



## Bibekananda Sitha, Ph.D.

**Designation :** Assistant Professor

**Department :** Department of Basic Sciences and Humanities

(JOINED THE INSTITUTE IN YEAR 2026)

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### RESEARCH INTERESTS

- ✓ Linear Algebra
- ✓ Graph Theory
- ✓ Applied Mathematics
- ✓ Max-Plus Algebra
- ✓ PDE

### Academic Qualifications

### Teaching Experience/Industrial Experience/Research Experience

- ✓ 06 Years Research Experience
- ✓ 03 Years Teaching Experience

### PUBLICATIONS

### JOURNAL ARTICLES & CONFERENCE PAPERS

- [1]. D. Mosić, B. Sitha, Weighted weak MPCEP and \*CEPMP inverses. Journal of Computational and Applied Mathematics (2026).
- [2]. G. Das, B. Sitha, S. Chandra, Numerical and Analytical solutions of Time Fractional Vakhnenko-Parkes Equation arising in Wave Phenomena. (Accepted in Facta Universitatis Series Mathematics and Informatics)
- [3]. B. Sitha, D. Mosić, On binary relation of Dual Core generalized inverses. Linear and Multilinear Algebra, 2025, Vol. 75, No. 15, 3434-3454.
- [4]. B. Sitha, R. Behera, J. K. Sahoo, R. N. Mohapatra, P.S. Stanimirovic, A. A. Stupina, Characterizations of Weighted Generalized Inverses. Aequationes mathematicae, Vol 99, no. 3, pages 1301-1336, (2025).

- [5]. ] J. K. Sahoo, G. Maharana, B. Sitha, N. Thome, 1D inverse and D1 inverse for square matrices, *Miskolc Mathematical Notes*, 25(1), 445-463, 2024.
- [6]. B. Sitha, J. K. Sahoo, R. Behera, Characterization of Weighted (b,c) Inverse of an Element in a Ring, *FILOMAT*, Vol 36 (14) 2022.
- [7]. B. Sitha, J. K. Sahoo, R. Behera, P. S. Stanimirović, A. A. Stupina, Generalized core-EP inverse for square matrices, *Computational & Applied Mathematics*, 42(2023), no.8, Paper No. 348, 33.

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**Conferences attended**

1. Delivered a talk on "Generalized core-EP Inverses for Square Matrices," in the International Workshop on Operator Theory and its Applications (IWOTA-2024), organized by University of Kent, Canterbury, London, UK, held during August 12-16, 2024.
2. Presented a paper entitled "Characterizations of Weighted Generalized Inverses," in the International Conference on Linear Algebra and its Applications (ICLAA-2023), organized by Manipal Academy of Higher Education Manipal Institute of Technology, Manipal, Karnataka (India), held during December 18-21, 2023.
3. Participated in the workshop on Analysis, Differential Equations and Computations, organised by Department of Mathematics, BITS Pilani, Goa Campus, held during November 12-13, 2022.
4. Participated in the workshop on Linear Algebra and its Applications-2023, organized by VIT, Chennai, held during 27 February 2023 to 3 January 2023.