

KALYANI MAHAVIDYALAYA
Department of Mathematics

Report on International Webinar on Mathematics held on 09-10th September, 2020.

Report of the Webinar at a Glance

Programme Flyer

Kalyani Mahavidyalaya
(A Govt. Aided NAAC Accredited College affiliated to University of Kalyani)
Kalyani - 741235, Nadia, West Bengal, India

DEPARTMENT OF MATHEMATICS

In collaboration with
Internal Quality Assurance Cell
Presents
International Webinar on

9-10 September, 2020
10.30 am (IST) onwards

REGISTER HERE

Google Meet YouTube

MATHEMATICS IN DATA ANALYSIS AND INTERNET SECURITY DURING COVID-19 PANDEMIC

Speakers

Prof. Bai-Lian (Larry) Li
Department of Botany and Plant Sciences
Institute for Integrative Genome Biology
University of California, Riverside, USA

Prof. Gennady N. Chuev
The Institute of Theoretical and
Experimental Biophysics
Russian Academy of Sciences
Pushchino, Moscow, Russia

Prof. Avishek Adhikari
Department of Mathematics,
Presidency University, Kolkata, India
& Founder Secretary, IMBIC, India
(Branches in Japan and Sweden) Treasurer,
Cryptology Research Society of India (CRSI)

Prof. Amit Chakraborty
School of Mathematics,
Statistics and Computational Sciences,
Central University of Rajasthan, India

Patrons:
Prof. Asoke Prasun Chattopadhyay
President, Governing Body
Dr. Runu Das
Principal

Convener:
Dr. Manob Kumar Ghosh
Associate Professor
Deptt. of Mathematics

Organizing Secretary:
Dr. Shashvata Mukherjee
Assistant Professor
Deptt. of Molecular Biology
and Biotechnology

Programme Schedule

- Registration closes on 05th September, 2020
- Limited participants will get the Google Meet invitation link through e-mail
- e-certificate will be awarded to active participants on submission of feedback form

Organizing Committee

Dr. Gopal Krishna Ganguly, Associate Professor in Mathematics
Sri Indrajit Bandyopadhyay, Associate Professor in English & Coordinator, IQAC
Mr. James Dinakaran Narjinary, Assistant Professor in Mathematics
Dr. Subhrangsu Taran, Assistant Professor in Physics
Dr. Koushik Mukherjee, Assistant Professor in Microbiology
Shamim Ahmed, Swagata Das, Ananya Banerjee & Rahul Kar
Faculty Members, Deptt. of Mathematics

