

CURRICULUM VITAE

NAME: PRADIP DEBNATH

QUALIFICATION: M.Sc., M.Phil., Ph.D.

DESIGNATION: Associate Professor

AFFILIATION: Department of Mathematical Sciences,
Tezpur University,
Napaam, Tezpur, Assam, INDIA
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Featured in the World's Top 2% Scientists List prepared by Stanford University and published by Elsevier in consecutive years 2023 and 2024

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(URL 2024: <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/7>)

ACADEMIC QUALIFICATION:

- I. **M.Sc.** in Mathematics from **Assam University, Silchar** with **First Class First Rank (Gold Medalist)**.
- II. **M.Phil.** in Mathematics from **Assam University, Silchar**.
- III. **Ph.D.** in Mathematics from **NIT Silchar**.

OTHER QUALIFICATIONS:

- IV. Qualified **GATE** in Mathematics (Roll No. MA 4130113), Conducted by IIT Roorkee.
- V. Qualified **SLET** in Mathematics (Roll No. 1410433605), Conducted by SLET Commission Assam.

RESEARCH INTERESTS: Fixed Point Theory, Functional Analysis, Soft Computing,

PROGRAMMING SKILLS: FORTRAN, C, C++, LATEX, SCILAB, QGIS,
MATHEMATICA

TITLE OF M.Phil. THESIS: *Prime Number and Its Applications*

Title of Ph.D. THESIS: *A Study on Intuitionistic Fuzzy n -Normed Linear Spaces*

TEACHING EXPERIENCE:

- I.** Working as an Associate Professor (Permanent) in the Dept. of Mathematical Sciences, Tezpur University, INDIA, since 17-10-2023 (Scale of pay Rs. 1,31,400 - 2,17,100/-)
- II.** Worked as an Assistant Professor (Permanent) in the Dept. of Applied Science and Humanities, Assam University Silchar, INDIA, from 30-10-2017 to 16-10-2023 (Scale of pay Rs. 57,700 - 1,82,400/-)
- III.** Worked as an Assistant Professor (Permanent) in the Dept. of Mathematics, NERIST, Arunachal Pradesh, INDIA, from 07-01-2015 to 27-10-2017 (Scale of pay Rs. 15600 - 39100/- + AGP Rs. 6000/-)

RESEARCH PROJECT(S) UNDERTAKEN

<u>Sl. No.</u>	<u>Title of the Project</u>	<u>Funding Agency</u>	<u>Sanctioned Amount</u>	<u>Project Sanction Order No.</u>	<u>Project start date</u>	<u>Duration</u>	<u>Status</u>
<u>1</u>	New Fixed Point Results with Applications in Generalized Metric Spaces	<u>UGC</u> (UGC BSR Start-Up-Grant)	Rs. 10,00,000/- (Rupees ten lakh only)	No. F.30-452/2018(B SR) dated 12 Feb 2019	<u>12 February 2019</u>	<u>3 years</u>	<u>Completed</u> <u>(10 papers published in SCIE/ SCOPUS indexed journals)</u>

PhD SUPERVISION (as sole supervisor): 02 Nos.

<u>Sl. No.</u>	<u>Name of the student</u>	<u>Title of the thesis</u>	<u>Supervisor</u>	<u>Institution</u>	<u>Date of thesis submission</u>	<u>Current Status</u>	<u>Current Position of the Student</u>
1	Nabanita Konwar	STUDIES ON CONVERGENCE AND OTHER ANALYTIC PROPERTIES IN INTUITIONISTIC FUZZY NORMED LINEAR SPACES	Dr. Pradip Debnath	North Eastern Regional Institute of Science and Technology	23.05.2018	Degree Awarded (Viva-Voce held on 15.02.2019)	Working as Assistant Professor in the Dept. of Mathematics at Birjhora Mahavidyalaya, Bongaigaon, Assam
2	Murchana Neog	FIXED POINT THEOREMS FOR SINGLE-VALUED AND SET-VALUED MAPS ON METRIC SPACES	Dr. Pradip Debnath	North Eastern Regional Institute of Science and Technology	29.09.2018	Degree Awarded (Viva-Voce held on 25.05.2019)	Working as Assistant Professor in the Dept. of Mathematics at Assam down town University

OTHER INFORMATION:

- 1) Recipient of **Gold Medal** for securing **1st Class 1st Position in M.Sc.** (Mathematics) from Assam University, Silchar.
- 2) Reviewer for “**MATHEMATICAL REVIEWS**” (Published by American Mathematical Society): Reviewer Number: **160501**.

3) Peer reviewer of the following International Journals:

