



Full name of the faculty member: **DILIP DAS**

Designation: **Associate Professor,**
Department of Mathematics

Specialisation: **Fluid Mechanics**

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DIAMOND HARBOUR WOMEN'S UNIVERSITY,

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Academic qualifications:

Examination/Degree	Year of passing	Board/University	Subject/Discipline
B.Sc.	2001	Calcutta University, Narendrapur R. K. Mission Residential College	Mathematics
M.Sc.	2003	Calcutta University	Applied Mathematics
Ph. D.	March, 2009	Calcutta University/ Indian Statistical Institute, Calcutta	Applied Mathematics/Fluid Mechanics

Field of Research Interest:

- Fluid Mechanics
- Water waves, Trapped Mode
- Integral Equation
- Computational Fluid Mechanics

Professional recognition, awards, fellowships received:

Year	Name of Award/Honour	Name of Organization
2000-2001	National Scholarship	Government of India, Ministry of Human Resource Development
2001	Manindra Memorial Scholarship (LUMP)	Calcutta University, Kolkata
2002	Prof. Jatindranath Mitra Scholarship	Calcutta University, Kolkata
2003	NET(CSIR) (National Eligibility Test)	Council of Science and Industrial Research, New Delhi
2003	Research Fellowship (JRF, SRF)	Indian Statistical Institute, Kolkata

Membership of learned Societies:

- (i) Member of *Calcutta Mathematical Society*, Kolkata.
- (ii) Member of Board of Studies; *Narendrapur R. K. Mission Residential College (Autonomous)*, Kolkata.

List of Publications

Papers published in journals:

- (i) **Dilip Das** and B. N. Mandal, "A note on solution of the dispersion equation for small-amplitude internal waves." *Arch. Mech.*, **57** (2005) 491-501.
- (ii) **Dilip Das** and B. N. Mandal, "Oblique wave scattering by a circular cylinder submerged beneath an ice-cover." *International J. Engng. Sci.*, **44** (2006) 166-179.
- (iii) **Dilip Das** and B. N. Mandal, "Wave scattering by a horizontal circular cylinder in a two-layer fluid with an ice-cover." *International J. Engng. Sci.*, **45** (2007) 842-872.
- (iv) **Dilip Das**, "Solution of the dispersion equation for internal waves in two-layer fluid with an ice-cover." *Bull. Cal. Math. Soc.*, **100** (2) (2008) 165-176.
- (v) **Dilip Das** and B. N. Mandal, "Water wave scattering by a circular cylinder submerged in water with an ice-cover." *Indian J. Pure and Appl. Math.*, **39**(4), (2008) 299-315.
- (vi) Sur, Abhi, Mamaloukas, Ch., **Das, Dilip**. and Mazumdar, H. P., "On a steady two dimensional turbulent pipe flow" *J. Calcutta Math. Soc.* **4** (2008) 85-92.
- (vii) **Dilip Das**, B. N. Mandal and A. Chakrabarti, "Energy identities in water wave theory for free-surface boundary condition with higher-order derivatives." *Fluid Dynamics Research*, **40** (2008) 253-272.
- (viii) **Dilip Das** and B. N. Mandal, "Water wave radiation by a sphere submerged in water with an ice-cover." *Arch. Appl. Mech.*, **78** (2008) 649-661.

