

CURRICULUM VITAE

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Academic Achievements:

Degree	Subject	College	University	%	Year
Ph.D	Mathematics		Jadavpur University	-	2014
M.Sc	Mathematics		Jadavpur University	65.83	2006
B.Sc	Mathematics	Jadavpur University	Jadavpur University	66	2004

Orientation

- 1) One week faculty development programme on “Contemporary Engineering Practices” (CEP – 2015) during 5th to 11th January, 2015 organized by the School of Engineering, Haldia Institute of Technology, West Bengal, India.
- 2) One week faculty development programme on “Bridging Gap Between Academia and Industry” during 5th to 11th February, 2015 organized jointly by Industry Institute Partnership Cell and Training & Placement and Haldia Institute of Technology, West Bengal, India.

Workshop/ Short term course (QIP)/ Symposium :(No. 05)

- 1) Short term course [QIP](MHRD/ AICTE Winter School) entitled Logic and Application of Logic during 12th to 16th January, 2009 at IIT, Kharagpur, India.
- 2) Workshop for Change of Syllabus of West Bengal University of Technology at Kolkata, India on 02/06/2010 (Ref No. HIT/CR/138/2010).
- 3) The AICTE sponsored QIP Short Term Course on Analytical and Numerical Solutions of Differential Equations organized by the Department of Mathematics, IIT Guwahati, India during December 6 – 10, 2010.
- 4) Two day Workshop “FACETS 2015” organized by The Institute of Mathematical Sciences, Chennai, India during June 29 – 30, 2015.
- 5) Indian workshop and Symposium on Modelling, Experimentation and Simulation on Complex Systems (MESCOs 2015) organized by Haldia Institute of Technology, West Bengal, India during August 05 – 07, 2015.

International / National Conference:(No. 08)

1. P-Wave interaction with a circular disk in an infinite cylinder. **National Conference on Mathematics and its Applications (NCMA 2011), January 13 – 14, 2011** organized by the **Department of Mathematics, Jadavpur University.**
2. Impact of torsional load on a penny-shaped crack in an elastic layer sandwiched between two elastic half-space, **National Conference on Emerging Trends in Physics of Fluids and Solids, February 27 – 28, 2013** organized by the **Department of Mathematics, Jadavpur University.**
3. Sanjoy Basu, Torsional oscillation of rigid disk at the bi-material interface. Proceeding of **International Conference on Mathematics and Information Technology**, pp. 14 – 17, 15-16 March, organized by **World Academic – Industry Research Collaboration Organization [WAIRCO], Chennai, India, 2013.**
4. Stress intensity factor for rigid penny shaped disc at the bi-material interface, **International Conference on Social, Technological and Economic Paradigms of Management and its Impact on global Business Scenario, February 11 – 12, 2014** organized by **School of Management and Social Science, Haldia Institute of Technology, Haldia, India.**
5. **National Conference on Emerging Trends in Physics of Fluids and Solids, March 6 – 7, 2014** organized by the **Department of Mathematics, Jadavpur University.**

6. P-Wave interaction with a pair of rigid strips embedded in an orthotropic strip, **National Conference on Emerging Trends in Physics of Fluids and Solids, February 24 – 25, 2015** organized by the **Department of Mathematics, Jadavpur University.**
7. Torsional load on a cracksandwiched between two elastic layers embedded in anelastic medium, **National Seminar on Recent Advances on Multifunctional Materials during February 3 – 4, 2017** organized by **School of Applied Sciences and Humanities, Haldia Institute of Technology, Haldia, India.**
8. Impact of torsional load on a penny-shaped cracksandwiched between two elastic layers embedded in anelastic medium, **International Conference on Frontiers in Industrial and Applied Mathematics (FIAM – 2018) during April 26 – 27, 2018** organized by **Dept. of Mathematics, NIT Hamirpur, H.P., India**

Seminar / Conference Attendance(No. 03)

