# Resume

# Personal:

Name	: Ashish Kumar
Father's Name	: Shri R. C. Pasbola
Date of Birth	: 25 <sup>th</sup> Nov. 1977
Nationality	: Indian
Marital Status	: Married
Gender	: Male
Languages Known	: Hindi and English
Residential Address	: H. No. 6, Ram Krishna Puram, Shristi Vihar,
	Ajabpur, Dehradun, Uttarakhand.
Mobile Number	09837574436
E-mail	: ashishpasbola@rediffmail.com

# **Education**:

Ph.D. (Mathematics, January 2005), from Gurukula Kangri University, Haridwar

# Title: Fixed Point Theorems and Their Role in Summability Methods

**M.Sc.** (Mathematics 1998), from Ch. Charan Singh University, Meerut with first division (67%)

B. Sc. (1996), from Gurukula Kangri University, Haridwar with first division (62%)

Computer (2000), one year diploma in Computer Software Technology from ET&T

Corporation Ltd.

Teaching Experience: Nearly Twenty years.

**Details:** 

From June 25, 2024 and onwards,

**Associate Professor,** Department of Mathematics, ICFAI Tech School, The ICFAI University, Dehradun

#### From August 14, 2013 to June 24, 2024

Assistant Professor (Selection Grade), Applied Science and Humanities (Mathematics), Himalayan School of Science and Technology (HSST), Swami Rama Himalayan University, Jolly Grant, Dehradun

**Responsibilities:** Apart from teaching MCA, B.Tech, B.Sc. (Hons) Data Science and BCA students discharged/discharging following responsibilities.

In Charge of Office of the Principal, Himalayan School of Science and Technology,

Academic Coordinator, Himalayan School of Science and Technology,

Coordinator Department of Applied Sciences & Humanities,

Member of Academic Council of University,

Member Secretary of Grade Recommendation Committee, Himalayan School of Science and Technology,

Member of Board of Studies,

Chairman of Grievances Redressal Committee, Himalayan School of Science and Technology,

Framed curriculum and syllabus of Mathematics courses for MCA, B. Tech, B.Sc. (Hons.) Data Science and BCA Programs in coordination with others,

Member Research Committee, Himalayan School of Science and Technology,

Member of Grade Recommendation Committee, Himalayan School of Science and Technology,

Coordinator Discipline Committee, Himalayan School of Science and Technology,

#### From January 02, 2006 to August 13, 2013

**Faculty Member**, Department of Mathematics, Faculty of Science and Technology, The ICFAI University, Dehradun, India.

## Responsibilities: Taught B. Tech students

Convener of Students Activity Committee, Member of Student Registration Committee.

## From September 20, 2004 to December 31, 2005

**Lecturer**, Department of Mathematics, Graphic Era University, Dehradun, (formerly Graphic Era Institute of Technology) India

Responsibilities: Taught B. Tech and MCA students

# **Courses Taught:**

- 1. Complex Variable 2. Linear Algebra
- 3. Numerical Techniques
- 5. Optimization
- 7. Operation Research
- 9. Discrete Mathematical Structures
- 11. Regression Analysis

- 4. Differential Equations, and Transforms

  - 6. Calculus & Vector Algebra
  - 8. Probability and Distribution Theory
  - 10. Probability and Random Processes
  - 12. Inferential Statistics

**Research Interest:** Fixed Point theory, Functional Analysis.

#### **Research Papers:**

- Ashish Kumar, Fixed point theorems for Lipschitz type maps, Rivista di Matematica della Università di Parma (7) 3 (2004), 25--34 (2005). <u>MR2130408</u> (2005k:54054) (Joint with S. L. Singh). Impact Factor: 0.26.
- Ashish Kumar, Fixed points of contractive maps, Indian. Journal of Mathematics 47 (2005), no. 1, 51--58. <u>MR2155128</u> (2006a:54041) (Joint with S. L. Singh and Amal M. Hashim). Impact Factor: 0.12.
- Ashish Kumar, Fixed point theorems for contractive maps, Matematički Vesnik 58 (2006), no. 3-4, 85--90. <u>MR2318222</u> (2008b:54070) (Joint with S. L. Singh). Impact Factor: 0.37.

