

Faculty Profile



- **Name:** DR. NILIMA DAS
- **Designation:** ASSISTANT PROFESSOR
- **Date of Joining:** 27.11,2019
- **E-mail:** nilimadas1990@gmail.com
- **Phone no.:** 8695214067
- **Address (office):** Bireswarpur, South 24 Parganas
- **Educational Qualifications:** Ph.D

| Course | Board/University | Passing year |
|--------------------------------------|---------------------|--------------|
| 10 th | W.B.B.S.E | 2006 |
| 12 th | W.B.C.H.S.E | 2008 |
| B.Sc/B.A/B.Com/any other equivalent | JADAVPUR UNIVERSITY | 2011 |
| M.Sc/M.A./M.Com/any other equivalent | JADAVPUR UNIVERSITY | 2013 |
| M.Phil | | |
| PhD | IIT KHARAGPUR | 2019 |

- **Courses taught/teaching:**

Real Analysis

Nmerical Methods

Linear Algebra

- **Specialization/Research Interest:** Particle technology, Existence and uniqueness of solutions of integro-partial differential equations, Numerical analysis

- **Teaching Experience:**

| Affiliation | Designation | Tenure (years) |
|--------------|---------------------|----------------|
| SKVM'S NMIMS | ASSISTANT PROFESSOR | 7 months |
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- **Research Experience:**

| Affiliation | Designation | Tenure (years) |
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➤ **Industry Experience:**

| Name of the Organization | Designation | Tenure (years) |
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➤ **Research projects:**

| Project name | Funding Agency | Tenure | Status |
|--------------|----------------|--------|--------|
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➤ **Publications:**

Total no. of publications in Journals: 6

Total no. of publications as Book chapters/Books:

List of Publications (*Mention maximum 10 publications of your choice*):

| Paper title | Author(s) | Journal Name | Year | Volume and Page No. | ISSN/ISBN |
|--|---|-----------------------------------|------|---------------------|-----------|
| An algorithm based on the variational iteration technique for the Bratu-type and the Lane-Emden problems | Nilima Das, Randhir Singh, Abdul-Majid Wazwaz, Jitendra Kumar | Journal of Mathematical Chemistry | 2016 | 54, 527-551 | 1572-8897 |
| The optimal modified variational iteration method | Randhir Singh, Nilima Das, Jitendra | European Physical Journal Plus | 2017 | 132 | 2190-5444 |

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|---|--|--------------------------------|------|----------------------|-----------|
| for the Lane-Emden equations with Neumann and Robin boundary conditions | Kumar. | | | | |
| An application of semigroup theory to the pure fragmentation equation | Nilima Das, Jitraj Saha, Jitendra Kumar | The Journal of Analysis | 2017 | 1-12 | 2367-2501 |
| Numerical solutions for multidimensional fragmentation problems using finite volume methods | Jitraj Saha, Nilima Das, Jitendra Kumar, Andreas Buck | Kinetic & Related Models | 2019 | 12(1) | 1937-5093 |
| Appliaton of Trancformaton Matriiec to theSoluton of Populaton Balanie Equatonc. | Vasyl Skorych, Nilima Das, Maksym Dosta , Jitendra Kumar and Stefan Heinrich | Processes | 2019 | 7(8),535 | 2227-9717 |
| An application of semigroup theory to the coagulation-fragmentation models. | Arijit Das, Nilima Das, Jitraj Saha | Turkish Journal of Mathematics | 2021 | 45(5), pp. 2282–2294 | 1300-0098 |

➤ **Research Guidance:**

Total no. of Bachelors/Master’s thesis guidance:

Role: Guide/Co-guide (*keep whichever is applicable*)

Total no. of PhD thesis guidance:

Role: Guide/Co-guide (*keep whichever is applicable*)

➤ **Conference/Seminars/Workshops attended:**

Total no. of Conference/Seminars attended: 3

Total no. of workshops attended: 1

List of Conference/Seminars/Workshops (*Mention maximum 10 of your choice*):

| Title of the presentation | Name of Conference/Seminars/Workshops | Organized by | Date |
|---------------------------|--|---|--|
| | National program on differential equations: theory, computation & applications (NPDE-TCA) | DST. Indian Institute of Science Education and Research (IISER) Thiruvananthapuram. | May 26 th - June 13 th , 2014. |
| | International conference on Geometric function theory and its applications (ICGFTA-2014), Indian Institute of Technology Kharagpur | IIT kharagpur | December 18-21, 2014 |
| | Research Scholars Day. | IIT kharagpur | March 13-14, 2015. |
| | International conference on mathematical analysis and applications (ICMAA 2016) | Department of mathematics, Indian Institute of Technology Roorkee, India | November 28- December 2 |

➤ **Conference/Seminars/Workshops organized**

| Name of Conference/Seminars/Workshops | Organized by | Convener/Organizing Committee member | Date |
|---|---|--------------------------------------|------------|
| Chemical heterogeneity of non-metallic inclusions in steel making: A multi-variate population balance modeling approach | Department of mathematics, Gour Mohan Sachin Mandal Mahavidyalaya | Convener: Dr. Nilima Das | 15.03.2023 |
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➤ **Faculty Development program/Refresher course/Short term courses attended:**

| Type of the program | Name of the program | University/organization | Duration | Date |
|---------------------|---------------------|-------------------------|----------|------|
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| FDP | Mentoring for Institutional Social Responsibility and Facilitation for Community engagement | Faculty Development Centre, Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India, Hyderabad | 5 | 23rd-27th February, 2022 |
| FDP | Fifth Faculty Induction Programme | UGC-Human Resource Development Centre, Banaras Hindu University, Varanasi | 28 | July 12 – August 08, 2022 |
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➤ Awards:

| Name of the Award | Awarding body | Occassion | Year |
|---|--|-----------|------------------|
| German Academic Exchange Service (DAAD) Scholarship, Research Grants Bi-nationally Supervised Doctoral Degrees, 2017/18(57299293) | DAAD: German Academic Exchange Service | Research | 2017-2018 |
| CSIR-National Eligibility Test | | | (NET–June, 2014) |
| Graduate Aptitude Test in Engineering (GATE-2013) | | | 2013 |
| Joint Admission Test for M.Sc. (JAM) | | | 2011 |
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➤ Membership of Professional/Academic Bodies:

| Member of | Duration |
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