(1) Iranian Journal of Fuzzy Systems (2) Thai Journal of Mathematics (3) Journal of Nonlinear Analysis and Optimization (4) Annals of Fuzzy Mathematics and Informatics (5) Filomat (6) Journal of the Association of Arab Universities for Basic and Applied Sciences (7) Songklanakarin Journal of Science and Technology (8) Sohag Journal of Mathematics (9) Journal of Operators (10) International Journal of General Systems (11) Journal of Intelligent and Fuzzy Systems (12) Journal of Computational and Applied Mathematics (13) Journal of Function Spaces (14) Advances in Difference Equations (15) Sao Paulo Journal of Mathematical Sciences (16) Arab Journal of Basic and Applied Sciences (17) Journal of Mathematics (18) Advances and Applications in Mathematical Sciences (19) Cogent Mathematics (20) Facta Universitatis, Series: Mathematics and Informatics (21) Numerical Methods for Partial Differential Equations (22) Honam Journal of Mathematics (23) Asian European Journal of Mathematics (24) Symmetry (25) Mathematics (26) Soft Computing (27) Journal of Inequalities and Applications (28) Cogent Mathematics & Statistics (29) Journal of Modelling in Management (30) Mathematical Problems in Engineering (31) Tbilisi Mathematical Journal (32) Fractal and Fractional (33) AIMS Mathematics (34) Computer Modeling in Engineering and Sciences (35) Turkish Journal of Mathematics (36) Annales Mathematicae Silesianae (37) Italian Journal of Pure and Applied Mathematics (38) Applied Sciences (39) IEEE Access (40) Advances in Mechanical Engineering (41) Polycyclic Aromatic Compounds (42) Electronics (43) Axioms (44) Journal of Risk of Financial Management (45) Infrastructures (46) Interdisciplinary Perspectives on Infectious Diseases (47) Sensors (48) Abstract and Applied Analysis (49) Evidence-based Complementary and Alternative Medicine (50) Sustainability (51) International Journal of Mathematics and Mathematical Sciences (52) Logistics (53) Heliyon (54) Journal of King Saud University - Science (55) Journal of Applied Science and Engineering (56) Buildings (57) BioMed Research International (58) Indian Journal of Pure and Applied Mathematics (59) Fixed Point Theory and Applications (60) Jordan Journal of Mathematics and Statistics (61) Research in Mathematics (62) Computer Modeling in Engineering and Sciences (63) Malaysian Journal of Mathematical Sciences (64) Sahand Communications in Mathematical Analysis (65) Journal of Applied Analysis.

- 4) **Languages known** (Read, Write, Speak): Bengali, English, Hindi, Assamese.
- 5) Received MHRD scholarship (through GATE) for pursuing Ph.D. at NIT Silchar, India.

6) Editorial Work:

- a) **Associate Editor** of the Journal “**Heliyon**” (Mathematics Section) (ISSN: 2405-8440, Scopus indexed, Publisher: Elsevier/Cell Press), Duration: 8th April 2024 to 7th April 2025 (with an honorarium of USD 1000 per year). **URL:** <https://www.cell.com/heliyon/mathematics/editors>

- b) **Editorial Board Member** of “**Scientific Reports**” (ISSN: 2045 - 2322, Scopus and WoS (SCIE) indexed, **Publisher: NATURE Portfolio**, Impact Factor: 3.8). <https://www.nature.com/srep/>
- c) **Editorial Board Member** of “**Research in Mathematics**” (ISSN: 2768 -4830, Scopus and WoS(ESCI) indexed, Publisher: Taylor & Francis). [URL: https://www.tandfonline.com/journals/oama23/about-this-journal#editorial-board](https://www.tandfonline.com/journals/oama23/about-this-journal#editorial-board)
- d) **Editorial Board Member** of “**Maejo International Journal of Science and Technology**” (ISSN: 1905-7873, Scopus and WoS (SCIE) indexed, Publisher: Maejo University). [URL: http://www.mijst.mju.ac.th/board.htm](http://www.mijst.mju.ac.th/board.htm)
- e) **Editorial Board Member** of “**TWMS Journal of Applied and Engineering Mathematics**” (ISSN: 2146-1147, Scopus and WoS (ESCI) indexed, Publisher: Isik University). [URL: https://jaem.isikun.edu.tr/web/](https://jaem.isikun.edu.tr/web/)
- f) **Editorial Board Member** of “**PLOS ONE**” (ISSN: 1932-6203, Scopus and WoS (SCIE) indexed, Publisher: Public Library of Science, US). [URL: https://journals.plos.org/plosone/static/editorial-board?](https://journals.plos.org/plosone/static/editorial-board?)
- g) **Editorial Board Member** of “**Jambura Journal of Mathematics**” (ISSN: 2654 -5616, Publisher: Universitas Negeri Gorontalo, Indonesia). [URL: https://ejurnal.ung.ac.id/index.php/jjom/about/editorialTeam](https://ejurnal.ung.ac.id/index.php/jjom/about/editorialTeam)
- h) **Editorial Board Member** of “**Open Journal of Applied Sciences**” (ISSN: 2165 -3917, Publisher: Scientific Research Publication, China). [URL: https://www.scirp.org/journal/editorialboard?journalid=1003](https://www.scirp.org/journal/editorialboard?journalid=1003)
- i) **Managing Editor** of “**Applied Mathematics & Information Sciences Letters**” (ISSN: 237 -8944, Publisher: Natural Sciences Publishing). [URL: https://www.naturalspublishing.com/show.asp?JorID=15&pgid=69](https://www.naturalspublishing.com/show.asp?JorID=15&pgid=69)
- j) **Guest Editor** of the Special Issue “**Nonlinear Functional Analysis in Natural Sciences**” in the journal “**Axioms**” (ISSN: 2075-1680, SCIE & Scopus indexed), 2021 Impact Factor: 1.824. [URL: https://www.mdpi.com/journal/axioms/special_issues/F20ES8E7C2](https://www.mdpi.com/journal/axioms/special_issues/F20ES8E7C2)
- k) **Guest Editor** of the Special Issue “**Symmetry in Fixed Point Theory and Applications**” in the journal “**Symmetry**” (ISSN: 2073-8994, SCIE & Scopus indexed), 2021 Impact Factor: 2.94. [URL: https://www.mdpi.com/journal/symmetry/special_issues/3J9SL8G68C](https://www.mdpi.com/journal/symmetry/special_issues/3J9SL8G68C)
- l) **Guest Editor** of the Special Issue “**Trends in Fixed Point Theory and Fractional Calculus**” in the journal “**Axioms**” (ISSN: 2075-1680, SCIE indexed - 2025), 2025 Impact Factor: 1.9. [URL: https://www.mdpi.com/journal/axioms/special_issues/4K4JA339IE](https://www.mdpi.com/journal/axioms/special_issues/4K4JA339IE)

