



# Government College (Autonomous) Rajahmundry

(Affiliated to Adikavi Nannaya University)

Accredited with NAAC A+ in RAF-2017 (CGPA 3.38/4.00)

College with Potential for Excellence

East Godavari District, Andhra Pradesh, India-533 105



## DEPARTMENT OF MATHEMATICS

### NEILS HENRIK ABEL'S BIRTHDAY CELEBRATIONS

The Department of Mathematics is going to conduct a Guest Lecture on Neils Henrik Abel life & His contributions towards Mathematics on the occasion of Neils Henrik Abel's Birthday on 5<sup>th</sup> august at 3 PM – 4:30 PM

#### Life of Neils Henrik Abel




**Neils Henrik Abel (5<sup>th</sup> august 1802 – 6<sup>th</sup> april 1829)**

Neils Henrik Abel was a Norwegian mathematician who made pioneering contributions in a variety of fields. His most famous single result is the first complete proof demonstrating the impossibility of solving the general quintic equation in radicals. He was also an innovator in the field of elliptic functions, discoverer of Abelian functions.

Most of his work was done in six or seven years of his working life. Regarding Abel, the French mathematician Charles Hermite said: "Abel has left mathematicians enough to keep them busy for five hundred years."

The Abel Prize in mathematics, originally proposed in 1899 to complement the Nobel Prizes, is named in his honour.

#### Requirements

- ✓ Participants are expected to have a laptop/desktop with good internet connection (At least 2Mbps). However, Two Gadgets (i.e. Laptop/Desktop with webcam and smart phone are essential for active participation in final assessment)
- ✓ Program will be organized through **Google Meet Platform** 

#### Guest Lecture By



**Dr. T. Eswarlal**  
Associate Professor  
Department of Mathematics  
K L U (Deemed to be University)  
Guntur

**TOPIC** :life of Abel and his contribution towards Mathematics.

#### Organized Through Google Meet

##### Chief Patron

Dr. R. David Kumar Swamy,  
Principal, Government Autonomous College  
& JDCE, Rajahmundry

