



Dr. SANIYA SUHAIL

Assistant Professor

Department of Mathematics

School of Engineering

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1. ABOUT

Dr. Saniya Suhail is an Assistant Professor in the Department of Mathematics, School of Engineering, Dayananda Sagar University, Bengaluru. She completed her Ph.D. in Mathematics from Vellore Institute of Technology, Vellore, in August 2025, with research focused on wave dynamics and propagation in the presence of floating structures: Journey from inviscid to viscous fluid. She has academic and teaching experience as a Teaching cum Research Assistant at VIT Vellore, where she taught Engineering Mathematics, Calculus, Differential Equations, Linear Algebra and Complex Analysis, and conducted MATLAB-based software and laboratory sessions. Her research expertise includes water wave propagation, viscous and inviscid fluids, porous media, wave-structure interaction, wave blocking and trapping. She has published research articles in international journals including Ocean Engineering, Physics of Fluids, Marine Structures, and Journal of Fluids and Structures and many more. She has completed a 3 months internship with fellowship from National Taiwan Ocean University, Taiwan.

2. RESEARCH INTERESTS

- Water wave propagation through viscous and inviscid media
- Flow through porous media
- Wave-structure interaction
- Wave blocking
- Wave trapping
- Wave scattering around floating structures

3. ACADEMIC QUALIFICATIONS

- Ph.D. in Mathematics — Vellore Institute of Technology, Vellore, 2025
- M.Sc. Mathematics — Banaras Hindu University (B.H.U.), Varanasi, 2019
- B.Sc. Mathematics — Dr. Ram Manohar Lohia Awadh University, 2017

4. PROFESSIONAL EXPERIENCE

- Assistant Professor — Department of Mathematics, School of Engineering, Dayananda Sagar University, Bengaluru, 30-july-2026 to Present
- Teaching cum Research Assistant (Mathematics) — Vellore Institute of Technology, Vellore, 5-Jan-2022 to 4-Dec-2024

5. RESEARCH HIGHLIGHTS

- Publications: 6 research articles in international journals.
- International research internship at National Taiwan Ocean University, Keelung, Taiwan, from May 2024 to August 2024, with host-university research fellowship.
- Awards/Recognitions:

- 1) GATE 2021 qualified.
- 2) Got Support Grant Winner Prize at ICTAM 2024.
- 3) Raman Research Award at VIT Vellore.
- 4) Vidhya Shree Award (2012)
- 5) Young Scientist Award presentation at the 68th ISTAM conference, NIT Warangal, in December 2023.

6. SELECTED PUBLICATIONS (Recent)

1. Suhail, S., & Saha, S. , “Wave scattering by an elastic plate in a viscous fluid of finite depth,” Marine Structures, 103, 103833 (2025).
2. Suhail, S., Saha, S., Barman, K. K., & Bora, S. N. , “Impact of a porous structure placed at the sea-bed in wave scattering around ice floes,” Journal of Fluids and Structures, 134, 104280 (2025).
3. Suhail, S., Barman, K. K., Saha, S., & Tsai, C. C. , “Gravity wave interaction with compressive VLFS in the presence of thick porous bed,” European Journal of Mechanics - B/Fluids, 109, 180–198 (2025).
4. Suhail, S., Barman, K. K., & Saha, S., “Gravity wave interaction with a heaving membrane above a thick porous bed,” Physics of Fluids, 36(6) (2024).
5. Suhail, S., Das, S., & Saha, S. , “Oblique wave trapping in a two-layer fluid: Effect of wave blocking,” Ocean Engineering, 295, 116982 (2024).

View Full Publication List – Google Scholar: <https://scholar.google.com/citations?user=71mQSxgAAAAJ>

7. ACADEMIC PROFILES

- Google Scholar: <https://scholar.google.com/citations?user=71mQSxgAAAAJ>
- ORCID: [0009-0004-1782-1793](https://orcid.org/0009-0004-1782-1793)
- Scopus: [58631782000](https://scopus.org/58631782000)
- Web of Science: [QUU-2407-2026](https://www.webofscience.com/QUU-2407-2026)
- Personal/Professional Website: <https://www.linkedin.com/in/saniyasuhail/>

8. CONTACT

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