- 7) (i) **Topical Advisory Panel Member** of the journal “**Axioms**” (ISSN: 2075-1680, SCIE & Scopus indexed), 2021 Impact Factor: 1.824.
URL: https://www.mdpi.com/journal/axioms/topic_editors
- (ii) **Topical Advisory Panel Member** of the journal “**Fractal and Fractional**” (ISSN: 2504-3110, SCIE & Scopus indexed), 2021 Impact Factor: 3.577.
URL: https://www.mdpi.com/journal/fractalfract/topical_advisory_panel

LIST OF PUBLICATIONS

2025(2)

- 1) **P. Debnath**, *On some open questions about multivalued enriched interpolative Kannan and Ciric-Reich-Rus type contractions in a Banach space*, **Fixed Point Theory** (Impact Factor: 1.1) 26 (2) (2025), DOI: 10.24193/fpt-ro.2025.2.XX
- 2) D. Devi and **P. Debnath**, *Fixed points of two interpolative cyclic contractions in b-metric spaces*, **Heliyon** 11 (1) (2025), e41667, DOI: 10.1016/j.heliyon.2025.e41667.

2024(3)

- 3) **P. Debnath**, *Statistical Cesaro summability in intuitionistic fuzzy n-normed linear spaces leading towards Tauberian theorems*, **Axioms** (Impact Factor: 1.9), (2024), 13 (8), 557, DOI: 10.3390/axioms13080557.
- 4) N. Konwar and **P. Debnath**, *Fixed point results of F-contractions in bipolar p-metric spaces*, **Axioms** (Impact Factor: 1.9), (2024), 13 (11), 773, DOI: 10.3390/axioms13110773.
- 5) A. Zinihi, M.R.S. Ammi, A. Bachir, **P. Debnath**, *Existence of solutions for a q-fractional p-Laplacian SIR model*, **Journal of Applied Analysis** (2024), DOI: 10.1515/jaa-2024-0113.

2023 (4)

- 6) **P. Debnath**, *Best proximity points of multivalued Geraghty contractions*, **Miskolc Mathematical Notes** (Impact Factor: 1.22) 24 (1) (2023) 119-127.
- 7) **P. Debnath**, *Results on discontinuity at fixed point for a new class of F-contractive mappings*, **Sahand Communications in Mathematical Analysis** 20 (4) (2023) 21 - 32, DOI: 10.22130/scma.2023.560141.1161.
- 8) N. Konwar, **P. Debnath**, S. Radenovic and H. Aydi, *A new extension of Banach-Caristi theorem and its application to nonlinear functional equations*, **Kragujevac Journal of Mathematics** 47 (3) (2023), 409-416.
- 9) P. Yumnam, **P. Debnath**, *A review on mathematical modeling of different biological methods of hydrogen production*, **Hydrogen** 4 (4) (2023), 881-916.

[2022 \(8\)](#)

- 10) O. Kisi and **P. Debnath**, *Fibonacci ideal convergence on intuitionistic fuzzy normed linear spaces*, **Fuzzy Information and Engineering** 14 (3) (2022) 255-268, DOI: 10.1080/16168658.2022.2160226.
- 11) N. Konwar and **P. Debnath**, *Fixed point results for a family of interpolative F-contractions in b-metric spaces*, **Axioms** (Impact Factor: 1.824), (2022), 11 (11), 621, DOI: 10.3390/axioms11110621.
- 12) **P. Debnath**, *A QGIS-based road network analysis for sustainable road network infrastructure: an application to the Cachar district in Assam, India*, **Infrastructures**, (2022), 7 (9), DOI: 10.3390/infrastructures7090114.
- 13) **P. Debnath**, *Banach, Kannan, Chatterjea and Reich-type contractive inequalities for multivalued mappings and their common fixed points*, **Mathematical Methods in the Applied Sciences** (Impact Factor: 2.32) 45 (3) (2022) 1587-1596, DOI: 10.1002/mma.7875.
- 14) **P. Debnath**, *Common fixed-point and fixed-circle results for a class of discontinuous F-contractive mappings*, **Mathematics** (Impact Factor: 2.592), (2022), 10 (9), DOI: 10.3390/math10091605.
- 15) **P. Debnath**, *New common fixed point theorems for Gornicki-type mappings and enriched contractions*, **Sao Paulo Journal of Mathematical Sciences** 16 (2) (2022) 1401-1408, DOI: 10.1007/s40863-022-00283-2.
- 16) **P. Debnath**, *Some results on Cesaro summability in intuitionistic fuzzy n-normed linear spaces*, **Sahand Communications in Mathematical Analysis**, 19 (1) (2022) 77-87.
- 17) N. Konwar, R. Srivastava, **P. Debnath** and H. M. Srivastava, *Some new results for a class of multivalued interpolative Kannan-type contractions*, **Axioms** (Impact Factor: 1.824), (2022), 11 (2), DOI: 10.3390/axioms10010076.

