: FACULTY DETAILED RESEARCH DATA:

Name of the Faculty: Dr. Arijit Das

Designation: Assistant Professor

Department: Mathematics

School: Basic Sciences

Research Area: Fluid Dynamics, Integral Equations.

Details of research portfolio of faculty:

A. Researcher's ID details:

Google Scholar ID: JDzJP8EAAAAJ Orchid ID: 0009-0000-5387-2230

Scopus ID: 57216139762 Vidwan ID: 525849

B. Publication details:

1. Conference proceedings/ Conference paper:

Sl. No.	Name of the Conference	Title of the paper	Month & Year of Publication	Author(s) Name	National/ International	doi number (if any)	ISSN/ISBN no.
1.	**International Conference on HYDROELASTICITY IN MARINE TECHNOLOGY**	**Effects of Flexible Bottom on Generation of Surface Waves by an Oscillatory Disturbance**	**November, 2022**	Selina Hossain, **Arijit Das** and Soumen De	International		**978-88-7617-054-6**
2.	**International Conference on Mathematics and Computing**	**Wave structure interaction problem on an immersed prolate spheroid in the presence of surface tension**	**September 2025**	Anuradha Biswas, **Arijit Das** and Soumen De	International		**978-981-96-6350-7**

3.	**International Conference on Mathematical Modeling and Computational Science**	**Application of Differential Transform Method for Solving Some Classes of Singular Integral Equations**	**August 2023**	Subhabrata Mondal, **Arijit Das**, Sonjoy Pan, Biman Sarkar & Santu Ghorai	International	**https://doi.org/10.1007/978-981-99-3611-3_17**	**978-981-99-3610-6**
4.	**International Conference on Mathematical Modeling and Computational Science**	**Wave Scattering by Thin Multiple Bottom Standing Vertical Porous Walls in Water of Uniform Finite Depth**	**August 2023**	Biman Sarkar, Priya Sharma, Santu Ghorai, **Arijit Das,** Subhabrata Mondal & Sonjoy Pan	International	**https://doi.org/10.1007/978-981-99-3611-3_24**	**978-981-99-3610-6**

2. Publications in SCI/Scopus indexed Journals:

Sl. No	Name of the Journal (mention SCI/scopus)	Title of the paper	Month & Year of Publication	Author(s) Name (Highlight the corresponding and 1st author in every article)	doi number	Issue No. &Volume No.	Page no.	ISSN of the journal
1.	*The Quarterly Journal of Mechanics and Applied Mathematics*	Radiation of waves by a thin cap submerged in ice covered ocean	**September 2020**	**Arijit Das,** Soumen De and B.N. Mandal	**https://doi.org/10.1093/qjmam/hbaa011**	**73(4)**	**261-278**	**1464-3855**
2.	*Waves in Random and Complex Media*	Small Amplitude Water Wave Propagation Through Mangrove Forests Having Thin Viscoelastic Mud Layer	**Sepember 2020**	**Arijit Das,** Soumen De and B.N. Mandal	**https://doi.org/10.1080/17455030.2020.1817624**	**32(3)**	1251-1268	**1745-5030**

3.	*Journal of Applied Fluid Mechanics*	Wave Motion through Mangrove Forests in the Presence of a Viscoelastic Bed Due to a Line Source	**July 2021**	**Arijit Das,** Soumen De and B.N. Mandal	https://doi.org/10.47176/jafm.14.04.31980	**14(4)**	1269-1282	**1735-3645**
4.	*Studies in Applied Mathematics*	Radiation of waves by a submerged nearly circular rough plate in ice covered ocean	**June 2021**	**Arijit Das,** Soumen De and B.N. Mandal	https://doi.org/10.1111/sapm.12414	**147(3)**	935-954	**1467-9590**
5.	*Meccanica*	Radiation and scattering of flexural-gravity waves by a submerged porous disc	**April 2022**	**Arijit Das,** Soumen De and B.N. Mandal	https://doi.org/10.1007/s11012-022-01510-y	**57**	1557-1573	**1572-9648**
6.	*Journal of Fluids and Structures*	Radiation of water waves by a heving submerged disc in a three-layer fluid	**May 2022**	**Arijit Das,** Soumen De and B.N. Mandal	https://doi.org/10.1016/j.jfluidstructs.2022.103575	**111**	103575	**0889-9746**
7.	*Applied Mathematical Modelling*	Wave interaction with an elliptic disc submerged in a two-layer fluid	**May 2023**	**Arijit Das,** Soumen De and B.N. Mandal	https://doi.org/10.1016/j.apm.2023.01.016	**117**	786-801	**1872-8480**

