

Curriculum Vitae

Tahera Parvin

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Present address:

C/O: Md. Mohidul Islam

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Career objective:

Looking for a hard and challenging job where I will have the scope to utilize my potentiality, adaptability, and skill to do something innovative and from where I will be able to enhance my knowledge. I am always interested in learning new things.

Research Interest:

Mathematical modeling and simulations, mathematical ecology, biomathematics, behavior of communicable and non-communicable diseases, infectious disease modeling with optimal control, and transmission dynamics modeling.

Educational Qualifications:

2022 M.Sc. in Applied Mathematics

Mathematics Discipline

Science, Engineering & Technology School (SET)

Khulna University, Khulna-9208, Bangladesh

CGPA: 3.96 out of 4.00 (Distinction) **(95.80% marks out of 100%)**

at Khulna University, a distinction grade (at or above 3.75 in scale of 4.00) is the highest recognition. The cumulative grade point average (CGPA) measures the performance throughout the course including all subjects and semesters.

2020 B.Sc. (Hon's) in Mathematics

Mathematics Discipline

Science, Engineering & Technology School (SET)

Khulna University, Khulna-9208, Bangladesh

CGPA: 3.93 out of 4.00 (Distinction) **(93.40% marks out of 100%)**

Khulna University is one of the best public universities in Bangladesh. According to the Scimago institutions ranking, in 2021 Khulna University was 10th in research and 2nd in innovation in Bangladesh while 435th in research and 490th in innovation in

the world.

2014 Higher Secondary School Certificate (HSC)

Board of Intermediate and Secondary Education, Jashore
Chittra Mohila Mahabidyalaya (EIIN:117462), Terokhada, Khulna.
GPA: 5.00 (in scale of 5.00)

2012 Secondary School Certificate (SSC)

Board of Intermediate and Secondary Education, Jashore
Shaheed Smriti Secondary Girls' School (EIIN: 117441), Terokhada,
Khulna.
GPA: 5.00 (in scale of 5.00)

Experiences:

I am currently employed as a Lecturer at the University of Asia Pacific in Dhaka. My primary duties involve planning and delivering lectures on my specialist subject and fostering a deep understanding of the topic among my students. I am also responsible for creating educational materials, organizing tutorials and seminars, and engaging in social work. Additionally, I am an assistant editor at IEOM Society International, where I provide support to help the organization achieve its mission. My responsibilities include project management, team leadership, editing papers, contacting authors, and more. Previously, I was employed as a lecturer at the Northern University of Business and Technology in Khulna.

Membership:

I am the lifetime member of Bangladesh Society for Mathematical Biology (BSMB) and full member of Organization for Women in Science for the Developing World (OWSD).

Award:

NST Fellowship

Awarded "National Science and Technology (NST) Fellowship bearing ID: MSc-201203, Serial: 291, Merit: 77, No: 39.00.0000.012.002.06.21. Session: 2021-2022", based on M.Sc. thesis work by the Ministry of Science and Technology, Dhaka, Bangladesh.

Undergraduate university merit scholarship

In every semester for Excellency in result 2016-2020 (B.Sc.)

Computer Proficiency:

- Matlab, Maple, Mathematica, Compaq Visual Fortran
- Microsoft Word, Microsoft PowerPoint, Microsoft Excel, Math Type
- Have Expert Knowledge in MS Windows 2007, MS Windows 2010, MS Windows XP

➤ Tecplot 7 etc.

Language Proficiency:

English - fluent in reading, writing, listening, and speaking.

Published Articles:

A. Journal Publications

- i) T. Parvin, M. H. A. Biswas, and B. K. Datta, Mathematical Analysis of the Transmission Dynamics of Skin Cancer Caused by UV Radiation, *Journal of Applied Mathematics*, vol. 2022, Article ID 5445281, 22 pages, 2022. **DOI: <https://doi.org/10.1155/2022/5445281>.**
- ii) M. H. A. Biswas, S. A. Samad, T. Parvin, M. T. Islam and A. K. Supriatna, Optimal Control Strategy to Reduce the Infection of Pandemic HIV Associated with Tuberculosis, *COMMUN. BIOMATH. SCI.*, 5(1), 2022, pp. 20-39. **DOI: <https://doi.org/10.5614/cbms.2022.5.1.2>.**
- iii) M. A. Alim, M. Roy, M. S. Islam, T. Parvin and M. H. A. Biswas, Mathematical Analysis of an Ecological Model for Assessing the Emission of Air Pollutants, *Journal of Mathematical Sciences: Advances and Applications*, 68(1) (2021) 29–48. **DOI: http://dx.doi.org/10.18642/jmsaa_7100122221.**
- iv) T. Parvin, A. Islam, P. K. Mondal and M. H. A. Biswas, Discrete Type SIR Epidemic Model with Nonlinear Incidence Rate in Presence of Immunity, *WSEAS Transactions on Biology and Biomedicine*, 17: 104-118, 2020. **DOI: [10.37394/23208.2020.17.13](https://doi.org/10.37394/23208.2020.17.13).**

B. Book Chapter

- (i) T. Parvin and M. H. A. Biswas, Modeling on Transmission Dynamics of Skin Cancer due to the Exposure of Ultraviolet Radiation, *Recent Developments in Engineering & Technology*, Jaipur, India, 2022, **<http://anandice.ac.in/icrdet22/>.**

C. Conference Publications

- (i) T. Parvin and M. H. A. Biswas, Mathematical Modeling on Interrelation between Ultraviolet Radiation and Skin Cancer, *Proceedings of the Third International Conference on Industrial & Mechanical Engineering and Operations Management (IMEOM 2020)*, Dhaka, Bangladesh, held on December 18-19, 2020.
- (ii) T. Parvin and M. H. A. Biswas, Mathematical Modeling and Optimal Control Strategies for the Treatment of Breast Cancer, *Proceedings of the 11th Annual International Conference on Industrial Engineering and Operations Management*, held at Singapore on March 7-11, 2021, pp. 818-830.

References:

Dr. Md. Haider Ali Biswas

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Dr. Laker Ershad Ali

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