[2021 \(7\)](#)

- 18) **P. Debnath**, *Set valued Meir-Keeler, Geraghty and Edelstein type fixed point results in b-metric spaces*, **Rendiconti del Circolo Matematico di Palermo Series 2**, 70 (3) (2021) 1389-1398.
- 19) **P. Debnath** and H. M. Srivastava, *Optimal returns in Indian stock market during global pandemic: A comparative study*, **Journal of Risk and Financial Management** (2021), 14 (12), DOI: 10.3390/jrfm14120592.
- 20) **P. Debnath**, *A new extension of Kannan's fixed point theorem via F-contraction with application to integral equations*, **Asian European Journal of Mathematics** (2022), 15 (7), Article ID: 2250123, DOI: 10.1142/S1793557122501236.

- 21) **P. Debnath** and H. M. Srivastava, *Optimizing stock market returns during global pandemic using regression in the context of Indian stock market*, **Journal of Risk and Financial Management** (2021), 14 (8), DOI: 10.3390/jrfm14080386.
- 22) **P. Debnath**, *Optimization through best proximity points for multivalued F -contractions*, **Miskolc Mathematical Notes** (Impact Factor: **1.22**) 22 (1) (2021) 143-151.
- 23) **P. Debnath**, Z. Mitrovic and H. M. Srivastava, *Fixed points of some asymptotically regular multivalued mappings satisfying a Kannan-type condition*, **Axioms** (Impact Factor: 0.5), (2021), 10 (1), DOI: 10.3390/axioms10010024.
- 24) **P. Debnath**, Z. Mitrovic and S. Y. Cho, *Common fixed points of Kannan, Chatterjea and Reich type pairs of self-maps in a complete metric space*, **Sao Paulo Journal of Mathematical Sciences**, 15 (1) (2021) 383-391.
- [2020 \(8\)](#)
- 25) **P. Debnath** and M. de La Sen, *Fixed-points of eventually Δ –restrictive and $\Delta(\epsilon)$ –restrictive set-valued maps in metric spaces*, **Symmetry** (Impact Factor: 2.13), (2020), 12 (1), DOI: 10.3390/sym12010127.
- 26) **P. Debnath** and M. de La Sen, *Contractive inequalities for some asymptotically regular set-valued mappings and their fixed points*, **Symmetry** (Impact Factor: 2.13), (2020), 12 (3), DOI: 10.3390/sym12030411.
- 27) **P. Debnath** and H. M. Srivastava, *New extensions of Kannan's and Reich's fixed point theorems for multivalued maps using Wardowski's technique with application to integral equations*, **Symmetry** (Impact Factor: 2.13), (2020), 12 (7), DOI: 10.3390/sym12071090.
- 28) **P. Debnath** and H. M. Srivastava, *Global optimization and common best proximity points for some multivalued contractive pairs of mappings*, **Axioms** (Impact Factor: 0.5), (2020), 9 (3), DOI: 10.3390/axioms9030102.
- 29) **P. Debnath**, Z. Mitrovic and S. Radenovic, *Interpolative Hardy-Rogers and Reich-Rus-Ciric type contractions in b -metric spaces and rectangular b -metric spaces*, **Mathematicki Vesnik**, 72 (4) (2020), 368-374.
- 30) M. Neog, **P. Debnath** and S. Radenovic, *Common fixed point of set valued graph A_ϕ –contraction pair and generalized ϕ -weak G -contraction on metric space endowed with a graph*, **Annals of the University of Craiova, Mathematics and Computer Science Series**, 47 (1) (2020), 158-169.
- 31) **P. Debnath**, M. Neog and S. Radenovic, *Set valued Reich type G -contractions in a complete metric space with graph*, **Rendiconti del Circolo Matematico di Palermo Series 2**, 69 (3) (2020), 917-924.

- 32) **P. Debnath** and M. de La Sen, *On some new contractive conditions for asymptotically regular set-valued mappings*, **International Journal of Analysis and Applications**, 18 (4) (2020) 586-93.

[2019 \(7\)](#)

- 33) N. Konwar, A. Esi and **P. Debnath**, *New fixed point theorems via contraction mappings in complete intuitionistic fuzzy normed linear space*, **New Mathematics and Natural Computation**, 15 (1) (2019) 65-83.
- 34) N. Konwar and **P. Debnath**, *Some results on coincidence points for contractions in intuitionistic fuzzy n -normed linear space*, **Thai Journal of Mathematics**, 17 (1) (2019), 43-62.
- 35) M. Neog, **P. Debnath** and S. Radenovic, *New extension of some common fixed point theorems in complete metric spaces*, **Fixed Point Theory (Impact Factor: 1.287)**, 20 (2) (2019) 567-580. DOI: 10.24193/fpt-ro.2019.2.37
- 36) N. Konwar, B. Davvaz and **P. Debnath**, *Results on generalized intuitionistic fuzzy hypergroupoids*, **Journal of Intelligent and Fuzzy Systems** (Impact Factor: **1.81**), 36 (3) (2019) 2571-2580, DOI: 10.3233/JIFS-181522.
- 37) M. Neog, M. M. M. Jaradat and **P. Debnath**, *Common fixed point results of set valued maps for A_ϕ -contraction and generalized ϕ -type weak contraction*, **Symmetry** (Impact Factor: 2.143), (2019), 11 (7), 894, DOI: 10.3390/sym11070894.
- 38) **P. Debnath** and M. de La Sen, *Set-valued interpolative Hardy-Rogers and set-valued Reich-Rus-Ciric type contractions in b -metric spaces*, **Mathematics** (Impact Factor: 1.105), (2019), 7 (9), 849, DOI: 10.3390/math7090849.
- 39) **P. Debnath** and M. de La Sen, *Fixed-points of interpolative Ciric-Reich-Rus-type contractions in b -metric spaces*, **Symmetry** (Impact Factor: 2.13), (2019), 12 (1), DOI: 10.3390/sym12010012.

