

**Selim Hussen**

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**About myself**, Selim Hussen was born in Habiganj, Bangladesh. Teaching is what he loves with his mind, and therefore, he has been teaching since 2019 at different universities. Before joining CUET, Mr. Hussen worked as a Lecturer in Mathematics at Hamdard University Bangladesh, University of Skill Enrichment and Technology, and Z.H. Sikder University of Science and Technology. Throughout his academic life, he has been meticulous in learning and likes to spread the light of knowledge. As recognition of his academic excellence, he has been awarded the Bangladesh Prime Minister Gold Medal Award, the A F Mujibur Rahman Foundation Gold Medal Award for the excellence of results in B.Sc. and M.Sc., Scholarship of University Grant Commission (UGC), Bangladesh, Jagannath University Merit Scholarship, and NST fellowships for his M.Sc. and MPhil programs. He has attended research conferences from home and abroad and always feels research interest. He always bears in mind that if one gives the world the best he has, the best will come to him in return.

## **Academic Background**

- MPhil. Fluid Dynamics, from the Department of Mathematics, Jagannath University, Dhaka, with specialization in Numerical Heat Transfer and fluid flows, Advanced Numerical Methods, and Fluid Dynamics. Year: 2025
- M.Sc. (Thesis). Mathematics, from the Department of Mathematics, Jagannath University, Dhaka, holding 1<sup>st</sup> position in order of merit with CGPA 4.00 on a scale of 4.00, Year: 2017, held in 2019
- B.Sc. (Hon's). Mathematics, from the Department of Mathematics, Jagannath University, Dhaka, holding 1<sup>st</sup> position in order of merit with CGPA 3.97 on a scale of 4.00, Year: 2016, held in 2017
- HSC. Science. Notre Dame College, Dhaka, in English Version with GPA-5.00, Year: 2011
- SSC. Science. Sylhet Board, with GPA-5.00, Year: 2009

## **Achievements**

- Bangladesh Prime Minister Gold Medal Award 2018 for the highest scorer in the faculty of Science, Jagannath University, Dhaka
- NST fellowship for MPhil program by the Ministry of Science and Technology, Bangladesh
- NST fellowship for M.Sc. (Thesis) program for the academic year 2019-2020 by the Ministry of Science and Technology, Bangladesh
- The A F Mujibur Rahman Foundation Gold Medal Award 2019 for the highest scorer in the Department of Mathematics, Jagannath University, Dhaka in B.Sc. Program.
- The A F Mujibur Rahman Foundation Gold Medal Award for the highest scorer in the Department of Mathematics, Jagannath University, Dhaka in the M.Sc. (Thesis) program.
- Scholarship of University Grant Commission (UGC), Bangladesh
- Jagannath University Merit Scholarship
- Merit scholarships in primary level (class five) and Junior level (Class -8). Stood first in the combined merit list of an academic evaluation test in class -8(secondary level) held in my District as a whole

### **Current Position:**

**(Academic) Assistant Professor**, Dept. of Mathematics, Chittagong University of Engineering & Technology (CUET), Chattagram-4349, Bangladesh (From March 14, 2024 to Now)

**(Administrative) Assistant Provost**, Muktijoddha Hall, Chittagong University of Engineering & Technology (CUET), Chattagram-4349, Bangladesh (From July 16, 2025 to Now)

### **Previous Experiences:**

- Lecturer, Dept of Mathematics, Chittagong University of Engineering & Technology (CUET), Chattagram-4349, Bangladesh (From December 19, 2021 to March 13, 2024)
- Lecturer, Department of Mathematics, Hamdard University Bangladesh (HUB), Hamdard Nagar, Gazaria, Munsiganj-1510, Bangladesh (from September 30, 2021 to December 18, 2021)
- Lecturer, Department of Engineering, University of Skill Enrichment and Technology, Siddhirganj, Narayanganj, Bangladesh (from May 1, 2020, to September 29, 2021)
- Lecturer in Mathematics, Department of Business Administration, Z.H. Sikder University of Science and Technology, Bhederganj, Shariatpur, Bangladesh (from November 13, 2019, to April 30, 2020)

### **Research interest**

Fluid dynamics, Heat transfer, stability analysis, and fluid flow through curved duct, Advanced Numerical Analysis, Group theory, Non-linear Dynamical System.

