



**DEPARTMENT OF MATHEMATICS**  
**UNIVERSITY OF KASHMIR, SRINAGAR-190006**

**Jammu and Kashmir, India**

(NAAC Accredited Grade A<sup>+</sup> University)

**2-Day National Conference on**  
**Emerging Trends in Mathematics-Its Applications and**  
**Celebration of Mathematics Day**

**(December 15-16, 2020)**

(Funded by JKDST)

***Schedule of the Programme***

<b>Day-1 (Tuesday), 15-12-2020</b>							
10.30-11.00 AM	11.00-12.00 Noon	12.00-12.30PM	12.30-1.10PM	1.10-2.00 PM	2.00-2.40PM	2.40- 4.30PM	
Registration	Inaugural Session	High Tea	Lecture-1 (AB)	Lunch Break	Lecture-2 (DB)	Abs-01 to Abs-06	
<b>Day-2 (Wednesday), 16-12-2020</b>							
10.50-11.20 AM	11.20-11.30 Noon	11.30-12.10PM	12.15-12.55 PM	12.55-1.45 PM	1.45-2.25 PM	2.30-3.10PM	3.10-4.30 PM
Lecture-3 (MAK)	Tea Break	Lecture-4 (MAS)	Lecture-5 (CSR)	Lunch Break	Lecture-6 (PGS)	Lecture-7 (APS)	Abs-07 to Abs-12

***Invited Speakers:***

DB: **Prof. Daniel Breaz:** Some univalent criteria for Integral operators.

CSR: **Prof. C.S. Rajan:** Additive eigenvalue problem and representation theory.

PGS: **Prof. P.G. Siddheshwar:** How to extract physics from the MATHEMATICS that I know?

MAS: **Prof. M.A. Sofi:** Social Distancing – A Mathematical Perspective.

APS: **Prof. A.P. Singh:** On Bungee sets of transcendental entire functions.

AB: **Prof. Amitava Bhattacharya:** Combinatorics.

MAK: **Dr. M.A. Khanday:** Life history and contributions of S. Ramanujan.

**Paper's selected for presentation:**

- Abs-01: On distance Laplacian (signless) eigenvalues of commuting graphs of dihedral and dicyclic groups: Bial Ahmad Rather
- Abs-02: On the number of transitive relations on a set: Firdous Ahmad Mala
- Abs-03: On  $A\alpha$  spectrum and energy of graphs: Rezwan ul Shaban
- Abs-04: Varieties of Commutative Semigroups Closed Under Dominions: Muneer Nabi
- Abs-05: A mathematical model of pulmonary and intravenous administration of oxygen in biological tissues under hypoxia conditions: Ahsan Ul Haq Lone
- Abs-06: Growth Estimates of Derivative of a Polynomial: ABRAR AHMAD
- Abs-07: On Conjugacy in Semigroups. Mohd Rafiq Parray
- Abs-08: Some Inequalities for Rational Functions with Fixed Poles: ADIL HUSSAIN MALIK
- Abs-09: On Automorphisms of Poideals of Transformation Posemigroup. Dilawar Juneed Mir.
- Abs-10: Mathematical and Statistical Analysis of the spread of Communicable Diseases with special reference to COVID-19: Faizan Ahmad Zargar
- Abs-11: SOME SATURATED VARIETIES OF POSEMIGROUPS: SAKEENA BANO
- Abs-12: Co-infection transmission between dengue and malaria fractional order epidemic model

Sd/= **Dr. M.A. Khanday**  
(Organizing Secretary)