

Name of the faculty: DR. SARITA CHOUDRY

Designation: LECTURER IN MATHEMATICS

Date of 1st appointment as Lecturer: 01.11.2016



Educational Qualifications:

Degree	Subject	University	Year	Class	Specialization
B. Sc. (Hons.)	Mathematics	Ranchi University	2010	1 st (D)	–
M. Sc.	Mathematics	Kolhan University	2012	1 st (D) (Gold Medal)	Operations Research
Ph.D.	Mathematics	IIT(ISM) Dhanbad	2017	–	Optimization Techniques

Articles Published:

Sl. No.	Year	Title of the Publication	Name of the Journal/Edited Books	ISBN-NO	Impact Factor	Name of the Publisher
1	2014	Exponential type vector variational-like Inequalities and vector optimization problems with exponential type invexities	Journal of Applied Mathematics and Computing, 45 (2014) 87-97	1865-2085	1.242	Springer
2	2014	An exact l1 exponential penalty function method for multiobjective optimization	Journal of the Operations Research Society of China, 2 (2014) 75-91	2194-6698		Springer

		problems with exponential-type invexity				
3	2014	Convergence of exponential penalty function method for multiobjective fractional programming problems	Ain Shams Engineering Journal, 5 (2014) 1371-1376	2090-4479	1.949	Elsevier
4	2014	Generalized α -V-univex functions for multiobjective variational control problems	Control and Cybernetics, 43 (2014) 403-420	03248569		Polish Academy of Sciences
5	2015	On composite vector variational-like inequalities and vector optimization problems	Computational Management Science, 12 (2015) 577-594	1619-6988		Springer
6	2015	Exponential type vector variational-like inequalities and nonsmooth vector optimization problems	Journal of Applied Mathematics and Computing, 49 (2015) 127-143	1865-2085	1.242	Springer
7	2015	Second order duality for variational problems involving	OPSEARCH, 52 (2015) 582-596	0975-0320		Springer

		generalized convexity				
8	2016	An exact minimax penalty function method and saddle point criteria for nonsmooth convex vector optimization problems	Journal of Optimization Theory and Applications, 169 (2016) 179-199	1573-2878	1.388	Springer
9	2016	Second order monotonicities and second order variational-like inequality problems	Rendiconti del Circolo Matematico di Palermo, 65 (2016) 123-137	1973-4409		Springer
10	2016	Saddle point criteria for second order η -approximated vector optimization problems	Kybernetika, 52 (2016) 359-378	0023-5954	0.670	Nakladatelství Academia
11	2017	Sufficiency and mixed type duality for multiobjective variational control problems involving α -V-univexity	Evolution Equations and Control Theory, 6 (2017) 93-109	2163-2480	0.953	American Institute of Mathematical Sciences
12	2017	On vector variational-like inequalities and vector optimization	Applied Mathematics-A Journal of Chinese	1993-0445	0.803	Springer

		problems with (G,α) -invexity	Universities, 32 (2017) 323-338			
13	2019	Convergence of exponential penalty function method for variational problems	Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, 89 (2019), 517-524	2250-1762	0.921	Springer

Orientation/Refresher/FDP Programmes:

Sl. No	Year	Name of the Course/Programme	Period/Date	Name of the HRD Centre
1	2017	Nonlinear Analysis and its Application to Optimization Techniques (Professional Development Programme)	August 18-22	IIT (ISM) Dhanbad
2	2019	Project Genesis – Global Business Foundation Skills (Faculty Development Program)	September 17-20	Infosys BPM
3	2020	MatLab and it's Applications (Faculty Development Program)	August 17-19	Bishop Cottons Women's Christian College
4	2020	ICT Based New Paradigms Of E-Teaching And E-Learning: Digital Pedagogy	September 15-30	MHRD/ Mata Sundri College for Women(DU) in association with Ramanujan College(DU)

Seminars/Conferences/Workshops/Symposia/Webinar attended:

Sl · No	Year	State/ National/ Internat ional	Title of the Seminar/ Conference	Paper presented / Participat ed/ Resource Person	Topic of the Paper, if Presented	Name of the Organizin g HEI
1	2014	International	International Summer-Winter Term Course on Portfolio Optimization, May 19-30	Participated		IIT Kharagpur
2	2014	National	80th Annual Conference of "Indian Mathematical Society", December 27-30	Participated		IIT(ISM) Dhanbad
3	2015	National	Advanced Level Workshop on "Variational Analysis and Optimization" held at IIT Gandhinagar, March 02-08	Participated		IIT Gandhinagar
4	2015	National	7th National Conference on Wave Mechanics and Vibrations, December 21-23	Participated		IIT (ISM) Dhanbad

5	2016	International	Recent Advances in Optimization Theory and Applications, January 30-31	Presented	Scalarization technique for vector variational problems and variational type inequalities	University of Delhi
6	2018	National	Research Seminar	Presented	Analysis of Penalty Methods for Constrained Optimization Problems	IIT Hyderabad
7	202	International	OHEPEE Sponsored International Conference on Mathematical Analysis and its Applications. February 4-5	Presented	Higher order strict minimizers in variational problems and vector variational type inequalities	Berhampur University
8	2020	International	Numerical and Scientific Computing, July 28	Participated		Manipal University Jaipur

9	2020	National	Machine Learning And Mathematical Modelling, August 7	Participated		Manipal University Jaipur
10	2020	National	An Introductory Course on Fluid Dynamics, August 17-20 and 24-28	Participated		CHRIST (Deemed to be University), Bangalore
11	2020	International	Recent Trends in Quantum Mechanics, October 3	Participated		Department of Physics, Science Autonomous College, Hinjilicut