- 1) The **National Seminar on Mathematics with Interdisciplinary subjects** organized by the Department of Mathematics, Jadavpur University and the Centre for Mathematical Biology & Ecology and the Centre for Plasma Studies during March 27-28, 2008.
- 2) **National Seminar on Bridging the Gap between Academia and Industry** organized by Haldia Institute of Management, Haldia on 8th September, 2014.
- 3) **National Seminar on Advanced Functional Materials, Technology & Its Social Implications (NSAFMTSI – 2015)** during 30th – 31st January, 2015 organized by the Department of Applied Sciences, Haldia Institute of Technology, West Bengal, India.

Details of Seminars\ Conferences\ Workshop organized

1. MHRD funded National Workshop on “Python for scientific computing”, collaboration with FOSSEE Project of IIT Bombay at Department of Applied Science, Haldia Institute of Technology during July 7-8, 2010. Funds: Rs. 1,12,000/- (From MHRD through ICT)
2. MHRD funded National Workshop on “Scilab”, collaboration with FOSSEE Project of IIT Bombay at Haldia Institute of Technology during December 23 – 29, 2010.
Funds: Rs. 1,25,500/- (From MHRD through ICT)

List of Publications

International Journal: (No of Publications: 07)

1. Basu, Sanjoy and Mandal, S.C., 'Shear Wave Interaction by Edge Crack. International Journal of Theoretical and Applied Mechanics', vol. 6, no. 1, pp. 59-68, 2011. ISSN: 0973-6085.
2. Lahiri, A., Das, N.C., Bera, M.B., Basu, S., 'Reflection and Refraction of Generalized Temperature Rate Dependent Thermoelastic Waves at an Interface between Two Semi-Infinite Media. Int. J. of Applied Mechanics and Engineering, vol.16, Number 4, pp. 1051-1069, 2011. ISSN: 1425-1655.
3. Basu, Sanjoy and Mandal, S.C., 'P-Wave Interaction with A Circular Disk in an Infinite Cylinder', International Journal of Applied Mathematics and Mechanics, vol. 1, no. 1, pp. 15-25, 2012. ISSN: 0973-0184.
4. SanjoyBasu, 'Torsional oscillation of rigid disk at the bi-material interface'. International Journal of Conceptions on Computing and Information Technology, vol.2, Issue 1, pp. 79 – 82, Jan' 2014; ISSN: 2345 – 9808.
5. Basu, Sanjoy and Mandal, S.C., 'Impact of torsional load on a penny-shaped crack in an elastic layer sandwiched between two elastic half-space', International Journal of Applied and Computational Mathematics (Springer India Pvt. Ltd, Scopus), vol. 2(4), 533-543, 2016, ISSN 2349 – 5103.
6. Basu, Sanjoy and Mandal, S.C., 'P-wave interaction with a pair of rigid strips embedded in an orthotropic strip', Journal of Theoretical and Applied Mechanics (SCI Journal, IF: 0.783), Vol. 54 (2), pp. 579 – 592, 2016, ISSN: 1429 – 2955.
7. Karan, S., Basu, S., Mandal, S. C., Impact of torsional load on a penny-shaped crack sandwiched between two elastic layers embedded in an elastic medium, ActaMechanica(SCI Journal, IF:2.166), Vol. 229(4), pp. 1759 – 1772, 2018, ISSN: 0001 – 5970.

Invited Speaker :

Participated as a Invited Speaker and chaired a session in an International Conference on "The Sixth IASTED African Conference on MODELLING AND SIMULATION", organized by University of Botswana on September 5 – 7, 2016 at Gaborone International Convention Center, Botswana.

Number of Ph.D. Guidance (On going) : 01

Name of the student: Somashri Karan (collaboration with Jadavpur University)

Membership of Professional Bodies

- Life Membership(Membership No. L25428) of The Indian Science Congress Association
- Life Membership of Calcutta Mathematical Society