

DR. QUAZZAFI RABBANI

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Current position: Associate Professor

Department of Mathematics & Statistics, Integral University, Lucknow

Teaching Engagement:

Teaching at Ph. D level, the title of the course is Pre Ph.D.

Teaching at PG level, the titles of the programs are, M. Sc., MBA and M. Tech.

Teaching at UG level, the titles of the programs are B.Sc., B.B.A and B. Com.

Subject Taught:

Pre Ph.D.-Course work: Research Methodology

PG Program: Operations Research, Optimization Techniques, Reliability Theory.

UG Program: Descriptive Statistics, Probability Theory, Sampling Techniques, Testing of Hypothesis, and Linear Programming

Work Experience:

Lecturer in the Department of Mathematics & Statistics, Integral University from 4-7-2008 to 30-06-2009

Assistant Professor in the Department of Mathematics & Statistics, Integral University from 01-7-2009 to 31-08-2014

Associate Professor in the Department of Mathematics & Statistics, Integral University from 01-09-2014 till date

Educational Qualifications:

Ph. D. (Operations Research), A.M.U., Aligarh, (2008).

M. Phil. (Operations Research), A.M.U., Aligarh (2003).

M. Sc. (Operations Research), A.M.U., Aligarh (2001).

B. Sc. (*Hon. in Statistics*), A.M.U., Aligarh, (1998).

Ph. D. Thesis: *Fourier's Method Applied to solve some Mathematical Programming Problems.*

M. Phil. Dissertation: *Goal Programming*

Number of Ph. D. Thesis Guided: 04

Number of PG Dissertation Guided: 09

Published Articles:

1. Determination of Continuous Deterioration Level due to Changing Demand Rates in Inventory: "Communications on Applied Nonlinear Analysis" ISSN: 1074-133X, V-31, No. 3s, pp.325-335, 2024. **(Indexed in SCOPUS)**
2. An evaluation of the potential for disruption to the entire inventory management function schedule: "Educational Administration: Theory and Practice", ISSN: 2148-2403 V-30, No.4, pp.8061-8066. 2024. **(Indexed in SCOPUS)**
3. Determination of Optimum Sample Size and Variance in Multivariate Stratified Sampling with Non-Linear Time Function: "Journal of Science and Arts" e-ISSN: 1844-9581, V- 23, Issue 2, pp. 513-524, 2023. **(Indexed in ESCI)**
4. Selective maintenance modeling of industrial systems having replaceable and repairable components: "International journal of agricultural and statistical sciences" e-ISSN: 0976-3392, Vol-18, Supp. 1, pp1927-1934, 2022. **(Indexed in SCOPUS)**
5. Compromise mixed allocation in multivariate Stratified sampling with travel cost using Dynamic programming technique: Proceeding "Journal of Rajasthan Academy of Physical Sciences", ISSN: 0972-6306, pp 89-98. 2022. **(Indexed in ESCI)**
6. Compromise allocation for two-stage sampling with quadratic travel cost using dynamic programming technique: "International Journal of Applied Mathematics" Vol. 35, No. 1, ISSN: 1314-8060, pp173-180. 2022. **(Indexed in SCOPUS)**
7. An extended application of average sum method "Advances and Applications in Mathematical Sciences" ISSN: 974-6803, Vol. 20, Issue 8, pp 1509-1515, 2021. **(Indexed in ESCI)**
8. Assignment of multiple jobs scheduling to a single machine "Advances in Mathematics: Scientific Journal" 10, No.2, ISSN: 1857-8438 pp1003–1011, 2021. **(Indexed in SCOPUS)**
9. Incidence and Antimicrobial profile of extended spectrum β lactamase producing gram-negative bacterial isolates: An in-vitro and statistical analysis "Journal of infection and Public Health" Vol-13, ISSN: 1876-0341, pp 1729-1733, 2020. **(Indexed in SCIE, Impact Factor: 6.7)**
10. Modified Hungarian method for unbalanced assignment problem with multiple jobs "Applied Mathematics and Computation" Vol-361, ISSN: 0096-3003, pp 493-498, 2019. **(Indexed in SCI, Impact Factor: 4)**
11. Application of Queuing Model in Tourism Management Imperial Journal of Interdisciplinary Research, ISSN: 2454-1362 Vol-2, Issue-5, pp.1524-1528, 2016.
12. An Improved Extreme Point Enumeration Technique for Assignment Problem: The International Research Journal of Science & IT Management, Vol.4, No. 12, ISSN: 2251-1563, pp 11-13, 2015
13. A Procedure for Solving Integer Bilevel Linear Programming Problems: International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, Issue 1, ISSN: 2319-8753, pp 8233-8237, 2014.
14. Practical Implementation of Queueing Model in Human Resource Development: International Journal of Engineering Research & Technology, Vol. 3 Issue 1, ISSN: 2278-0181, pp 702-712, 2014.

