

DR. HEMANTA KALITA

PERSONAL DATA

NAME: Hemanta Kalita
GENDER: Male
PLACE AND DATE OF BIRTH: Guwahati, Assam, India | 01 January 1985
ADDRESS: Mathematics Division, School of Advanced Sciences and Languages,
VIT Bhopal University,
Kothri Kalan, Bhopal, India
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WORK EXPERIENCE

Since September 2023-	Assistant Professor (Stage I) at Mathematics Division, School of Advanced Sciences and Languages, VIT Bhopal University, Bhopal, Madhya Pradesh, India
February 2022 -August 2023	Assistant Professor at Department of Mathematics, Assam Don Bosco University, India
July. 2013- Dec 2019	Patkai Christian College (Autonomous), Chumukedima-Sethi-Kema, Dimapur, Nagaland, India
Oct 2010-July 2013	Shillong Engineering and Management College (under North Eastern Hill University), Jorabat, Ri-Bhoi, Meghalaya, India

SCIENTIFIC EDUCATION

March, 2022	DOCTORATE DEGREE Gauhati University, Assam India
2010	MASTERS IN MATHEMATICS & COMPUTING Rajiv Gandhi University Doimukh, Arunachal Pradesh, India
2006	BSC MAJOR IN MATHEMATICS Gauhati University Assam, India

RESEARCH INTERESTS

- Function spaces
- Henstock-Kurzweil integral for Banach valued spaces
- Henstock-Orlicz spaces, Weak Henstock-Orlicz spaces
- Vector valued generalised non-absolute integrable functions
- Vector measure
- Functional differential equations

ONLINE ADDRESSES OF RESEARCH

- Research Gate: [https://www.researchgate.net/profile/Hemanta Kalita](https://www.researchgate.net/profile/Hemanta%20Kalita)
- Google Scholar: Hemanta kalita -<https://scholar.google.com-citations->

RESEARCH RESPONSIBILITIES

Editorial Board

- Editor, Jurnal EurekaMatika
- Editor, Linear and nonlinear analysis
- Guest Editor, Mathematical Notes
- Guest Editor, Bulletin of Mathematical Analysis and Applications
- Guest Editor, Boletim da Sociedade Paranaense de Matematica
- Guest Editor, Journal of Nonlinear and Convex Analysis
- Guest Editor, of International Journal of Nonlinear Analysis and Applications

Reviewer

- American Mathematical Society
- Indonesian Mathematical Society
- Chaos, Solitons and Fractals, Elsevier.
- Journal of Pseudo-Differential Operators and Applications, (Springer)
- Fractal and Fractions, MDPI
- Southeast Asian Bulletin of Mathematics
- Filomat
- Proceedings of the National Academy of Sciences, India Section A: Physical Sciences
- Mathematics, MDPI
- Axiom, MDPI

Guideship

1. Currently co-supervising Puja Dey Sarkar at Assam Don Bosco University, Assam, India
2. Currently co-supervising Guleyer Gulinar at Usak University, Usak, Turkey.

Collaborators

- Prof. Alireza K. Golmankhanehand Department of Physics, College of Science, Urmia Branch, Islamic Azad University, Urmia, Iran
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- Prof. Salvador Sanchez-Perales Dept of Mathematics, Universidad Tecnológica de la Mixteca, MexicoE-mail: es21254@yahoo.com.mx
- Prof. Tomaz perez Becerra Dept of mathematics, Universidad Tecnológica de la Mixteca, Mexico
E-mail: tomas@mixteco.utm.mx
- Dr. Sanket Tikare, Dept of Mathematics, Ramniranjan Jhunjhunwala College, Mumbai, India.
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- Prof. Francisco J. Mendoza Torres Professor, Facultad de Ciencias Físico Matemáticas, Benemérita Universidad Autónoma de Puebla, Av San Claudio, Cd Universitaria, Jardines de San Manuel, 72572 Puebla, Mexico
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- Prof. M. Robdera Professor (Associate) ,Department of Mathematics, University of Botswana, Botswana.
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- Phiri Isaac Researcher, Department of Mathematics, University of Botswana, Botswana.
E-mail: isaacphiri543@gmail.com
- Prof. Talat Nazir Department of Applied Mathematics, University of South Africa, South Africa.
E-mail: talatn@unisa.ac.za
- Prof. Anca Croitoru Professor (Associate), Department of Mathematics, Universitatie the Alexandria, Romania
E-mail: croitoruanca647@yahoo.com

