Resume

Dr. Nihar Sarkar, M.Sc.(Applied Math.), Ph.D.

❖ Personal Details:

Sex- Male
Date of Birth: 02.10.1981
Nationality: Indian.

Address:
New Green valley Apartment,
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❖ Current Position:

Assistant Professor, Department of Mathematics, City College (Affiliated to Calcutta University), 102/1 Raja Rammohan Sarani, Kolkata-700009.

❖ Educational qualifications:

Course	University
B.Sc. in Mathematics, (HONS.), 2003.	Santipur College (Affiliated to University of Kalyani)
M.Sc.in Applied Mathematics (Special Papers: Mathematical Biology & Biomechanics). 2005.	University of Kalyani
Ph.D., Thesis topic- *"Some Problems On Wave Propagation In Generalized Coupled Thermoelastic Media"*	Calcutta University

❖ Technical, workshop & Academic Training :

1. **Refresher Course** in Mathematics being conducted by UGC-HRDC, North Bengal University, *Darjeeling-734013* on and from 01.08.2019 to 14.08.2019.
2. 5th **FACULTY INDUCTION PROGRAMME** (FIP-NBU-05)(Orientation PROGRAMME), UGC-HRDC, North Bengal University, *Darjeeling-734013*, August 23, 2021- September 22, 2021.
3. SHORT TERM COURSE ON **MOOCS, E-content development and Open Educational Resource***, UGC-HRDC, North Bengal University,* Darjeeling-734013, 01.10.2021 to 09.10.2021.

❖ Previous working experience:

Sl. No.	Post	College, University and Organisation	Department	Duration
1	Assistant Professor	W.B.E.S.(Govt. Colleges)	Mathematics	2 Years

❖ Area of expertise and Research Interest:

Expertise: Algebra, Calculus, Mechanics, Geometry
Research Interest: Continuum Mechanics, Fluid Mechanics.

❖ Research Publications:

List of Paper(s) Published in SCI / SCI(E) Journals [UGC Approved]:

1. Reflection of thermoelastic waves from the isothermal boundary of a solid half-space under memory-dependent heat transfer, Waves in Random and Complex Media (Taylor and Francis, England, SCI), 31(4),731-748, 2021.
2. Reflection of thermoelastic plane waves at a stress-free insulated solid boundary with memory-dependent derivative, Indian Journal of Physics(Springer, SCI)., 95, 1203-1211, 2021.
3. Waves in nonlocal thermoelastic solids of type II, Journal of Thermal Stresses (Taylor and Francis, USA, SCI), 42 (9), 1153-1170, 2019.
4. Memory response in plane wave reflection in generalized magneto-thermoelasticity, Journal of Electromagnetic Waves and Applications, (Taylor and Francis, England, SCI) 10), 1354-1374, 2019.
5. Waves in magneto-thermoelastic solids under modified Green-Lindsay model, Journal of Thermal Stresses(Taylor and Francis, USA, SCI), 43 (5), 594-611, 2020.
6. Modified Green-Lindsay model on the reflection and propagation of thermoelastic plane waves at an isothermal stress-free surface, Indian Journal of Physics [Springer, IACS, India], DOI: 10.1007/s12648-019-01566-9, 2019.
7. Waves in nonlocal thermoelastic solids of type III, ZAMM-Zeitschrift fr Angewandte Mathematikand Mechanik [Wiley, Germany], DOI: 10.1002@zamm.201900074, 2020.
8. Waves in dual-phase-lag thermoelastic materials with voids based on Eringen's nonlocal elasticity, Journal of Thermal Stresses, [Taylor & Francis, United States], 42 (9) 1153-1170, 2019.
9. Reflection of Thermoelastic Waves From the Insulated Surface of a Solid Half-Space With Time-Delay, Journal of Heat Transfer-Transactions of the ASME [The American Society of Mechanical Engineers, USA], DOI: 10.1115/1.4046924, 2020.

❖ List of Participation in Seminar, Conference and Workshop:

International/National:

2023
1. **Conference:** National Seminar on Applied Mathematics in Science and Technology (AMST).
   Organiser: Department of Applied Mathematics, University of Calcutta, 92, A.P.C Road, Kolkata 700009.
   Title of paper: Memory response in reflection of plane wave at a stress-free thermally insulated solid boundary.

2021:
1. **Conference:** 27th International Conference of International Academy of Physical Sciences On Fuzzy and Computational Mathematics.
   Organiser: Department of Mathematics, National Institute of Technology Agartala, Tripura, India, In Association with International Academy of Physical Sciences Prayagraj, India.
   Title of paper: On phase speeds of magneto-thermoelastic plane waves under MGL model.
2. **Conference:** International Webinar On Foundations For Contemporary Mathematical Research.
   Organiser: Department of Mathematics, Manipur University Canchipur, Imphal, Manipur.
   Title of paper: PHASE VELOCITIES IN THE MAGNETO-THERMOELASTIC PLANE HARMONIC WAVES UNDER MGL MODEL.
3. **Conference:** International Conference on the Numerical and Analytical Techniques in Differential Equations ICNATDE-2021.
   Organiser: Department of Mathematics, Ramanujan School of Mathematical Sciences,
   Pondicherry University, PUDUCHERRY - 605014.
   Title of paper: Reflection of plane waves at a stress-free thermally insulated half-space with memory-dependent derivative.
4. **Conference:** Webinar on "Recent Advances in Applied Mathematics: Theory and Computation".
   Organiser: Department Applied Mathematics, University of Calcutta.
   Title of paper: Plane harmonic waves in nonlocal thermoelastic medium**.**

2019:
1. **Conference:** One Day International Webinar on Mathematical Modeling and its Application.
   Organiser: Department of Mathematics, Govt. General Degree College Muragachha (Affiliated to The University o Kalyani).
   Title of paper: The propagation of harmonic plane waves in a nonlocal thermoelastic solid medium**.**

2018:
1. **Conference:** Distance Education and its Obscurities: Addressing the 'Inaccessibility' Conundrum in Mathematics and other Disciplines.
   Organiser: NETAJI SUBHAS OPEN UNIVERSITY, Salt Lake City, Kolkata-700064**.**
   Title of paper: Weighted convergence in probability.

❖ **Workshops/Events organized:**

Organised an Webinar on "Administrative Affairs thrusting upon Promotion of College Teachers/Librarians under CAS" on 12.07.2020 as Secretary of the Teachers' Council, City College.

❖ **Additional activities:**

1. **Secretary** of the **Teachers' Council, City College** from 2020 to 2022.
2. Member of **Governing Body of City College** as **Teachers' Representative** from 2022 till date.