


FACULTY DETAILS PROFORMA

Title	Prof.	First Name	NARENDER KUMAR	Last Name		Photograph
Designation		Professor				
Office Address		Department of Mathematics, Aryabhata College, University of Delhi, New Delhi-110021.				
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Educational Qualifications						
Degree		Institution			Year	
B. A. (Hons.) Mathematics		Sri Venkateswara College, University of Delhi			1990	
M. A. (Mathematics)		Hans Raj College, University of Delhi			1992	
M. Phil.		University of Delhi			1994	
Ph. D.		University of Delhi			2009	
Career Profile						
<p>Working as Professor in the Department of Mathematics, Aryabhata College, University of Delhi with more than 26 years of teaching experience.</p> <p>Worked as Lecturer on Adhoc basis in the Department of Mathematics, Rajdhani College, University of Delhi from 16.01.1994 to 30.04.1995.</p> <p>Worked as Lecturer on Temporary Basis (Against Leave Vacancy) in the Department of Mathematics, Sri Venkateswara College from 16.07.1995 to 08.08.1995.</p>						
Administrative Assignments						
<p>Teacher-in-Charge, Department of Mathematics 2012-2016, 2023-24.</p> <p>Convener, Time Table Committee 2012-2015, 2018-2019. Convener, Extra Curricular Activities Admission Committee & ECA Committee, 2018-2019</p> <p>Convener, Dance Society 2017-2019.</p> <p>Convener, Function Committee 2017-2019. Convener, Sports Admission Committee and Sports Committee 2019-20, 2020-21, 2022-23, 2023-24, 2024-25</p> <p>Member, IQAC 2020-Till Date</p>						
Areas of Interest / Specialization						
Mathematical Programming and Optimization						
Subjects Taught						

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B. Sc. (Hons) Mathematics I Semester Core Course: C-1 "Calculus"
B. Sc. (Hons) Mathematics II Semester Core Course: C-4 "Differential Equations".
B. Sc. (Hons) Mathematics III Semester BMATH 305 "Theory of Real Functions",
B. A./B. Sc. (Hons) III Semester General Elective: GE-3 "Linear Programming and Game Theory".
B. Sc. (Hons) Mathematics IV Semester BMATH 409 "Riemann Integration and Series of Functions".
B. Sc. (Hons) Mathematics VI Semester DSE-IV (ii): "Linear Programming and Applications"
B.Sc. (Hons.) Mathematics III Semester (NEP) DSC-8: "Riemann Integration"
B.Sc. (Hons.) Mathematics IV Semester (NEP) DSC-10: "Sequences and Series of Functions"
B.A./B.Sc. (Hons.) Mathematics IV Semester (NEP) GE-4(ii) : "Linear Programming"
B.Sc. (Hons.) Mathematics III Semester (NEP) DSC-8: "Riemann Integration"
B.Sc. (Hons.) Mathematics V Semester (NEP) DSE-3 (ii): "Linear Programming and Applications"
Research Guidance
Not Applicable
Publications Profile
1. DUALITY THEOREMS FOR NONDIFFERENTIABLE MULTI-OBJECTIVE PROGRAMS Davinder Bhatia, Narender Kumar and R.K. Budhrajia Published in Indian Journal of Pure and Applied Mathematics, Vol. 28 (8), August, 1997, 1031-1042 (ISSN 0019-5588)
2. DUALITY FOR NONSMOOTH MULTI-OBJECTIVE FRACTIONAL PROGRAMS UNDER GENERALIZED (\mathfrak{J}, ρ) -CONVEXITY Davinder Bhatia, R.K. Budhrajia and Narender Kumar Published in Opsearch, Vol. 35, No. 2, 1998 (ISSN 0030-3887)
3. APPROXIMATE EFFICIENCY FOR n -SET MULTI-OBJECTIVE FRACTIONAL PROGRAMMING Narender Kumar, R. K. Budhrajia and Aparna Mehra Published in Asia Pacific Journal of Operational Research, Vol.21, No. 2, June 2004, 197-206 (ISSN 0217-5959)
4. \mathfrak{J} -UNICONVEXITY AND n -SET OPTIMIZATION Davinder Bhatia and Narender Kumar Published in Journal of Decision and Mathematical Sciences, Vol. 10, No.1-3, 2005, 21-36.
5. APPROXIMATE OPTIMIZATION OF CONVEX SET FUNCTIONS Davinder Bhatia, Narender Kumar and Aparna Mehra Published in International Journal of Pure and Applied Mathematics, Vol. 51, No. 3, 2009, 383-398 (ISSN 1311-1728)