PUBLICATIONS

1. Hemanta Kalita, Alireza K. Golmankhanehand, Bipan Hazarika, On Generalized Local Fractal Calculus Associate with Gauge Integral and Applications, (accepted), Thermal Science, 2024.
2. Hemanta Kalita, Hemen Bharali, Puja Dey Sarkar, On convergence of McShane type integral and Radon measure, (accepted), Filomat, 2024.
3. Al Azhary Masta, Hemanta Kalita, Muh Nu, Another version Discrete Orlicz–Morrey Spaces, (accepted), Filomat, 2024.
4. Hemanta Kalita, Sobolev spaces on canonical Banach spaces and Fourier, (accepted), Bol. Soc. Paran. Mat., 2024.
5. T. Nazir, S. P. Moshokoa, H. Kalita, “Existence of common fixed points of generalized set-contractions on a b-metric space with a directed graph”, Math. Notes, 116:4 (2024), 697–710
6. K. Devi, P. Maroju, H. Kalita, A new optimal eight-order iterative technique for solving simple roots of nonlinear equations, Journal of applied and numerical analysis, 2, 30–40, 2024
7. Salvador Sanchez-Perales, Israel A. Cordero Martinez, Hemanta Kalita, Tomas Perez Berra, Strum-Liouville differential equations with Kurzweil-Henstock integrable functions as coefficient, Journal of nonlinear and convex analysis, 36(11), 2024, 1-19.
8. Marija Paunovic, Ana Savic, Hemanta Kalita, Sudip Deb and Vahid Parvaneh, New Extension of Darbo’s Fixed Point Theorem and Its Application to a System of Weighted-Fractional-Type Integral Equations, Mathematics 2024,12, 2133
9. Hemanta Kalita, Sumit Som, Bipan Hazarika, On statistical convergence of topological Henstock-Kurzweil integral, CARPATHIAN J. MATH, (accepted), 2024.
10. Rafique Muhammad, Talat Nazir, Hemanta Kalita, Fixed points of fuzzy multivalued F-contractive mappings with a directed graph in parametric metric spaces, Probl. Anal. Issues Anal., 2024.
11. Hemanta Kalita, Some characterization of L^r -Henstock-Kurzweil integrable functions, Bol. Soc. Paran. Mat., 42, (2024), 1-6.
12. Hemanta Kalita, Separable ranges of Henstock-Kurzweil-Pettis integral, Bol. Soc. Paran. Mat. (accepted), 2024.

13. Abhishikta Das, S. Som, Hemanta Kalita, and T. Bag, An application of ϕ -metric and related best proximity point results generalizing Wardowski's fixed point theorem, Tatra Mountains Mathematical Publications, 2024.
14. Hemanta Kalita, Ravi P. Agarwal, Ekrem Savas, A representation theorem of a Riemann-Lebesgue integrable function in associate with a vector measure, Transactions of A. Razmadze Mathematical Institute, (accepted), 2024.
15. Tomas Perez Becerra, Hemanta Kalita, Juan Alberto Escamilla Reyna, Vector-valued McShane and strong McShane integrals with the Alexiewicz norm and its Riesz Representation Theorems, Bollettino dell Unione Matematica Italiana, 2024.
16. Hemanta Kalita, Tomas Perez Becerra and Hemen Bharali, L^r -Henstock-Kurzweil integrals on finite dimensional Banach spaces, Southeast Asian Bulletin of Mathematics, 48, (2024), 247-258
17. Bipan Hazarika, Hemanta Kalita, HK-Sobolev spaces $W S^{k,p}$ and Bessel Potential, Filomat, 36(13), 2024.
18. Hemanta Kalita, Hemen Bharli, Sanyoy Kalita, A McShane type integral on complete metric measure space, Filomat, 36(15), 2024.
19. Hemanta Kalita, Bipan Hazarika, Kluvánek–Lewis–Henstock integral in Banach spaces, Bollettino dell Unione Matematica Italiana, 2023.
20. H. Kalita, The weak drop property and the de la Vallée Poussin Theorem, Probl. Anal. Issues Anal., 2023, Issue 3, 105-118
21. Vikuozonuo Sekhose, Hemen Bharali, Hemanta Kalita, Extensibility of Banach valued Riemann type integrals on time scales, Journal of nonlinear and convex analysis, 24(9), 2023, 2037-2057, (SCIE), I.F: 1.075, <http://yokohamapublishers.jp/online2/jncav24n9.html>.
22. Hemanta Kalita, Ravi P. Agarwal, Maphisha, The ap-McShane integral of vector valued functions and ap-PoU integrals, Journal of nonlinear and convex analysis, 24(9), 2023, 1939-1954, (SCIE), I.F: 1.075, <http://yokohamapublishers.jp/online2/jncav24n9.html>.
23. Hemanta Kalita, Ravi P. Agarwal, Bipan Hazarika, On convergence of ap-Henstock-Kurzweil integrable functions, Crez. Math. Soc., (2023).
24. Hemanta Kalita, Bipan Hazarika, Tomas Perez Becerra, On AP-Henstock–Kurzweil Integrals and Non-Atomic Radon Measure, Mathematics, 11, (2023),1-17.
25. Hemanta Kalita, Bipan Hazarika, Modular convergence in H-Orlicz spaces of Banach valued functions, Rend. del Cir. Mate. di Palermo, 2023.
26. Hemanta Kalita, Sobolev spaces over \mathbb{R}^∞ , *Facta. Univer. (NIS) Ser. Math. Inform.*, 37(4), 2022.
27. Hemanta Kalita, Bipan Hazarika, A convergence theorem for ap -Henstock-Kurzweil integral and its relation to topology, FILOMAT, 36(20), 2022.
28. Hemanta Kalita, Bipan Hazarika, BMO spaces for non absolute integrable functions, FILOMAT, 36(20), 2022.
29. Hemanta Kalita, Kuelbs-Steadman spaces with bounded variable exponents, Filomat, 36(13), 2022.
30. Hemanta Kalita, Bipan Hazarika and Timothy Myre, Kuelbs-Steadman spaces on Separable Banach spaces, *Facta Univer. (NIS) Ser. Math. Inform.* Vol. 36, No 5 (2021), 1065-1077 (ESCI).
31. Hemanta Kalita and Bipan Hazarika, Canonical Orlicz classes, *Asian Euro. J. Math.*, <https://doi.org/10.1142/S1793557122501868> (2022). (SCOPUS).

