

## Flyer of the Webinar on “Scientists and their Contributions” held on 20-05-21

**WEBINAR ON “SCIENTISTS & THEIR CONTRIBUTIONS”**

**ORGANISED BY  
SCIENCE CLUB,  
DEPARTMENT OF PHYSICS,  
GOUR MAHAVIDYALAYA, MANGALBARI, MALDA**

**PROGRAM INDEX:**

1. An inaugural speech of Principal Dr. ASHIM KUMAR SARKAR and H.O.D (Dept. of Physics) Dr. ANIRBAN RAY.
2. Participant's Presentation.
3. End of the program with a small gratitude towards the honourable teachers.

Topic: Biography (Brief) Of A Scientist (preferably in the field of physics, from other fields also accepted) plus A Brief Detail in His/Her Any Research with A Suitable Presentation.

*N.B.: Every participant will be provided F.CERTIFICATE.*

Webinar Date : 20/05/2021  
Webinar Time : 11:00am  
Webinar Duration : 2:00 hrs  
Webinar Platform : Google Meet

Interested students are requested to send their names along with the topic to the following mail address:  
[scienceclubwebinar@gmail.com](mailto:scienceclubwebinar@gmail.com)

For further details please contact : SCIENCE CLUB SECRETARY : Abhishek Saha , B.Sc. (hons.) 4<sup>th</sup> Sem student G.M → Mob. : 7468013159  
Sougata Ray , B.Sc. (hons.) 4<sup>th</sup> Sem student G.M → Mob. : 8637569277

**Conference Convener**  
Dr. Arka Chaudhuri  
Ms. Tajnur Khatun

**Student Representatives**  
Sougata Ray  
Abhishek Saha

## Attendance for the Webinar on “Scientists and their Contributions” held on 20-05-21

Sl No	Name	Designation
1	Dr. Anirban Ray	HOD, Dept of Physics
2	Dr. Arka Chaudhuri,	Assistant Professor, Dept of Physics
3	Ms. Tajnur Khatun,	SACT, Dept of Physics
4	Sadhan Biswas	SACT, Dept of Physics
5	Priyanka Chaudhuri	SACT, Dept of Physics
6	Rakesh Sarkar	Assistant Professor, Dept of Mathematics
7	Sougata Ray	Student, 4 <sup>th</sup> Sem, Dept of Physics
8	Abhishek Saha	Student, 4 <sup>th</sup> Sem, Dept of Physics

9	Sanjay Paul	Student, 4 <sup>th</sup> Sem, Dept of Physics
10	Amit kr. Mridha	Student, 4 <sup>th</sup> Sem, Dept of Physics
11	Nikita kr. Paul	Student, 2 <sup>nd</sup> Sem, Dept of Physics
12	Sneha Karmakar	Student, 2 <sup>nd</sup> Sem, Dept of Physics
14	Ratna Paul	Student, 2 <sup>nd</sup> Sem, Dept of Physics
15	Barnali Paul	Student, 4 <sup>th</sup> Sem, Dept of Physics
16	Abhijit Roy	Student, 2 <sup>nd</sup> Sem, Dept of Physics
17	Sneha Nag	Student, 4 <sup>th</sup> Sem, Dept of Physics
18	Kamlesh Paul	Student, 2 <sup>nd</sup> Sem, Dept of Physics
19	Tapan Sen	Student, 4 <sup>th</sup> Sem, Dept of Physics
20	Riju Bhowmick	2 <sup>nd</sup> Sem, Dept of Physics
21	Arundhati Das	2 <sup>nd</sup> Sem, Dept of Physics
22	Pratick Das	Student, 2 <sup>nd</sup> Sem, Dept of Physics
23	Ritam Das	Student, 2 <sup>nd</sup> Sem, Dept of Physics
24	Sumana Ghosh	Student, 2 <sup>nd</sup> Sem, Dept of Physics
25	Alok Mandal	Student, 4 <sup>th</sup> Sem, Dept of Physics
26	Anup Sarkar	Student, 4 <sup>th</sup> Sem, Dept of Physics
27	Satyam Saha	Student, 3 <sup>rd</sup> year, Dept of Physics

28	Afia Anjum	Student, 4 <sup>th</sup> Sem, Dept of Physics
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Pratick Das is presenting

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**BLACK BODY RADIATION :**

An object at any temperature is known to emit thermal radiation.

- Characteristics depend on the temperature and surface properties.
- The thermal radiation consists of a continuous distribution of wavelengths from all portions of the electromagnetic spectrum.

At room temperature , the wavelengths of the thermal radiation are mainly in the infrared region.

As the surface temperature increases, the wavelength changes.

Webinar on "Scientist and their Contribution"

Participants: You, Sougata Ray, nikita kumar, Anirban Ray (You), ABHIJIT ROY, Abhishek Saha, Achintya, Afia Anjum, Alok Mandal

Duration: 0:19:30

Audio: [Muted]

11:23 20-05-2021

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Webinar on "Scientist and their Contribution"

Webinar on "Scientist and their Con..."