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6. THE 0-1 TEST APPLIED TO PETER-DE-JONG MAP

Mridula Budhraj, Narender Kumar and L.M. Saha

Published in International Journal of Engineering and Innovative Technology, Vol. 2 (6), Dec 2012, 1-8 (ISSN 2277-3754)

7. COMPLEXITY STUDY IN GUMOWSKI-MIRA MAP : THE USE OF 0-1 TEST

Aysha Ibraheem and Narender Kumar

Published in Journal of Advances in Mathematics, Vol. 6, No. 2, 2014, 923-930 (ISSN 2347-1921)

8. ATTRACTORS OF DUFFING MAP: APPLICATION OF DLI AND 0-1 TEST

Aysha Ibraheem and Narender Kumar

Published in International Journal of Engineering and Innovative Technology, Vol. 4, Issue 11, May 2015, 1-6

9. A NOTE ON NONSMOOTH PARTIAL VECTOR INVEXITY IN n-SET OPTIMIZATION

Narender Kumar and R.K. Budhraj

Published in International Journal of Mathematical Sciences, Vol. 15, No. 3-4, 2016, 221-228

10. MULTI-SWITCHING SYNCHRONIZATION OF NON-IDENTICAL CHAOTIC SYSTEMS

Narender Kumar

Published in International Journal of Applied Mathematics and Physics, Vol. 9, No. 1 (2017), 69-80.

11. DUAL COMBINATION-COMBINATION SYNCHRONIZATION OF TIME DELAYED DYNAMICAL SYSTEMS VIA ADAPTIVE SLIDING MODE CONTROL UNDER UNCERTAINTIES AND EXTERNAL DISTURBANCES

Aysha Ibraheem and Narender Kumar

Published in International Journal of Dynamics and Control, Springer, Vol. 9(2) (2021), 1-18.

12. MATHEMATICAL APPROACH TO TRADING: DISCOVERING A SHORT-TERM HIGH PROBABILITY, LOW RISK, HIGH RETURN TRADING STRATEGY

Narender Kumar and Khushwant Pahwa

Published in Res Militaris, Social Science Journal,

13. SOLVING HESITANT FUZZY LINGUISTIC MATRIX GAME WITH REGRET THEORY

Imran Khan and Narender Kumar

Published in Granular Computing (2023) 1325–1340

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Conference Organization/ Presentations
<ol style="list-style-type: none">1. Participated in the Sixth International Conference of the Association of Asia Pacific Operational Research Societies within IFORS “APORS 2003” held at Hotel Grand Intercontinental, New Delhi, during December 8-11, 2003 and presented a paper entitled “MIXED LAGRANGIAN AND MULTIOBJECTIVE FRACTIONAL PROGRAMMING DUALITY WITH GENERALIZED \mathfrak{S}-CONVEX n-SET FUNCTIONS”.2. Participated in the National Symposium on Recent Advances in Optimization Theory and Applications “RAOTA-2006” held at Academic Research Center, University of Delhi, during October 27-28, 2006.3. Participated in the International Conference on Operator Theory and Related Areas “ICOTRA-2008” held at the Department of Mathematics, Delhi University, during January 9-12, 2008.
Research Projects (Major Grants/Research Collaboration)
Not Applicable
Awards and Distinctions
Qualified CSIR–UGC scholarship-cum-lectureship examination in June, 1993. Got Teaching Excellence Award on 1 st May, 2014 from University of Delhi.
Association With Professional Bodies
Not Applicable
Other Activities