

JAI SHREE KRISHNA



**National Conference on Mathematical Modelling  
with Differential Equations  
NCMMDE-2020**

**14th - 17th October 2020**



**ORGANISED BY**

**Post Graduate & Research Department of Mathematics**

**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV**

**COLLEGE (Autonomous)**

**Linguistic Minority Institution**

**College with Potential for Excellence**

**833, "Gokul Bagh" E.V.R. Periyar Salai,**

**Arumbakkam, Chennai – 600 106**

**Phone: 044-23635101**

**Day 1  
Inauguration**



**Welcome Address: 9.30 am**  
**Shri Ashok Kumar Mundhra**  
Secretary, D G Vaishnav College, Chennai.



**Felicitations : 9.40 am**  
**Dr. S. Santhosh Baboo**  
Principal, D G Vaishnav College, Chennai.



**About the Conference: 9.50 am**  
**Prof. R. Venkataramanan**  
Convenor & Head  
P G & Research Department of Mathematics  
D G Vaishnav College, Chennai.



**Invited Talk: I - 10 am to 11 am**  
**Topic: Better mathematical modelling by  
understanding differential equations**  
**Dr. P.G. Siddheshwar**  
Senior Professor, Department of Mathematics  
CHRIST (Deemed to be University) Bengaluru



**Invited Talk: II - 11.30 am to 12.30 pm**  
**Topic: On the String Equation of Narasimha**  
**Dr. A.S. Vasudeva Murthy**  
Professor, Department of Mathematics,  
TIFR, CAM Bangalore.



**Invited Talk: III - 2pm to 3 pm**  
**Topic: Mathematical Models of Ordinary Differential  
Equations in Bioscience**  
**Dr. Deepak Kumar**  
Professor, Department of Mathematics,  
Faculty of Engineering & Technology  
Manav Rachna International Institute of Research  
& Studies, Faridabad.



**Invited Talk IV - 3.30pm to 4.30 pm:**  
**Topic: Higher order fitted Operator Numerical scheme  
For Singularly Perturbed Delay Differential Equations**  
**Dr. S. Dinesh Kumar**  
Assistant Professor, Department of Mathematics  
School of Advanced Sciences, VIT Vellore

## Day 2



**Invited Talk: V 10am to 11 am**  
**Topic: Modelling the Effect of Industrial Development on the Depletion of Forestry Resources Affecting Wildlife Species**  
**Prof. Manju Agrawal**  
Department of Mathematics,  
University of Lucknow, U.P., India



**Invited Talk: VI - 11.30 am to 12.30 pm**  
**Topic: A Domain Decomposition HPM for solving a Class of Singular Boundary Value Problems**  
**Dr. Ujwal Warbhe**  
Assistant Professor  
Department of Mathematics  
NIT Srinagar, India



**Invited Talk: VII - 2pm to 3pm**  
**Topic: Infectious Disease Modelling**  
**Dr. S. Minirani**  
Associate Professor in Mathematics,  
Department of Basic Sciences & Humanities,  
MPSTME, NMIMS, Deemed to be University,  
Mumbai, India

PAPER PRESENTATION  
SESSION I  
3.30pm to 4.30 pm

## Day 3



**Invited Talk: VIII - 10 am to 11 am**  
**Topic: Fractional Differential Equations and its Applications**  
**Dr. P. Balasubramaniam**  
Professor & Head, Department of Mathematics  
Director International Programme  
Former Registrar, Gandhigram Rural Institute  
(Deemed to be University), Gandhigram (post),  
Dindigul, Tamilnadu, India.



**Invited Talk: IX- 11.30 am to 12.30 pm**  
**Topic: Mathematical Modelling: A Boon for Optimal Decision Making**  
**Dr. Vijay Kumar**  
Professor, Department of Mathematics,  
Faculty of Engineering & Technology  
Manav Rachna International Institute of Research &  
Studies, (Deemed to be University), Faridabad.



**Invited Talk: X - 2 pm to 3 pm**  
**Topic: An Introduction to Epidemic Modelling: Spread & Control of Infectious Diseases**  
**Dr. Pragya Mishra**  
Assistant Professor, Department of Mathematics,  
PT. Deen Dayal Upadhyay Govt. Girls P G Colleges,  
Rajaji Puram, Lucknow, India

PAPER PRESENTATION  
SESSION 2  
3.30pm to 4.30 pm

## Day 4

PAPER PRESENTATION  
SESSION 3  
10 am to 11 am

PAPER PRESENTATION  
SESSION 4  
11 am to 12 Noon

### Valedictory Function: 2 pm to 3 pm



**Valedictory Address :**

**Dr. M. Sankar**

Professor, Department of Mathematics,  
School of Engineering  
Presidency University, Bengaluru, India

