

## Curriculum vitae (CV) of Dr. Sangita Chakraborty



Name: **DR. SANGITA CHAKRABORTY**

Designation: **ASSOCIATE PROFESSOR**

Department: **MATHEMATICS**

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Qualification:

- **M. Sc. (Indian Institute of Technology, Kharagpur),**
- **Ph. D. (Indian Institute of Technology, Kharagpur)**

Teaching Experience:

- **UG Level: 24 years** (At Garhbeta College: 12<sup>th</sup> January 2000 -5<sup>th</sup> September 2008),  
(At Kharagpur College: 6<sup>th</sup> September 2008- till date)
- **PG Level: 2 years** (As a Guest Teacher in Mathematics at Vidyasagar University:  
Session: 2002-2003 and 2003-2004)

Research Experience and Area:

- **Ph. D. (2000): Indian Institute of Technology, Kharagpur.**  
Worked as a **CSIR-Junior Research Fellow (JRF)**,  
and as a **CSIR-Senior Research Fellow (SRF)**.  
Title of the Thesis: *“A Numerical Study of Fully Nonlinear Two-Dimensional Free-surface Flows and Wave Body Interactions”*.
- **Post Doctoral Research Experience (May, 2001-April, 2002): United Kingdom**  
Worked as a **Post Doctoral Academic Visitor** at The Ship Stability Research Centre, Universities of Glasgow and Strathclyde, **Glasgow, United Kingdom.**  
Title of the Work: *“On the Coupling of Viscous and Inviscid Models for Ship Flows”*.
- **Research Project (1995 - 1996) : Indian Institute of Technology, Kharagpur.**

Worked as a **Junior Research Fellow** in the project entitled :

***“Steep and Extreme Wave Induced Pressures and Forces on Offshore and Coastal Structures”***, sponsored by the Department of Ocean Development (DOD), New Delhi, India.

Publications Details:

- Maiti, S., and Sen, D., ***“Computation of solitary waves during propagation and runup on a slope”***, International Journal: Ocean Engineering, Vol. 26, pp. 1063 – 1083, 1999.
- Maiti, S., and Sen, D., ***“Time-domain wave diffraction of two-dimensional single and twin hulls”***, International Journal: Ocean Engineering, Vol. 28, No. 6, pp. 639 – 666, 2001.
- Maiti, S., and Sen, D., ***“Nonlinear heave radiation forces on two-dimensional mono and twin hulls”***, International Journal: Ocean Engineering, Vol. 28, No. 8, pp. 1031 – 1052, 2001.
- Sen, D., and Maiti, S., ***“Numerical modeling of extreme and breaking waves”***, Proceedings of International Conference in Ocean Engineering (COE’96), Indian Institute of Technology, Chennai, India, pp. 165 – 170, December, 1996.
- Maiti, S., and Sen, D., ***“Nonlinear wave forces on impermeable walls”***, Proceedings of Second Indian National Conference on Harbour and Ocean Engineering (INCHOE’97), Thiruvananthapuram, India, pp. 142 – 151, December, 1997.
- Maiti, S., and Sen, D., ***“Nonlinear wave diffraction by 2D free surface-piercing bodies”***, Proceedings of International Conference on Mathematical Modelling of Nonlinear Systems (ICOMMONS’99), Indian Institute of Technology, Kharagpur, India, Vol. I, pp. 69 – 82, December, 1999.

Development of e-learning study module:

- **Developed e-learning study materials for UG (Honours) students of different Odd Semesters and Even semesters and uploaded in the College Website.**

Attended/Presented Paper/ in Seminar/Workshop/Webinar:

***International Conference :***

- Presented a paper entitled ***“Nonlinear wave diffraction by 2D free surface-piercing bodies”***, at **International Conference on Mathematical Modelling of Nonlinear Systems (ICOMMONS’99)**, organized by the Department of Mathematics, **Indian Institute of Technology, Kharagpur, India (December, 1999).**

- Participated **International Conference in Ocean Engineering (COE'96), Indian Institute of Technology, Chennai, India** (December 1996).