[2018 \(6\)](#)

- 40) M. Neog and **P. Debnath**, *Some new results for set valued mappings defined on sets on metric space with graph*, **Journal of Advanced Mathematical Studies**, 11 (1) (2018) 47-55.
- 41) E. Yolacan, **P. Debnath** and M. A. Akturk, *Common coupled fixed point theorems for generalized nonlinear contractions on metric spaces involving a graph*, **Sigma Journal of Engineering and Natural Sciences**, 36 (2) (2018) 419-432.
- 42) N. Konwar and **P. Debnath**, *Some new contractive conditions and related fixed point theorems in intuitionistic fuzzy n -Banach spaces*, **Journal of Intelligent and Fuzzy Systems** (Impact Factor: **1.81**), 34 (1) (2018) 361-372.

- 43) N. Konwar, B. Davvaz and **P. Debnath**, *Approximation of new bounded operators in intuitionistic fuzzy n -Banach spaces*, **Journal of Intelligent and Fuzzy Systems** (Impact Factor: **1.81**), 35 (6) (2018) 6301-6312.
- 44) N. Konwar and **P. Debnath**, *Generalized $I_{\lambda}^{s_r}$ -statistical convergence in intuitionistic fuzzy normed linear space*, **Songklanakarin Journal of Science and Technology**, **40** (3) (2018), 540-549.
- 45) N. Konwar and **P. Debnath**, *Intuitionistic fuzzy n -normed algebra and continuous product*, **Proyecciones Journal of Mathematics**, 37 (1) (2018) 63-83.

[2017 \(6\)](#)

- 46) **P. Debnath**, B.S. Choudhury and M. Neog, *Fixed set of set valued mappings with set valued domain in terms of start set on a metric space with a graph*, **Fixed Point Theory and Applications**, 2017 (2017(5)), DOI: 10.1186/s13663-017-0598-8.
- 47) N. Konwar and **P. Debnath**, *Continuity and Banach contraction principle in intuitionistic fuzzy n -normed linear spaces*, **Journal of Intelligent and Fuzzy Systems** (Impact Factor: **1.81**), 33 (4) (2017) 2363-2373.
- 48) M. Neog and **P. Debnath**, *Fixed points of set valued mappings in terms of start point on a metric space endowed with a directed graph*, **Mathematics** (Impact Factor: **1.47**), (2017), 5 (2), 24, DOI:10.3390/math5020024.
- 49) **P. Debnath**, M. Neog and S. Radenovic, *New extension of some fixed point results in complete metric spaces*, **Tbilisi Mathematical Journal**, 10 (2) (2017) 201-210.
- 50) N. Konwar and **P. Debnath**, *I_{λ} -convergence in intuitionistic fuzzy n -normed linear space*, **Annals of Fuzzy Mathematics and Informatics**, 13 (1) (2017) 91-107.
- 51) **P. Debnath**, *A new type of convergence in intuitionistic fuzzy normed linear spaces*, **Journal of New Theory**, 15 (2017) 19-25.

[2016 \(4\)](#)

- 52) D. Eshi, P.K. Das and **P. Debnath**, *Coupled coincidence and coupled common fixed point theorems on a metric space with a graph*, **Fixed Point Theory and Applications**, 2016 (2016 (37)), DOI:10.1186/s13663-016-0530-7.
- 53) B.S. Choudhury, N. Metiya and **P. Debnath**, *End point results in metric spaces endowed with a graph*, **Journal of Mathematics**, 2016, Article ID: 91301017, (2016), DOI: 10.1155/2016/9130107.
- 54) **P. Debnath**, *A generalised statistical convergence in intuitionistic fuzzy n -normed linear spaces*, **Annals of Fuzzy Mathematics and Informatics**, 12 (4) (2016) 559-572.

- 55) **P. Debnath** and N. Konwar, *Results on approximation properties in intuitionistic fuzzy normed linear spaces*, **Theory and Applications of Mathematics and Computer Science**, 6 (2) (2016) 134-149.

[2015 \(1\)](#)

- 56) **P. Debnath**, *Results on lacunary difference ideal convergence in intuitionistic fuzzy normed linear spaces*, **Journal of Intelligent and Fuzzy Systems** (Impact Factor: **1.81**), 28 (3) (2015) 1299-1306.

[2014 \(3\)](#)

- 57) **P. Debnath** and M. Sen, *Some completeness results in terms of infinite series and quotient spaces in intuitionistic fuzzy n -normed linear spaces*, **Journal of Intelligent and Fuzzy Systems** (Impact Factor: **1.81**), **26 (2)** (2014), 975-982.

- 58) **P. Debnath** and M. Sen, *Some results of calculus for functions having values in an intuitionistic fuzzy n -normed linear space*, **Journal of Intelligent and Fuzzy Systems** (Impact Factor: **1.81**), **26 (6)** (2014), 2983-2991.