- (ix) **Dilip Das** and B. N. Mandal, “Wave scattering by a circular cylinder half-immersed in water with an ice-cover” *International J. Engng. Sci.* **47** (2009) 463-474.
- (x) **Dilip Das** and B. N. Mandal, “Wave radiation by a sphere submerged in a two-layer ocean with an ice-cover” *Applied Ocean Research* **32** (2010) 358-366.
- (xi) B. N. Mandal and **Dilip Das**, “Construction of wave-free potentials in linearized theory of water waves in uniform finite depth water”, *Rev. Bull. Cal. Math. Soc.*, **18(2)** (2010), 173-184.
- (xii) **Dilip Das** and B. N. Mandal, “Construction Wave-free potential in the linearized theory of water waves” *J. Marine Sci. and Appl.* **9** (2010) 347-354.
- (xiii) **Dilip Das** and Nityananda Thakur. “Water wave scattering by a sphere submerged in uniform finite depth water with an ice-cover” *J. Marine Structure* **30**(2013) 63-73.
- (xiv) **Dilip Das** and Nityananda Thakur, “Wave scattering by a sphere submerged in a two-layer fluid with an ice-cover” *International J. Appl. Math. Engng. Sci.* **8**(2014) 45-63.
- (xv) **Dilip Das**, “Construction of wave-free potentials and multipoles in a two-layer fluid having free-surface boundary condition with higher-order derivatives” *J. Marine Sci. and Appl.* **14**(2015) 270-282.
- (xvi) **Dilip Das**, “Wave scattering by a horizontal circular cylinder in a three-layer fluid” *J. Ocean Engng. Sci.* **1(2016)**135-148
- (xvii) Nityananda Thakur and **Dilip Das**, “Hydrodynamic Forces on a Submerged Horizontal Circular Cylinder in Water with an Ice Cover” *Iran. J. Sci. Technol. Trans. Sci.* DOI 10.1007/s40995-016-0044-5 (2016)

Papers published in International Conference Proceedings:

- (i) **Dilip Das** and B. N. Mandal, “Oblique wave scattering by a circular cylinder in two-layer fluid with an ice-cover.” *21st IWWFEB*, 2006, **Loughborough University**, 2-5 April, (2006) 29-33.
- (ii) **Dilip Das** and B. N. Mandal, “Oblique wave scattering by a fixed half-immersed circular cylinder in water with an ice-cover.” *23rd IWWFEB*, 2008, **Seoul National University, Korea**, 13-16 April, (2008).

Articles/Chapters Published in Books:

- (i) **Dilip Das** and Nityananda Thakur, “Water wave scattering by a sphere in a two-layer fluid with an ice-cover”. *Applied Mathematics, Springer Proceedings in Mathematics & Statistics Volume 146, Capter 17, P. 183-191.*

Paper presented in academic Seminar/Conference/Workshop with title of Papers:

- a. National Symposium on Mathematics and its applications, (**NSMA -2004**), 21-23 December 2004, **Department of Mathematics, Burdwan University.**
Title of the paper presented: A note on solution of the dispersion equation for small-amplitude internal waves.
- b. National Conference on Mathematical Analysis and Applications, (**NCAA 2005**), 1-2 March 2005, Department of Mathematics, **Jadavpur University**
Title of the paper presented: Water wave scattering by a circular cylinder submerged in water with an ice-cover.
- c. International Conference on Application of Fluid Mechanics in Industry and Environment (**ICAFMIE-2006**), 28-31 August 2006, **PAMU, Indian Statistical Institute, Kolkata.**
Title of the paper presented: Wave scattering by a horizontal circular cylinder in a two-layer fluid with an ice-cover.
- d. International Conference on Frontiers in Fluid Mechanics (**ICFFM-2006**), 26-28 October 2006, **Department of Mathematics, Bangalore University, Bangalore.**
Title of the paper presented: Energy identities in water wave theory for free-surface boundary condition with higher-order derivatives.\
- e. National Conference on Mathematics and Application-Recent trends (**MART-2007**), 10-12 January 2007, **Department of Mathematics, Burdwan University, Burdwan.**
Title of the paper presented: Water wave scattering by a horizontal circular cylinder submerged in water with an ice-cover.
- f. National Seminar on Generalizations and Approximations in Mathematics (**GAM**), 28-29 March, 2008, **Department of Mathematics, Visva-Bharati, Santiniketan.**
Title of the paper presented: Wave scattering by a circular cylinder half-immersed in water with an ice-cover.
- g. National Seminar on Recent Advances in techniques of Applied Mathematics: Computational and Analysis, 14-16 March, 2012, Department of Applied Mathematics, **University of, Kolkata.**
Title of the paper presented: Water wave scattering by a sphere submerged in uniform finite depth water with an ice-cover.
- h. International Conference on Emerging Trends in Applied Mathematics, February, 12-14, 2014. Department of Applied Mathematics, Calcutta University, Kolkata.
Title of the paper presented: Water wave scattering by a sphere in a two-layer fluid with an ice-cover.