

## 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

### Biggan Blog

*Content Writer*

Jun 2016 - Present

- Writing blogs and articles especially on Physics topics in my native language
- Encouraging the readers towards science and science-learning

## Technical Skills

**Programming Languages:** C, C++, Python, R

**Operating Systems:** Windows 10, Linux (Ubuntu)

**Word Processors:** L<sup>A</sup>T<sub>E</sub>X, 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](http://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](http://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  $\text{\LaTeX}$**

*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<sup>A</sup>T<sub>E</sub>X**  
Mar 31 - Apr 1, 2017  
Participant

*Dhaka University Science Society*