### **List of Publications**

SL	Title	Authors	Information	Year
01	Numerical Analysis of Steady and Unsteady Fluid Flow and Energy Distribution through a Curved Square Geometry Driven by Variable Pressure Gradients	<b>Selim Hussen,</b> Ratan Kumar Chanda,Tahmina Sultana, Rabindra Nath Mondal	Jagannath University Journal of Science, Bangladesh, ISSN 2224-1698, Vol 7, No-2, pp. 35-46, <a href="https://jnu.ac.bd/journal/portal/archives/science/7/2.jsp">https://jnu.ac.bd/journal/portal/archives/science/7/2.jsp</a>	2021
02	HYDROTHERMAL BEHAVIOR OF	<b>Selim Hussen,</b> Ratan Kumar	JOURNAL OF MECHANICS OF CONTINUA AND	2022

	FLUID FLOW AND HEAT TRANSFER THROUGH A BENDING SQUARE CHANNEL	Chanda, Rabindra Nath Mondal	MATHEMATICAL SCIENCES <b>Vol.-17, No.-1, pp 54-64</b> <a href="https://doi.org/10.26782/jmcms.2022.01.00004">https://doi.org/10.26782/jmcms.2022.01.00004</a>	
03	An Efficient Computational Technique for the Analysis of Telegraph Equation.	<b>Hussen, S.</b> , Uddin, M., & Karim, M. R.	<i>Journal of Engineering Advancements</i> , 3(03), 104–111. <a href="https://doi.org/10.38032/jea.2022.03.005">https://doi.org/10.38032/jea.2022.03.005</a>	2022
04	Chaos control and synchronization of modified Lorenz system using active control and backstepping scheme	Musammet Tahmina Akter, Absana Tarammim & <b>Selim Hussen</b>	Waves in Random and Complex Media, DOI:10.1080/17455030.2023.2205529	2023
05	Numerical study of solution structure and nonlinear behavior of Dean flow with vortex structure in a bending square duct	<b>Selim Hussen</b> , Md. Rashedul Islam, Rabindra Nath Mondal	<i>Physics of Fluids</i> 13 November 2023; 35 (11): 117116. <a href="https://doi.org/10.1063/5.0175180">https://doi.org/10.1063/5.0175180</a>	2023
06	Time-dependent Solution of Dean Flow through a Bent Square Duct with High Curvature	<b>Selim Hussen</b> , Md. Eleash Mia, Rifat Ara Rouf, Rabindra Nath Mondal	(June 24, 2024). Available at SSRN: <a href="https://ssrn.com/abstract=4874365">https://ssrn.com/abstract=4874365</a> or <a href="http://dx.doi.org/10.2139/ssrn.4874365">http://dx.doi.org/10.2139/ssrn.4874365</a>	2024
07	Flow instability and development of dean vortices in a bending rectangular channel with bottom wall heating and cooling from the ceiling	<b>Hussen, S.</b> , Chanda, R. K., Alam, M. S., & Mondal, R. N	<i>International Journal of Thermofluids</i> , 26 (2025) 101049 <a href="https://doi.org/10.1016/j.ijft.2024.101049">https://doi.org/10.1016/j.ijft.2024.101049</a>	2025
08	Non-linear Behavior of Transient Fluid Flow and Heat Transfer Mechanism through a Curved Rectangular	Sanjay Kumar Saha, Ratan Kumar Chanda, <b>Selim Hussen</b>	<b>accepted</b> for publication in AIP proceedings of BSME BUET Conference-2024. Paper duly	2025

	Duct of Large Aspect Ratio	and Rabindra Nath Mondal	presented in the conference at BUET in 2024, <b>to be published soon</b>	
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### International Conference Attended

1. Presented research articles at the Bangladesh Mathematical Society's 21st International Conference 2019, Dhaka, Bangladesh.
2. Presented research article in the International Two-Day Conference (Online) on Advanced Research and Development in Applied and Pure Mathematics (ARDAPM - 2021), India
3. Presented research article in the 14th International Conference on Mechanical Engineering (ICME-2023) at BUET, Bangladesh
4. Presented research articles at the International Conference on Mathematical Analysis and Applications in Modeling (ICMAAM-2024), CUET, Bangladesh

### References

**1. Dr. Md. Mizanor Rahman**

Professor and Chairman  
Department of Mathematics  
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**2. Dr. Rabindra Nath Mondal**

Professor  
**Supervisor (MPhil & MSc Program)**  
(Former Chairman & Dean-Faculty of Science, JnU)  
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**3. Dr. Musammet Tahmina Akter**

Professor and Former Head  
Department of Mathematics  
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**My Profile at Website:** My profile is available at the link <https://www.cuet.ac.bd/members/642>

**Declaration of Authenticity:**

I, the undersigned, declare that the information presented in this document is authentic to the fullest of my knowledge and describes my qualifications.

Sincerely yours



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**Selim Hussien**

Date: 14/08/2025