##### Convener

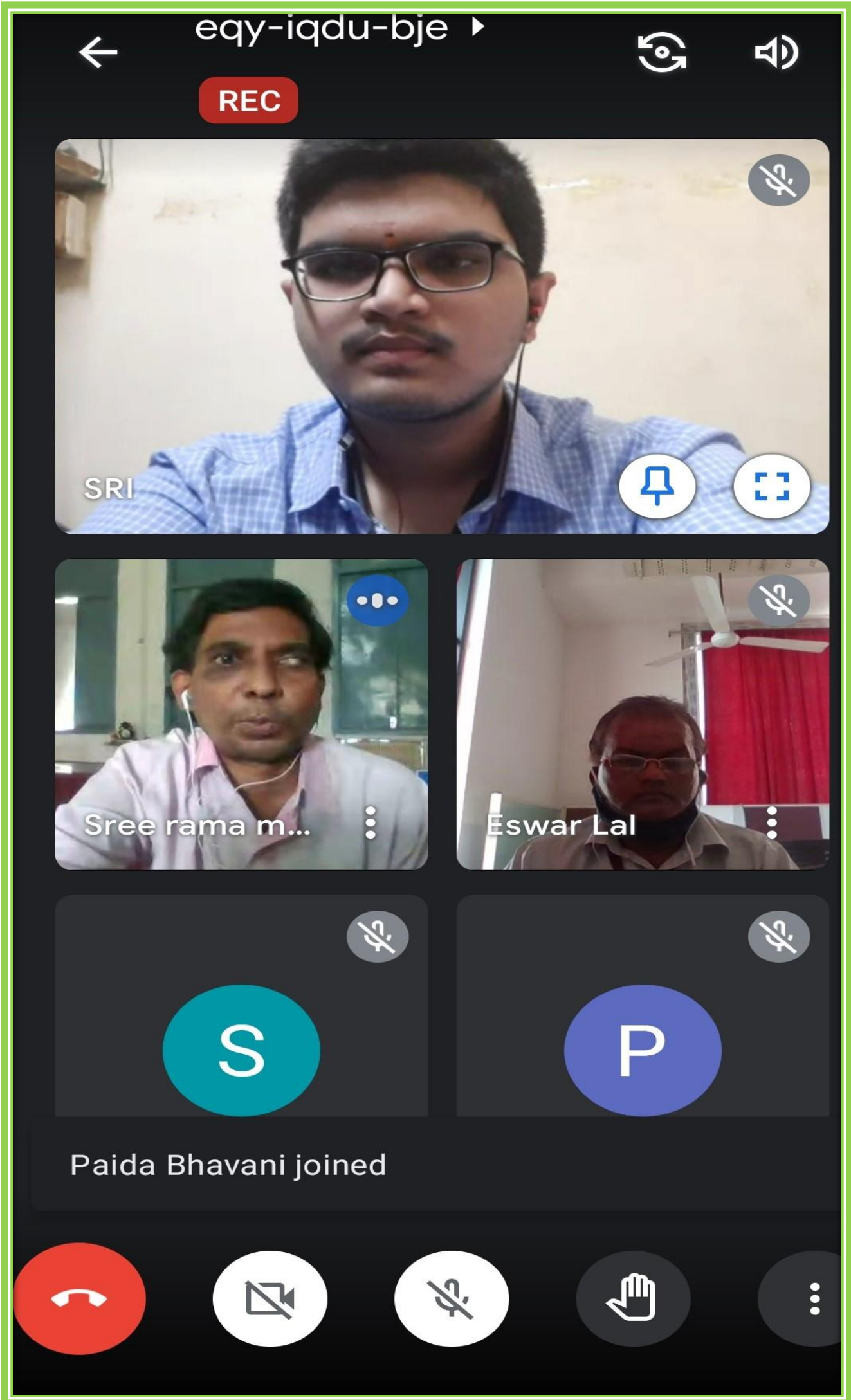
DVNS Murthy  
Lecturer in Mathematics

##### Organizing Secretary

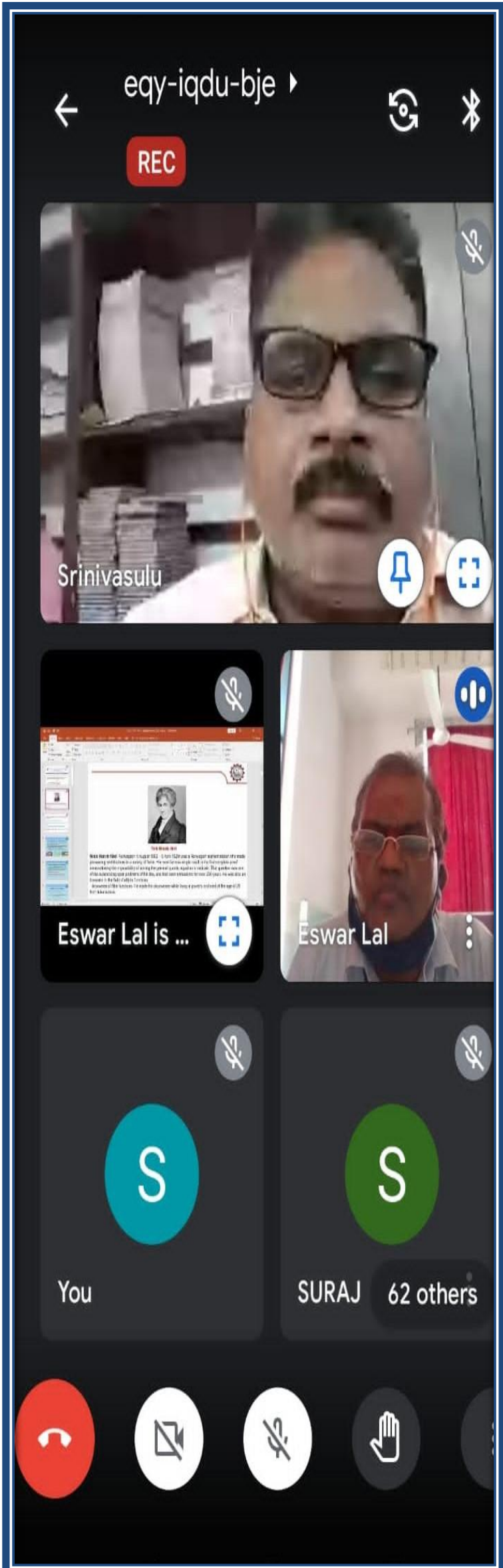
Dr. Ch. Srinivasulu  
HOD, Department of Mathematics

