

FACULTY MEMBER ACADEMIC PROFILE

1. **Name of the Faculty member:** Dr BALAI CHANDRA DAS

<https://orcid.org/0000-0001-5536-6825>

<https://scholar.google.com/citations?user=MGlrfVcAAAAI&hl=en>

2. **Designation:** Associate Professor in Geography (W.B.E.S.)

3. **Qualification:** M.A. (Burdwan University), B.Ed. (K.U.), PhD (CU)

4. **Specialization:** Fluvial Geomorphology, Limnology

5. **E-mail address:** drbalaidaskgc@gmail.com

6. **Date of Joining in W.B.E.S.:** 23.05.2007

7. **Date of Joining this College:** 18.11.2010

8. **Teaching experience:** 20 years. I am a teacher as well as a learner of geography. Teaching is a process of learning for me. I teach to enable my students to think freely & logically and to work rationally.

9. **Research interests:** Fluvial Geomorphology, Limnology, Ecosystem. His current research interest is in the fundamental geomorphology of rivers and lakes.

10. **Title of thesis (PhD) with year:** Changes and Deterioration of The Course of River Jalangi And Its Impact on The People Living on Its Banks, Nadia, West Bengal. 14.03.2013

11. **Research guidance:** Nil.

12. **Research Projects (Completed): 01**

Year	Name of PI	Title of Project	Amount (in lakh Rs.)	Duration	Funding Agency with date
2014-2016	Balai Chandra Das	Wetlands with Immense Potential for Sustainable Development: A Case Study on Major Wetlands of C. D. Block – Krishnagar –II, Nadia, West Bengal	3,05,000/-	2 years	UGC No. F. PSW-097/13-14, dated 18 th March 2014

13. **List of publications:**

A) Published papers in Journals:

1. Islam A, Sardar N, Mohinuddin S, Hoque MM., Sengupta S, Das BC, Ghosh S, Wanchang Z, Saha UD, Islam ARMT, Deb barman S, Sarkar B, & Sengupta B. (2023). Quasi-equilibrium channel metamorphosis in planform of a subtropical river in India in post-dam period. *CATENA*, 221, 106793. <https://doi.org/10.1016/j.catena.2022.106793>



2. **Das, B.C., & Islam, A. (2023).** Reviewing braiding indices of the river channel in an attempt to establish alternatives. *MethodsX*.
3. Sarkar B, Islam A, **Das BC**, Nandy S (2022). Corrosion and scaling potential of groundwater in Quaternary aquifers of Bengal Basin, India. *Arabian Journal of Geosciences* 15 (12), 1-21.
4. Sarkar, B., & **Das, B. C.** (2022). A Cross-Sectional Study on the Water Quality and Ecosystem Health of the Jalangi and Bhagirathi River and Their Selected Oxbow-Lakes. In *Fluvial Systems in the Anthropocene* (pp. 353-367). Springer, Cham.
5. **Das, B.C.**, Islam, A. & Sarkar, B. (2022). Drainage Basin Shape Indices to Understanding Channel Hydraulics. *Water Resour Manage* **36**, 2523–2547 <https://doi.org/10.1007/s11269-022-03121-4>
6. **Das, B.C.** (2022). Influence of lithology-controlled hydraulics on pothole evolution. *Acta Geophys.* <https://doi.org/10.1007/s11600-022-00880-x>
7. **Das BC**, Islam A, Sarkar B (2022). Drainage Basin Shape Indices to Understanding Channel Hydraulics. *Water Resource Management*. Springer.
8. Sarkar B, Islam A, **Das BC** (2021). Role of declining discharge and water pollution on habitat suitability of fish community in the Mathabhanga-Churni River, India. *Journal of Cleaner Production*. 129426. ISSN 0959-6526. <https://doi.org/10.1016/j.jclepro.2021.129426>
9. **Das BC** (2020). Morphometry of Plunge Pools and Retreat Mechanism of Waterfalls. *Environmental Earth Sciences*. ISSN: 1866-6280 (print); 79:137. 1866-6299 (web). Springer. <https://doi.org/10.1007/s12665-020-09301-y>
10. **Das BC**, Islam A, Biswas B (2020). Morphometry as Tool to Trace Out the Genealogy of Oxbow Lake. *Environmental Earth Sciences*. ISSN: 1866-6280 (print); 79:137. 1866-6299 (web). <https://doi.org/10.1007/s12665-020-8854-3>
11. Islam A, **Das BC**, Maji NK, Deb Barman S (2020). Assessing meander belt width of Bhagirathi-Jalangi river system in lower Ganga delta, India. *European Journal of Geography*. ISSN: 17921341, 11:1. P 140-162. http://www.eurogeographyjournal.eu/articles/09_ISLAM_140_162.
12. **Das BC** (2019). Control of Substrate on Pothole Geometry. *Current Science, India*. ISSN-0011-3891, VOL. 117, NO. 2, 25 JULY 2019 pp.275-281. <https://www.currentscience.ac.in/Volumes/117/02/0275.pdf>

