

Teaching Experiences:

June 2016-Till date	Assistant Professor, Department of Mathematics, Chittagong University of Engineering and Technology (CUET), Chattogram-4349, Bangladesh
July 2014-June 2016	Lecturer, Department of Mathematics, Chittagong University of Engineering and Technology (CUET), Chattogram-4349, Bangladesh
September 2011-July 2014	Lecturer of Mathematics, Department of Electronics and Telecommunication Engineering (ETE), Southeast University, Dhaka-1213, Bangladesh

Education:

M.Phil. in Mathematics	Department of Mathematics Chittagong University of Engineering & Technology (CUET) Thesis Title: <i>Modeling and Simulation of the Effect of Irradiance Related Temperature on Microalgae Growth.</i> Supervisor: Prof. Dr. Ujjwal Kumar Deb Expected Graduation: February 2021
MS in Mathematics (Applied Branch)	Department of Mathematics University of Chittagong Year-2008 (Held in May-July 2010) Thesis Title: <i>Studies on the General Relativistic Cosmology and its Alternatives with Singularity-Free Cosmological Model.</i> Supervisor: Prof. Dr. Abul Kalam Azad Result: GPA – 3.96 (Out of 4.00) Merit: 2 nd in position (2 nd in Science Faculty)
B.Sc. (Honors) in Mathematics	Department of Mathematics University of Chittagong Year – 2007 (Held in March 2009) Result: CGPA – 3.92 (Out of 4.00) Merit: 1 st in position (1 st in Science Faculty)

Fellowship, Scholarship and Awards:

1. National Science, Information and Communication Technology (NSICT), Bangladesh fellowship 2011-2012 for M.S. thesis.
2. A F Mujibur Rahman Foundation Award (Gold Medal)-2009, Bangladesh for attaining first position in B.Sc. (Honors) in Mathematics.
3. Scholastic Achievement Award-2009 for outstanding result in the Faculty of Science (Faculty first) sponsored by Metropole Scholarship Parishad, Chittagong, Bangladesh.
4. University Merit Scholarship for B.Sc. (Honors) result.

Journal Papers:

1. Chowdury, K., Nahar, N. and Deb, U. (2020) The Growth Factors Involved in Microalgae Cultivation for Biofuel Production: A Review. *Computational Water, Energy, and Environmental Engineering*, **9**, 185-215. doi: [10.4236/cweee.2020.94012](https://doi.org/10.4236/cweee.2020.94012).
2. Deb, U., Shahriar, M., Bhowmik, J. and Chowdury, M. (2017) The Effect of Irradiance Related Temperature on Microalgae Growth in a Tubular Photo Bioreactor for Cleaner Energy. *American Journal of Computational Mathematics*, **7**, 371-384. doi: [10.4236/ajcm.2017.73026](https://doi.org/10.4236/ajcm.2017.73026).
3. M. K. H. Chowdury, M. G. Hafez, M. A. Akbar (2016). A New Class of Exact Traveling Wave Solutions to the Klein-Gordon Equation. *International Journal of Integrated Science and Technology (IJIST)*, **2**, 34-38.
4. Ali, M., Hafez, M., Chowdury, M. and Akter, M. (2016) Analytical and Traveling Wave Solutions to the Fifth Order Standard Sawada-Kotera Equation via the Generalized $\exp(-\Phi(\xi))$ -Expansion Method. *Journal of Applied Mathematics and Physics*, **4**, 262-271. doi: [10.4236/jamp.2016.42033](https://doi.org/10.4236/jamp.2016.42033).
5. M. G. Hafez, M. Y. Ali, M. K. H. Chowdury, M. A. Kauser (2016). Application of the $\exp(-\Phi(\eta))$ expansion method for solving nonlinear TRLW and Gardner equations. *International Journal of Mathematics and Computation*, **27**, 44-56.

Conference Papers:

1. M. K. H. Chowdury and M. R. Islam (2017). Singularity-Free Universe with a New Approach for the de-Sitter Model. *2nd International Conference on Physics for Sustainable Development and Technology (ICPSDT-2017)*, at Department of Physics, CUET, Chittagong-4349, Bangladesh.
2. M. K. H. Chowdury, M. G. Hafez, M. T. Akter (2015). Exact Traveling Wave Solutions of Nonlinear Schrödinger Equations through the Generalized $\exp(-\Phi(\xi))$ -Expansion Method. *1st International Conference on Mathematics and Its Applications (ICMA-2015)*, at Khulna University, Bangladesh.

3. M. K. H. Chowdury, M. G. Hafez, M. S. Alam, M. Y. Ali (2015). New analytical solutions for time fractional fifth order Sawada-Kotera equation through the $\exp(-\Phi(\xi))$ - expansion method with fractional complex transform. *19th International Mathematics Conference (IMC-2015)*, at BRAC University, Dhaka, Bangladesh.
4. M. G. Hafez, M. K. H. Chowdury, M. Y. Ali (2015). Traveling Wave Solutions for Space-Time Fractional Burgers Equation via an advanced $\exp(-\Phi(\xi))$ -expansion method. *1st National Conference on Mathematics and Its Applications (NCMA-2015)*, at Department of Mathematics, CUET, Chittagong-4349, Bangladesh.
5. M. K. H. Chowdury, M. G. Hafez, M. A. Akbar (2015). A New Class of Exact Traveling Waves Solutions to the Klein-Gordon Equation. *1st International Conference on Physics for Sustainable Development and Technology (ICPSDT-2015)*, at Department of Physics, CUET, Chittagong-4349, Bangladesh.