



**MAHARAJA MANINDRA CHANDRA COLLEGE**

***DEPARTMENTAL SEMINAR ON***  
***'Physics and Beyond'***

**ORGANISED BY THE DEPARTMENT OF  
PHYSICS**

22/09/2022

To,  
The Principal / T.I.C.,  
M.M.C. College,  
Kol - 003.

Date: 20/09/2022.

Sub: Permission to use room no. 28 for students' seminar on 22/09/2022 (Thursday) from 1:00 pm to 4:45 pm.

Sir / Madam,

This is to humbly inform you that the 3<sup>rd</sup> and the 5<sup>th</sup> semester students of the Department of Physics are planning to arrange for a seminar on 22/09/2022 (Thursday) from 1:00 pm to 4:45 pm. In this regard they are in need of a classroom with a seating capacity of about 70 people, having a microphone, speakers, a projector and a whiteboard or whitescreen facility, on the said date and time.

In these circumstances, as the Head of the department of Physics, I request you to kindly grant your permission to our students to conduct the said seminar & to allot room no. 28 of our college on the above date and time. I also request you to kindly allow our students to use the college projector on the same day and time, so that they can successfully conduct the seminar.

Sunetra Das  
20/09/22

Thanking you,  
faithfully yours  
Sunetra Das.  
(Head of the dept.,  
Dept. of Physics).

**DEPARTMENT OF PHYSICS**  
**Maharaja Manindra Chandra College**

**NOTICE**

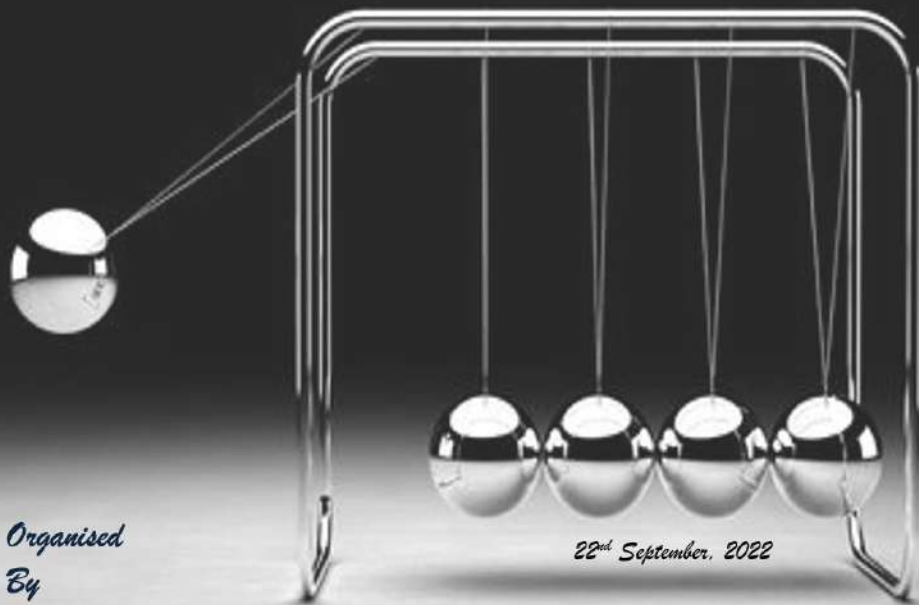
This is to notify that a seminar has been arranged by the department of Physics on 22/09/2022 from 1:00 pm to 4:45 pm in room no. 28.

In this regard the physics classes, both honours and general, will remain suspended on the above date from 12:30 pm.

  
Sunetra Das 21/09/2022.

Head of the department,  
Department of Physics.

Departmental Seminar **on PHYSICS & BEYOND**



Organised  
By  
Department of Physics

22<sup>nd</sup> September, 2022

**MAHARAJA MANINDRA CHANDRA COLLEGE**

TIME	NAME	TITLE	TIME	NAME	TITLE
12.30 PM	Ankit Saha Swarnali Das	Wall Magazine	2.40 PM	Tannishtha Mazumdar	Food map of Kolkata
1.00 PM	Prof. Hurmal Saren		3.00 PM	Pathikrit Paul	Central force of motion
1.20 PM	Anurag Chatterjee	Vedanta Darsan and literature of Vedanta	3.20 PM	Bishan Kumar Brahma	Abol-tabol: a different story
1.40 PM	Krishanu Ghosh	Magic number theory	3.40 PM	Saptadip Chakrabarty	Misconception of Coulomb's law
2.00 PM	Neha Chandra	Surrealism Movement	4.00 PM	Arabinda Malakar	Grab skill, earn money and invest it
2.20 PM	Adil Zahidi	Future of fusion energy	4.20 PM	Prof. Shyamal Mondal	Understanding photography from different perspective