13. **Das BC (2019)**. A Study on Impact of Bridge Construction on Channel Dynamics, West Bengal, India. *Scientific Journal of K F U (Humanities and Management Sciences)*. Saudi Arabia. ISSN-1319-6944, Vol. 20, No. 1, pp-265-279. <https://services.kfu.edu.sa/scientificjournal/Handlers/FileHandler.ashx?file=h20114.pdf&Folder=UploadFiles>
14. **Das BC (2018)**. Development of Streambed Potholes and The Role of Grinding Stones. *Journal of Environmental Geography*, Hungary. ISSN- 2060-467X, Vol. 11, No. 1-2, pp. 9-16. <https://www.degruyter.com/downloadpdf/j/jengeo.2018.11.issue-1-2/jengeo-2018-0002/jengeo-2018-0002.pdf>
15. **Das BC (2017)**. Bathymetric and Chemical Analysis of an Ox-Bow Lake in View of Aquaculture. *Journal of Aquaculture & Marine Biology*, ISSN-2378-3184, Vol. 6, No. 6, pp. 1-5. <https://medcraveonline.com/JAMB/bathymetric-and-chemical-analysis-of-an-ox-bow-lake-in-view-of-aquaculture.html>
16. Biswas B, **Das BC (2016)**. Hydraulic Parameters and Morphometric Variables Interaction in Bedrock Channel. *Questions Geographicae*, Poland, ISSN: 0137-477X, Vol. 35, No. 3, pp. 75-88. <https://content.sciendo.com/view/journals/quageo/35/3/article-p75.xml>
17. **Das BC (2016)**. Crocodile–Tears for Jarwas. *Conscientia*, India. ISSN: 22788 – 6554, Vol. 4, No. 1, pp. 71-87
18. **Das BC (2015)**. Vertical Asymmetry of River Channel Cross-Sections: A Study on A Moribund Deltaic Channel. *Studia UBB Geographia*, Romania, ISSN: 0970-9258, January 1, 2015. Vol. LX, No. 2, pp. 45-51. <http://studiageographia.geografie.ubbcluj.ro/wp-content/uploads/2016/02/Das.pdf>
19. Guchhait SK, Islam A, Ghosh S, **Das BC**, Maji NK (2016). Role of Hydrological Regime, In-Channel and Floodplain Sediments in Channel Instability of Meandering Bhagirathi River, Ganga - Brahmaputra Delta, India. *Physical Geography, Taylor & Francis*, US. ISSN- 0272-3646, Vol. 37, No. 6, pp. 1-36. <https://www.tandfonline.com/doi/abs/10.1080/02723646.2016.1230986>
20. Islam, A and **Das BC (2015)**. Quantitative Indices to Measure Unit Channel Bar Location: A Theoretical and Empirical Study. *Ethiopian Journal of Environmental Studies & Management*, Ethiopia. ISSN:1998-0507, Vol. 8, No. 6, pp. 628-634. <https://www.ajol.info/index.php/ejesm/article/view/122042>
21. **Das BC**, Islam A (2015). Channel Asymmetry Of An Ox-Bow Lake: A Different Perspective. *International Journal of Ecosystem*, SAP, USA, p-ISSN: 2165-8889, e-ISSN: 2165-8919, Vol. 5, No. 3A, pp. 69-74 . <http://article.sapub.org/10.5923.c.ije.201501.10.html>

