



Faculty Details proforma for Gargi College

(PLEASE FILL THIS IN AND Email it to gargi.college.website@gmail.com)

Title	Dr.	First Name	BHARTI	Last Name	SHARMA	Photograph
Designation		Assistant Professor				
Address		House no-2107, Gali No-9, Prem Nagar, New Delhi-110008				
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Residence*						
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Web-Page						
Educational Qualifications						
Degree	Institution				Year	
B.A. Maths(H)	Daulat Ram College, University of Delhi				2010	
M.A. (Mathematics)	University of Delhi				2012	
Ph.D (Mathematics)	University of Delhi				2018	
NET- JRF	CSIR, New Delhi				2013	
Career Profile						
Working as Assistant Professor on Ad-hoc basis in Gargi College, University of Delhi from 20 th July 2017 to till date						
Administrative Assignments						
Member of Garden Committee Member of Library Committee						
Areas of Interest / Specialization						
Optimization, Mathematical Programming						
Subjects Taught						
Calculus, Transportation and network flow problem, Latex, Computer Algebra System, Real Analysis, Linear Algebra, Ordinary Differential Equation						

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", 54, 580–597 (2017).
- 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,6, 611–626 (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, 47(2), 131-146, 2018.

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, Lakshmbai 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 Applications** organized 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”**.
- Attended Online FDP on **“Moodle Learning Management System ”** organized by Atal Bihari Vajpayee University, Bilaspur in association with IIT, Bombay Spoken Tutorial from 12 May 2020 to 17 May 2020.
- Attended Online FDP on **“SCILAB”** organized by IQAC, A. N. College, from 22th May 2020 to 02th June 2020.
- Attended Online FDP on **“R Programming”** organized by IQAC, A. N. College, from 08 June 2020 to 17 June 2020.
- Attended Online FDP on **“Essential tools in Optimization”** organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab from 25 June 2020 to 29 June 2020.
- Attended Online FDP on **“Python Programming”** organized by IQAC, A. N. College, Patna from 25 June 2020 to 09 July 2020.
- Attended Online FDP on **“Introduction to Computer Algebra System: Maxima (An Open Source Software)”** organized by Hansraj College, University of Delhi from 27 June 2020 to 18 July 2020.

- Attended Online FDP on “**Recent Advances in Mathematics and Statistics**” organized by Department of Mathematics, Institute of Science and centre for learning and Sustainability, GITAM, Visakhapatnam, Andhra Pradesh from 03th August 2020 to 8 August 2020
- Attended Online Teacher’s Enrichment Workshop on “**Differential Equations and its Applications**” organized by Deshbandhu College, University of Delhi from 15 March 2021 to 28 March 2021.
- Attended two- Day International Multidimensional Conference on “**Revisiting Wellbeing: Perspectives, Challenges, and the Road Ahead**”, under the aegis of DU Centenary Celebration, organized by Gargi college held on February 1 - 2 , 2023.

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. Secured highest marks in aggregate in M.A (Mathematics) in University of Delhi.
3. Certificate of merit for securing highest marks in aggregate in B.A. Math (H) all three years combined.
4. 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

Working group on Generalized Convexity and Monotonicity.

Other Activities