8.	*Archive of Applied Mechanics*	Generation of waves by moving oscillatory pressure disturbances in presence of porous bottom	**July 2022**	Selina Hossain, Sandip Paul, Soumen De, Arijit Das	https://doi.org/10.1007/s00419-022-02212-3	**92(9)**	2713-2731	**1432-0681**
9.	*Geophysical & Astrophysical Fluid Dynamics*	The influence of flexible bottom on wave generation by an oscillatory disturbance in the presence of surface tension	**May 2023**	Selina Hossain, Arijit Das and Soumen De	https://doi.org/10.1080/03091929.2023.2207018	**117(3)**	177-212	**0309-1929**
10.	*Journal of Engineering Mathematics*	Gravity waves generated by an oscillatory surface pressure in a two-layer fluid with a porous bottom	**October 2023**	Selina Hossain, Arijit Das, Soumen De, and B.N. Mandal	https://doi.org/10.1007/s10665-023-10298-z.	**143**	**2**	**1573-2703**
11.	*Physics of Fluids*	Water Wave Interaction with a Submerged Porous Disc in a Two-Layer Fluid	**February 2025**	**Arijit Das** and Soumen De	https://doi.org/10.1063/5.0255719	37	**027158**	**1089-7666**
12.	*Physics of Fluids*	Wave diffraction by axisymmetric and nonaxisymmetric prolate spheroid submerged in infinite depth water having surface tension	**February 2025**	Anuradha Biswas**,** **Arijit Das** and Soumen De	https://doi.org/10.1063/5.0273734	37,	077140	**1089-7666**

13. Book chapter:

Sl. No.	**Title of the book**	**Publishers**	**Author(s) Name (Highlight the corresponding and 1st author in every article)**	**Year**	**ISBN No.**	**doi no. (if applicable)**
1.	Dispersion Equation & It's Solution for Single	Integrated Publications	**Arijit Das**	2024	978-93-5834-	https://doi.org/10.62778/int.book.450

	Layer Fluid with Surface Tension Having an Inertial Surface				625-1	
2.	A Study on Internal Wave Velocity in a Two-Layer Fluid Medium in Context of the Solution of Dispersion Equation	Integrated Publications	**Arijit Das**	2024	978-93-5834-625-1	https://doi.org/10.62778/int.book.450
3.	A note on solution of the dispersion equation for small-amplitude internal waves in three-layer fluid	CRC Press Taylor & Francis Group	**Anuradha Biswas & Arijit Das**	2025	978-10-3294-682-5	https://doi.org/10.1201/9781003596745-71
4.	A small note on the dispersion equation and it's roots for waves in mangrove forests in presence of surface tension	CRC Press Taylor & Francis Group	**Arijit Das** & **Anuradha Biswas**	2025	978-10-3294-682-5	https://doi.org/10.1201/9781003596745-71
5.	Wave Scattering by an axisymmetric spheroid submerged Below a Free Surface	Akinik Publications	**Arijit Das**	2024	978-93-6135-429-8	https://doi.org/10.22271/ed.book.2938
6.	Wave Scattering of non-axisymmetric spheroidal body Below a Free Surface	Akinik Publications	**Arijit Das**	2024	978-93-6135-429-8	https://doi.org/10.22271/ed.book.2938

4. Text/Reference book published from reputed national/international publishers:

Sl. No.	Title of the Text/Reference book	Publishers	Author(s) Name (Highlight the corresponding and 1st author in every article)	Year	ISBN No.	doi no. (if applicable)

5. Project granted:

			Duration		

Sl. No	Sponsoring Agency	Name of the project	Starting Month & Year	Ending month & Year	Amount in Lakhs	PI/ CO-PI

6. Consultancy Project Grant:

Sl No.	Project title	Funding Agency	Duration	Completed (yes/no)	Sanctioned amount (in Rs.)	PI and CO-PI (if any)

7. Patent/IPR granted:

Sl. No.	Name of the patent	Name of the applicant	Name of the inventor	Date of File	Date of Publication	Whether Granted (yes/no); If yes, Date of Grant	Application No.