

Faculty Details proforma for Gargi College

(PLEASE FILL THIS IN AND Email it to

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Title Dr.	First Name BHARTI	Last Name	SHARMA	Photograph
Designation	Assistant Professor			
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Educational Qualificatio	ns			No or
Degree	Institution			Year
	Daulat Ram College, University of Deini			2010
IVI.A. (Mathematics)	University of Delhi			2012
Ph.D (Mathematics)				2018
NET-JRF	CSIR, New Delhi			2013
Career Profile Administrative Assignments				
Areas of Interest / Specialization				
Optimization, Mathematical Programming				
Calculus, Transportation and network flow problem, Latex, Computer Algebra System, Real Analysis, Linear Algebra				
Research Guidance				

Recent Publications

1) Promila Kumar and **Bharti Sharma**, Weak efficiency of higher order for multiobjective fractional variational problem, "OPSEARCH", 53, 538–552, (2016).

2) Promila Kumar and **Bharti Sharma**, Multiobjective variational problem through generalized (F, ρ)invex functionals of higher order, "Communications on Applied Nonlinear Analysis", Volume 23, Number 3, 79 – 92, (2016).

3) Promila Kumar and **Bharti Sharma**, Vector Variational Problem with Infinite Constraints, Nonlinear Analysis Forum", 21(2), 13–29, (2016).

4) Promila Kumar, **Bharti Sharma** and Jyoti, Multi-objective semi-infinite variational problem and generalized invexity, OPSEARCH", accepted.

5) Promila Kumar and **Bharti sharma**, Second order duality for variational problem via efficiency of higher order, International Journal of Mathematics in Operational Research, Vol.14, No. 1, (2019).

6) Promila Kumar and **Bharti sharma**, Higher order efficiency and duality for multiobjective variational problem, Control and Cybernetics, 46(2), 137-145, (2017).

7) Promila Kumar, Jyoti and **Bharti Sharma**, Characterization of generalized invexity in multiobjective fractional variational problem, Statistics, optimization and information computing,4, 342-349, (2016).

8) Promila Kumar, Jyoti and **Bharti Sharma**, Semi infinite programming for a class of fractional variational problems, Nonlinear Analysis Forum, 22, 91–103,(2017).

9) Promila Kumar and **Bharti sharma**, Duality for non-differentiable multi-objective fractional variational problem, Journal of Mathematical Extension, accepted, 11(4), 45-70,(2017).

10) Promial kumar, **Bharti Sharma** and Jyoti, Interval Valued Programming Problem with Infinite constraints, Journal of operational research society of China, Accepted,

10.1007/s40305-018-0206-6, 2018.

11) Promila Kumar and **Bharti sharma**, On the multiobjective control problem, Journal of Applied. Analysis, 24(2), 223–231, 2018.

12) Promila Kumar and **Bharti sharma**, (F, ρ)-invexity of higher order for fractional variational problem, Control and Cybernetics, accepted.

Conference Organization/ Presentations

- Attended **ANNUAL FOUNDATION SCHOOL-II** conducted in CEMS, Department of Mathematics, SSJ campus, Kumaun University, Almora.
- Attended the National Seminar on **"Optimization and its Applications"** Organized by Department of Mathematics, Lakshmibai College, University of Delhi (January 15-16, 2015) and presented a paper entitled "Weak Efficiency of Higher Order for Vector Variational Problem" which is **published** in the proceeding of the Seminar.
- Attended the Workshop on **"Applied Optimization Models and Computation"** Organized by WAOMC15, Indian Statistical Institute, Delhi Centre (January 28-30, 2015).

- Attended the Workshop on **"Indian Women and Mathematics"** Organized by Department of Mathematics, University of Delhi (April 2-4, 2015).
- Attended the Mini Symposium on **"Complementarity and Game-Theoretic Models"** Organized by CGTMI6 Indian Statistical Institute, Delhi Centre (January 20-21, 2016).
- Attended the International Conference On "Recent Advances in Optimization Theory and Applications" Organized by Mathematical Programming Group, Department of Mathematics, University of Delhi (30-31 January, 2016) and Presented a research paper entitled "Vector Variational Semi-Infinite Problem Using (Φ, ρ)- Invexity".
- Attended the State Level Seminar on **Mathematics and its Applications**" Organized by Department of Mathematics, Kamla Nehru College, University of Delhi (March 4, 2016).
- Attended the **National Conference on Algebra, Analysis, Coding and Cryptography** Organized by Department of Mathematics, University of Delhi (14-15 October, 2016) and presented a research paper entitled "KT-pseudoinvex Interval Valued Optimization Problem".
- Attended the International Conference on Analytics in Operational Research Organized by Operational Research Society of India (12-14 December 2016) and presented a research paper entitled "Quasi Efficiency for Non-Smooth Multiobjective Continuous Time Problems".
- Attended the **Research Scholar Seminar and Annual Conference of the Society of Mathematical Sciences(Delhi)** Organized by Department of Mathematics, University of Delhi (1-2 May, 2017) and presented a research paper entitled "On Multiobjective Fractional Variational Problem Using Higher Order Efficiency"
- Attended Monday seminar organized by mathematical programming group of department of mathematics, university of Delhi.
- Attended the International Workshop on Convex Analysis and Optimization(IWCAO-2017) Organized by Department of Mathematics, Aligarh Muslim University (November 14-19, 2017).
- Attended the International Conference on Recent Trends in Operations Research and statistics Organized by Department of Mathematics, Indian Institute of Technology, Roorkee (28-30 December 2017) and presented a research paper entitled "Multiobjective Fractional Continuous Time Problems Using Quasi Efficiency".
- Attended the Indo-French Seminar on Optimization, Variational Analysis and ApplicationsOrganized by Department of Mathematics, Institute of Science, BHU, Varanasi(2-4 February 2020) and presented a research paper entitled "On Non-Smooth Continuous Time Programming Problems".

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

1. Awarded with **Smt. Sivakama Radhakrishnan (Gold) medal** for being the best women candidate in M.A (Mathematics) Examinations held in 2012.

2. Awarded with **Indira Gandhi Medal (Certificate of merit)** in class 10th by Director of Education, Government of N.C.T. of Delhi.

Association With Professional Bodies

Other Activities