

Dr. Ramprosad Saha (Ph.D.)

Assistant Professor

Department of Mathematics
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✚ Academic Qualification:

- **2018** **Ph.D. in Mathematics**, Visva-Bharati
- **2002** **M.Sc. in Mathematics**, Visva-Bharati
- **2000** **B.Sc. in Mathematics**, Visva-Bharati
- **2010** **UGC-CSIR NET**

✚ Area of Specialization: Dynamical Oceanography and Dynamical Meteorology, Bio-Mathematics.

✚ Teaching Experience: 9+ Years

- 25.02.2015-24.02.2019: Dept. of Mathematics, Suri Vidyasagar College as Assistant Professor (Stage-I) (WBCSC).
- 25.02.2019 - 24.02.2024: Dept. of Mathematics, Suri Vidyasagar College as Assistant Professor. (Stage-II) (WBCSC).
- 25.02.2024 - Till date: Dept. of Mathematics, Suri Vidyasagar College as Assistant Professor. (Stage-III) (WBCSC).

✚ Administrative Positions:

- **Head of the Department**, Department of Mathematics, Suri Vidyasagar College, Suri, Birbhum (2015 to 2018).
- **Member** of Equal Opportunity Cell (EOC), Suri Vidyasagar College, Suri, Birbhum, (2018 to Till Date)
- **Member** of Admission Committee, Suri Vidyasagar College, Suri, Birbhum, (2015 to 2019)
- **Nodal** Officer of Online Admission Committee, Suri Vidyasagar College, Suri, Birbhum, (2020 to Till Date)
- **Nodal** Officer of SC, ST (OASIS), OBC, SVMCM2.0, NSP student Scholarship, Suri Vidyasagar College, Suri, Birbhum, (2015 to 2022)
- **Nodal** Officer of Aikyashree (Minority), SVMCM4.0, NPS student Scholarship, Suri Vidyasagar College, Suri, Birbhum, (2022 to Till Date)
- **Nodal** Officer of RTI Cell (SPIO), Suri Vidyasagar College, Suri, Birbhum, (2019 to Till Date)

✚ Publications: 12 Research articles published in International Journals

✚ List of Publications:

- **R. Saha**, Sarifuddin, J.C. Misra and P.K. Mandal (2016), Impact of luminal flow on mass transport through coronary arteries: a study relevant to drug-eluting stent, International Journal of Mathematics and Computation, Vol. 27, No. 3, pp. 40-58 (2016). [ISSN: 0974- 570X].
- **R. Saha** and P.K. Mandal (2016), Effects of Interstrut Distance on the Transport of Drug and its Retention in

the Arterial Tissue, International Journal of Applied and Computational Mathematics, DOI: <https://doi.org/10.1007/s40819-016-0223-2> (2016). [ISSN: 2349-5103].

- **R. Saha** and P.K. Mandal (2016), Effect of flow pulsatility and time dependent release kinetics on stent based delivery through atherosclerotic plaque, International Journal of Dynamics and Control , DOI: <https://doi.org/10.1007/s40435-016-0289-z> (2016). [ISSN: 2195- 268X].
- **R. Saha** and P.K. Mandal (2016), An unsteady analysis of drug transport and its retention from drug-eluting stent, Emerging Issues in Inter- & Intra- Disciplinary Studies: An Indian Perspective, Susanta Kumar Bardhan et. Al. & Rardh Prakashan, Vol. 14, No. 5, pp. 108-118 (2016). [ISBN: 978-93-83422-10-4].
- **R. Saha** and P.K. Mandal (2018), Modelling Time dependent Release Kinetics in Stent based Delivery, Journal of Exploratory Research in Pharmacology, DOI: <https://doi.org/10.14218/JERP.2018.00001> (2018). [ISSN: 2572-5505].
- **R. Saha** (2018), A Computational Approach for Stent Elution Rate Determined Specific Drug Binding and Receptor-mediated Effects in Arterial Tissue, Journal of Exploratory Research in Pharmacology, DOI: <https://doi.org/10.14218/JERP.2018.00018> (2018). [ISSN: 2572-5505].
- **R. Saha** (2019), Effect of Non- Specific Binding on Receptor-Mediated Transport of Drug through Atherosclerotic Plaque in a Stent-Based Delivery, EC PHARMACOL OGY AND TOXICOLOGY, Vol. 7, pp. 925-942 (2019). [ISSN: 2453- 188X]
- **R. Saha** (2021), Role of Specific and Non-Specific Drug Binding in Arterial Drug Transport within Atherosclerotic Plaque: A Computational Model, Recent Trends in Modern Mathematics (RTMM); PG & Research Department of Mathematics, St. John's College, Palayamkottai – 627 002, Tirunelveli, Tamil Nadu, India, pp. 229-241(2021). [ISBN: 978-93-5566-257-6]
- **R. Saha** (2022), EFFECTS OF DIFFERENT DRUG BINDING IN STENTED POROUS ARTERY TISSUEWALL: A NUMERICAL MODEL STUDY, Palestine Journal of Mathematics, Vol. 11, No. 1, pp. 84-94 (2022). [ISSN: 2219-5688].
- **R. Saha** (2022), SPECIFIC AND NON-SPECIFIC DRUG BINDING ELUTED FROM A HALF-EMBEDDED CARDIOVASCULAR DRUG-ELUTING STENT AND ITS RETENTION IN POROUS VESSEL WALL: A NUMERICAL MODEL STUDY, Bulletin of the Calcutta Mathematical Society, Vol. 119 pp. 208-216 (2022). [ISSN: 0008-0659].
- **R. Saha, S. Choudhury and A.P. Mandal** (2024), Computational Simulation and Modelling of Arterial Drug Delivery From Half-Embedded Drug-Eluting Stents in Single-Layered Homogeneous Vessel Wall, Communications in Mathematics and Applications, DOI: <https://doi.org/10.26713/cma.v15i1.2373> (2024) [ISSN: 0975-8607]
- **R. Saha, S. Choudhury and A.P. Mandal** (2024), A Numerical Approach of Cardiovascular Drug Delivery from Next-Generation Drug-Eluting Stents, Journal of the Calcutta Mathematical Society, Vol. 20, No. 3, pp. xxx-xxx (Accepted) (2024) [ISSN: 2231-5314]

Active participation in Academic Courses:

❖ Participated in several seminar/webinars.



Dr. Ramprosad Saha

July, 2024