



University of  
Lucknow  
लखनऊ  
विश्वविद्यालय



Bharata Ganita  
Parisad  
भारत गणित परिषद



**WEBINAR & TECHNICAL SESSION ON  
"MATHEMATICAL MODELING AND THE PANDEMIC"  
DURING 12-13 DECEMBER, 2020  
JOINTLY ORGANISED BY BHARATA GANITA PARISAD &  
DEPARTMENT OF MATHEMATICS & ASTRONOMY  
UNIVERSITY OF LUCKNOW**



Prof. Alok Kumar Rai,  
Hon'ble Vice Chancellor,  
University of Lucknow,  
Lucknow.



Prof. Manjul Gupta,  
President, Bharata Ganita Parisad,  
Department of Mathematics,  
IIT Kanpur, Kanpur.

**INVITED SPEAKERS**



Prof Somesh K Mathur,  
Department of  
Economics,  
IIT Kanpur, Kanpur



Prof Arvind Mishra  
Department of  
Mathematics,  
BHU, Varanasi.



Dr. Prashant Kr Srivastava,  
Department of  
Mathematics,  
IIT Patna.



Dr Rana D Prashad,  
Department of  
Mathematics,  
Iowa State University, USA

**CONVENOR AND CONTACT PERSON**



**Convenor:**

Prof Poonam Sharma,  
Head, Department of  
Mathematics and Astronomy,  
University of Lucknow,  
Lucknow.



**Contact:**

Dr Pankaj Mathur,  
General Secretary, BGP,  
Department of Mathematics and  
Astronomy, LU, Lucknow.  
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For more information and registration of the webinar, please visit

<https://docs.google.com/forms/d/e/1FAIpQLSfWfHjxPVjG5Yr94mUHR6t45e9fRLaC0ErFHKVbsQLtgqVs9w/viewform?vc=0&c=0&w=1&flr=0&gxids=7628>



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## AIM OF THE WEBINAR & TECHNICAL SESSION:

Mathematical modeling (MM) has shown its importance in the study of problems related to physical sciences, biological sciences, social and political sciences etc. It has been one of the major tools in not only predicting the effects of Covid19 virus but has also been able to suggest possible control measures of the pandemic. The economic, social and political effects during the lockdown period were also evaluated with the help of MM. As such Bharata Ganita Parisad (BGP) and Department of Mathematics and Astronomy, University of Lucknow are jointly organizing this webinar & technical session, whose focus would be Mathematical modeling, Dynamical systems, ANN, Econometric investigations etc. related to Pandemic.

## ABOUT BHARATA GANITA PARISAD:

Bharata Ganita Parisad (BGP) is a non profitable educational society instituted for the promotion of Mathematics and Mathematical culture. Ever since its inception in 1950, the Parisad has been holding annual conferences and publishes a journal GANITA having 2 volumes each year. BGP also organizes different activities like conferences, Mathematical Lecture series, workshops etc. the details of which are given on the website [www.https://bharataganitaparisad.com/](http://www.https://bharataganitaparisad.com/)

## Tentative Academic Program schedule

### 12<sup>th</sup> DECEMBER, 2020 (SATURDAY)

- 11.00 AM - 11.40 AM INAUGURAL SESSION
- 11.45 AM - 12.45 PM Key Note Lecture by Prof Somesh K Mathur, IITK  
Topic: Economics of Lockdown.
- 12.50 PM - 1.50 PM Lecture by Dr Prashant Kr Srivastava, IIT Patna.  
Topic: Mathematical Modeling and Covid-19: Inference and Control.
- 2.00 PM - 4.00 PM Paper Presentations

### 13<sup>th</sup> DECEMBER, 2020 (SUNDAY)

- 8.45 AM - 9.45 AM Lecture by Prof Rana D Prashad, Iowa State University, USA  
Topic: TBA
- 10.00 AM - 11.00 PM Lecture by Prof Arvind Mishra, Department of Mathematics, BHU  
Topic: TBA
- 11.15 AM - 1.45 PM Paper Presentations
- 2.00 PM Valedictory.

For more information and registration of the webinar, please visit

<https://docs.google.com/forms/d/e/1FAIpQLSfWfHjxPVjG5Yr94mUHR6t45e9fRLaC0ErFHKVbsQLtgaVs9w/viewform?vc=0&c=0&w=1&flr=0&gxids=7628>