

RESUME



DR. DIPANKAR SAHA

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Present Status: Assistant Professor in Royal Global University, Guwahati.

Research Interest: Functional Analysis, Measure of Non Compactness, Fixed Point Theory, Fractional Integral & Integrodifferential Equation, Collocation method & Semi-analytical method.

Objective: To be the best performer in your organization, so that I can build an innovative Career in your esteemed organization by using my skills and talents.

References:

Dr. Mausumi Sen, Associate Professor, Department of Mathematics, National Institute of Technology Silchar, Silchar, Assam, India, Email: senmausumi@gmail.com.

Dr. Bipan Hazarika, Professor, Department of Mathematics, Guwahati University, Guwahati, India, Email: bh_gu@gauhati.ac.in.

Dr. Kallol Paul, Professor, Department of Mathematics, Jadavpur University, Jadavpur, West Bengal, India, Email: kallol.paul@jadavpuruniversity.in.

Dr. Nimai Sarkar, Assistant Professor, Department of Mathematics, VIT Amravati. Andhra Pradesh, India. Email: nimaisarkar298@gmail.com.

EDUCATIONAL QUALIFICATION:

Ph.D. in Mathematics from National Institute of Technology (NIT) Silchar, Assam in 2022 with Ph.D. Thesis Title “**Fixed Point Theory approach for the existence and stability of solution of some Nonlinear Functional Integral Equation.**”

1st Class in Master of Science in Mathematics from National Institute of Technology (NIT) Silchar, Silchar, Assam in 2016 with 8.38 CGPA (83.8%).

1st Class in Bachelor of Science in Mathematics from Gurucharan College, Silchar (Affiliated to Assam University, Silchar), Assam in 2014 with 7.72 CGPA (77.2%).

AWARDS AND ACHIEVEMENT:

(i) Achieved **GOLD MEDAL** for securing the First Class position in B.Sc (Mathematics) examination 2014 of Assam University.

(ii) **NE SLET 2023 QUALIFIED.**

(iii) **Best Paper Certificate** for presenting a paper entitled “Existence and Uniform stability of solution of VF type Caputo-Fabrizio Integro-differential equations” in IEMSC-2024.

TEACHING EXPERIENCE:

(i) Worked as teaching assistant at NIT SILCHAR (July 2016- July 2020).

(ii) Worked as lecturer in BBD junior college (July 2021- August 2021).

(iii) Worked as lecturer in CPS Patharkandi (August 2021-April 2022)

(iv) Worked as Assistant Professor in DRK Institute of Science and Technology, Hyderabad

(v) Worked as Assistant Professor Assistant Professor in Madanapalle Institute of Technology and Science (UGC Autonomous, NAAC A+), Madanapalle, Andhra Pradesh (**31 October 2022-28 October 2023**)

EXTRA CURRICULAR ACTIVITIES:

(i) Executive Member of Assam Academy of Mathematics

(ii) Reviewer of Rocky Mountain journal of Mathematics (SCIE indexed)

(iii) Vocationalist

(iv) Worked as Observer in AISSE/AISSCE-2022.

(v)Reviewer of Asian Research Journal of Mathematics

SOFTWARE SKILLS:

Matlab, Latex, C++.

WORKSHOPS ATTENDED:

- (i)Fractional Order Systems and Their Applications (FOSTA-2019), NIT SILCHAR.
- (ii)Recent Advances in Applied Mathematics, 2017, NIT SILCHAR.
- (iii)Mathematical Modelling using High Performance Numerical Computation, 2018, NIT SILCHAR
- (iv)Recent Advances in Fuzzy Optimization, 2018, NIT SILCHAR

PUBLICATIONS:

M Sen, **D Saha**, RP Agarwal, A Darbo fixed point theory approach towards the existence of a functional integral equation in a Banach algebra, Applied Mathematics and Computation 358, 111-118, 2019 (**SCI**).