- 59) **P. Debnath**, *Fixed points of contractive set valued mappings with set valued domains on a metric space with graph*, **TWMS Journal of Applied and Engineering Mathematics**, 4 (2) (2014), 169-174.

[2013 \(1\)](#)

- 60) **P. Debnath**, *Domination in interval-valued fuzzy graphs*, **Annals of Fuzzy Mathematics and Informatics**, **6 (2)** (2013), 363-370.

[2012 \(2\)](#)

- 61) **P. Debnath**, *Lacunary ideal convergence in intuitionistic fuzzy normed linear spaces*, **Computers and Mathematics with Applications** (Impact Factor: **1.69**), **63 (3)**(2012), 708-715.

- 62) M. Sen and **P. Debnath**, *Best approximation in intuitionistic fuzzy n -normed linear spaces*, **Journal of Nonlinear Analysis and Optimization: Theory and Applications**, **3** (2012), 45-53.

[2011 \(3\)](#)

- 63) **P. Debnath** and M. Sen, *A remark on separability and approximation property in intuitionistic fuzzy n -normed linear spaces*, **International Mathematical Forum**, **6**(2011), 1933-1940.

Updated as on April, 2025

64) M. Sen and **P. Debnath**, *Lacunary statistical convergence in intuitionistic fuzzy n -normed linear spaces*, **Mathematical and Computer Modelling** (Impact Factor: **1.34**), **54** (11)(2011), 2978-2985.

65) M. Sen and **P. Debnath**, *Statistical convergence in intuitionistic fuzzy n -normed linear spaces*, **Fuzzy Information and Engineering**, **3**(2011), 259-273.

2010 (1)

66) M. Sen and **P. Debnath**, *Ideal convergence in intuitionistic fuzzy n -normed linear spaces*, **Advances in Fuzzy Sets and Systems**, **7** (2010), 61-81.

Google Scholar Link: <https://scholar.google.co.in/citations?user=CSFAbz4AAAAJ&hl=en>

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Scopus Author ID: 571968831918

(<https://www.scopus.com/authid/detail.uri?authorId=571968831918>)

Web of Science Researcher ID: [ABF-7030-2020](https://www.webofscience.com/wos/author/record/ABF-7030-2020)

Publons/Clarivate Profile: <https://publons.com/researcher/497867/pradip-debnath/>

<https://www.webofscience.com/wos/author/record/ABF-7030-2020>

BOOKS PUBLISHED (WITH ISBN):

Sl. No.	Title of the Book	Title of the Book Series	Type of the Book: Authored/ Edited	ISBN	Year/ DOI	Publisher	Name of the Editors
1	Soft Computing Techniques in Engineering, Health, Mathematical and Social Sciences (URL: https://doi.org/10.1201/9781003161707)	Edge AI in Future Computing	Edited	978-0367750688	2021 DOI: 10.1201/9781003161707	CRC Press: Taylor & Francis Group, Boca Raton	Pradip Debnath and S.A. Mohiuddine

2	Metric Fixed Point Theory: Applications in Science, Engineering and Behavioural Sciences (URL: https://link.springer.com/book/10.1007/978-981-16-4896-0)	Forum for Interdisciplinary Mathematics	Edited	978-981-16-4895-3	2021 DOI: 10.1007/978-981-16-4896-0	Springer: Singapore	Pradip Debnath , Nabanita Konwar and Stojan Radenovic
3	Fixed Point Theory and Fractional Calculus: Recent Advances and Applications (URL: https://link.springer.com/book/10.1007/978-981-19-0668-8)	Forum for Interdisciplinary Mathematics	Edited	978-981-19-0667-1	2022 DOI: 10.1007/978-981-19-0668-8	Springer: Singapore	Pradip Debnath , Hari Mohan Srivastava, Poom Kumam and Bipan Hazarika
4	Soft Computing: Recent Advances in Engineering and Mathematical Sciences (URL: https://doi.org/10.1201/9781003312017)	Edge AI in Future Computing	Edited	978-1032318318	2023 DOI: 10.1201/978-1003-312017	CRC Press: Taylor & Francis Group, Boca Raton	Pradip Debnath , Oscar Castillo and Poom Kumam
5	Advances in Number Theory and Applied Analysis (URL: https://doi.org/10.1142/13314)	N/A	Edited	978-981-127-259-2	2023	World Scientific: Singapore	Pradip Debnath , Hari M. Srivastava, Kalyan Chakraborty and Poom Kumam
6	Advanced Mathematical Analysis and its Applications	N/A	Edited	978-103-324-815-17	2023	CRC Press: Taylor & Francis Group,	Pradip Debnath , Delfim F. M. Torres and Yeol Je Cho