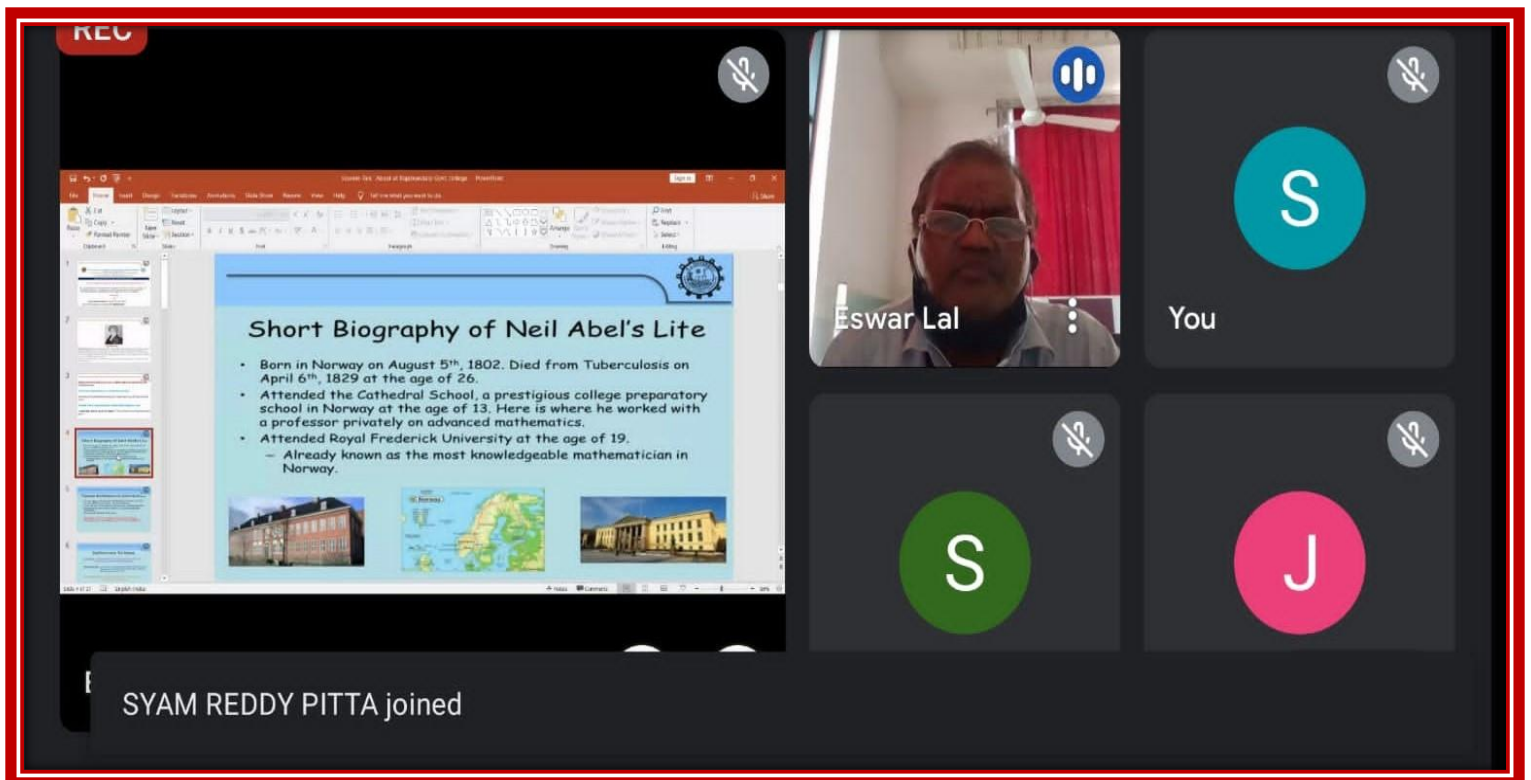
