Resume

Name: Dr**.** Nawaj Sarif

Employee ID: A5BSH00T127

Designation: Assistant Professor

Department: BS & H (Mathematics)

Date of Birth: 10-07-1994

Father Name: Ajahar Ali

Mother Name: Muslema Bibi

Category: BC-A

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Date of Joining in the Institution: 28-02-2024

Academic Excellence:

QUALIFICATION	BOARD / UNIVERSITY	DIVISION	YEAR	% of Marks
Ph. D (Applied Mathematics)	Aliah University, Kolkata	-	January 2024	NA
MSc (Mathematics)	University of Delhi	First Class	2017	61.81
BSc(H) Mathematics	Jamia Millia Islamia	First Class with Distinction	2015	72
12th	WBCHSE	First	2012	76
10th	WBBSE	First	2010	76

Total Years of Experience (Teaching/Industry): Years

Period		Organization/Institution/Industry	Designation
Feb 28	Till Date	AITAM, Tekkali	Assistant Professor

Areas of Interest:

1. Linear Algebra
2. Ordinary Differential Equations
3. Partial Differential equations
4. Dynamics of Particle
5. Differential Calculus
6. Integral Calculus
7. Fourier Series
8. Vector Analysis
9. Numerical Analysis
10. Discrete Mathematics

Other Responsibilities:
1. Department R&D incharge
2. Department NPTEL incharge

List of Publications:

1. **Nawaj Sarif**, Arjun Kumar, Anshu, Sahabuddin Sarwardi, & Balram Dubey (2024). Spatio-temporal dynamics of a delayed prey-predator model with nonlinear prey refuge and harvesting, **Chaos, Solitons and Fractals (Elsevier), 186, 115247, SCIE, Q1, IF 5.30, SJR 1.35, H-index 168, https://doi.org/10.1016/j.chaos.2024.115247.**

2. **Nawaj Sarif**, Sahabuddin Sarwardi. **(2024).** Study of bifurcation and delay-driven chaos in a prey- predator model with fear in prey reproduction and two forms of harvesting, **International Journal of Computational Methods (World Scientific), SCIE, Q2, IF 1.4, SNIP 0.651 SJR 0.380, H-index 42, https://doi.org/10.1142/S0219876224500166.**

3. **Nawaj Sarif**, Sahabuddin Sarwardi & Hany A. Hosham (2024). Global Bifurcation Analysis and Derivation of an Optimal Harvesting Policy of a Prey-Predator Model with Holling Type-IV Functional Scheme, **International Journal of Modelling and Simulation (Taylor & Francis), WOS, SCOPUS, Q2, IF 3.10, SNIP 1.565, SJR 0.45, 1–20, https://doi.org/10.1080/02286203.2024.2392220.**

4. **Nawaj Sarif,** Sahabuddin Sarwardi **(2023).** Global Bifurcation Analysis of Higher Codimension in a Ratio Dependent Predator-Prey Model with Prey Refuge and Constant Yield- Harvesting of Both Species, **Journal of Environmental Accounting and Management (L & H Scientific Publishing) 11 (4), 375- 401, ESCI, SCOPUS, DOI-10.5890-JEAM.2023.12.002**

5. **Nawaj Sarif,** Sahabuddin Sarwardi **(2023).** Complex dynamical study of a delayed prey– predator model with fear in prey and square root harvesting of both species, **Chaos: An Interdisciplinary Journal of Nonlinear Science (AIP Publishing) 33 (3), SCIE, Q1, IF 2.90, SJR 0.78, H-index 127, https://doi.org/10.1063/5.0135181.**

6. **Nawaj Sarif**, Sahabuddin Sarwardi **(2021).** Analysis of Bogdanov-Takens Bifurcation of Codimension two in a Gause-Type Model with Constant Harvesting of Both Species and Delay Effect. ***Journal of Biological Systems.* (World Scientific), Vol. 29, No. 03, pp. 741-771, SCIE, Q2, IF 1.6, SNIP 0.597, SJR 0.450, H-index 38, https://doi.org/10.1142/S0218339021500169.**
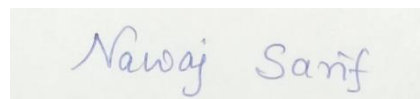
Others Qualifications:

(I)	National Eligibility Test (NET) C.S.I.R. December- 2017. Qualified with All India Rank-131 as JRF.
(II)	General Aptitude Test for Engineering (GATE) Conducted by I.I.T Guwahati - 2018. Qualified with All-India Rank-404, Score- 478.
(III)	Joint Admission Test for MSc (JAM) Conducted by I.I.T Guwahati-2015. Qualified with All-India Rank-848.

Seminar and Workshop attended:

- Participated in National Seminar on: Mathematical Modelling and Application in Natural and Engineering Science, 25th March, 2019, Department of Mathematics & Statistics, Aliah University, Kolkata
- Participated in India International Science Festival: Young Scientist Conference, Biswa Bangla Convention Centre, Kolkata, November 5-8, 2019.
- Participated in An International Talk on Selected Topics On Research Methodology, 4th September, 2020, Department of Computer Science & Engineering, Aliah University, Kolkata.
- Participated in International Conference on Nonlinear Dynamics and Applications, March 9-11, 2022, Department of Mathematics, Sikkim Manipal Institute of Technology, Sikkim Manipal University, Majitar, East Sikkim.
- Optimal Control of Harvesting and Analysis of Bifurcations in a Two Species Model with Modified Holling type-IV Functional Response: International Conference on Dynamical Systems and Numerical Methods, May 20-21, 2022 at Department of Mathematics, Jamia Millia Islamia, New Delhi, India. (Presented)
- Analysis of Codimension two Bifurcation in a Prey Predator model with constant harvesting of both species and delay effect: 5th International Conference on Current Scenario in Pure and Applied Mathematics, January 27-28, 2022, Kongunadu Arts and

Science College (Autonomous) Coimbatore - 641029, India. (Presented)

- Instructional School for Teachers on: "Differential Equations-Theory and Applications", Organized by National Centre for Mathematics (A Joint work of TIFR and IIT Bombay), held at Bharathiar University, Coimbatore August 16-29, 2022.
- Choatic dynamics of a delayed prey-predator model with fear in prey and square root harvesting of both species: International Conference on Differential Equations and Control Problems, June 15 - 17, 2023, School of Mathematical and Statistical Sciences, Indian Institute of Technology, Mandi, Himachal Pradesh, India. (Presented)
- Faculty development program on: "Recent Trends in Biomathematics and Dynamical Systems with Bifurcation, Chaos and Simulation Methods", Organised by Department of Mathematics Mahadevananda Mahavidyalaya, February 7-13, 2024.

Nawaj Sarif

Signature