	(URL: https://doi.org/10.1201/9781003388678)					Boca Raton	
7	Soft Computing: Engineering Applications (URL: https://doi.org/10.1201/9781003466260)	Edge AI in Future Computing	Edited	978-103-273-852-9	2024	CRC Press: Taylor & Francis Group, Boca Raton	Pradip Debnath and B. C. Tripathy
8	Mathematical Analysis: Theory and Applications (URL: https://doi.org/10.1201/9781003530602)	N/A	Edited	978-100-353-060-2	2024	CRC Press: Taylor & Francis Group, Boca Raton	Pradip Debnath , H. M. Srivastava, Delfim F. M. Torres and Yeol Je Cho
9	Intelligent Computational Techniques: Mathematics, Health Sciences & Humanities (URL: https://www.amazon.in/Intelligent-Computational-Techniques-Mathematics-Humanities/dp/8198084142)	N/A	Edited	978-819-808-414-9	2025	Ane Books Pvt. Ltd., New Delhi, India	Pradip Debnath , Shambhu Nath Singh, Valentina Emilia Balas and Donal O'Regan
10	Fixed Point Theory and Functional Analysis: Metric Spaces, Banach Spaces, Hilbert Spaces	N/A	Monograph	978-3-11-914503-9	2025	De Gruyter, Germany	Pradip Debnath , H. M. Srivastava and Yeol Je Cho

BOOK CHAPTERSPUBLISHED (WITH ISBN):

Sl. No.	Author(s)	Title of the Chapter	Title of the Book	Title of the Book Series	ISBN	Year/ Pages	Publisher	Name of the Editors
1	N. Konwar and P. Debnath	A New Approach of Intuitionistic Fuzzy Membership Matrix in Medical Diagnosis with Application	Advancement of Machine Intelligence in Interactive Medical Image Analysis	Algorithms for Intelligent Systems	978-981-15-1099-1	2020 Pages : 185-196	Springer	O. P. Verma, S. Roy, S. C. Pandey and M. Mittal
2	N. Konwar and P. Debnath	Applications of Fuzzy Logic in Bioinformatics : A Survey	Advanced Prognostic Predictive Modelling in Healthcare Data Analytics	Lecture Notes on Data Engineering and Communications Technologies (Volume: 64)	978-981-16-0537-6	2021 Pages : 51-69	Springer	S. Roy, L.M. Goyal and M. Mittal
3	S. Nath, P. Das and P. Debnath	Revisiting the Machine Learning Algorithms and Applications in Engineering and Computer Science	Soft Computing Techniques in Engineering, Health, Mathematical and Social Sciences	Edge AI in Future Computing	978-0367750688	2021 Pages : 1-20	CRC Press: Taylor & Francis Group	P. Debnath and S. A. Mohiuddine
4	P. Debnath	A Mathematical Model Using Fixed Point Theorem for Two-Choice Behavior of Rhesus Monkeys in a Noncontingent Environment	Metric Fixed Point Theory: Applications in Science, Engineering and Behavioural Sciences	Forum for Interdisciplinary Mathematics	978-981-16-4895-3	2021	Springer	P. Debnath , N. Konwar and S. Radenovic
5	P. Debnathan d B. Damjanovic	Best Proximity Points for Some Multivalued	Fixed Point Theory and Fractional Calculus:	Forum for Interdisciplinary Mathematics	978-981-19-0667-1	2022	Springer	Pradip Debnath , Hari Mohan

		Contractive Mappings	Recent Advances and Applications					Srivastava, Poomkumam and Bipan Hazarika
6	N. Konwar and P. Debnath	Theory of approximation for operators in intuitionistic fuzzy normed linear spaces	Sequence Space Theory with Applications	N/A	978-100-31-78200	2023	CRC Press: Taylor & Francis Group	S. A. Mohiuddine and B. Hazarika
7	P. Debnath	A Study on Approximate Fixed Point Property in Intuitionistic Fuzzy n-normed Linear Spaces	Soft Computing: Recent Advances in Engineering and Mathematical Sciences	Edge AI in Future Computing	978-1032318318	2023	CRC Press: Taylor & Francis Group	Pradip Debnath , Oscar Castillo and Poomkumam
8	P. Debnath	Open problems in Number Theory	Advances in Number Theory and Applied Analysis	N/A	978-981-127-259-2	2023	World Scientific : Singapore	Pradip Debnath , Hari M. Srivastava, Kalyan Chakraborty and Poomkumam
9	P. Debnath	Generalized Boyd-Wong type contractions	Advanced Mathematical Analysis and its Applications	N/A	978-103-324-815-17	2023	CRC Press: Taylor & Francis Group	Pradip Debnath , Delfim F. M. Torres and YeolJe Cho
10	P. Debnath	Different types of convergence in fuzzy normed spaces	Soft Computing: Engineering Applications	Edge AI in Future Computing	978-103-273-852-9	2024	CRC Press: Taylor & Francis Group	Pradip Debnath and B. C. Tripathy
11	P. Yumnam and P. Debnath	Fuzzy logic in predicting diseases	Soft Computing: Engineering Applications	Edge AI in Future Computing	978-103-273-852-9	2024	CRC Press: Taylor & Francis Group	Pradip Debnath and B. C. Tripathy
12	P. Debnath	Developments, applications and open problems in fixed point theory	Mathematical Analysis: Theory and Applications	N/A	978-100-353-060-2	2024	CRC Press: Taylor & Francis Group, Boca	Pradip Debnath , H. M. Srivastava, Delfim F. M.

