

# Webinar On Mathematical Modelling of Atmospheric Vortices

(May 17, 2022)

Organized by

Department of Mathematics,  
Rajiv Gandhi University  
(A Central University),

Itanagar, Arunachal Pradesh-791112



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## MEMBERS

**Prof. Sahin Ahmed**, RGU.  
**Dr. Saifur Rahman**, Associate Prof., RGU.  
**Mrs. Dakjum Eshi**, Assistant Prof., RGU.

## ABOUT THE WEBINAR

Mathematical modelling plays an important role in analyzing the physical behaviour of real-life problems by involving the multidisciplinary domains of science and engineering. The Government of India has recently announced the National Education Policy which focusses on interdisciplinary studies and research by involving the multidisciplinary domains of science and engineering and their application in various fields. This webinar provides introduction to mathematical modeling and applications to atmospheric vortices such as whirlwinds, dust-devils, tornadoes and tropical cyclones etc. It will provide participants with necessary fundamental knowledge of mathematical modeling to solve the problems of atmospheric vortices and other real-life problems. This webinar also covers the current and future application to solve the problems using mathematical modeling concept through different mathematical tools including mathematical modelling through differential equations.

## ABOUT THE DEPARTMENT

The Department of Mathematics is an important constituent of the faculty of Basic Sciences since 2005, the year when it was established. The department offers two-years (Four Semesters) M.A./M.Sc. programme in Mathematics and Computing. In addition, the Department offers Ph. D. programme in Mathematics and Computing in different research areas of Pure and Applied Mathematics. The faculty members are specialized in various areas of Algebra, Analysis, Atmospheric Vortex Dynamics, Fluid Dynamics and Number Theory. The department aims to train people who are oriented towards research and teaching in advanced areas of Pure and Applied Mathematics. The objectives of the Department are to impart quality education through M. Sc. and Ph. D. programmes, promote theoretical and applied research, and develop interaction with other Departments of the university and other organizations.

## ABOUT THE UNIVERSITY

The Rajiv Gandhi University (formerly Arunachal University) is the premier institution for higher education in the state of Arunachal Pradesh located at the picturesque tabloid of Rono Hills approximately 25 km away from the state capital Itanagar. Late Smt. Indira Gandhi, the then Prime Minister of India, laid the foundation stone of the University on 4th February 1984 at Rono Hills. Ever since its inception, the University has been trying to achieve excellence and fulfill the objectives as envisaged in the Univer-

sity Act. The University was recognized as a Central University in the year 2007 established under the Act of Parliament. Being the lone Central University of the State at present there are Thirty-Six (36) Departments and Three (03) Institutes functioning under Eleven (11) Academic Faculties. The faculty members have been actively engaged in research activities. The University has been maintaining its academic credibility and has been recognized by UGC as a center with potential for excellence. Rajiv Gandhi University (RGU), the lone central varsity in Arunachal Pradesh, has secured the second position among all central varsities in the country. Rajiv Gandhi University, Arunachal Pradesh has also been awarded the title of Best Central University of the Year 2020 during the 3rd Himalayan Educators Summit-2020 and 3rd Divya Himgiri Himalayan State Education Excellence Award-2020 to recognize the efforts of leading educational institutes of the Himalayan States that are substantially contributing to the Education sector.

## PROGRAMME OBJECTIVES

The present webinar will be focused to understand the basic concepts of mathematical modelling and applications, particular to modelling of atmospheric vortices.

## REGISTRATION AND IMPORTANT DATES

Registration Link: **For registration click here**

Last date of Registration: **16/05/2022**.

Registration Fee: NIL

The certificates will be issued on satisfactory attendance.

For more details: **click here**

## TARGET PARTICIPANTS

The faculty members, Research Scholars, UG students and PG students from various Universities/ Institutions.

## ADDRESS FOR CORRESPONDENCE

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