**Webinar :**

- Participated in the **One-day National Webinar on “Recent Trends In Mathematics and Its Applications”** organized by the Department of Mathematics, Kharagpur College (29<sup>th</sup> July, 2020).

**Workshop :**

- Participated in the **SERB-Sponsored Two-day Workshop on “3D Printing in Research and Education: Empowering the Future”** organized by AG & FE Department, I.I.T. Kharagpur (7<sup>th</sup>- 8<sup>th</sup> October, 2023).
- Participated in the workshop on **“Workshop for Revision of Syllabus for Honours and Pass Course of Vidyasagar University”** in Mathematics, organized by the Department of Applied Mathematics with Oceanology and Computer Programming, and The Council for Undergraduate Studies, Vidyasagar University, Midnapore (6<sup>th</sup> March, 2014).
- Participated in **UGC-Sponsored State Level Three-Day Workshop on “C-Language & Its Application”**, organized by the Department of Mathematics, Kharagpur College, Kharagpur (March 28– March 30, 2012).

**Seminar :**

- Participated in the National Seminar on **“Iswar Chandra Vidyasagar-The Proponent of Rationalism and Free Thinking”**, organized by Midnapore College (Autonomous) & WBCUTA, Midnapore (West) (21<sup>st</sup> December, 2019).
- Attended the National Seminar on **“System of Governance in Higher Education”**, organized by Department of Political Science, Midnapore College in collaboration with WBCUTA, Midnapore (West) (December 08, 2012).
- Attended the Regional Level Seminar on **“Ordinance of Universities in West Bengal: Advancement or Retrogression”**, organized by WBCUTA, Midnapore (West) in collaboration with Vidyasagar Teachers’ Training College, Midnapore (December 17, 2011).
- Participated in **UGC-Sponsored National Seminar on “Women Development in the Perspective of Socio-Cultural, Environmental, and Health Issues”**, organized by Women’s Studies Centre, Vidyasagar University, Midnapore (March 30, 2010).

- Participated in **UGC-Sponsored** National Seminar on “**Teaching Methodology In Higher Education**”, organized by Kharagpur College, Kharagpur (February 18, 2010).
- Attended Seminar on “**Yash Pal Committee Report and the Shifting Paradigms of Higher Education in India**”, organized by W.B.C.U.T.A., Paschim Medinipur District Committee at Debra Thana Saheed Kshudiram Smriti Mahavidyalaya, Gangaramchawk, Chakshyampur, Paschim Medinipur (December 19, 2009).
- Attended **UGC-Sponsored** National Seminar on “**Applied and Computational Mathematics and their Applications**”, organized by the Department of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, Midnapore (March 06 – March 07, 2008).
- Attended **UGC-Sponsored** Seminar on “**Relevance of Women Studies in Contemporary India**”, organized by Vidyasagar University, Midnapore (February 22, 2008).
- Attended Seminar on “**Role of Teaching Community in Conservation of Academic Climate and Standard in Educational Institution**”, organized by W.B.C.U.T.A., Paschim Medinipur District Committee at Kaibalyadayini College of Commerce, Midnapore (November 19, 2005).
- Attended Seminar on “**SIKKHA-SHASTHYA -VIGNAN AVIJAN -2003**”, organized by W.B.C.U.T.A., Paschim Medinipur District Committee at Vivekananda Satabarshiki Mahavidyalaya, Manikpara, Paschim Medinipur (December 06, 2003).
- Attended “**Dasham Paschim Banga Rajya Vignan O Prajukti Congress**”, sponsored by Paschim Banga Rajya Vignan O Prajukti Samsad, Paschim Banga Sarkar, at Vidyasagar University, Midnapore (February 28 – March 02, 2003).
- Attended the State Level Seminar on “**Sustainable Life-Style With Reference to Environment**”, organized by Garhbeta College in collaboration with Vidyasagar University, Midnapore (February 17, 2003).
- Attended the National Seminar on “**Globalisation and its Impact on Higher Education in India**”, organized by W.B.C.U.T.A. (January 13, 2003).

