

CURRICULUM VITAE

Faculty Name : Dr. Abdul Raouf
Designation: Associate Professor
Subject: Mathematics
Area of Specialization: Applied Functional Analysis, Variational and Quasi-variational Inequalities, Numerical Solution of Variational and Quasi-variational Inequalities, Optimization, Equilibrium Problems, Complementarity Problems.
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Summary

- Ph. D. Degree in Mathematics
- Currently working at Govt. Degree College Rajouri

Awards and Achievements

- On the eve of Republic Day-2011, a Certificate of Commendation conferred in recognition of the services in the field of Mathematics for the Year 2010, by the Government of J & K State.
- 8 Certificates of Commendation conferred, by the various Principals of the Colleges, in recognition of the services in the field of Mathematics and overall College Activities.

Workshops, Seminars, Symposia and Conferences Attended

- **STATE LEVEL**
 - The 9th Annual Conference of IDEA and a National Seminar on Convergence of Formal, Non-formal and Distance Modes of Education: Trends and Perspectives, University of Jammu, Jammu, March 13-15, 2002.
 - NAAC Sponsored Awareness Programme on Assessment & Accreditation and Post Accreditation Interactive Meet by Quality Assurance Cell, Higher Education Department, J & K Govt. At Govt. College for Women Gandhi Nagar, Jammu on 9th December 2007.
 - One-Day Seminar on National Integration, Communal Harmony and Aligarh Movement, 17th Oct. 2012.

- One Day workshop on All India Survey on Higher Education organized by University of Jammu in Collaboration with Ministry of Human Resource Development, New Delhi on 26th May 2012, at University of Jammu.
- “Issues for Popularization of Mathematics”, paper presented in One-Day Seminar on Mathematics and Applied Mathematics, 13th Oct. 2014.
- One-Day Workshop on IQAC/API Orientation Course, organized by Govt. P. G. College Rajouri, January 7th, 2017
- One-Day Workshop on IQAC/API Orientation Course, organized by GGM Science College Jammu and Higher Education Department, J&K, February 6th, 2017

■ **NATIONAL LEVEL**

- The 11th Annual Conferences of JMS and a National Seminar on Operator Theory, University of Jammu, Jammu, Feb. 23-25, 2001.
- The 12th Annual Conferences of JMS and a National Seminar on Topological Algebraic Analysis, University of Jammu, Feb. 22-24, 2002.
- The 14th Annual Conferences of JMS and a National Seminar on Recent Trends in Functional Analysis, University of Jammu, Feb. 20-22, 2004.
- A National Seminar on Applied Mathematics, organized by Department of Mathematics MAM College Jammu, June 3-4, 2005.
- The 16th Annual Conferences of JMS and a National Seminar on Operator Theory and Functional Analysis, University of Jammu, March 1-3, 2006.
- The 18th Annual Conferences of JMS and a National Seminar on emerging Trends in Analysis and Operator Theory, University of Jammu, Feb. 29th -March 2, 2008.
- Auxiliary Principle technique of multi-valued equilibrium problems, paper presented in the 18th Annual conference of JMS, University of Jammu, (2008) (India).
- The 19th Annual Conferences of JMS and a National Seminar on Functional Analysis, University of Jammu, Feb. 27th - 28, 2009.
- Set-Valued Mapping, a talk presented in the 19th Annual Conference of JMS, University of Jammu, (2009) (India).
- An Operator Quasi-equilibrium problems, paper presented in the 20th Annual conference of JMS, University of Jammu, (2010) (India).
- An introduction to variational inequalities problems, presented a talk in the 21th Annual conference of JMS, University of Jammu, (2011) (India).
- A class of generalized operator equilibrium problems, paper presented and publishes in Conference proceeding, in the “Two Day National Level Conference on New Discoveries in Mathematics and its Applications Feb. 12-13, 2011 at Govt. MAM College Jammu, (India).
- A Class of Generalized Operator Equilibrium Problem, National Level Conference on Analysis and Applications to be held at NIT Srinagar Kashmir from 19-20 Nov. 2012.

- “Gap Function on Variational-like Inequalities ”, paper presented in National Level Conference on Recent Trends in Algebra and Analysis organized by Department of Mathematics GGM Science College Jammu, March 25-26th, 2015
- Attended as an observer Moni-MTTS (Mathematical Training and Talent Search) Programme organized by the Jammu and Kashmir Institute of Mathematical Science Srinagar, collaboration with NBHMD of Atomic Energy New Delhi with effect from 23-31 July 2015.
- “Solving Perturbed Mixed Equilibrium Problems”, paper presented in National Level Conference on Interdisciplinary Sciences and Humanities Govt. P. G. College Rajouri College Jammu, Match 15-16th, 2017

▪ **INTERNATIONAL LEVEL**

- International Congress and 8th Conference of Indian Society of Industrial and Applied Mathematics on Certain Emerging Areas in Applicable Mathematics and 17th Annual Conference of JMS, University of Jammu, Jammu, March 31st – April 3, 2007.