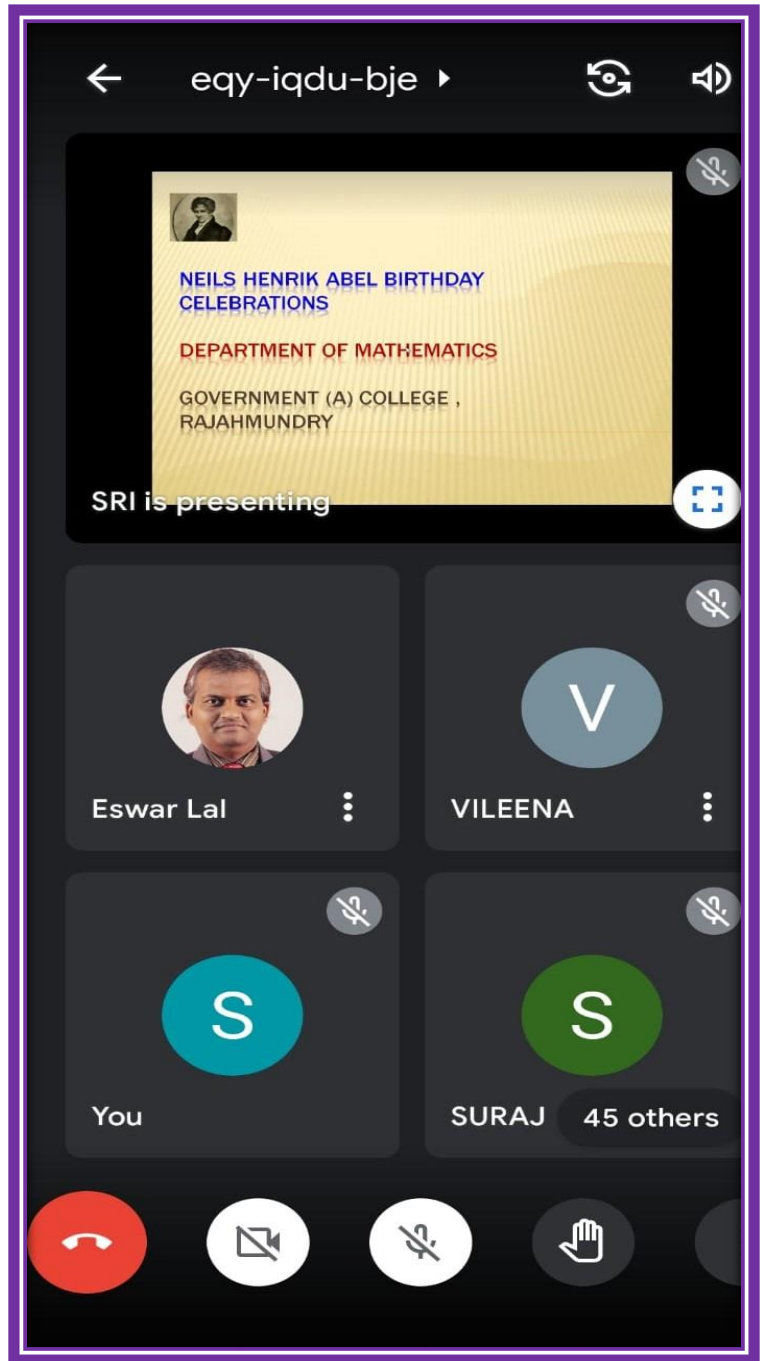