#### **Symposium :**

- Participated in the “**One-day Symposium on CBCS UG Syllabus of Mathematics 2019**”, organized by the Department of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, Midnapore (12<sup>th</sup> September, 2019).
- Participated in the “**One-day Symposium on CBCS UG Syllabus of Mathematics 2018**”, organized by the Department of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, Midnapore (30<sup>th</sup> August, 2018).

- Participated in the “ *One-day Symposium on New UG Syllabus of Mathematics*”, organized by the Department of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, Midnapore (13<sup>th</sup> September, 2017).

Research Projects:

- Completed (as a Principal Investigator ) one **UGC Sponsored Minor Research Project** (UGC Approval No. F. PSW-068/08-09 (ERO), Dated 24-Jun-2009).  
Title of the Project: “*Nonlinear Wave Radiation Forces Acting On Floating Bodies Undergoing Forced Periodic Sway Oscillation*”

Fellowship/Award/recognition received:

- Qualified **Graduate Aptitude Test in Engineering (GATE-1995)**, (Percentile Score : 92.66, All India Rank: 56).
- Qualified **Joint CSIR-UGC Test 1995 for JRF and Eligibility for Lecturership**.
- Received **CSIR-Junior Research Fellowship (JRF), 1996 and CSIR-Senior Research Fellowship (SRF), 1998**.
- Selected as an **Institute Research Scholar (1996)** at Department of Mathematics, **I. I. T. Kharagpur**.
- Worked as a **Post Doctoral Academic Visitor** at The Ship Stability Research Centre, Universities of Glasgow and Strathclyde, **Glasgow, United Kingdom** (May, 2001- April, 2002).

Organized Workshop/Seminar/Certificate Course:

- Organized (as a Convener) One-day Seminar on “*Foundations of Various Branches of Mathematics*”, on 15<sup>th</sup> May, 2023 at the Department of Mathematics, Kharagpur College, Kharagpur.
- Organized (as a Coordinator) one Certificate Course on “*Advancements of Mathematics for UG Level*” of duration 15 days (30 Hours) at the Department of Mathematics, Kharagpur College in collaboration with the Centre for Continuing and Adult Education (CCAЕ), **Vidyasagar University** (24<sup>th</sup> May 2023– 12<sup>th</sup> June 2023).

Administrative responsibility:

- **Head**, Department of Mathematics, Kharagpur college (Tenure: **January, 2014- 14<sup>th</sup> June, 2016** ; and **22<sup>nd</sup> February, 2023- till date**).

Participation in Board of Studies:

- **Member, B.O.S. (UG) in Mathematics (December 2018- till date),**  
Raja N. L. Khan Womens College (Autonomous), Midnapore

Members in different Committee:

- Member: **RUSA Sub-committee,**
- Member: **P.F. Sub-committee,**
- Member: **Students Grievance and Redressal Cell,**
- Member: **Womens Cell,** Kharagpur College
- Member: **Cultural Sub-committee** of Teachers' Council of College
- Convener (Joint): **Reception Sub-committee** of Platinum Jubilee Celebration of  
College Foundation Day

Contribution to Professional Bodies:

- Member: **W. B. C. U. T. A.**
- Member: **A. I. F. U. C. T. A.**

Co-curricular Activities: (Some previous activities)

- **Secretary:** Teachers' Council of the College,
- **Convener:** Cultural Sub-committee of Teachers' Council of the College,
- **Member:** Seminar Sub-committee of Teachers' Council of the College.
- **Member:** Grievance Cell, Kharagpur College.

Student Welfare and Discipline:

- **In-Charge** of Cultural Competition, Students' Union (2016-2017),
- **In-Charge** of Girls Common Room, Students' Union (2009-2012).

Enrichment of Campus Life:

- Participation in Cultural Program organized by Teachers' Council of the College,
- Participation in Annual Sports organized by Students' Union of the College.