22. **Das BC, Das S (2015).** The Role Of Beels In Flood Mitigation- A Case Study Of Krishnanagar- II Block In Nadia District, West Bengal, India. *International Journal Of Innovative Research & Development*, India. ISSN 2278 – 0211 (Online), Vol. 4, No. 4, Pp. 397-401
23. **Das BC and Islam A (2015).** Formulation of Channel Bed-Asymmetry Indices and their Application to the River Jalangi, India. *Asian Profiles*, Hong Kong , ISSN: 0304-8675, Vol. 43, No. 5, pp. 457-463. <http://www.asianresearchservice.com/V43-5.pdf>. Or <file:///C:/Users/user/Desktop/10.5923.c.ije.201501.10.pdf>
24. **Das BC (2015).** Socio-economic Impact of a Decaying River on Fishermen: A Case Study of Taranipur Village, West Bengal. *International Journal of Research in Management Science & Technology*, India. ISSN: 2321-3264, Vol. 3, No. 4, pp. 141-149
25. **Das BC (2015).** Problem of Banning of Plastic Carry-Bags: A Case Study of Krishnagar Municipality, West Bengal. *The Geographer*, India. ISSN: 0072-0909, Vol. 62, No. 2, pp. 75-82
26. **Das BC (2015).** Modeling Of Most Efficient Channel Form: A Quantitative Approach. *Modeling Earth Systems and Environment*, Springer, ISSN 2363-6203, Vol. 1, No. 15, pp. 1-9. <https://link.springer.com/article/10.1007/s40808-015-0013-6>
27. **Das BC (2015).** In Search of Ideal Form-Ratio of Triangular Channel. *Studia UBB Geographia*, Romania, ISSN: 0970-9258, Vol. 59, No. 2, pp. 77-86
28. **Das BC (2015).** Fluvial History of the River Jalangi. *Nabadwip Puratatva Parishad Patrika*, India. ISSN- 2395-0005, Vol- XI, P- 86-102
29. **Das BC and Mukhopadhyay S (2015).** Comparison of Channel-Form Indices (C_fI) Between Lake and River Channels. *International Journal of Research in Management, Science & Technology*, India. ISSN: 2321-3264, Vol. 3, No. 3, pp. 60-63
30. **Das BC (2014).** Impact of In-Bed and On-Bank Soil Cutting By Brick Fields on Moribund Deltaic Rivers: A Study of Nadia River in West Bengal. *The NEHU Journal*, India. ISSN. 0972 - 8406, Vol. XII, No. 2, July - December 2014, Pp. 101-111
31. **Das BC (2014)** Alternative Tourism: Potency of Beels of C.D. Block Krishnagar-II. *Journal of Business and Management*, Taiwan. e-ISSN 2278-487X, p-ISSN 2319-7668. Dec. 2014, Vol. 16, Issue 12, Ver. III, 31-37.
32. **Das BC (2014).** Asymmetry of River Channel Cross-Sections: A Review. *International Journal of Research in Management Science & Technology*. India. ISSN: 2 321-3264, Vol. 2, No. 3, pp. 15-18

