal]**

EDITORIAL SERVICES

Reviewer for the journals- Journal of Applied and Pure Mathematics, Korea.

<http://japm.or.kr/>

Journal of Applied Mathematics and Informatics, South Korea.

<http://jami.or.kr/>

Journal of Function Spaces, Hindawi, Egypt.

<https://www.hindawi.com/>

Proceedings of the Jangjeon Mathematical Society, South Korea.

<https://www.jangjeonopen.or.kr/>

European journal of Pure and Applied Mathematics, USA.

www.ejpam.com

Member- Life member of Bharat Ganita Parishad (BGP), Lucknow, India.

<https://bharataganitaparisad.com/>

BOOKS

- A text book of B.Sc. First year “Geometry and Vector Calculus” is published as coauthor in 2011, by Krishna Prakashan Media Pvt. Ltd., Meerut. ISBN: 81-8283-537-2.
- A text book of B.Sc. second year “Linear Algebra and Matrices” is published as coauthor in 2012, by Krishna Prakashan Media Pvt. Ltd., Meerut. ISBN: 81-8283-348-5.
- A text book of B.Sc. third year “Linear Programming” is published as coauthor in 2016, by Students’ Friends and Company, Agra. ISBN: 978-93-82933-16-8.
- A text book of B.Sc. First year, sem 1 as per NEP-2020 syllabus “Integral Calculus” is published as coauthor in 2021, by Krishna Prakashan Media Pvt. Ltd., Meerut. ISBN: 81-8283-537-2.

ADMINISTRATIVE WORK

- Convenor of Flying Squad in the Main Examination of Mahatma Jyotiba Phule Rohilkhand University, Bareilly during session 2014-15.
- Member of Flying Squad in the Main Examination of Mahatma Jyotiba Phule Rohilkhand University, Bareilly during session 2012-13, 2013-14, 2014-15, and 2015-16.
- Appointed as Expert in the Research Entrance Committee of Mahatma Jyotiba Phule Rohilkhand University, Bareilly held in year 2018.
- Appointed as University coach of Lawn Tennis of Mahatma Jyotiba Phule Rohilkhand University, Bareilly held in year 2018.
- Appointed as Subject Expert in the Selection committee of Mahatma Jyotiba Phule Rohilkhand University, Bareilly held in year 2014.
- Assistant Examination Superintendent in the Main Examination, Session 2019-20.
- Assistant Proctor in Proctorial board during session 2016-17.
- Member in Sports Committee as a President of Lawn Tennis during session 2012-13, 2013-14, 2014-15, 2015-16.
- Member in Admission Committee in Mathematics Group from the session 2009-10, 2010-11, 2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17, 2017-18, 2018-19, 2019-20 & 2020-21.
- Appointed as a Viva-Voce Examiner of B.Sc Mathematics at Dr. B.R. Ambedkar University, Agra during session 2016-17 & 2017-2018.

ORIENTATION PROGRAMME / REFERESHER COURSES / WORKSHOPS ATTENDED

- **UGC sponsored orientation programme:** CXXII- Orientation programme, 13 March – 11 April, 2012, UGC Academic Staff College, A.M.U., Aligarh.
- **UGC sponsored subject refresher course:** SRC in Information and Communication Technology, March 01-21, 2016, UGC Human resource Development Centre, University of Lucknow, Lucknow.
- **UGC sponsored subject refresher course:** SRC in Special Summer School in Basic Sciences, 23 June – 13 July, 2018, UGC Human resource Development Centre, A.M.U., Aligarh.
- **Short Term Course:** Training Programme on Academic Leadership July 20 – 26, 2017, UGC Human resource Development Centre, A.M.U., Aligarh.
- **Faculty Development Programme:** Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, one week inter disciplinary faculty development programme sponsored by Ministry of Human Resource Development, May 22 - 28, 2020. University of Delhi, Delhi.
- **Faculty Development Programme:** Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, one week inter disciplinary faculty development programme sponsored by Ministry of Human Resource Development, August 18 - 25, 2020. University of Delhi, Delhi.
- **Faculty Development Programme:** Attend online one week faculty development programme on LaTeX, July 06 - 10, 2020. National Mission On Education Through ICT, Ministry of Human Resource Development, Govt of India, IIT Mumbai.
- **Workshop** on Advance Mathematics and its Applications in Engineering, May 15-16, 2020 organized by Department of Mathematics, IPS Academy, Institute of Engineering and sciences, Indore.
- **Workshop** on Application of Fixed Point Theory to Nonlinear Problems in Engineering Applications , May 08, 2017 organized by Department of Engineering Mathematics, lakshmi Narain College of technology, Bhopal.
- **Workshop on MATLAB** Mathematical Aspect in Engineering Applications, Modeling, Simulation and Optimazion, February 12-13, 2016 organized by Department of Mathematics, LNCT, Bhopal.