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DELIVERING INVITED TALK / CONDUCTING TUTORIAL SESSIONS:

Sl. No.	Name of the Event	Organized by	Duration	Venue	Type of Duty performed
1	Annual Foundation School (AFS-II)	National Centre for Mathematics (A joint centre of TIFR and IIT Bombay)	June 04-30, 2018	Assam University, Silchar	Conducted Tutorial Sessions
2	One Week FDP on “Advanced Research Methodology & IPR”	IQAC Birjhora Mahavidyalaya, Bongaigaon, Assam	August 22-27, 2022	Birjhora Mahavidyalaya, Bongaigaon, Assam (online)	Resource Person on the topic “Introduction and Overview to LaTeX” (on August 25, 2022)
3	International Symposium on Fixed Point Theory and Applications	Department of Mathematics, Ege University, Turkey	October 7, 2022	Ege University, Turkey (online)	Resource Person on the topic “Fixed Point Theory: Developments, Applications and Challenges”
4	Interdisciplinary Refresher Course in Computational Mathematics and Applications (Online)	Albert Einstein School of Physical Sciences, Assam University, Silchar	August 5 to August 19, 2024	Assam University, Silchar	Resource Person on the topic “Existence and Intuition in Mathematical Context” (on August 8, 2024)

PAPER(S) PUBLISHED IN INTERNATIONAL SEMINAR/CONFERENCE PROCEEDINGS:

1. *Some new results on domination in fuzzy graphs.* **Debnath, P.**, Proceedings of Fourth International Conference on Soft Computing for Problem Solving/Advances in Intelligent Systems and Computing (Springer), 2015, 336, pp 555-563. (27-29 December, 2014), (SCOPUS), NIT Silchar

2. *A Brief Review on Multi-Attribute Decision Making in the Emerging Fields of Computer Science.* Nath, S., Das, P., **Debnath, P.** (2022). In: Mukhopadhyay, S., Sarkar, S., Dutta, P., Mandal, J.K., Roy, S. (eds) Computational Intelligence in Communications and Business Analytics. CICBA 2022. Communications in Computer and Information Science, vol 1579, pp 3-18. Springer, Cham. (SCOPUS).

3. *An Empirical Analysis of Different Classifiers on COVID-19 Vaccination Data.* Ningombam, S., Roy, A., **Debnath, P.** (2023). In: Kaiser, M.S., Xie, J., Rathore, V.S. (eds) Information and Communication Technology for Competitive Strategies (ICTCS 2022). Lecture Notes in Networks and Systems, vol 615. Springer, Singapore. https://doi.org/10.1007/978-981-19-9304-6_28(SCOPUS).

Updated as on April, 2025

PAPERS PRESENTED IN NATIONAL SEMINAR/WORKSHOP:

1. *On p -best approximation in intuitionistic fuzzy n -normed linear spaces*, 'Tripura Science Congress', September 8-9, 2011, Tripura University, Agartala, Tripura.
2. *Some results on best approximation in intuitionistic fuzzy n -normed linear spaces*, 'Workshop on Analog/Mixed Signal Design', January 16-20, NITSilchar.
3. *Domination in Direct Product of Two Fuzzy Graphs*, National Seminar on "Trends in Mathematical Science Research 2014", September 5-6, 2014, Assam University Silchar.

PAPERS PRESENTED IN INTERNATIONAL SEMINAR/CONFERENCE:

1. *Ω -interpolative Ciric-Reich-Rus contractions and related fixed point results in b -metric spaces*, 'International Conference on Recent Advances in Mathematics and its Applications (ICRAMA-2019)', July 16-18, 2019, Organized by Department of Mathematics, Tripura University, Agartala, Tripura.
2. *On some new contractive conditions for mappings in b -metric spaces*, 'International Conference on Recent Trends and Technology of Mathematics and Science (QIVCRTTMS-2020)', October 7-8, 2020, Organized by Queens College of Arts and Science for Women, Tiruchirappalli, India.

PhD Thesis evaluated: 01 No.

Evaluated a PhD thesis (from Assam University, Silchar, INDIA) as examiner.

FACULTY DEVELOPMENT PROGRAMMES ATTENDED:

Sl. No.	Name of the Programme	Venue	Organizer	Duration
1	UGC-SPONSORED ORIENTATION COURSE	Mizoram University	HRDC, Mizoram University	20 November - 17 December, 2018 (28 days)
2	In-House Training Programme on Improving Teaching Skill	Assam University	NITTTR, Kolkata	05 August - 09 August 2019 (5 days/one week)
3	Refresher Course on "Teacher and Teaching in Higher Education"	ARPIT Course for CAS promotion (SWAYAM)	SWAYAM ARPIT	01 December 2020 to 31 March 2021 (4 months)
4	Special Summer School (Online) equivalent to one Refresher Course	Mizoram University	HRDC, Mizoram University	20 July 2021 - 02 August 2021 (14 days)
5	NGP-DST Summer School on Geospatial Technologies (Level 1)	NIT Agartala	National Geospatial Program and DST, Govt. of India	25 May 2022 to 14 June 2022 (21 days)

Updated as on April, 2025

EXTRA-CURRICULAR DUTIES PERFORMED:

Sl. No.	Name of the Post	Type of Duty / Responsibility Performed	Duration	Place
1	NSS Programme Officer of TSSOT Unit	Conducting/Participating NSS Event in the University	January 16, 2018 to February 2022	Assam University, Silchar
2	Head of the Department (HOD)	Departmental Head of Applied Science and Humanities	May 08, 2023 to October 13, 2023	Assam University, Silchar

MEMBERSHIP OF ACADEMIC ORGANISATIONS:

(I) Life Member of “Tripura Mathematical Society” since 2012.

(II) Life Member (Member ID: MTTF10368197, Year:2021) and Advisor (Registration No.: AD220312, Year: 2022) of “MathTech Thinking Foundation” (MTTF), India.