32. Tepper L. Gill, Hemanta Kalita and Bipan Hazarika, A family of Banach spaces over \mathbb{R}^∞ , Proc. Singapore National Academy of Science, 14(2), (2020) 1–7.
33. Hemanta Kalita, Salvador S. Perales, and Bipan Hazarika, On Geometrical properties of Henstock-Orlicz spaces, Transactions of a Razmadze Mathematical Institute, 177, (2023), 1-10.
34. Hemanta Kalita and Bipan Hazarika, Countable additivity of Henstock-Dunford integrable functions and Orlicz spaces, Analysis and Mathematical Physics., 11(2) (2021), 1-13. (SCIE), I.F 2.06
35. Bipan Hazarika and Hemanta Kalita, Henstock-Orlicz spaces and its dense spaces, Asian Euro. J. Math., 14 (7) (2021), 1-17 (SCOPUS).
36. Antonio Boccuto, Bipan Hazarika and Hemanta Kalita, Kuelbs-Steadman spaces for Banach space-valued measures, Mathematics., 8(6), (2020), 1-15 (SCIE). I.F 1.88

CONFERENCE PAPERS

1. Bipan Hazarika and Hemanta Kalita, The Jones spaces over \mathbb{R}_n^I , Fourth International Conference of Mathematical Sciences (ICMS 2020) (SCOPUS).
2. Hemanta Kalita, On Dobrakov-Dunford and Birkhoff-Dunford integral, The 16th International Conference MSAST 2022, December 21 - 23, 2022, Kolkata, India.

CHAPTERS

1. Hemanta Kalita, Bipan Hazarika, Mohsen Rabbani, Zachary Spaces $Z^p[\mathbb{R}^\infty]$ and Separable Banach Spaces, Springer, DOI: 10.1007/978-981-19-6116-8_5, (2022).
2. Hemanta Kalita and Bipan Hazarika, The Theory of Nonabsolute Integrable Function Spaces over \mathbb{R}^∞ and Its Various Applications, World Scientific, https://doi.org/10.1142/9789811272608_0015, (2023).

BOOKS

1. Hemanta Kalita, Mehmet Gurdal, Sanket Tikare, Talat Nazir, *Summability, Fixed Point Theory and Generalized integrals with Applications*, CRC, Taylor & Francis Group, (accepted), 2024.
2. Toh Tin Loh, Hemanta Kalita, Anca Croitoru, Tomas Perez Becerra, Bipan Hazarika, *Generalized integrals and applications*, World Scientific, (accepted), 2024.
3. Hemanta Kalita, Tomas Perez Becerra, Kiran Behera, Proceedings of Nonlinear Analysis and Computational Techniques – ICNACT 2024, Bhopal, India, August 8–10

INDEXING INFORMATION

1. Citation Index google scholar: 58
2. h-index: 5
3. i10index: 2

ACADEMIC RESPONSIBILITIES

- Convenor, International Conference on Nonlinear analysis and computational techniques (ICNACT-2024), August 8-10, 2024 (Hybrid)
- Convenor, International Workshop on Applied Analysis in Collaboration with Marigaon College, Assam, India, Nov-24, 2022.
- Convenor, International Conference on Nonlinear Analysis and Applications-2022 (ICNAA-2022) , Nov, 22-23, 2022 (Hybrid)

- Convenor of Insta Remote Lecture in Collaboration with, Dimoria College , Assam, India, Nov-21, 2022.
- I have hosted an work shop on Learning difficulties in Mathematics, May19, 2022.
- I have hosted an international Talk series on 18 May, 2021.
- I have hosted an international Talk series on 19th June, 2021.