ABSTRACT PUBLISHED IN NATIONAL / INTERNATIONAL CONFERENCES / SYMPOSIUMS / SEMINAR

- A Study of extended beta, Gauss and Confluent hypergeometric functions, National Conference, Department of Mathematics, LNCT University, Bhopal, India, April 30, 2020.
- Certain new extension of whittaker function and its properties, International Conference on Mathematical Techniques and Applications, Department of Engineering Mathematics, Lakshmi narain college of technology, Bhopal, India, June 13, 2020.
- Study on Some integral involving extended Bessel-Maitland function with Jacobi Polynomial, International Conference on Recent Advancements in Science and Technology (ICRAST-2020), Department of Mathematics, Glocal University, Saharanpur, November 11-12, 2020.
- Research Methodology, Department of Mathematics and Sciences, College of Arts and Applied Science, Dhofar University Salalah, Oman, December 30, 2020.
- Mathematical Modelling and the Pandemic, Department of Mathematics and Astronomy, University of Lucknow, India, December 12-13, 2020.
- Recent Trends of Teaching in Mathematics in present situations, Department of Mathematics, P.G. College, Pipariya, India, May 14, 2020.
- Mathematical Modelling of the motion of nanoparticles, National Seminar on Nano Technology and Green Chemistry, organized by Gandhi Faiz-e-Aam College, Shahjahanpur, February 02, 2017.
- A note on extended beta function and its properties, National Conference on Number Theory, Special functions and their Applications in Computer science, Ramanujan Society of Mathematics and mathematical sciences and Department of Mathematics, T.D.P.G College, Jaunpur, Uttar Pradesh, November 08-10, 2019.
- A note on extended beta, Gauss and Confluent hypergeometric functions , 67th International Conference on Modern Analysis and Applications (CMAA-2019), Department of Mathematics and computer science Babu Banarsi Das University, Lucknow, Uttar Pradesh, November 16-17, 2019.
- Development and characterization of a new infinite range failure model, International Conference on Algebra and Applied Analysis (ICAAA-2018), Department of Mathematics, Integral University, Lucknow, Uttar Pradesh, August 09-11, 2018.
- Development of optimal accelerated life test model for log-logistic distribution under periodic inspection and censoring: A Mathematical Analysis, National Conference on Advances in Operations Research and Mathematical Sciences (AORMS-2018), Department of Mathematics and Statistics, Vardhaman College, Bijnor, India, February 24-25, 2018.
- The role of Mathematics in environmental culture and scientific progress: An overview, National Conference on Scientific rationality and socio-cultural changes, organized by Govt. College Bisalpur and sponsored by Dept. of higher education, Govt. of Uttar Pradesh, January 20-21, 2018.

- Scientific approach of skill development in Mathematics education: An overview, National Seminar on Skill development: Bridging gaps between entrepreneurship and academic excellence, organized by V.R.A.L Rajkiya Mahila Mahavidyalaya, Bareilly and sponsored by Dept. of higher education, Govt. of Uttar Pradesh, January 06-07, 2018.
- Mathematical modeling of DNA structure, Dynamics and Mechanics, 4th International Conference on Emerging trends in protein science and proteomics (GenoPro-2017)), organized by Invertis University, Bareilly, September 15-16, 2017.
- Climate change and risk management: A case study on flood disaster risk in India, National Conference on Bio-degradation of wildlife, environment and Biodiversity, organized by Gandhi Faiz-e-Aam College, Shahjahanpur, March 19-20, 2017.
- Mathematical analysis of optimal accelerated life test plans, National Conference on Modern Trends in Analytical and Environmental Physics (NCMTAEP-2016), Department of Mathematics Hindu College, Moradabad, Uttar Pradesh, October 17-18, 2016.
- A Pure constant coefficient of variation in a Novel life testing model, International Conference on Recent Advances in Mathematical Sciences and its Applications (RAMSA-2016), Department of Mathematics, Jaypee Institute of Information Technology, Noida, India, December 08-10, 2016.
- The role of Mathematics in understanding climate change, National Seminar on Advances in Plant Science Frontier: Development and Environment, organized by Gandhi Faiz-e-Aam College, Shahjahanpur, November 26-27, 2016.
- Ethics in Mathematics teaching and learning: An overview, National Seminar on Promotion of Ethics and Human Values organized by Gandhi Faiz-e-Aam College, Shahjahanpur, February 01, 2016.

Date: 01-01-2022

Place: Shahjahanpur

(Dr. Musharraf Ali)

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