- Ashish Kumar, Fixed points of Meir-Keeler type hybrid contractions, Pan-American Mathematical Journal 16 (2006), no. 4, 35--54. <u>MR2284262</u> (Joint with S. L. Singh and Y. J. Cho). **Impact Factor: 0.19.**
- Ashish Kumar, Coincidence and fixed points of strictly contractive and Lipschitz maps, Rivista di Matematica della Università di Parma (7) 9 (2008), 1--16.
  <u>MR2492670</u> (2010b:54056) (Joint with S. L. Singh). Impact Factor: 0.26
- 6. Ashish Kumar, Fractals via iterated functions and multifunctions, *Chaos Solitons Fractals* 39 (2009), no. 3, 1224--1231. <u>MR2512927</u> (Joint with S. L. Singh and Bhagwati Prasad). **Impact Factor: 3.764.**
- 7. Ashish Kumar, Nonlinear ergodic theory, Rivista di Matematica dellaUniversità di Parma (8) 2 (2009), 55--73. <u>MR2597321</u> (2010m:47071) (Joint with S. L. Singh). Impact Factor: 0.26.
- Ashish Kumar, Coincidence and fixed points of weakly contractive maps, Journal of Advanced Mathematical Studies 5 (2) (2012), 68-81. <u>MR3024743</u> (Joint with S. L. Singh and S. Stofile).
- Ashish Kumar, Coincidences and fixed points of new Meir-Keeler type contractions and applications, Fixed Point Theory, Vol 15 No. 1, 2014, pp. 117-134. <u>MR3234530</u> (Joint with S. L. Singh, S. N. Mishra and Marina M. Milovanovic-Arandjelovic). **Impact Factor: 0.700.**
- Ashish Kumar, A new common fixed point theorem for Suzuki-Meir-Keeler contractions, Filomat, Vol 28 No. 2, 2014, pp. 257-262. <u>MR3360002</u> (Joint with S. L. Singh, Renu Chug and Raj Kamal). **Impact Factor: 0.789.**
- Ashish Kumar, Climate predictability in the Himalayan foothills using fractals, Mausam, Vol 70 No. 2, 2019, pp. 357-362. (Joint with S. Kimothi, A. Thapliyal, N. Ojha, V. K. Soni, Narendra Singh). Impact Factor: 0.395.
- 12. Ashish Kumar, Banach contraction principle its generalizations and applications, communicated (joint with L. Joshi).
- 13. Ashish Kumar, Fixed point theorems via single valued cyclic contractions, communicated (joint with M. Bijalwan).

- 14. Ashish Kumar, On some magneto hydrostatic configurations in ellipsoidal ducts, communicated (joint with M. Bijalwan).
- 15. Ashish Kumar, Fixed point theorems in metric space with w-distance, communicated (joint with L. Joshi and R. P. Pant).

# **Conference Proceeding:**

 Ashish Kumar, Fixed point theorems for strictly contractive maps, pp. 205-214 in: Proceedings of Recent Trends in Mathematics and its Applications, Indian Society of Mathematics and Mathematical Sciences, Gorakhpur, 2003. (Joint with S. L. Singh).

#### Book Chapters in edited book:

- 1. Ashish Kumar, On weak uniformly strict contractions *In*: Recent Advances in Fixed Point Theory and Applications, Nova Science Publishers Inc., New York, USA, 2017, ISBN Number: 978-1-53612-085-1. (Joint with S. L. Singh).
- Ashish Kumar, Metric Fixed Point Theory in Context of Cyclic Contractions *In*: An In-Depth Guide to Fixed-Point Theorems: Nova Science Publishers Inc., New York, USA, 2021.

#### **Conferences/Seminars:**

#### International

- International Conference on Analysis and Applications, held at Department of Mathematics, Banaras Hindu Univ., Varanasi, Dec 22-25, 2003.
  Title of the paper: Fixed Points of Meir-Keeler type hybrid contractions.
- International Vedic Conference on Contribution of Vedas, held at Department of Veda, Gurukula Kangri Univ. Hardwar, Jan 27-30, 2005.
  Title of the paper: Number system in Aryabhatiyam.
- International Conference on Advances in Mathematics: Historical Developments & Engineering Applications, held at Department of Mathematics, Statistics & Computer Science, G. B. Pant University of Agriculture & Technology, Pantnagar, Dec 19-22, 2007.

