




Faculty Details proforma for DU Web-site

Title	Mr.	First Name	BAL KISHAN	Last Name	DASS	Photograph
Designation		Professor				
Department		Mathematics				
Address (Campus) (Residence)		Department of Mathematics, University of Delhi, Delhi-110007				
		Current: 164 Mall Apartments, Gate No. 1, Mall Road, Delhi- 110054				
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Web-Page		NIL				
Education						
Subject		Institution		Year	Details	
D.Sc. Maths		Marathwada University		1983	Thesis topic: Coding Theory	
Ph.D. Maths		University of Delhi		1975	Subjects: Mathematics	
M.A. Maths		University of Delhi		1972	Subjects: Mathematics	
Career Profile						
Organisation / Institution		Designation		Duration	Role	
University of Delhi		Professor		28.09.1998 —	Teaching and Research	
University of Delhi		Reader		14.11.1997- 27.09.1998	Teaching and Research	
P.G.D.A.V. College (University of Delhi)		Lecturer/Reader		16.10.1975- 14.11.1997	Teaching and Research	
Research Interests / Specialization						
Algebraic and Combinatorial Coding Theory, Discrete Mathematics, Applied Algebra, Fixed Point Theory in Analysis						
Teaching Experience (Subjects/Courses Taught)						
Since 16 Oct. 1975. Analysis, Algebra, Coding Theory, Information Theory, Differential Geometry, Topology etc.						
Honors & Awards						
<ol style="list-style-type: none"> 1. Chairman, National Committee of India Mathematics Year 2009 2. President, Math. Sc. Section of Indian Science Congress Assoc. 2008-09 3. President, Academy of Discrete Mathematics and Applications 2010-2012 4. An Ambassador for the South and West Asia including Indian subcontinent for the forthcoming ICM 2014 (International Congress of Mathematicians, 2014) to be held in August 2014 in Seoul, Korea. 						

Publications (LAST FIVE YEARS)

In Indexed/ Peer Reviewed Journals

<u>Year of Publication</u>	<u>Title</u>	<u>Journal</u>	<u>Co-Author</u>
2009	On 2-Repeated Burst Codes	Ratio Mathematica – Journal of Applied Mathematics, Vol. 19, pp. 11-24	P. Garg
2009	Repeated Burst Error Detecting Linear Codes	Ratio Mathematica – Journal of Applied Mathematics, Vol. 19, pp. 25-30	R.Verma
2009	On 2-Repeated Burst Error Detecting Codes	Journal of Statistical Theory and Practice, Vol. 3, No. 2, pp. 381-391	L. Berardi and R. Verma
2010	Codes Correcting Repeated Burst Errors Blockwise	Applied Mathematical Sciences, Vol. 4, no. 49, 2405-2416	R. Arora
	Repeated Burst Error Locating Linear Codes	Discrete Mathematics Algorithms and Applications, Vol. 2, No. 2, pp. 181-188	S. Madan
	Codes Correcting Low-density Repeated Burst Errors Blockwise	Advances in Information Theory and Operations Research, VDM Verlag (Germany), pp. 67-93	R. Arora
	Syndromes of Shifts in Cyclic Codes	Information Theory and Optimization Techniques in Scientific Research, VDM Verlag, Germany, 69-88	S. Madan
	Blockwise Repeated Burst Error Correcting Linear Codes	Ratio Mathematica - Journal of Applied Mathematics, Vol. 20, pp. 97-126	S. Madan
	Error locating codes dealing with repeated low-density burst errors	Ratio Mathematica-Journal of Applied Mathematics, Vol. 20, pp. 67-96	R. Arora
2011	On Repeated Low-density Burst Error Detecting Linear Codes	Mathematical Communications, Vol. 16, No. 1, pp. 37-47.	P. Garg
	Repeated Low-density Burst Error Detecting Codes	Journal of the Korean Mathematical Society, Vol. 48, No. 3, pp. 475-486	R. Verma
2012	Error Locating Codes Dealing with Repeated Burst Errors	Italian Journal of Pure and Applied Mathematics, Vol. 29, pp. 109-118	R. Arora
	Bounds for Codes Correcting/Detecting Repeated Low-Density Burst Errors	Discrete Mathematics, Algorithms and Applications Vol. 4, No. 4 (14 pages)	P. Garg
	Construction of m-Repeated Burst Error Correcting Binary Linear Code	Discrete Mathematics, Algorithms and Applications Vol. 4, No. 3 (7 pages)	R. Verma
	Some Optimality Issues in Estimating Two-stage Optional Randomized Response Models	American Journal of Mathematical and Management Sciences, Vol. 31, No. 1-2, pp. 1-12	S. Gupta, S. Mehta and J. Shabbir
	A Three-stage Optional Randomized Response Model	Journal of Statistical Theory and Practice , Vol. 6, pp. 417-427	S. Mehta, J. Shabbir and S. Gupta
2013	A sufficient condition for the existence of a 2-repeated low-density burst error correcting code	Tamsui Oxford Journal of Information and Mathematical Sciences, Vol 29(2), pp. 143-199	P. Garg

	Blockwise Repeated Low-Density Burst Error Correcting Linear Codes	Italian Journal of Pure and Applied Mathematics, Vol. 30, pp. 87-100	S. Madan
	Repeated Low-Density Burst Error Locating Codes	Acta Universitatis Apulensis , Vol. 33, pp. 175-191	S. Madan
	Generalized Scrambling in Quantitative Optional Randomized Response Models	Communications in Statistics – Theory and Methods, Vol. 42 (22), pp. 4034 - 4042	S. Gupta, S. Mehta and J. Shabbir
2014	Estimation of Finite Population Mean Using Optional RRT Models in the Presence of Non-Sensitive Auxiliary Information	American Journal of Mathematical and Management Sciences, Vol. 33, pp. 147-159	Sat Gupta, Geeta Kalucha, and J. Shabbir
2015	Ratio Estimation of Finite Population Mean Using Optional Randomized Response Models	To appear in Journal of Statistical Theory and Practice	Geeta Kalucha and Sat Gupta
Articles			
NIL			
Conference Presentations			
Delivered Invited talks at (i) Int. Conf. held at Univ. of Memphis, USA in May 2008, (ii) Int. Conf. held at Bangkok in March 2008, (iii) Several in India.			
Total Publication Profile optional			
Books			
Six (Edited/Co-edited)			
In Indexed/ Peer Reviewed Journals			
More than 80			
Articles			
NIL			
Conference Presentations			
Several			
Public Service / University Service / Consulting Activity			
NIL			
Professional Societies Memberships			
<ol style="list-style-type: none"> 1. American Mathematical Society 2. Indian Mathematical Society 3. Indian Science Congress Association 4. Ramanujan Mathematical Society 			

Projects (Major Grants / Collaborations)
NIL
Other Details
Organized ‘ Pre-ICM International Convention on Mathematical Sciences’ at University of Delhi, 18-20 Dec. 2008 sponsored by Department of Science & Technology, Govt. of India.