33. **Das BC (2014)**. Asymmetry of Ox-Bow Lake Channel. *Conscientia*, **India**. ISSN 2278-6554, vol. 2, No. 2, p. 66-72
34. **Das BC (2014)**. Asymmetry in River Channel below zero level and above zero level. *River Behaviour and Control*. River Research Institute, Haringhata, **India**. ISSN: 0970-9258, Vol. 35, Pp-19-28
35. **Das BC (2012)**. Origin Of Beels In Moribund-Delta Of West Bengal: A Case Study On Beels Of C. D. Block Krishnagar-II. *Conscientia*, , **India**. ISSN- 2278-6554, Vol. 2, No.1. p. 40-45
36. **Das BC (2012)**. Form-ratio of deltaic channels: a case study of the river Jalangi. *Conscientia*, **India**. ISSN 2278-6554, vol. 1, No. 3, P. 49-53

B) Chapters in Books:

1. Bhattacharya, S., Bhattacharya, H.N., **Das, B.C.**, Islam, A. (2022). Neotectonic Movements and Channel Evolution in the Indian Subcontinent: Issues, Challenges and Prospects. In: Bhattacharya, H.N., Bhattacharya, S., Das, B.C., Islam, A. (eds) *Himalayan Neotectonics and Channel Evolution*. Society of Earth Scientists Series. Springer, Cham. https://doi.org/10.1007/978-3-030-95435-2_1
2. Das BC, Deb Barman S and Islam A (2022). Influence of Neotectonics on Channel Evolution of Kameng River, North–East Himalaya. In Bhattacharya HN, Bhattacharya S, **Das BC**, Islam A (2022) Edited. *Himalayan Neotectonics and Channel Evolution*. ISBN978-3-030-95434-5. <https://doi.org/10.1007/978-3-030-95435-2>
3. Islam A, **Das BC**, Mahammad S, Ghosh P, Deb Barman S, Sarkar B (2021). Deforestation and its impact on sediment flux and channel morphodynamics of the Brahmani River Basin, India. In Shit et al. (24.6.2021) eds. *Forest Resources Resilience and Conflicts*. ISBN: 978-0-12-822931-6. Elsevier Inc. P-377-416. <https://doi.org/10.1016/B978-0-12-822931-6.00029-0>
4. **Das BC**, Ghosh S, IslamA and Roy S (2020). An Appraisal to Anthropogeomorphology of the Bhagirathi-Hooghly River System: Concepts, Ideas and Issues. In Das et al. (2020) eds. *Anthropogeomorphology of Bhagirathi-Hooghly River System in India*. ISBN (eBook) 9781003032373. Taylor & Francis Group. <https://doi.org/10.1201/9781003032373>
5. **Das BC** and Bhattacharya S (2020). The Jalangi: A Story of Killing of a Dying River. In Das et al. (2020) eds. *Anthropogeomorphology of Bhagirathi-Hooghly River System in India*. Taylor & Francis Group. ISBN (eBook) 9781003032373. <https://doi.org/10.1201/9781003032373>
6. **Das BC** and Das D (2020). The Anjana: A Journey from River to Canal. In Das et al. (2020) eds. *Anthropogeomorphology of Bhagirathi-Hooghly River System in India*. Taylor & Francis Group. ISBN (eBook) 9781003032373. <https://doi.org/10.1201/9781003032373>