D Saha, M Sen, N Sarkar, S Saha, Existence of a solution in the Holder space for a nonlinear functional integral equation, Armenian Journal of Mathematics 12 (7), 2020 (**SCOPUS**).

N Sarkar, M Sen, **D Saha**, Solution of non linear Fredholm integral equation involving constant delay by BEM with piecewise linear approximation, Journal of Interdisciplinary Mathematics 23 (2), 537-544, 2020 (**SCOPUS**).

D Saha, M Sen, Existence criteria and solution search by the analytic technique of functional integral equation, Journal of Integral Equations and Applications 33 (2), 247-257, 2021 (**SCIE**).

D Saha, M Sen, Solution of a generalized two dimensional fractional integral equation, International Journal of nonlinear analysis and Applications 12 (1), 481-492, 2021 (**SCOPUS**).

N Sarkar, M Sen, **D Saha**, A new approach for numerical solution of singularly perturbed Volterra integrodifferential equation, Design Engineering, 9629-9641, 2021 (**SCOPUS**).

D Saha, M Sen and S Roy, Analyzing the Existence of solution of a Fractional order Integral equation: A Fixed Point Approach, Journal of Applied Analysis, 2022 (**SCOPUS**).

D Saha, M Sen and S Roy, Investigation of the existence criteria for the solution of the functional integral equation in the L^p space, Mathematical Analysis and Applications, MAA 2020 (**SCOPUS**).

N Sarkar, M Sen, Pratiksha Jadli and **D Saha**, A novel collocation method for solving second order Volterra integro-differential equations, Applications and Applied Mathematics: An International Journal (AAM) 17, no. 3 (2022): 11(**SCOPUS**).

D Saha, M Kumar Rana, N Sarkar and M Sen, Lagrange collocation technique for solving generalized form of integral equation with Abel kernel (Communicated).

D Saha, M Sen, N Sarkar, S Saha, A novel numerical technique and stability criterion of VF type integrodifferential equations of non integer order, International Journal of nonlinear analysis and Applications 13, 133-145, 2022 (**SCOPUS**).

N Sarkar, M Sen, **D Saha** and B Hazarika, A qualitative study on fractional logistic integro-differential equations in an arbitrary time scale, Kragujevac Journal of Mathematics 50, 403-414, 2024 (**SCOPUS**).

D Saha, M Sen, N Sarkar, B Hazarika, Analysis of a solution for a nonlinear Erdélyi-Kober fractional integral equation appearing in application (**SCOPUS** Communicated).

N Sarkar, M Sen, **D Saha**, and RP Agarwal. "An approximation approach towards a class of integro-differential equation with pure delay." International Journal of Nonlinear Analysis and Applications (2022) (**SCOPUS**).

D Saha, Existence and Uniform stability of solution of VF type Caputo-Fabrizio Integro-differential equations (Communicated).

CONFERENCES ATTENDED:

(i) D Saha, M Sen and S Roy, Fixed point theory approach towards the solvability of functional integral equation in L_p space, ICRAPAM 2018, DELHI TECHNOLOGICAL UNIVERSITY.

(ii) D Saha and M Sen, Investigation of solution of a functional integral equation arising in the study of epidemic model, ICACM-2018, INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR.

(iii) D Saha and M Sen, Existence of solution of a functional integral equation by the fixed point theory, ICAMCI-2020, NATIONAL INSTITUTE OF TECHNOLOGY AGARTALA.

(iv) D Saha, M Sen and S Roy, Investigation of the existence criteria for the solution of the functional integral equation in the L^p space, MAA 2020, NATIONAL INSTITUTE OF TECHNOLOGY JAMSHEDPUR.

(v) D Saha, D Gupta, N Sarkar, M Sen, Solution of VF type Integro-differential equations with Caputo-Fabrizio fractional operator, IEMSC-24, INSTITUTE OF ENGINEERING AND MANAGEMENT, KOLKATA.

I hereby declare that the data given above are correct and complete to the best of my knowledge.