14

IN CALL

- Anirban Ray (You)
- ABHIJIT ROY
- Abhishek Saha
- Amit Mridha
- ARKA CHAUDHURI
- Busy Boy
- kamalesh #mixed up

Turn on captions Present now

Search for anything

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Abhishek Saha is presenting

Figure 1

FRAME A FRAME B

Newton teaches us that if 'an inertial frame B is moving with respect to another inertial frame A with a velocity  $v = v_x$  (see Figure 1), and a point in spacetime (called an 'event') has the coordinates  $(x, y, z, t)$  in frame A and  $(x', y', z', t')$  in frame B, then these are related as:  $x' = x - vt$

$$\begin{aligned} y' &= y \\ z' &= z \\ t' &= t \dots \dots \dots (1) \end{aligned}$$

These relations are called Galilean transformations. From this, we see that the time of occurrence of an event is the same in all inertial frames. A more precise way of stating this is that the time interval between two events is invariant.

To retain the validity of Maxwell's equations in all frames, Einstein then showed that the Galilean transformation laws need to be changed

Webinar on "Scientist and their Contribution"

Webinar on "Scientist and their Con..."

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IN CALL

- You
- Abhishek Saha
- Abhishek Saha
- Abhishek Saha Presentation
- Amit Mridha
- Anup Sarkar
- ARKA CHAUDHURI
- Sougata Ray
- Arundhati Das

Turn on captions Abhishek Saha is presenting

12:47 20-05-2021

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Pratck Das is presenting

### PLANCK'S ASSUMPTION , 1

- The energy of an oscillator can have only certain discrete value  $E_n$ 
  - $E_n = n h f$
  - $n$  is a positive integer called the quantum number
    - $f$  is the frequency of oscillation
    - $h$  is the Planck's constant
- This says the energy is quantized.
- Each discrete energy value corresponding to a different quantum state.
- Each quantum state is represented by the quantum number ,  $n$ .

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Duration: 0:22:01

Audio: [Mute] [Unmute] [Delete] [Pause] [Stop]

IN CALL (43)

- Anirban Ray (You)
- Abhijit Roy
- ABHIJIT ROY
- Abhishek Saha
- Achintya
- Afia Anjum

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Figure 1

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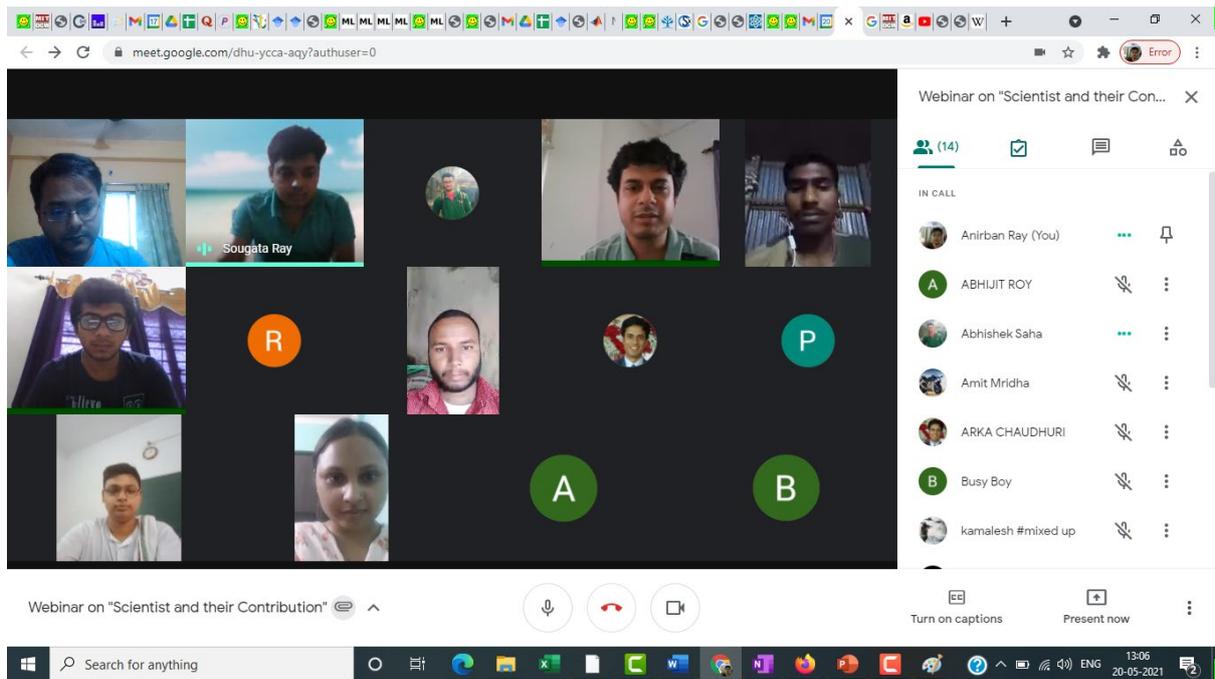
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Abhishek Saha is presenting

IN CALL (18)

- Anirban Ray (You)
- ABHIJIT ROY
- Abhishek Saha
- Abhishek Saha Presentation
- Amit Mridha
- Anup Sarkar
- ARKA CHAUDHURI

12:47 20-05-2021



Video-recording of the entire event has been uploaded to YouTube. Link of that video is <https://www.youtube.com/watch?v=Rtn65xc3DDE>

*Anirban Ray*

Dr. Anirban Ray,  
Assistant Professor,  
Department of Physics,  
Gour Mahavidyalaya,  
Mangalbari, Malda