7. Sarkar B, Islam A and **Das BC (2020)**. Anthro-Footprints on Churni River: A River of Stolen Water. In Das et al. (2020) eds. Anthropogeomorphology of Bhagirathi-Hooghly River System in India. **Taylor & Francis Group**. ISBN (eBook) 9781003032373. <https://doi.org/10.1201/9781003032373>
8. Islam A, Sarkar B, **Das BC**, Deb Barman S. (2020). Assessing Gully Asymmetry Based on Cross-Sectional Morphology: A Case of Gangani Badland of West Bengal, India in Shit P et al. (2019) Eds. Gully Erosion Studies from India and Surrounding Regions. **Springer Nature Switzerland AG**. ISBN 978-3-030-23242-9 ISBN 978-3-030-23243-6 (eBook) <https://doi.org/10.1007/978-3-030-23243-6> P.69-92
9. Barman SD, Islam A, **Das BC**, Mandal S, Pal SC (2019). Imprint of Neo-Tectonism in The Evolutionary Record along the Course of Khari River in Damodar Fan Delta of lower Ganga Basin. In Das et al (2019) Quaternary Geomorphology in India - Case Studies from the Lower Ganga Basin. **Springer**. ISSN 2366-8865. ISBN 978-3-319-90426-9. P. 105-126
10. **Das BC**, Ghosh S, Islam A (2019). Quaternary Geomorphology in India: Concepts, Advances and Applications. In Das et al (2019) Quaternary Geomorphology in India - Case Studies from the Lower Ganga Basin. **Springer**. ISSN 2366-8865. ISBN 978-3-319-90426-9. P. 105-126
11. **Das BC**, Islam A (2016). Analysis of Channel Asymmetry: A Different Perspective. In Das et al. (2016) Neo-Thinking on Ganges-Brahmaputra basin Geomorphology. **Springer**. ISBN – 13:978-3319264424. P. 33-42
12. **Das BC**, Islam A (2016). An Enquiry into Fitting Natural Channel Shape to Geometric Shape: A Study on River Jalangi, India. In Das et al. (2016) Neo-Thinking on Ganges-Brahmaputra basin Geomorphology. **Springer**. ISBN – 13:978-3319264424. P. 33-42
13. **Das BC**, Islam A (2015). Crying with the River: A Study on a Dying River and Her Famished Fishermen. In Ismail and Alam (2015) 'Life and Living Through Newer Spectrum of Geography. Mohit Publications, **New Delhi** 110 002, ISBN 978-81-7445-690-8, p. 3-22

C. Books:

1. Bhattacharya HN, Bhattacharya S, **Das BC**, Islam A (2022) Edited. Himalayan Neotectonics and Channel Evolution. ISBN978-3-030-95434-5. <https://doi.org/10.1007/978-3-030-95435-2>
2. **Das BC**, Ghosh S, Islam A, Roy S (2020). Anthropogeomorphology of Bhagirathi-Hooghly River System in India. ISBN 9780367557270. **Taylor & Francis Group**. <https://doi.org/10.1201/9781003032373>

3. **Das BC**, Ghosh S, Islam A (2019). Quaternary Geomorphology in India - Case Studies from the Lower Ganga Basin. *Springer*, ISSN 2366-8865, ISBN 978-3-319-90426-9, p. 224. <https://link.springer.com/book/10.1007/978-3-319-90427-6>
4. **Das BC**, Ghosh S, Islam A (2015). Neo-Thinking on Ganges –Brahmaputra Basin Geomorphology. *Springer*, ISSN 2194-315X, ISBN 978-3-319-26443-1, p. 177. <https://www.springer.com/gp/book/9783319264424>

