

Faculty Profile Format



1. Personal Details:

- a. Name of the Faculty: Rumpa Chakraborty
- b. Academic Degrees: PhD
- c. Department: Mathematics
- d. Designation: Assistant Professor
- e. Email id: chak.rumpa@gmail.com
- f. Courses Taught: Integral Equation, Integral Transforms, Compressible Fluid Mechanics, Numerical Analysis
- g. Area of Research Interests: Water waves theory, Integral Equations.
- h. Teaching Experience [substantive post only]: 6 years (Dec, 2016-Till Date)
- i. Administrative Experience: 1 year (Department Coordinator) (Feb,2022-Till Date)

2. Research Publications [Last 5 Years]:

Seri al No.	Title of the Research Paper	Level [international/national/state]	ISBN/ISSN	Name of the Publishing Agency	Year of Publication
1	Boundary element approach of solving Fredholm and Volterra integral equations	International	ISSN: 2040-3607 eISSN: 2040-3615	International Journal of Mathematical Modelling and Numerical Optimisation Vol-9 (1) 1-11 Inderscience Publishers (IEL)	2019
2	Scattering of water waves by thick rectangular barriers in presence of ice cover	International	Online ISSN: 2468-0133	Journal of Ocean Engineering and Science Vol.5, Issue 3 Pages 279-293 Elsevier	2020
3	Scattering of Water Waves by a Circular Trench	International	978-981-15-8049-9	Proceedings of the 14th International Conference on Vibration Problems: ICOVP 2019 Springer Singapore	2021
4	Scattering of water waves by	International	1007-6735	Journal of University of Shanghai for Science and Technology,	2021

	rectangular thick barriers in presence of surface tension			Vol 23 (11) 33-55 DOI: 10.51201/JUSST/21/10773	
5	Effect of Inertial Surface on Surface Gravity Wave Propagation by Thick Rectangular Barrier	International	0973-4570	International Journal of Lakes and Rivers Vol:14 (2) 135-160	2021
6	Gravity Wave Generated by Initial Axisymmetric Disturbance at the Surface of an Ice-covered Ocean with Porous Bed	International	1993-5048	Journal of Marine Science and Application Publisher Springer, DOI: 10.1007/s11804-021-00241	2021
7	Line element method of solving singular integral equations	International	E ISSN 0975-7465 Print ISSN 0019-5588	Indian Journal of Pure and Applied Mathematics Vol-53 (2) Page: 528-541 Indian National Science Academy Springer	2022
8	Propagation of surface gravity waves by a submerged thin elastic plate beneath an ice cover	International	E ISSN 1432-0681	Archive of Applied Mechanics Vol: 93(4) P:1507-1524 Springer Berlin Heidelberg	2023
9	Numerical Approach on Oblique Wave Scattering by a Wide Rectangular Impediment With a Vent Placed Under a Finite Depth Water Body With Ice-Covered Surface	International	1528-896X	Journal of Offshore Mechanics and Arctic Engineering Vol:145 (1) Page: 010903 American Society of Mechanical Engineers	2023

3. Research papers presented in conferences/seminars [Last 5 years]:

Serial No	Title of the Paper Presented	Title of the seminar/ conference	Level [international/	Name of the organiser	Date
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			national/state]		
1	Propagation of water waves over rectangular trench	ICAACA2020	International	Jadavpur University	20.01.2020
2	Scattering of water waves over semi elliptic shaped asymmetric trench	NLDA - 2020	National	Jadavpur University	13.03.2020
3	Wave - structure interactions by thick rectangular barriers in presence of ice	The Hands-On Research in Complex Systems School Smr 3314	International	ICTP, Trieste, Italy	21.07.2021
4	Oblique wave scattering by thick vertical rectangular wall with gap in presence of ice cover	RAAMTC21	International	Dept.Appl.Math. University of Calcutta	27.03.2021
5	OBLIQUE WAVE SCATTERING BY A WIDE RECTANGULAR BLOCK WITH A GAP IN A FINITE DEPTH WATER WITH ICE COVERED SURFACE	8th INTERNATIONAL ZEUGMA CONFERENCE ON SCIENTIFIC RESEARCH	International	Gaziantep, Turkey	July 15-17, 2022
6	Oblique wave scattering by a wide rectangular block with a vent placed under a finite depth water body with ice covered surface	ICAM 2022	International	Vidyasagar University	8.06.2022-9.06.2022

4. Research Projects:

Serial No.	Title of the Research Project(s)	Funding Agency	Date of Award	Duration of the Project	Research Grants Amount	Status of the Project

5. E-learning material, if any:

Course Details	Name of the Institution	Date/year of uploading	Quadrant I, II, III,	Link

			IV	

6. Research Supervision (Ph.D./M.Phil.)

Serial No.	Name of the student	Research Topic	Name of the institution	Date of Registration	Year of Award of the Degree
1	Mampi Majhi	Water waves	D.H.W.U	2022	Perusing
2	Gour Das	Water waves	J.U.	2020	Persuing
3	Anushree Samanta	Water waves	J.U.	2018	Thesis Submitted

7. Programmes Conducted / Organised as Convenor / Organising Secretary at DHWU [Last Five Years]

Serial No.	Date	Name of the Programme	Sponsored By
1	08.03.2018	Seminar on Women Empowerment in Science	Dept. of Mathematics, DHWU
2	06.08.2020	ONE DAY NATIONAL WEBINAR ON PURE AND APPLIED MATHEMATICS	Dept. of Mathematics, DHWU
3	15.06.2022	Lecture series on Recent trends in Mathematics	Dept. of Mathematics, DHWU

8. Other Relevant Information, if any:

Serial No.	Achievements / Awards	Assignment Details [Membership of Professional Bodies/Editorial Board/BOS/BORS etc.]
1		DHWU Mathematics dept. BOS member
2		DHWU Mathematics dept. BORS member

Date: 20.04.2023