DR DHANANJAY GOPAL

Assistant Professor
Department of Applied Mathematics
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Research Interest

D. Gopal research focuses on algebraic/topological fixed point theory and fuzzy analysis with possible applications for solving differential and integral equations along with utilizing the fuzzy analysis and related fixed point theorems in Quantum Mechanics and computer science.

Educational Qualifications

1997	B.Sc. Mathematics; Guru Ghasidas University, Bilaspur, Chhattisgarh. India
2001	M.Sc. Mathematics; Guru Ghasidas University, Bilaspur, Chhattisgarh (First Class)
2006	Ph. D. Mathematics; Guru Ghasidas University, Bilaspur with Prof. A. S. Ranadive, Department of Mathematics, Guru Ghasidas University, Bilaspur. Chhattisgarh Thesis: "*On Some Fixed Point Theorems*".

Professional recognition, awards received

2009   Young Scientist Award, NKAMC Conference, Chhattisgarh, India

2001   Gold Medal in M.Sc. Mathematics

Research Project

Ongoing CSIR (CSIR Sanction Reference- 25(0215)/13/EMR-II)
Title: Study on fixed point theorems for single valued and multi valued mappings and their applications to best approximation.

Experiences

23.03.2009 to till date   Assistant Professor, SVNIT, Surat, Gujarat

20.08.2008 to 24.03.2009   Lecturer, ANDC, University of Delhi, Delhi

July 2006 to 20.08 2008   Lecturer, CEC, Bilaspur, Chhattisgarh

Subject/Course Taught

General Topology: In M. Sc (Odd Semester) at SVNIT Surat

Fuzzy Set Theory: In M. Sc (Even Semester) at SVNIT Surat

Engineering Mathematics: In B. Tech (Ist , Year) at SVNIT Surat

Ph. D. Supervised

Ph. D. Scholar- Deepesh Patel, (Year 2013)
Title: On Generalization of Metrical Fixed Point Theorems

International Meet

Visited Department of Mathematics and Applied Mathematics, University of Pretoria, (South Africa) for joint research work during Nov. 24 – 1 Dec., 2013.

Visited Department of Mathematics, Azarbaijan University of Shahid Madani, Tabriz (Iran) for joint research work during July 04 – July 13, 2012.

Visited Department of Mathematics, Obafemi Awolowo University, Ile-Ife, Nigeria for joint research work during June 15 – July 5, 2011

International Conferences Attended

Attended and delivered a 30 min. talk titled "Existence of common fixed points via absorbing maps'' in the Asian Conference on Nonlinear Analysis and Optimization (14-17 September 2008) organized by Tokyo Institute of Technology, Japan

Attended and delivered a 45 talk titled "Reciprocal Continuity And Fixed Points In Fuzzy Metric Space'' at the 8th Int. conference on Fixed point theory and its applications (16-22 July 2007) organized by Dept. of Math. Chiangmai University Chiangmai, Thailand.

Workshops/Schools Attended

Attended Advanced Training School for Mathematics Lecturers (Topic – Measure Theory and Differential Geometry) organized by Department of Mathematics I. I. T. Bombay from 8th June – 27 th June 2009.

Attended Instructional Workshop on Convex Analysis, Optimization and Application (5th - 21 December 2005) Organized by Department of Mathematics & Statistics, IIT, Kanpur.

Attended Third S. E. R. C. School on Special Functions and Functions of Matrix Argument: Recent Development and Recent Applications in Statistics and Astrophysics held from 14th March 2005 to 15th April 2005 and has obtained a final cumulative grade of 73% in all the examination held in the school.

Organized Conferences/Seminars/workshop etc.

One week STTP on Fuzzy Logic, Image processing and their applications (FLIPATA) at SVNIT, Surat during October 1-5, 2013 **(Contribution – Coordinator)**

Two Days Lecture Series on Partial Differential Equations and Their Applications at SVNIT, Surat during August 27-28, 2011 **(Contribution - Organizing Secretary)**

14th International Conference of International Academy of Physical Sciences at SVNIT, Surat during December 22-24, 2011 **(Contribution – Organizing Secretary)**

List of publications during last five years

D. Gopal, M. Abbas, C. Vetro, "Some new fixed point theorems in Menger PM-spaces with application to Volterra type integral equation " Applied Mathematics and Computation. **(In Press, 2014) (Impact Factor- 1.34).**

D. Gopal, D. K. Patel, "An alternative approach to to "fixed point theorems for occasionally weakly compatible mappings" J. Egyptian Math. Soc. (In Press, 2014(Elsevier).