98313 52321 webinar@klmedu.com

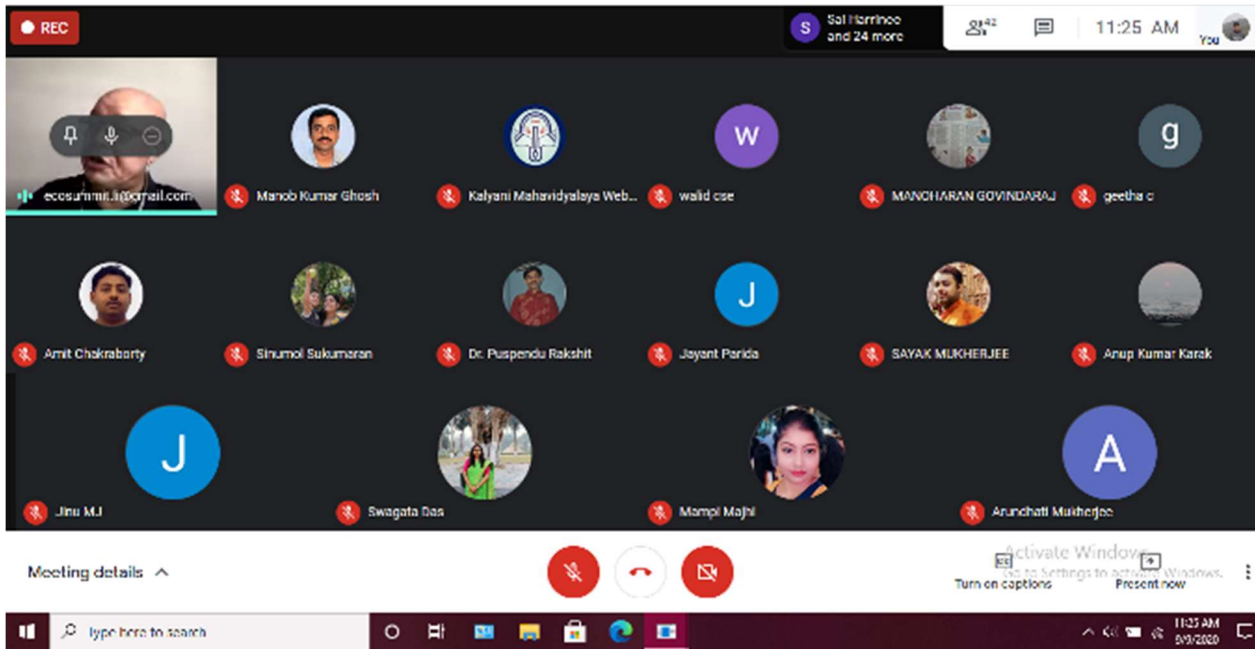
Number of registered participants - 981

YouTube links:

YouTube Link for Day 1 <https://youtu.be/S5d7C55HHY0>,

YouTube Link for Day 1: <https://youtu.be/Gl8StgRuz-A>

Some Screenshots of the Webinar:



REC

Arundhati Barua... and 84 more

11:43 AM

Gotha Manthokar

Gennadii Chuev

Kalyani Mahavidyalaya Web

Manob Kumar Chash

Jaldev Singh

Puja Mukherjee

Mampi Majhi

Dr. Gopal Krishna Ganguly

Sal Hamid

gotha c

Amit Chakrabarty

Kalyani Mahavidyalaya Mat

Asoke Chattopadhyay has left the meeting

A. K. Dasg

Tarhoor Islam Misty

Aakasha Mishra

Silpikha Goswami

Meeting details

activate Windows
Go to Settings to activate Windows.
Turn on captions Present now

Type here to search

11:43 AM 2/10/2020

REC

Gennadii Chuev is presenting

Vedika Mishra and 75 more

10:54

Viruses: Sophisticated Biological Machines

You may succeed to investigate carefully a detail of virus structure but fails to predict virus

Suvra Chakraborty has left the meeting

Structural organization in the mature procapsid P22. (a) Subunit packing in the procapsid. (b) Mature

International Webinar on Mathematics

Turn on captions

Gennadii Chuev is presenting

Type here to search

10:54 10/10/2020

REC Amit Chakraborty is presenting

Goethapriya V and 85 more 11:55

MATHEMATICAL AND COMPUTATIONAL EXAMINATIONS OF SUCCESSFUL ENTRY OF SARS-CoV-2 INTO HUMAN HOST CELL

Amit Chakraborty
 School of Mathematics, Statistics, and Computational Sciences
 Central University of Rajasthan
 E-mail: amitc.maths@curaj.ac.in; amitc.maths@gmail.com

International Webinar on Mathematics

Turn on captions

Amit Chakraborty is presenting

type here to search

11:55 10/03/2020

YouTube Search

Normal Mode Analysis

by the series expansion of the potential energy function around the point P is

$$E_p(r) = E_p(r^0) + \sum_{i=1}^n \frac{\partial^2 E_p}{\partial x_i^2} (x_i - x_i^0) + \frac{1}{2} \sum_{i,j=1}^n \frac{\partial^2 E_p}{\partial x_i \partial x_j} (x_i - x_i^0)(x_j - x_j^0) + \dots$$

As P is the minimum of the energy function, $\frac{\partial E_p}{\partial x_i} = 0$ and according to the criteria, the potential energy is zero, that means $E_p(r^0) = 0$ therefore potential energy becomes

$$E_p(r) = \frac{1}{2} \sum_{i,j=1}^n \frac{\partial^2 E_p}{\partial x_i \partial x_j} (x_i - x_i^0)(x_j - x_j^0)$$

This is the form of harmonic function.