15. Applications of Queuing Process in Economic Literature with Some Models: *Ultra Scientist of Physical Sciences*, ISSN: 0970-9150, Vol. 24(1) A, pp 177-184, 2012.
16. Applications of Queuing Models in Effective Library Management: *Bookman International Journal of Accounts, Economics and Business Management*, Vol. 1, No.1. ISSN No. 2319-426X, pp 25-28, 2012.
17. Queuing Process with Two Servers in Bulk- Service: *VSRD-TNTJ International Journal*, Vol. 3, No. 8, ISSN: 0976-7967, pp 297-306, 2012.
18. Application of Queuing Models in Real Life: *IOSR Journal of Mathematics*, Vol.2, No.1, ISSN: 2278-5728, pp 41-45 2012
19. Modified Fourier's Method for Solving Quadratic Programming Problems: *International Journal of Mathematical Archives*, Vol. 2, No. 11. ISSN: 2229-5046 pp 2005-2012, 2011
20. Extended K-th Best Approach for Solving Bilevel Linear Integer Programming: *International Journal of Applied Mathematical Analysis and Applications*, ISSN: 0973-3868, Vol. 4, No.1, pp. 11-17, 2009.
21. An Algorithm for the Mixed-Integer Concave Quadratic Bilevel Programming Problem: *International Review of Pure and Applied Mathematics*, ISSN: 0973-1350, Vol. 5, No.2. pp. 355-361, 2009.
22. Modified Fourier's Method for Solving Multi-Objective Linear Programming Problems: *Pure & Applied Mathematika Sciences*, ISSN: 0379-3168, Vol. LXX, No. 1-2, 2009.
23. A Note on Naz Cut for Integer Programming: *Pure & Applied Mathematika Sciences*, ISSN: 0379-3168, Vol. LXVIII, No.1-2. 2008.
24. Integer Optimum through Modified Fourier's Method: *Convergence Asia*, Jan-March, V-5, No.1 pp. 42-46, 2007.

Paper Presentation:

1. "Average sum method for unbalanced Assignment problem" presented at *International Conference on advance Trends in computational Mathematics, Statistics and Operations Research*, organized by Department of Applied Sciences, The North-Cap University, Haryana, April 2-3, 2022.
2. "Modified Hungarian method for unbalanced Assignment Problem" presented at *International conference on Mathematical and Statistical Computation* organized by Department of Mathematics, SKIT & Rajasthan Academy of Physical Sciences, Jaipur, Rajasthan, March 3-5, 2022.
3. "An Improved Extreme Point Enumeration Technique for Assignment Problem" presented at *International Conference on Recent Trends in Mathematics and its Applications*, organized by Department of Mathematics, JMI, New Delhi, March 30-31, 2009.
4. "Solution of Quadratic Programming problems by Modified Fourier's Method" presented at *International Conference on Algebra and Applied Analysis*, organized by Department of Mathematics, Integral University, Lucknow, Aug. 9-11, 2018.
5. "Fourier's Method for Multi-objective Programming Problems" presented at *National Conference on Advances in Mathematical Sciences and its Applications*, organized by Department of Mathematics and Statistics, DDU, Gorakhpur, Feb. 20-21, 2015.

Expert/ Guest Lecture:

1. Delivered a series of lecture in Professional development program on “Inferential Statistics for data science to achieve the sustainable development goals” organized by Department of Mathematics & Statistics, Integral University, Lucknow from 20-07-2022 to 02-08-2022
2. Delivered a guest lecture on the topic “Statistical modeling” organized by faculty of Pharmacy, Integral University, Lucknow on 17-04-2017

Conferences/Workshops

- Participated in the National Seminar on Mathematical and Statistical computing organized by the Department of Mathematics & Statistics, Integral University Lucknow. (May 4, 2024).
- Participated in “Two Week Refresher Course” organized by Department of Mathematics & Statistics and HRDC of Integral University, Lucknow. (Sept. 23-Dec. 9, 2023)
- Participated in the “Faculty Induction Programme” organized by UGC Human Resource Development Centre, Aligarh Muslim University. (Sept.7-Oct. 12, 2021)
- Participated in Faculty Development Program on “Multi-objective Optimization” organized by Soft Computing Research Society, New Delhi. (June 23-27, 2020).
- Participated in National workshop on “Role of Mathematics in Science & Technology” organized by Department of Mathematics, Integral University, Lucknow. (April 10, 2017).
- Short term Course on “Data Analysis/MINITAB and SPSS” organized by Integral University association with CALEM, AMU, Aligarh. (February 2-8, 2016).
- Participated in National Workshop on “Data Analysis by SPSS” organized by Department of Mathematics, Integral University, Lucknow. (February 25, 2015).
- Participated as a Discussant Conference on Applied Statistics and its Applications organized by Department of Applied Statistics, Babasaheb Bhimrao Ambedkar University (BBAU), Lucknow. (March 16-17, 2013)
- Participated in the National Conference on Statistical Inference, Sampling Techniques and Related Areas, organized by Department of Statistics and Operations Research, AMU, Aligarh. (February 12-13, 2012)
- Participated in 27th National Conference on Mathematical and Statistical Techniques and its Applications in Science and Engineering, organized by Department of Applied Mathematics & Statistics, BBAU, Lucknow. (Nov. 26-27, 2011)
- Participated in the National Conference on Statistical Inference, Sampling Techniques and Related Areas, organized by Department of Statistics and Operations Research, AMU, Aligarh. (March 28 - 29, 2011)
- Participated in the National Workshop on Matrices and Applications, organized by Indian Statistical Institute, Hyderabad, Andhra Pradesh. (January 5-12, 2006)
- Participated in 5th International Symposium on Optimization and Statistics, organized by Department of Statistics & OR, AMU, Aligarh. (December 28-30, 2002)