RESEARCH PUBLICATIONS

▪ **INTERNATIONAL LEVEL**

- Existence of solution For Generalized Vector Variational-Like Inequalities, SEA J. Mathematics & Mathematics Science, 2(1)(2003) 1-14, (India).
- Generalized Vector Quasi-equilibrium Problems, J. Adv. Nonlinear Variational Inequalities 7(1) (2004), 47-57, (USA).
- A class of operator equilibrium problems, J. Mathematical Analysis and Application 308(2005), 555-564, (USA).
- Multi-valued mixed equilibrium problems, SEA J. Mathematics & Mathematics Science 4(2) (2006), 7-14, (India).
- Iterative approximation of solution of general mixed set-valued variational inequality problems, J. Mathematical Inequalities and Application 10(3), (2007), 677-691, (Croatia, Europe).
- On perturbed equilibrium problems with operator solutions, SEA J. Mathematics & Mathematics Science 8(1) (2009), 91-100, (India).
- Existence of Solutions of Operator Quasi-Equilibrium Problems, International J. Mathematical Sciences (JMI), 1(2) July-December 2010 (India).
- Solvability of Perturbed Mixed Equilibrium Problems; SEA J. Mathematics & Mathematics Science 10(1) (2011), 67-72, (India).
- Gap Function on Variational-Like Inequality In Banach Space, Indian J. Sci. Res. 11 (1): 093-099, 2015. (India)
- A Class of Generalized Operator Equilibrium Problems, Filomat 31(1): (2017), 1-8. (Nis, Serbia, Europe).

BOOK PUBLICATION

▪ BOOK AUTHORED

- Modern Algebra, a textbook for graduation class students published from Kashmir Book Depot, Srinagar. ISBN:9789382790020
- Real Analysis, a textbook for graduation/post graduation class students published from Kashmir Book Depot, Srinagar. ISBN:9789382790037
- Complex Trigonometry, a textbook for graduation class students published from Kashmir Book Depot, Srinagar. ISBN:9789382790129.
- Differential Equation and Geometry, a textbook for graduation class students published from Malhotra Brothers, Pacca Danga, Jammu. ISBN:818829430-6
- Differential Equations, a textbook for gradation/post graduation class students published from Kashmir Book Depot, Srinagar. ISBN:978-81-933541-2-4
- Differential Calculus, a textbook for graduation class students published from Kashmir Book Depot, Srinagar.

▪ BOOK REVISED

- Solid Geometry, a textbook for gradation class students published from Kashmir Book Depot, Srinagar.
- Coordinate Geometry, a textbook for gradation class students published from Kashmir Book Depot, Srinagar.

Academic Qualifications

Examination Passed	Board/ University	Subjects	Year	Division
Matric	JK Board	English, Math, GK, Urdu, Arabic	1979	Second
Higher Secondary	JK Board	English, Math, Geography, Urdu	1982	Second
Bachelor's Degree	University of Jammu	English, Math, Geography, Urdu	1984	First
Master's Degree	AMU Aligarh	Matematics	1986	First (Second Position)
Ph. D	University of Jammu	Matematics	2006	
Certificate	Uptron ACL, Lucknow	Computer Application	1994	

Research Experience

Research Stage	Title of Work/Thesis	University where the work was carried out	Year
Ph. D	Study on Equilibrium Problems and Numerical Analysis of Variational Inequality.	University of Jammu	2006
Training	UGC General Orientation Course	ASC Kashmir University	1998
	UGC Refresher Course in Mathematics with grade "A".	ASC AMU Aligarh (UP)	2002
	UGC Refresher Course in Mathematics with grade "A".	ASC AMU Aligarh (UP)	2003
	UGC Refresher Course in Mathematics with grade "A".	ASC AMU Aligarh (UP)	2007

Teaching Experiences

Courses Taught	Name of the University/College/Institution	Duration
UG Level	Govt. Degree College Poonch	24 th Sept. 1986 to 30 th April 1987
	Govt. Degree College (Boys) Baramulla Kashmir	2 nd May 1997 to 10 th Oct. 2000
	Govt. Degree College Poonch	11 th Oct. 2000 to 24 th May 2005
	Govt. Degree College Mendhar	25 th May 2005 to 30 May 2008
	Govt. Degree College Rajouri	31 st May 2008 till date

Extension Work/Community Service

Memberships

- Life member of Jammu Mathematical Society (JMS), Jammu.
- Member of the College IQAC team for College NAAC accreditation.
- Convener IQAC and member of various committees of the College.

Administrative Acumen

- NSS Programme Officer Govt. Degree College Mendhar for the session Jan 2006 to May 2008.

- Worked as Assistant Co-ordinator IGNOU w.e.f. 1st Jan 2009 to 31st Dec 2009 and again working from 1st Jan 2013 to 31st March 2014.
- Worked as Co-ordinator IGNOU w.e.f. 1st April 2004 to till date.

Capacity Building cum Training Workshop

Organized **Five-Days Capacity Building Cum Training** workshop for Masters and Teachers in Mathematics of School Department. The main aim of the workshop, "Let's popularized Mathematics Amongst the Students", from 11th March to 15th March 2016. The main focus put forth the basic reasons for starting this capacity building cum training workshop for the teachers and Masters teaching Mathematics at the elementary level and also laid a focused stress on the importance and application of Mathematics in our day to day life.

In this science and technology era learning Mathematics forces one to learn and think very logically and to solve problems using the skills. Mathematics also teaches one to be precise in thoughts and words as it also teaches life skills. The teaching fraternity to encourage the students from the elementary level to opt this subject as it has now become a way of life. The programme was organize in Govt. P. G. College Rajouri.

Dr. Abdul Raouf