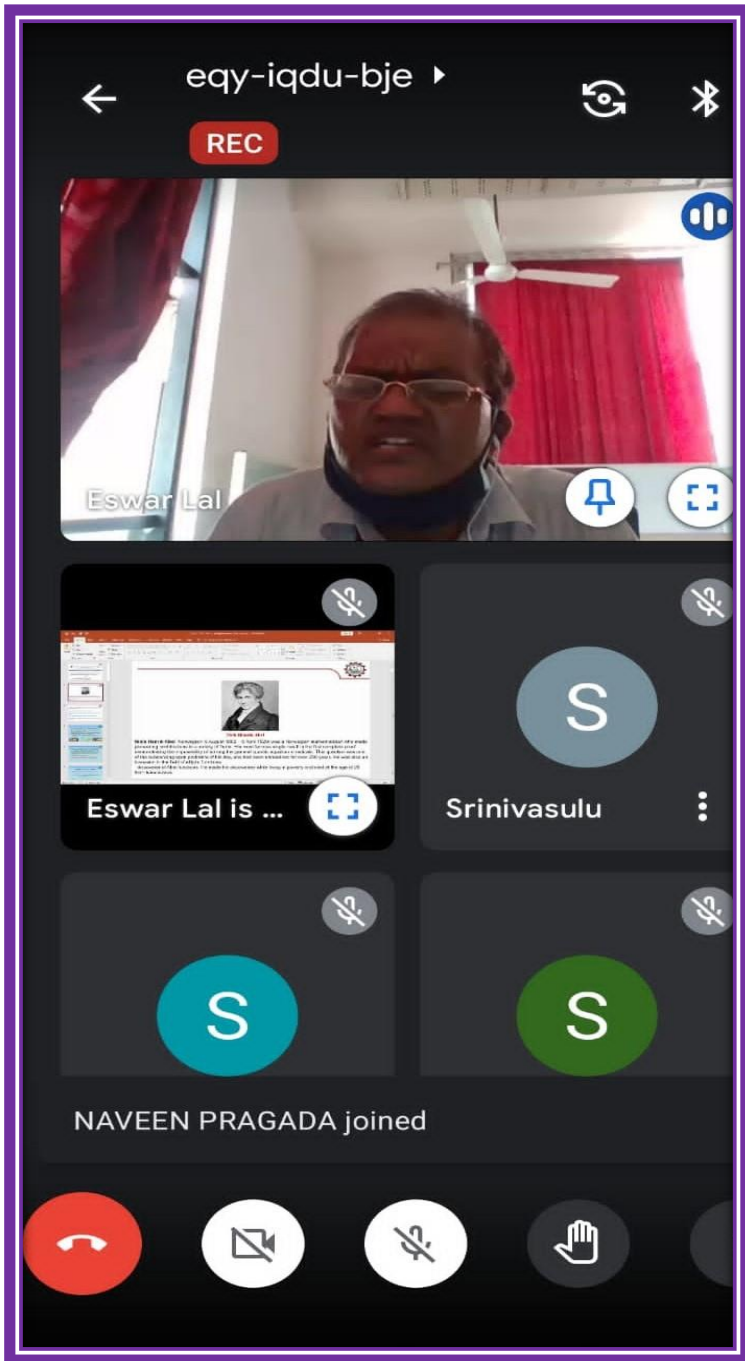
##### Organizing Committee