Or

$$E_p(r) = \frac{1}{2} (\Delta r)^T (F) (\Delta r)$$

Where $\Delta r = r - r^0$

$$\text{Thus, } \Delta E^2 = \Delta E^2 = -2 \left[\frac{\partial^2 E_p}{\partial x_i \partial x_j} \right] \Delta x_i \Delta x_j = -2 \sum_{i,j=1}^n \frac{\partial^2 E_p}{\partial x_i \partial x_j} \Delta x_i \Delta x_j$$

Two-day International Webinar on Mathematics || DAY 2

45 watching now • Started streaming 2 hours ago

Kalyani Mahavidyalaya Mathematics

Top chat

Welcome to live chat! Remember to guard your privacy and abide by our Community Guidelines. [LEARN MORE](#)

- Pravinjay Bhatnagarjee very informative session
- Ravivarma B very informative
- S N R G Bharat Inagavaram very informative session
- MRM ONLINE MATHEMATICS LEARNING POINT new topics
- Suvendra Mahly nice presentation
- Kamleshwari Veni very informative session
- Somnath Roy Good afternoon everyone....
- Naveen Kumar Good afternoon
- muhammad khafid hey muhammadh perbakti
- Mehdi Kumar Ghosh Hey something... (how come...)

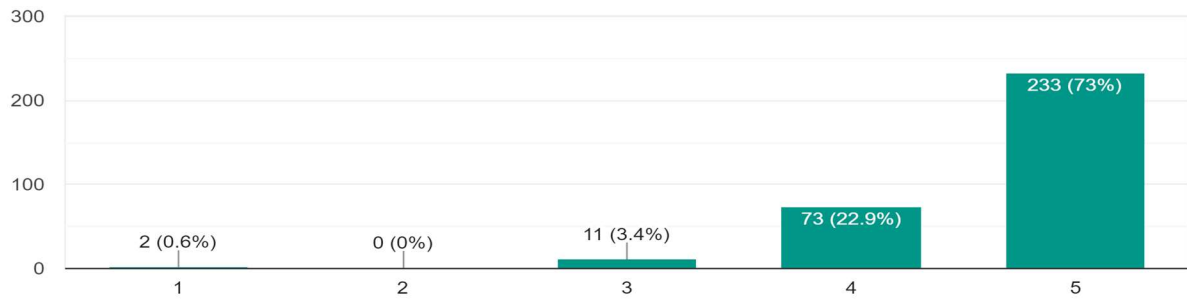
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11:55 10/03/2020

Feedback at a glance:

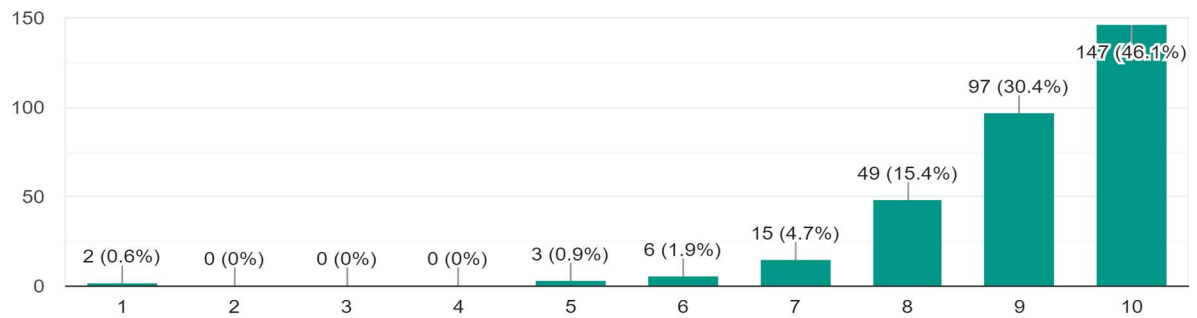
(1) Organization and management of this webinar

319 responses



(7) Your Overall Experience

319 responses



Webinar Certificate Template



Kalyani Mahavidyalaya

Kalyani - 741235, Nadia, West Bengal, India

International Webinar

On

“Mathematics in Data Analysis and Internet Security during COVID-19 Pandemic”

Organized by

DEPARTMENT OF MATHEMATICS

In collaboration with

Internal Quality Assurance Cell

CERTIFICATE OF PARTICIPATION

This is to certify that

<<Name with Salutation>> of <<Name of Institution Affiliated>> has participated in the International webinar on **Mathematics in Data Analysis and Internet Security During COVID-19 Pandemic**, held during **September 9th and 10th, 2020, 10:30AM to 1:30 PM (IST)**.

Dr. Runu Das
Principal

Dr. Manob Kr. Ghosh
Convener

Dr. Shashwata Mukherjee
Organizing Secretary