# Title of the paper: Fixed Points of strict contractive and Lipschitz maps.

- International Satellite Seminar on Role of Mathematics in Science and Engineering, held at Department of Mathematics, Graphic Era University, Dehradun, May 13-14, 2011.
  Title of the paper: Coincidence and fixed Point theorems II.
- International Colloquium on History of Mathematical Sciences and Symposium on Nonlinear Analysis, held at Department of Mathematics, KumaunUniversity, SSJ Campus, Almora, May 16-19, 2011.
  Title of the paper: Fixed points of Meir-Keeler Type contractions.
- International Conference on Recent Trends in Mathematics, held at Department of Mathematics, University of Allahabad, July 10-12, 2015.
  Title of the paper: 46 Years of Meir-Keeler's Fixed Point Theorem.
- 2nd International Conference of Vijnana Parishad of India held at Department of Mathematical Sciences & Computer Applications, Bundelkhand University, Jhansi, UP, India, March 9-11, 2018.
  Title of Paper: Banach Contraction Principle its Generalizations and Applications.

#### National

- National Conference on Recent Trends in Mathematics and its Applications, held at Ind. Soc. Math. Math. Sci., Gorakhpur, Feb 28 - Mar 01, 2003. Title of the paper: Fixed point theorems for contractive maps.
- National Seminar on History of Mathematical Sciences and Applicable Mathematics, held at Department of Mathematics & Statistics, Gurukula Kangri University Hardwar, Mar 7-9, 2003.
  Title of the paper: Common fixed point theorems for family of contractive type mappings.
- National Conference on Recent Trends in Analysis with Emphasis on History of Mathematics, held at Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, Dec 04 - 06, 2003.
  Title of the paper: Fixed points of contractive maps.
- 4. National Conference on Advances in Mathematics and its Applications, held at Ind. Soc. Math. Math. Sci., Gorakhpur, Feb 13-15, 2004.

Title of the paper: Coincidence and fixed Points of strict contractive maps.

- National Conference on Nonlinear Analysis & its Applications, held at Department of Mathematics, Banaras Hindu University, Varanasi, March 19-22, 2009.
  Title of the paper: Meir-Keeler type contractions.
- National Conference on Nonlinear Analysis & Applications, held at Department of Mathematics, H.N. B. Garhwal University, Pauri Campus, May 5-7, 2010.
  Title of the paper: Coincidences and fixed Points of general contractive conditions.
- Annual Conference of Indian Society for History of Mathematics held at Department of Mathematics, SGRR, Dehradun and Indian Society for History of Mathematics, October 5-7, 2017.
  Title of Paper: On some nonlinear contractive conditions.
- 8. National Seminar on Recent Trends in Mathematical Techniques and Their Applications held at Department of Mathematics, Graphic Era University, Dehradun, April 11, 2011.

# Invited Talks/Talks

 National Conference on Recent Advances in Theoretical and Experimental Sciences held at Department of Physics, Bhakt Darshan Government Post Graduate College Jaiharikhal (Pauri Garhwal), Uttarakhand in collaboration with USERC and UCOST, September 29- 30, 2023.

# Title of Invited Talk: On Fixed Point Theorems and Problem of Discontinuity at Fixed Point.

- 8<sup>th</sup> conference of the Indian Science Congress Association (Haridwar Chapter)" Reaching The Unreached Through Science And Technology" held at Department of Mathematics and Computer Science, DSB Campus, Kumaun University, Nainital, Uttarakhand, India, October 14-15, 2017. Title of Talk: Fixed Points of Cyclic Contractions.
- 19th Annual Conference of VijnanaParishad of India held at H.N.B Garhwal University, Pauri Campus, November 10-12, 2016.

# Title of talk: On Weakly Uniformly Strict Contractions.

4. 19th International Conference International Academy of Physical Sciences (CONIAPS-XIX) & Symposium on Fixed Point Theory and Dynamical

Systems, held at Department of Mathematics and Computer Science, DSB Campus, Kumaun University, Nainital, Uttarakhand, India, October 17-19, 2016.

Title of Talk: On Some Coincidence and Fixed Point Theorems.

## Training and Faculty Development Program

- 1. Training in the Modern Pedagogical Training of Trainers & Teachers Workshop organized by Danish Consortium of Academic Craftsmanship held at Swami Rama Himalayan University, Dehradun, September 11-13, 2018.
- Participated in AICTE recognized faculty development program *on* 'NBA & NAAC Strategic Preparation for Enhancing Quality of Education conducted by Media Engineering Department of National Institute of Technical Teachers Training and Research, Chandigarh at Swami Rama Himalayan University, Dehradun, May 27-31, 2024.

## Memberships of Professional Bodies:

- 1. Life member of Indian Society for History of Mathematics.
- 2. Life member of Indian Society of Mathematics and Mathematical Sciences.