

# Curriculum Vita of Runu Biswas

## Assistant Professor (Mathematics)

Open School

Bangladesh Open University, Gazipur-1705, Bangladesh

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## Area of Specialization and Research Interest

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Applied Mathematic; Advanced Fluid Mechanics using Lattice Boltzmann Metho; Classical Mechanics, Analytical and Numerical Methods for Partial Differential Equations; Modern Numerical Methods and Scientific Computing; Media Programs; Open and Distance Learning (ODL).

## Education Qualification

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- Ph. D, On Going, (2019-2020 session)
- Bachelor Education (2009)
- Master of Science with Thesis in Mathematics (2005)
- Bachelor of Science with Four Years Integrated Course in Mathematics (2004)
- Higher Secondary Certificate (HSC) — Science Group, 1999
- Secondary School Certificate (SSC) — Science Group, 1997

## Present Responsibilities and Duties

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Runu Biswas is responsible for preparing mathematical teaching and learning materials, including lectures, books, audio-video programs, and examination questions for different formal programs of the Open School, Bangladesh Open University. Her duties also include visiting examination centers, evaluating answer scripts, preparing results, and contributing to academic and administrative activities related to Open and Distance Learning.

## Professional Experience

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### Assistant Professor (Mathematics)

Open School, Bangladesh Open University, Gazipur-1705 (BOU): Since 02 October 2019 – Present

- Constructs and writes learning materials, including books, audio programs, and video programs for Open and Distance Learning (ODL);
- Designs course structures, learning objectives, lesson plans, and implementation strategies to achieve academic targets;
- Conducts graduate-level classes, including Mathematics for Managerial Decision;
- Prepares examination questions, evaluates answer scripts, and contributes to final result preparation

### Lecturer (Mathematics)

Open School, Bangladesh Open University, Gazipur-1705 (BOU): From 04 November 2012 – 01 October 2019.

- Constructing and writing the learning materials- books, audio and video programs for Open and Distance Learning (ODL)
- Designing course structure, learning objectives, lesson plans and implementation to meet targets
- Preparing the the questions for exams, answer sheet evaluation and preparing the final results

## Research Experience

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- **Ph.D. Research:** Ongoing
- **M.S. Thesis:** *Completeness of Non-Commutative Dedekind Prime Rings*

### Completed Project Works as Research Associate

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- *Challenges of Learning in Understanding Mathematics Course in Bangladesh Open University*
- *The Challenges and Barriers of Learning in Science Courses in BOU*

## Computer Skills

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- **Operating Systems:** MS Windows 98, XP, 2000, Windows 7, Windows 19
- **Application Programs:** MS Office, SPSS, Internet Browsing
- **Programming Languages and Tools:** C, C++, FORTRAN, MATLAB, TECHPLOT-360
- **Typing Skills:** Average typing ability in both English and Bengali.

## Participation in National and International Training, Workshops, conferences, and Seminars

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1. Participated in a training program titled “**Academic Writing: Copyright, OER and Plagiarism**”, organized by the Institutional Quality Assurance Cell (IQAC), Bangladesh Open University, held on 29 June 2026.
2. Participated in **2<sup>nd</sup> International Conference on Mechanical Manufacturing and Process Engineering (ICMMPE 2024)**, organized by Faculty of Mechanical Engineering, University of Engineering and Technology (DUET), Presented a paper held on 29-31 May 2024
3. Participated in the **International Conference on Mechanical, Manufacturing and Process Engineering (ICMMPE 2022)**, DUET, held from 25–27 June 2022.
4. Participated in **Self-Learning Material Development**, organized by the Commonwealth Educational Media Centre for Asia (CEMCA), Delhi, held from 12–16 October 2020 at Bangladesh Open University, Gazipur, Bangladesh
5. Participated in the **International Conference on Education in the Twenty-First Century**, organized by the Regional Institute of Education, Bhubaneswar, in collaboration with UNICEF and the Commonwealth Educational Media Centre for Asia, held from 21–23 February 2020.
6. Participated in the **Open University International Research Sessions 2018 (iOURS 2018)**, organized by The Open University of Sri Lanka, Sri Lanka, held on 29–30 November 2018.

7. Participated in the **International Conference on Developmental Interventions and Open Learning for Transforming Society**, organized by Krishna Kanta Handiqui Open University, Assam, India, held from 16–19 December 2017.
8. Participated in the **International Seminar on Reinventing Nationalism, Secularism and Plurality: Media Discourses and Deconstruction**, organized by the Department of Communication and Journalism, Gauhati University, Assam, India, in collaboration with the Department of Mass Communication, Mizoram University, Aizawl, India, held on 11–12 November 2017.
9. Participated in the **13th International Knowledge Globalization Conference Workshop on Achieving Excellence in Academic Research**, held at the International University of Business Agriculture and Technology (IUBAT) on 24 February 2018.
10. Completed **Life Skills for Engineers (Level 1)**, offered jointly by the Commonwealth Educational Media Centre for Asia (CEMCA) and the University of Hyderabad (UOH), from 15 May to 28 June 2018.
11. Participated in the **13th International Knowledge Globalization Conference Workshop on E-Learning: Use of Module, Level 1**, held at the International University of Business Agriculture and Technology (IUBAT) on 25 February 2018.
12. Participated in a training program organized by the **Centre for Advanced Research in Humanities, University of Dhaka**, held from 21–31 November 2016.
13. Participated in **Training on Virtual Tutoring through Zoom Platform**, organized by Open School, Bangladesh Open University, on 17 June 2020.
14. Participated in the **Capacity Enhancement Programme on Open Educational Resources for BOU Academics, Master Trainers' Program**, organized by Bangladesh Open University and the Commonwealth Educational Media Centre for Asia, India, held from 3–5 September 2016.