All Faculty Members  
Department of Mathematics

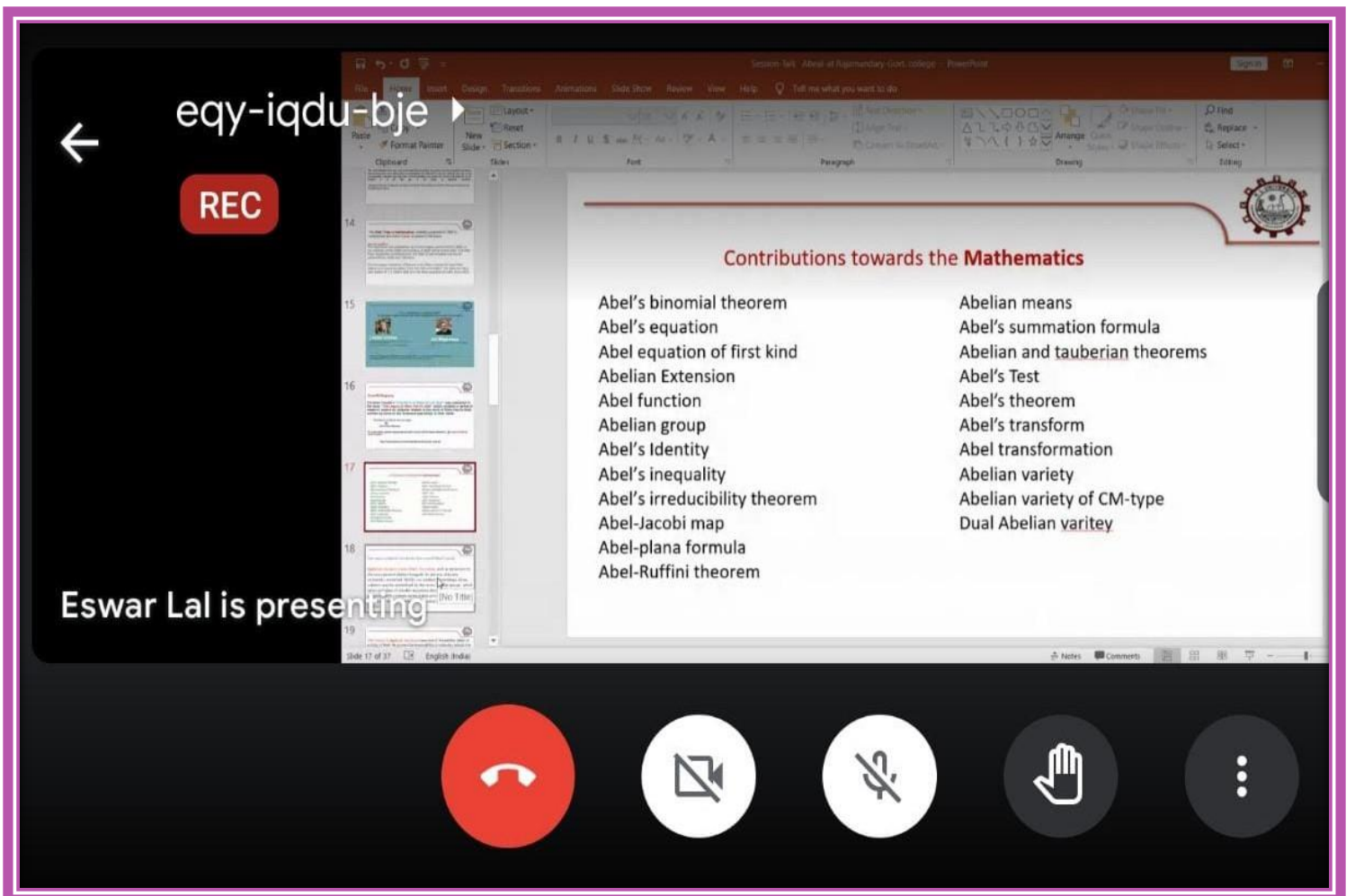
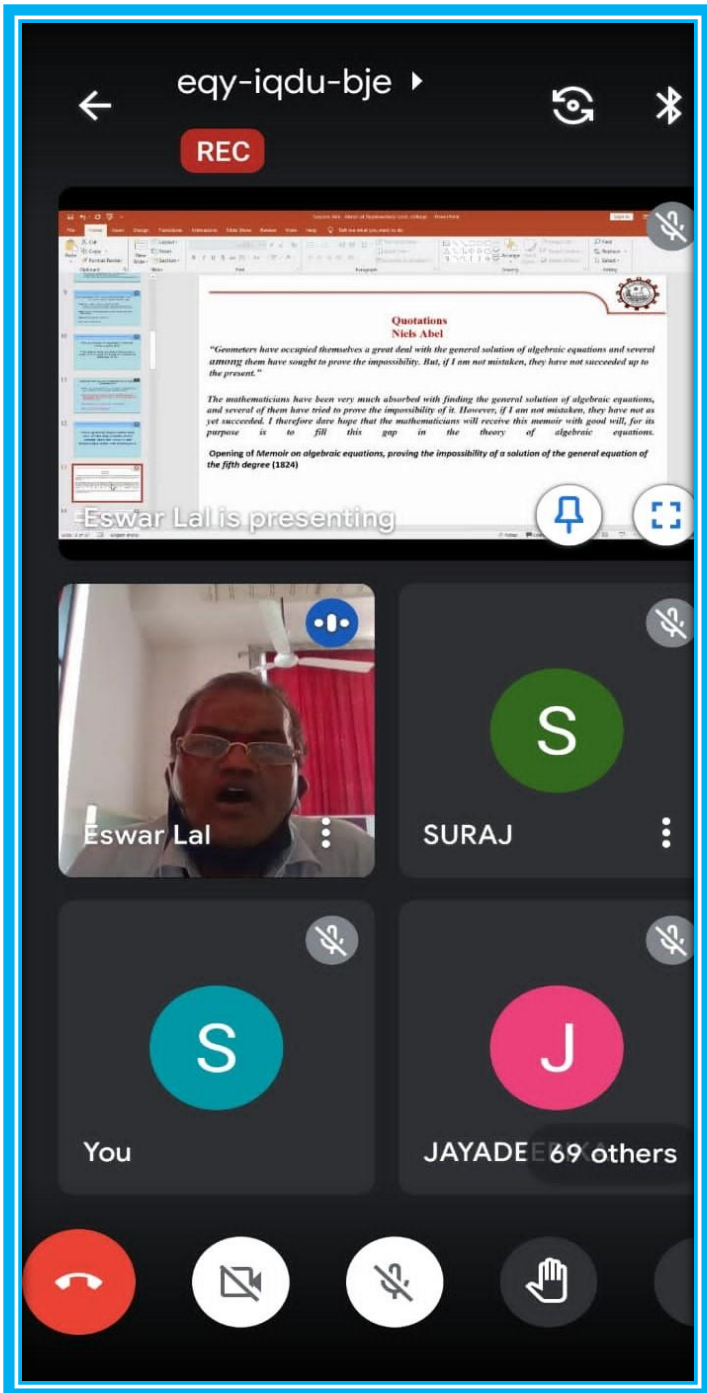












## 2. Abel's binomial theorem:-

Abel's binomial theorem, named after [Niels Henrik Abel](#), is a [mathematical identity](#) involving [coefficients](#). It states the following:

$$\sum_{k=0}^m \binom{m}{k} (w+m-k)^{m-k-1} (z+k)^k = w^{-1} (z+w+m)^m.$$

$m = 2$  [edit]

$$\begin{aligned} & \binom{2}{0} (w+2)^1 (z+0)^0 + \binom{2}{1} (w+1)^0 (z+1)^1 + \binom{2}{2} (w+0)^{-1} (z+2)^2 \\ &= (w+2) + 2(z+1) + \frac{(z+2)^2}{w} \\ &= \frac{(z+w+2)^2}{w}. \end{aligned}$$

Notes Comments

VOTE OF THANKS BY G.SRI SAI, I BSc(MSCS)