CONFERENCES AND SEMINARS

1. Invited Speaker, International Conference on Mathematical Sciences and its application (ICMSA 2024), Sri Guru Tegh Bahadur Khalsa College, University of Delhi, October 15-17, 2024.
2. Resource person, Online workshop on Mathematical Modelling and Applications, Sept 30-Oct 8, 2024, Guru Nanak College, Punjab, India.
3. Invited Speaker, International Conference on nonlinear analysis and application, Sridev Suman Uttarkhand University, Rishikesh-249201, India 10-12 May, 2024.
4. Invited Speaker, International Conference on Mathematical Analysis and Generalized Integration, San José del Cabo, BCS, Mexico, 5-6 December, 2023
5. Hemanta Kalita, Oral Presentation (online), in 16 th international Conference MSAST 2022, held on 21-23 Dec, 2022, by the Instititute IMBIC, Kolkata, India.
6. Hemanta Kalita, Oral Presentation, in international Conference on Advances in Mathematical Sciences (NCAMS-2022), held on 22-23 Dec, 2022, by Department of Mathematics, Gauhati University, Assam, India.
7. Hemanta Kalita, Attended, in 2nd (Hybrid) international Conference on Orthogonal Polynomials, Special functions and Computer Algebra: Applications in Engineering (OPSFCA-22), 1-16 Oct, 2022, organized by Anand International College of Engineering, Jaipur, India.
8. Hemanta Kalita, Attended, Faculty Developement Programme on Basic Science and Research methodology, 2-8 Aug, 2022, organized by the School of Fundamental and Applied Sciences (SOFAS), Assam Don Bosco University, Sonapur, Assam, India.
9. Hemanta Kalita, Attended, (online) in the international virtual conference on "Operators on Banach Algebras and Related Topics", held on 16-17 July,2022, by the Faculty of Mathematical Sciences, Tarbiat Modares University, Tehran, Iran.
10. Hemanta Kalita, Invited speaker, (online), Seminar on Mathematical Analysis and Generalized Integration, Mexico-Oman-India, Funded by Universidad Autónoma Metropolitana-I, Benemérta Universidad Autónomade Puebla, July18-20, 2022.
11. Hemanta Kalita, Attended, (online) Faculty Developement Programme on Research Perspectives in Mathematics and its Applications, Department of Mathematics, Sathyabama Institute of Science and Technology, Chennai, India., July, 4-16, 2022
12. Hemanta Kalita, Oral Presentation, (online) in International Conference on Computational Methods in Science and Engineering, Department of Mathematics, April 22-24, 2022, BITS, Pilani, Hyderabad, India.
13. Hemanta Kalita, Attended, (online)in 2nd International Online Seminar: Mexico-Brazil-Canada-Czech Republic-Oman-Spain Department of Mathematics, Benemérta Universidad Autónoma de Puebla, Mexico, 21 October,(2021)
14. Hemanta Kalita and Bipan Hazarika, Oral Presentation, (online) in International Conference of Applied Sciences, Dept of Mathematics, Gauhati University, Guwahati, Assam,India in 22- 23 Dec, 2020

15. Hemanta Kalita S. S. Perales and Bipan Hazarika, Oral presentation (online) in IMBIC, Kolkata in 21-23 Dec, 2020
16. Hemanta Kalita, Tepper L. Gill and Bipan Hazarika, Oral presentation in IMBIC conference, Kolkata in 21-23 Dec, 2019.

OTHER RESPONSIBILITY

1. Invited researcher at Usak University, Usak, Turkey for the period of 5th July–15th August, 2023.

REFERENCES

1. Prof. Bipan Hazarika (Ph.D. Thesis Supervisor)
Professor, Department of Mathematics, Gauhati University (GU), Guwahati – 781014.
India
E-mail: bh_rgu@yahoo.co.in
Phone: +919436222172
2. Prof. Ravi P. Agarwal,
Department of Mathematics, Department of Mathematics, Texas A& M University-Kingsville, Texas, USA
Email: Ravi.Agarwal@tamuk.edu
3. Prof. Anca Croitoru
Professor (Associate), Department of Mathematics, Universitatie the Alexendria, Romania
E-mail: croitoruanca647@yahoo.com
Phone: +40726052861

DECLARATION

I hereby declared that, all the above statements are true to the best of my knowledge.

Your faithfully
Hemanta Kalita, PhD