15. Participated in the **Capacity Building Workshop on Development of Content to Deliver Digitally**, organized by Bangladesh Open University and the Commonwealth Educational Media Centre for Asia, India, held from 19–23 January 2016.
16. Participated in the **Workshop on Gender Mainstreaming and Development of Gender Policy for BOU-OS**, organized by Bangladesh Open University and the Commonwealth of Learning, held from 27–29 May 2018.
17. Participated in the **Workshop on Capacity Enhancement Programme for Project Design and Development**, organized by Bangladesh Open University and the Commonwealth Educational Media Centre for Asia, India, held from 23–26 April 2018.
18. Participated in the **Workshop on Training of Trainers for Tutor Training**, organized by Bangladesh Open University and the Commonwealth of Learning, held from 21–24 March 2016.
19. Participated in the Workshop on Girls innovation Initiative, organized by Bangladesh Open University and the Commonwealth of Learning, held on 21 March 2013

## Journal Publications

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1. Biswas, R., Rahman, M. M., Khanom, A., & Taher, M. A. (2025). Heat transfer performance analysis through inline and staggered grooved microchannel using lattice Boltzmann method. *Energy and Thermofluids Engineering*, 5, 11–23. <https://doi.org/10.38208/ete.v5.752>
2. Khanom, A., Sohel, M. N., Biswas, R., Molla, M. M., & Taher, M. A. (2025). LBM simulation for analyzing the performance of sawtooth microchannels with positive and negative ramps. *Journal of Engineering Thermophysics*, 34(2), 401–413.
3. Biswas, R., Sohel, N., & Taher, M. A. (2024). Comparative study to analyze the overall performance of upstream and downstream wedge ribs microchannels using thermal lattice Boltzmann method. *Journal of*

*Engineering and Applied Science*, 71(1), 228. <https://doi.org/10.1186/s44147-024-00566-9>

4. Taher, M. A., Liton, M. M. R., Biswas, R., Chakma, P., & Lee, Y. W. (2022). Numerical analysis of thermal and flow friction in a lid-driven grooved enclosure using Lattice Boltzmann method. *Journal of Advanced Marine Engineering and Technology*, 46(1), 23–30. ISSN: 2234-7925.
5. Biswas, R. (2020). Analysis numerically and using the ranking formula: Causes of the loan classifications and impact on the profits of the Pubali Bank Limited. *IUBAT Review*, 3(1), 80–92.
6. Biswas, R. (2020). Learners' support services in distance education in the twenty-first century: A case study on HSC program of BOU. *Bangladesh Open University Journal of Teacher Education*, 7(1). ISSN: 1812-7517.
7. Biswas, R. (2020). Analysis numerically and using the ranking formula: Causes of the loan classification and impact on the profit of the Pubali Bank Limited. *IUBAT Review: A Multidisciplinary Academic Journal*, 3(1), 80–92.
8. Shahina, A., & Biswas, R. (2019). Violence against women: A case study on women workers in readymade garment industries in Bangladesh. *Journal of Social Sciences and Humanities*, 150–160. ISSN: 1811-1564.
9. Biswas, R. (2017). Learners' attitudes and perceptions on mathematics course of SSC program of BOU Open School. *Bangladesh Open University Journal of Open School*, 6(1), 59–70. ISSN: 1812-7525.
10. Miah, M., Hossain, T., & Biswas, R. (2017). Numerical study of Kermack-Macherndrik SIR model to predict the evaluation of yellow fever diseases using Euler method. *Jahangirnagar Journal of Mathematics and Mathematical Sciences*, XXX, 95–103. ISSN: 2219-5823.
11. Laboni, A., Biswas, R., & Sultana, S. A. (2016). Learners' support services at admission in Secondary and Higher Secondary Certificate Programme of BOU: Practices and opportunities. *Journal of Open School*, 5(1), 25–36. ISSN: 1812-7525.

12. Wahiduzzaman, M., Biswas, R., & Ali, E. (2016). Magneto-hydrodynamic forced convective boundary layer flow past a stretching/shrinking sheet. *J. Mech. Cont. & Math. Sci.*, 11(1), 7–20. ISSN: 0973-8975.
13. Wahiduzzaman, M., Biswas, R., Ali, Md. E., Khan, Md. S., & Karim, I. (2015). Numerical solution of MHD convection and mass transfer flow of viscous incompressible fluid about an inclined plate with Hall current and constant heat flux. *Journal of Applied Mathematics and Physics*, 3, 1688–1709.

### **Professional Membership**

- Lifetime Member, Bangladesh Mathematical Society

Signature

Runu Biswas