

Education

Jahangirnagar University

Bachelor of Science (BSc) Physics

Dhaka

Mar 2017 - Present

Cantonment College

Higher Secondary Certificate (HSC) Science, GPA: 5.00

Jessore

2014 - 2016

Police Line Secondary School

Secondary School Certificate (SSC) Science, GPA: 5.00

Jessore

2004 - 2014

Experience

International Astronomy and Astrophysics Competition (IAAC)

Student Ambassador

Jan 2020 - Present

- Encouraging students in Astronomy
- Helping the participants in the registration process
- Providing necessary guidelines for the contest

International Youth Math Challenge (IYMC)

Student Ambassador

Aug 2019 - Present

- Encouraging students in Mathematics
- Helping the participants in the registration process
- Providing necessary guidelines for the contest

Technical Skills

Programming Languages: C, C++, Python

Operating Systems: Windows 10, Linux (Ubuntu)

Word Processors: L^AT_EX, Microsoft Office

Markup Language: HTML

Participation and Awards

Participant (Jan 2021) *International Theoretical Physics Olympiad for Undergraduate Students*
My team (Team name: Tachyon) participated in the International Theoretical Physics Olympiad for Undergraduate Students 2021 held on 30th to 31st January.

Accomplished Competitor (Jan 2021) *The University Physics Competition*
My team (Team no. 194) ranked as an Accomplished Competitor on 'Problem A' in The 2020 University Physics Competition held on 7th to 9th November.

Participant (Jan 2021) *Society for Makers, Artists, Researchers and Technologists (SMART), USA*
I ranked 63th in the '3rd Online Maths Olympiad 2021' held on 10th January on the website page:
<https://www.codechef.com/IEMATH3>

Bronze Honour Winner (Dec 2020) *International Youth Math Challenge*
I have achieved Bronze Honour for being placed among the top 15% of all participants in International Youth Math Challenge 2020.

Participant (Nov 2020) *FYKOS – Internet Physics Competition*
My team (Team name: Tachyon) has placed 88th place in category open in the 10th year of international competition in Physics 'Online Physics Brawl' held on 26th November on the internet page physicsbrawl.org

Bronze Honour Winner (Jul 2020) *International Astronomy and Astrophysics Competition*
I have achieved Bronze Honour for being placed among the top 20% of all participants in the International Astronomy and Astrophysics Competition edition of 2020.

Participant (Apr 2020) *International Theoretical Physics Olympiad for Undergraduate Students*
My team (Team name: Tachyon) has placed 25th position in the International Theoretical Physics Olympiad for Undergraduate Students 2020.

Silver Medal Winner (Jan 2020) *The University Physics Competition*
My team (Team no. 151) has been ranked as a Silver Medal Winner on 'Problem A' in The 2019 University Physics Competition.

Bronze Honour Winner (Dec 2019) *International Youth Math Challenge*
I have achieved Bronze Honour for being placed among the top 15% of all participants in the International Youth Math Challenge 2019.

Participant (Nov 2019) *Bangladesh Mathematical Society*
I have participated on the '11th Undergraduate Mathematical Olympiad (Dhaka North Region)' held on 29th November at Jahangirnagar University.

Participant (Nov 2019) *FYKOS – Internet Physics Competition*
My team (Team name: Tachyon) has placed 60th place in category open in the 9th year of international competition in Physics 'Online Physics Brawl' held on 27th November on the internet page physicsbrawl.org

Participant (Apr 2019) *Islamic University of Technology*
I have participated on the 'IUT 10th ICT Fest Math Olympiad' at Islamic University of Technology.

Accomplished Competitor (Jan 2019) *The University Physics Competition*
My team (Team no. 225) has been ranked as an Accomplished Competitor on 'Problem A' in The 2018 University Physics Competition.

Regional Prize Winner (Nov 2018) *Bangladesh Mathematical Society*

I achieved prize on the '10th Undergraduate Mathematical Olympiad (Dhaka North Region)' held on 9th November at Independent University. Then I have participated on the 'National Round' held on 8th December at Bangladesh University of Engineering and Technology.

Participant (Dec 2017)

Bangladesh Mathematical Society

I have participated on the '9th Undergraduate Mathematical Olympiad (Dhaka North Region)' held on 1st December at Dahaka University of Engineering and Technology.

Participant (Apr 2017)

Satyen Bose Science Club (SBSC)

I have participated on the 'SBSC National Astro Olympiad' held on 24th April at Bangladesh University of Engineering and Technology.

Regional Prize Winner (2012 & 2016)

Bangladesh Mathematical Olympiad Committee (BdMOC)

I achieved prize on the 'Regional Round' and participated on the 'National Round' of Bangladesh Mathematical Olympiad in the category Junior (in 2012) & Higher Secondary (in 2016) respectively.

Participant (2009 to 2015)

Bangladesh Mathematical Olympiad Committee (BdMOC)

I participated on the 'Regional Round' of Bangladesh Mathematical Olympiad from the year 2009 to 2015 in the respective categories.

Projects

Console Game: Memorize Your Move

Python

<https://github.com/rafisics/memorize-your-move>

The project 'Memorize Your Move' was assigned to me in the online course camp 'Python: Anybody Can Code' by Jahangirnagar University Computer Club.

Additional Courses

Python for Data Science

Jahangirnagar University Higher Study Club (JUHSC)

Dec 2020

18.031x: Introduction to Differential Equations

edX

Sep 2020

Credential ID: 0250b7436f4a424387b2c867ef43c642

009x: Stochastic Processes: Data Analysis and Computer Simulation

edX

Aug 2020

Credential ID: 20b46f24682b40cbb3588df5018bd7e4

Python - Anybody Can Code

JU Computer Club

Jul 2020

Mind Control: Managing Your Mental Health During COVID-19

Coursera

Jul 2020

Credential ID: NRLN6NTTM2MV

Using Python to Access Web Data

Coursera

Jun 2020

Credential ID: FWZ7UR3TY78K

Python Data Structure

Coursera

May 2020

Credential ID: 4UG6L46JPU9K

Learning How to Learn: Powerful mental tools to help you master tough subjects *Coursera*

May 2020

Credential ID: ZAD2N75KJNDJ

Programming for Everybody (Getting Started with Python)

Coursera

May 2020

Credential ID: 8JWW876QC27A

Workshops & Seminars

Seminar on Introductory Guidelines for University Physics Competition

Oct 31, 2020

Facilitator

2nd Workshop on Classical Electromagnetism: Tesla's Gift

Community of Physics

Oct 25-29, 2020

Participant

3rd Workshop on Differential Equations: A Gateway to Physics

Community of Physics

Oct 6-9, 2019

Participant

Workshop on L^AT_EX

IEEE Student Branch, Jahangirnagar University

Apr 5, 2018

Participant

2nd Workshop on Relativity: A Tale of Spacetime

Community of Physics

Feb 26 - Mar 3, 2018

Participant

2nd Workshop on Vector Calculus: A Story of Curved Space

Community of Physics

Sep 27 - Oct 2, 2017

Participant

Workshop on L^AT_EX

Dhaka University Science Society

Mar 31 - Apr 1, 2017

Participant