D. Seminar Proceedings:

1. **Das BC** (2015). Teaching –Learning Problem Of Geography In Higher Education In West Bengal. In Proceedings of UGC Sponsored National Seminar on ‘Education for Sustainable Development in 21st Century’ At Union Christian Training College, Murshidabad. ISBN 658-81-929776-0-7, p. 84-87
2. **Das BC**, Dnyanoba KR (2015). Refugee For The Politics, By The Politics And Of The Politics: A Case Study On Dhubulia Refugee Colony, Nadia, West Bengal. In Souvenir, BCUD, Savitribai Phule Pune University Sponsored National Conference On Interdisciplinary Approach In Green Science (Iags-2015) 14th February 2015, ISBN – 978-93-81659-13-7, p. 86-96
3. **Das BC** (2014). Two Indices to Measure the Intensity of Meander. In ‘Landscape Ecology and Water Management’, Proceedings of IGU International Conference, Rohtak Conference, Vol- 2, Edited by Mehtab Singh, R.B. Singh, and M.I. Hassan, Published by **Springer**, Japan, ISSN:2198-3542, ISBN: 978-4-431-54870-6, p. 233-246
4. **Das BC** (2014). Anthropogenic causes of channel shifting and decaying of deltaic rivers: a study on the river Jalangi. In National Seminar on ‘Application of modern techniques for the management of contemporary environmental hazards and disasters’. Proceedings of UGC sponsored national seminar, published by Dept. of Geography, Haringhata Mahavidyalaya, West Bengal Edited by- D.K. Khan & Sayantani Nath (Bhadra), ISBN 978-81-929776-0-7, p. 92-105
5. **Das BC** (2014). Flood Mitigation And ‘Sujala Nadia’ Vs Urbanization: A Study on Problem And Prospects Of Recovering Of Anjana River. In National Seminar on ‘Application of modern techniques for the management of contemporary environmental hazards and disasters’. Proceedings of UGC sponsored national seminar, published by Dept. of Geography, Haringhata Mahavidyalaya, West Bengal Edited by- D.K. Khan & Sayantani Nath (Bhadra), ISBN 978-81-929776-0-7, p. 336-341
6. **Das BC** (2014). Taming Makes Wild. In UGC Sponsored National Seminar on ‘Contemporary Issues On Environment & Development In India And Adjacent Countries’, Edited By Sanjib Majumder, S., Sandhya Prakasan, Kolkata, Proceedings of UGC sponsored national seminar, ISBN: 978-81-928047-2-9, p. 91-98

14. Membership of Learned Societies/ Editorial Boards, etc.:

- i)** Konkan Geographers' Association (Life Member)
- ii)** Foundation of Practising Geographers, Kolkata (Life Member)
- iii)** Nabadwip Puratattva Parishad, Nabadwip, (Life Member)
- iv)** Paschim Banga Vigyam Mancha (PBVM), (Since 2014)

15. Patents: Nil

16. Awards:

Name	Name of the Granting Authority	Year	Type of Award (Monetary/Certificate)	Amount, if Monetary	Remarks
Dr. Haradhan Chatak	Nabadwip Puratattva Parishad	2012	Monetary + Certificate	Rs. 500/-	For the best paper in the Annual Seminar on History, Archeology and
Darshanik Arunprasad Sen Smriti	Nabadwip Puratattva Parishad	2013	Monetary + Certificate	Rs. 500/-	For the best paper in the Annual Seminar on History, Archeology and
Dr. Haradhan Chatak	Nabadwip Puratattva Parishad	2014	Monetary + Certificate	Rs. 500/-	For the best paper in the Annual Seminar on History, Archeology and
Dr. Haradhan Chatak	Nabadwip Puratattva Parishad	2017	Monetary + Certificate	Rs. 500/-	For the best paper in the Annual Seminar on History, Archeology and

17. Other notable activities:

Associated as editorial board member with two international journals and reviewed for six more journals. Member of the *Scientific Committee of IWC-2016* and *WRAA-2020 held at Sultan Qaboos University, Oman*.

18. Participation in Seminars/Symposia/Conferences/Workshops: More than 30

19. Participation in OP/RC:

Name of the Course/ Summer School	Place	Duration	Sponsoring Agency
Refresher Course	UGC- Academic Staff College (Ranchi University)	21 days (17.11.2016 to 07.12.2016)	UGC
Refresher Course	UGC- Academic Staff College (Rani Durgawati Viswavidyalaya, Jabalpur)	21 days (01.09. 2014- 20.09. 2014)	UGC
Refresher Course	Academic Staff College (University of Calcutta)	21 days (10.02.2005 – 02.03.2005)	UGC
Orientation Programme	Academic Staff College (University of Calcutta)	28 days (27.11.2006 – 23.12.2006)	UGC
Orientation Programme	Academic Staff College (The University of Burdwan)	28 days (03.06.2014 – 3.06.2014)	UGC

