

FACULTY PROFILE



Name: Dr. Sandhya Rani Verma

Designation: Assistant Professor

E-Mail: sandhyav2@srmist.edu.in

Professional Qualification:

- Doctor of Philosophy

Publications (Journals & Conferences):

- Ram Naresh, Shyam Sundar, Sandhya Rani Verma, J.B. Shukla, (2023), “A mathematical model to study the spread of COVID-19 and its control in India”, *Computational and Mathematical Biophysics*, doi.org/10.1515/cmb-2022-0149.
- Sandhya Rani Verma, Ram Naresh, J.B. Shukla, Manju Agarwal, (2022), “Role of environmental degradation on the spread of bacterial diseases in a human habitat: The effect of sanitation”, *Journal of Mathematical Control Science & Applications*, Vol. 8, No. 2.
- Ram Naresh, Sandhya Rani Verma, J.B. Shukla, Manju Agarwal, (2021), “Analysis of a model for carrier dependent infectious diseases with sanitation as a control strategy”, *Computational Ecology and Software*, 11(1), 1-20.
- J.B. Shukla, Ram Naresh, Sandhya Rani Verma and Manju Agarwal, (2020), “Modeling the effect of sanitation in a human habitat to control the spread of bacterial diseases”, *Model. Earth Syst. Environ.* 6, 39-49. <https://doi.org/10.1007/s40808-019-00653-4>.
- Sandhya Rani Verma, Ram Naresh, Manju Agarwal, (2020), “Role of environmental factors on the spread of bacterial diseases: A modeling study”, *Computational Ecology and Software*, 10, 59-73.

Awards and Achievements

- Awarded Teacher fellow Research assistantship (TEQIP-II, III), World Bank project from May, 2016 to May, 2019.

Workshops/Seminars/FDPs/Conference

- **Presented** a paper entitled “Role of environmental degradation on the spread of Carrier-dependent infectious diseases in a human habitat: The effect of Sanitation” in the International Conference on ‘Advances in Biomathematics’ held at Amity University, Lucknow on July 21-23, 2022.
- **Presented** a paper entitled “Modeling the Effect of Sanitation in a Human Habitat to Control the Spread of Carrier-Dependent Infectious Diseases due to Environmental Degradation” in the International Conference on ‘Computational Mathematics and Engineering Applications’ held at PSIT, Kanpur on June 24-26, 2022.
- **Presented** a paper entitled ‘Role of environmental degradation on the spread of infectious diseases in a human habitat: The effect of sanitation” in the 68th Annual Conference of Bharat Ganita Parishad on ‘Analysis and Applications- An International Meet’ held at Shri Ramswaroop Memorial University, Lucknow on Nov 17-18, 2021.
- **Presented** a paper entitled “Role of environmental degradation on the spread of bacterial diseases in a human habitat: The effect of sanitation” in the 23rd Annual Conference of Vijnāna Parishad of India held at Bundelkhand University, Jhansi on September 06-10, 2021.

Work Experience: 1 year 9 months

Professional Memberships:

- No

