

Dr. Muhammad Nur-E-Alam Siddiquee

Associate Professor & Teacher Educator
Institute of Education and Research (IER), University of Dhaka

Profile Summary

Dr. Muhammad Nur-E-Alam Siddiquee is an Associate Professor at the Institute of Education and Research (IER), University of Dhaka, specializing in curriculum, teaching-learning materials, and teacher development. He holds a Ph.D. and M.Phil. in Education from Hiroshima University, Japan, following an earlier academic background in Botany at the University of Dhaka.

Over the course of his career, he has established himself as a seasoned teacher trainer and a pioneer in educational technology innovation, with a particular focus on formative assessment and inquiry-based pedagogy.

Key Contributions

- Contributed to national curriculum development in Bangladesh, playing a key role in transforming Primary Science and Mathematics education from a traditional approach to an Inquiry-based approach.
- Recognized as one of the seasoned teacher trainers in the country, delivering professional development programs for practicing teachers.
- A pioneer of educational technology innovation in teacher education, integrating ICT into teaching-learning practices.
- A formative assessment specialist, advancing classroom-based assessment practices that support student learning.
- Introduced Lesson Study as a model for teachers' lifelong professional development, adapting the Japanese Lesson Study approach to the Bangladeshi context.

Education

- Ph.D. in Education — Hiroshima University, Japan (2014)
- M.Phil. in Education — Hiroshima University, Japan (2011)
- Master's in Botany — University of Dhaka, Bangladesh (2001)
- Bachelor's in Botany — University of Dhaka, Bangladesh (2000)

Award

- Certificate of Merit (International) — Japan, 2013

Publications

Journal Articles

Mirza, M. M., Siddiquee, M. N. A., & Rezina, A. (2006). *Aleuritopteris grisea* (Blanford) Panigrahi: A new pteridophytic record for Bangladesh. *Bangladesh Journal of Plant Taxonomy*, 13(2), 173–175.

- Hossain, H. M., & Siddiquee, M. N. A. (2008/2009). Education for sustainable development in teacher education and training institutions of Bangladesh: A curriculum status analysis. *Teachers' World*, 33–34, 19–31.
- Siddiquee, M. N. A. (2010). Investigation of the science teachers' views on nature of science: A case of Bangladeshi primary schools. *The Dhaka University Studies*, 67(2), 199–219.
- Siddiquee, M. N. A. (2011). Secondary schools teachers' perception on the use of participatory method in teaching and learning: A case of Bangladesh. *NAEM Journal*, 6(12), 56–76.
- Siddiquee, M. N. A., & Ikeda, H. (2012). Science teachers' views on nature of science: A case of Bangladeshi secondary schools. *Bulgarian Journal of Science Education*, 21, 865–887.
- Siddiquee, M. N. A., & Ikeda, H. (2013). Science teachers' beliefs on teaching and learning at secondary schools in Bangladesh. *GSE Journal of Education*, 1, 37–63.
- Siddiquee, M. N. A., & Ikeda, H. (2013). Science talk in the secondary classrooms: Analysis of teachers' feedback. *European Scientific Journal*, 9, 87–104.
- Siddiquee, M. N. A., & Rezina, A. (2013). Beliefs regarding teaching and learning: A case of primary science teachers of Bangladesh. *International Journal of Research in Social Science*, 3(1), 461–482.
- Rezina, A., & Siddiquee, M. N. A. (2013). Analysis of science process skills in the secondary schools certificate biology theoretical examinations in Bangladesh. *International Journal of Physical & Social Sciences*, 3(3), 66–73.
- Shamim, M. R. H., Che Kum, C., Siddiquee, M. N. A., & Khan, M. A. A. (2013). Factors influencing use of ICT in teaching-learning process to make teaching-learning more effective and efficient: Case of polytechnic institutions in Bangladesh. *International Journal of Physical & Social Sciences*, 3(11), 222–243.
- Rezina, A., & Siddiquee, M. N. A. (2014). Analysis of activities in junior secondary science curriculum of Bangladesh: A focus on science process skills. *International Journal of Physical & Social Sciences*, 4(5), 85–101.
- Siddiquee, M. N. A., & Ikeda, H. (2014). Science talk in the secondary classroom of Bangladesh: Analysis of teachers' question in various lesson discussion. *International Journal of Physical & Social Sciences*, 4(4), 649–662.
- Siddiquee, M. N. A., & Kubota, K. (2018). Issues on implementing lesson study in Bangladesh context. *Faculty Journal of Informatics*, 47, 43–54.
- Siddiquee, M. N. A., & Kubota, K. (2019). Comparison of the interactive classroom cultures in Japan and Bangladesh. *Faculty Journal of Informatics*, 1, 15–20.
- Rony, M., Rashel, M. U., Siddiquee, M. N. A., & Shaiduzzaman, M. (2022). Primary teachers' knowledge, attitudes and practice towards blended education in Bangladesh. *NAEM Journal*, 17, 123–132.

Book Chapters

- National Curriculum and Textbook Board. (2021). Primary science textbook: Grade 3.
- National Curriculum and Textbook Board. (2021). Primary science textbook: Grade 4.
- National Curriculum and Textbook Board. (2021). Primary science textbook: Grade 5.

Contributions

- Asiatic Society of Bangladesh. (2005). Encyclopedia of flora and fauna of Bangladesh (Contributor).

Contact

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