T. Dosenovic, P. Kumam, **D. Gopal**, D.K. Patel, A. Takaci "On fixed point theorems involving altering distances in Menger probabilistic metric spaces" Journal of Inequalities and Applications 2013, 2013:576, 10 pages. (Impact Factor- 0.82)

D. K. Patel, P. Kumam, **D. Gopal,** "Some discussion on the existence of common fixed points for a pair of maps" Fixed Point Theory and Applications 2013, 2013:187, 17 pages. (Impact Factor- 1.87)

D.K. Patel, T. Abdeljawad, **D. Gopal** "Common fixed points of generalized Meir-Keeler α-contractions" Fixed Point Theory and Applications 2013, 2013:260, 16 pages. (Impact Factor- 1.87)

H. Alikhani, **D. Gopal**, MA Miandaragh, S Rezapour, N Shahzad "Some endpoint results for β-generalized weak contractive multifunctions" The Scientific World Journal 2013, Article ID 948472, 7 pages. (Impact Factor- 1.74)

P. Kumam, F. Rouzkard, M. Imdad, **D. Gopal** "Fixed point theorems on ordered metric Spaces through a rational contraction" Abstract and Applied Analysis 2013, Article ID 206515, 9 pages. (Impact Factor- 1.32)

D. Gopal, F. Rouzkard, M. Imdad "Some existence and uniqueness theorems on ordered metric spaces via generalized distances" Fixed Point Theory and Applications 2013, **2013**:45, 20 pages. (Impact Factor- 1.87)

I. Beg, C. Vetro, D. Gopal, M. Imdad "(φ, ψ)-weak contractions in intuitionistic fuzzy metric spaces" Journal of Intelligent and Fuzzy Systems 2013, doi: 10.3233/IFS-130920. (Impact Factor- 0.788)

M. Abbas, D. Gopal and Stojan Radenovi'c "A note on recently introduced commutative conditions" Indian Journal of Mathematics 55, 2 (2013), 195-202.

M. Tanveer, M. Imdad, D. Gopal, D.K. Patel "Common fixed point theorems in modified intuitionistic fuzzy metric spaces with common property (EA)" Fixed Point Theory and Applications 2012, 2012:36, 12 pages. (Impact Factor- 1.87)

D. Gopal, M. Imdad, M. Abbas "Metrical common fixed point theorems without completeness and closedness" Fixed Point Theory and Applications 2012, 2012:18, 9 pages. (Impact Factor- 1.87)

D. Gopal, C. Vetro, M. Imdad, "Impact of common property (E.A.) on fixed point theorems in fuzzy metric spaces" Fixed Point Theory and Applications 2011, Article ID 297360, 14 pages. (Impact Factor- 1.87)

D. Gopal, M. Imdad, "Some new common fixed point theorems in fuzzy metric spaces" Ann. Univ Ferrara, 57(2), (2011), 303-316, (Springer).

D. Gopal, M. Imdad, C. Vetro, "Common fixed point theorems for mappings satisfying common property (E.A.) in symmetric" Filomat 25(2), (2011), 59-78. (Impact Factor- 0.714)

M. Abbas, D. Gopal, M. Imdad, "ψ-weak contractions in fuzzy metric" Iranian Journal of Fuzzy Systems, 8(5), (2010), 141-148. (Impact Factor- 1.06)

M. Abbas, I. Altun and D. Gopal "Common fixed point theorems for non-compatible mappings in fuzzy metric spaces" Bulletin of Mathematical Analysis and Applications, 1(2), (2009), 47-56.

Personal Details

Date of Birth   7 June, 1976
Father's name   K. P. Gopal
Marital status   Married
Nationality   Indian
Permanent address   Shankar Nagar Champa, Dist.-Champa-Janjgir
                               Chhattisgarh-495671, INDIA

References

Prof. M. Abbas   Prof. Stojan Radenovic

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and Applied Mathematics,	Mechanical Engineering, Kraljice
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