Curriculum Vitae

Dr. Triloki Nath
Ph. D. (BHU)
Associate Professor
Department of Mathematics & Statistics
Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur (U. P.)
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EDUCATION:

- **M. Sc. (2003) & Ph. D.** (BHU), Varanasi, 2011.
  (Title of Ph. D. Thesis: Some Problems on Nonsmooth Vector Optimization)
- **CSIR NET JRF and SRF (**Junior and Senior Research Fellowship).
- **GATE** qualified AIR- 4, 99.86 percentile, interview called for **SPMF**

TEACHING EXPERINCE:

- Presently working as an **Associate Professor (Mathematics)**, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur (U. P.) since July 01, 2023.
- **Assistant Professor (Mathematics)** at Dr. H. S. Gour Vishwavidyalaya (A Central University), Sagar, from 26/06/2013 to 30/06/2023.
- **Assistant Professor (Mathematics)** at National Institute of Technology, Mizoram (an institute of national importance) from 19/07/2011 to 24/06/13.
- **Twelve and half years** (approx.) of teaching experience at UG, PG and Ph. D. level.

RESEARCH EXPERINCE:

- Approx. **12 Years**, **One Ph. D. supervision (awarded, Title of Thesis: Enhanced Stationarity and Constraint Qualification for Mathematical Pragrams with Vanishing Costraints.), currently one Ph.D. students are working under my co-supervision**
- Completed One Research Project UGC-Startup Grant of Rs. **Six Lakhs.**
- Total International paper: **10 (with high impact factor)**.

(Dr. Triloki Nath)

- Total Citations: **25; h-index 2; i10-index: 1**

RESEARCH AREA:

- Optimization Theory: Nonsmooth Analysis, Variational Inequality, Convex Optimization.
- Geometric Functional Analysis.
- Elementary Number Theory.

PUBLICATIONS

1. **Triloki Nath**, Some Proofs of Infinitude of Primes, (Pal. J. Math.) (accepted) **(Scopus)**

2. **Triloki Nath**, An Elementary Proof of the Power Rule of Differentiation, Resonance: Journal of Science Education, 26 (2021) (26) 1585-1587 (Springer) (Scopus, UGC-CARE).

3. **Triloki Nath**, Differentiability of distance function and the proximinal condition implying convexity, Journal of Analysis, 29 (2021) 247-261. ISSN 2367-2501 (Springer) (Scopus, UGC-CARE)

4. Abeka Khare and **Triloki Nath**, Improved enhanced Fritz John condition and constraint qualifications using convexificators, **RAIRO-Operations Research**, 55 (2021) S271-S288. [**Impact Factor 2.085] ISSN:** 0399-0559 (Scopus SCI).

5. Abeka Khare and **Triloki Nath**, Enhanced Fritz John stationarity, new constraint qualifications and local error bound for mathematical programs with vanishing constraints, J. Math. Anal. App., 472 (2019) 1042-1077 **[Impact Factor 1.583] (Elsevier) ISSN:** 0022-247X **(Scopus SCI)**

6. **Triloki Nath** and Abeka Khare, On an exact penality result and new constraint qualifications for mathematical programs with vanishing constraints, **Yugoslav Journal of Operations Research**, 29 (2019) 309-324. [**Impact Factor 1.031]ISSN:** 0354-0243 **(Scopus SCI)**

7. **Triloki Nath** and S.R. Singh, Boundedness of certain sets of Lagrange multipliers in vector optimization, **Applied Mathematics and Computation,** 271(2015) 429-435. **[Impact Factor 4.091] (Elsevier) ISSN:** 0096-3003 **(Scopus SCI)**

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8. **Triloki Nath** and S.R. Singh, Nonsmooth vector optimization and vector variational-like inequalities to infinite dimensional spaces, Advances in Nonlinear Variational Inequalities, 14 (2011) 35-46. **ISSN:** 0096-3003 **(Scopus SCI).**

9. **Triloki Nath** and S.R. Singh, Michel-Penot Subdifferential and Lagrange Multiplier Rule, WSEAS Transactions on Mathematics, Volume 10, Year 2011, Pages 139-148. **ISSN:** 1109-2769 **(Scopus)**

10. **Triloki Nath** and S. R. Singh, An intutive solution of a convexity problem**, Resonance**, 16 (2011) 188-189. **ISSN:** 0973-712X **(Scopus, UGC-CARE List)**

CONFERENCE/SEMINAR/WORKSHOP:

- Organized 02 International Conferences as a Convener**.**
- Organized 01 Refresher course as a Coordinator**.**
- 04 paper/poster presented in International and National Conferences.
- 09 Invited Talks/lectures/Technical sessions chaired in National/International conferences/Refresher course.
- Invited speaker (Online mode) at International Conference "Approximation Theory and Applications" Dedicated to the 100th Anniversary S. B. Stechkin September 10, 2021 18:20–18:45, Moscow, Smolenskaya street, 5, Golden Ring Hotel. Title of the talk: Differentiability of distance function and the proximinal condition implying convexity. Video Link: https://www.mathnet.ru/php/presentation.phtml?option_lang=eng&presentid=31851
- Tutor in Teacher Enrichment Workshop (TEW), National Center of Mathematics, (on linear Algebra and Multivariable Calculus)**.**
- Completed 3 refreshers and 1 orientation course.

(Dr. Triloki Nath)