

# Md Tanvir Ahmed

University of Dhaka  
Dhaka-1000, Bangladesh

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## Academic Credentials

- 2022- **Master of Science in Nuclear Engineering**, *Department of Nuclear Engineering, University of Dhaka, Dhaka, Bangladesh*,  
CGPA: **3.98** out of 4.00  
Class Rank: 1<sup>st</sup>
- 2017-2022 **Bachelor of Science in Nuclear Engineering**, *Department of Nuclear Engineering, University of Dhaka, Dhaka, Bangladesh*  
CGPA: **3.91** out of 4.00  
Class Rank: 2<sup>nd</sup>

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## Work Experience

- May 2023- **Seminar Librarian**, *Department of Nuclear Engineering, University of Dhaka, Dhaka-1000*
- Dec'19- Jan'20 **Undergraduate Industrial Training**, *Non-destructive Testing Division (NDT), Atomic Energy Center, Dhaka-1000*  
During industrial training period numerous non-destructive testing methods namely Visual Inspection, Radiographic Testing, Dye Penetrating Testing, Ultrasonic Testing, Magnetic Particle Testing, Eddy Current Testing and Thermographic Testing had been taught.

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## Graduate Thesis

- Thesis Title **Annular fuel VVER 1000 reactor: Moderation Impact on Neutronic Behavior and Radiotoxicity Analysis of Spent Fuel**  
Supervised by: Dr. Afroza Shelley

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## Undergraduate Thesis

- Thesis Title **Burnup Characteristics of Transuranic Fuel with Burnable Poison in Dual Cooled Annular Rod of VVER-1000**  
Supervised by: Md. Hossain Sahadath

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## Academic Project

- Project Title **Design & Development of Reactor Control System of a Typical 1000 MWe PWR Reactor**  
Supervised by: Md. Hossain Sahadath

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## Technical Skills

Programming Language  
Computation expertise

C, C++, MATLAB, Python  
Dragon, OpenMC

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## Scholarships, Awards & Extra-curricular Activities

2022-23 National Science and Technology Fellowship-2022  
Oct' 2022 IFIC research scholarship-2022  
2022 Assistant Captain of Nuclear Engineering Cricket Team  
2022 Vice President, Engineering Faculty, University of Dhaka, Bangladesh Student League  
Oct' 2022 Poster presentation: **Neutronic Analysis and Fuel Cycle Parameters of Dual Cooled Assembly of Transuranic-UO<sub>2</sub> Fuel**  
Research and Publication Fair, University of Dhaka  
2019-20 General Secretary of OKLO- Nuclear Engineering Hall Community  
2019 Abdul Haque Munshi- Gulnagar Begum Memorial Scholarship  
2018-2019  
Nov' 2018 FABFEST-2018 organized by FABLAB DU.  
2017 Member of Dhaka University Student Association of Chuadanga  
2015 1<sup>st</sup> position in Social Science section of Creative Talent Search Competition-2015

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## Publication

International Journal **Ahmed, M. T., Sahadath, M. H., and Islam, M. A. (February 8, 2023). "Burnup Characteristics of Transuranic Fuel with Burnable Poison in Dual Cooled Annular Rod of VVER-1000." ASME. ASME J of Nuclear Rad Sci. July 2023; 9(3): 031501. <https://doi.org/10.1115/1.4055522>**