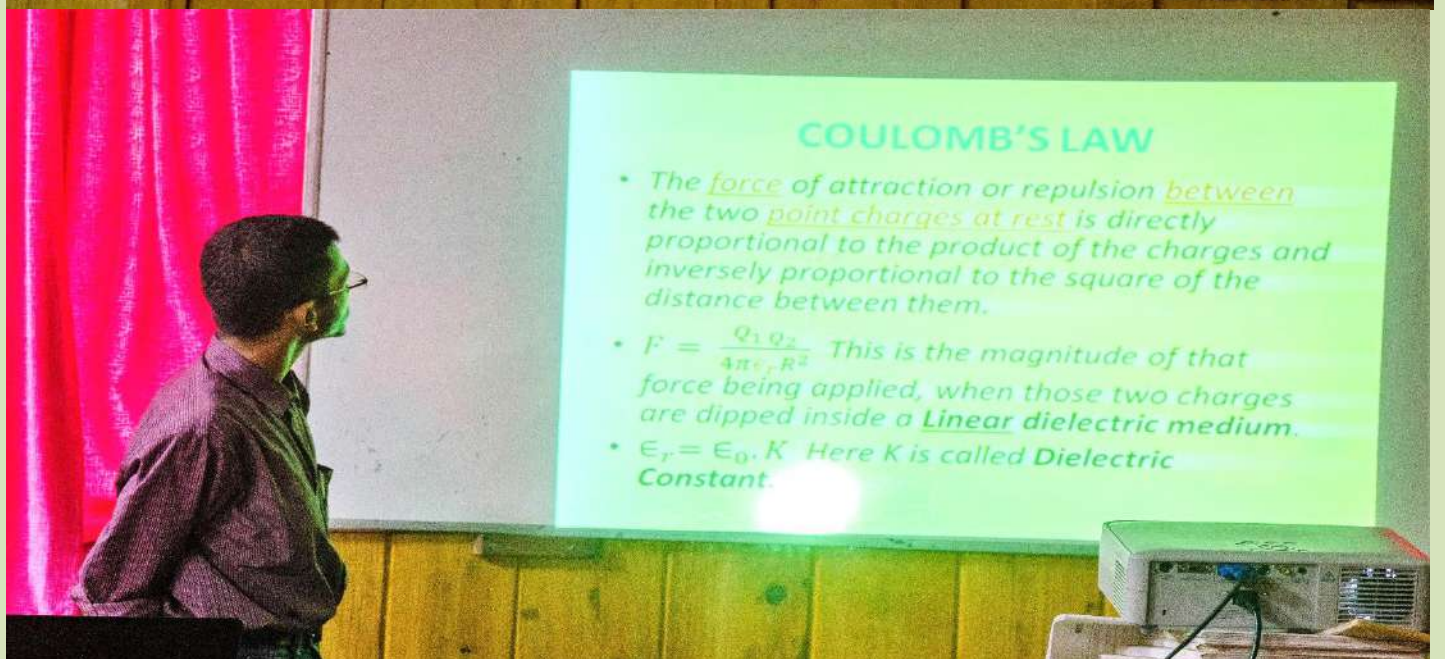




















## Departmental Seminar on 'Physics and Beyond'

### Organised by the Department of Physics

1. Topic: 'Vedanta Philosophy and Literature of Vedanta'

Speaker - Anurag Chatterjee

Sem 5

Physics Honors

Class roll No.: S-05

CU roll No.: 203211-21-0003

CU registration No.: 211-1111-0320-20

Summary: The seminar was arranged by department of physics on 'Physics and Beyond' and the selected topic was 'Vedanta Philosophy and Literature of Vedanta'. It was a brief outline of Vedanta philosophy, a popular part of Indian philosophy and the literature of Vedanta from the point of view of the 'non-dualistic philosophy', a popular school of Vedanta philosophy, established by Adi Shankaracharya. The teachings of the non-dualistic Vedanta philosophy say that there is one eternal and absolute truth, the true nature of any worldly thing. This truth is blissful, infinite, omnipresent and ever conscious. And beyond of limitations like formation, destruction, name and form. This is a subject to realization only but covered by the ignorance. It can be unveiled through the path of knowledge. Realizing this truth one can attain liberation, the ultimate goal. Swami Vivekananda said, "Arise, awake, and stop not till the goal is reached." Except this absolute truth all things are subjects to formation and destruction. These teachings are spread in the various scriptures of Vedantic literatures.

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2. Topic: Kolkata food map

Speaker: Tannishtha Mazumdar

[CU roll no: 203211-11-0005,

CU reg no: 211-1211-0346-20,

college roll no: S-45]

[sem 6] B.Sc (Hons)

Physics Department of Maharaja Manindra Chandra College.

Summary: In the Physics and Beyond seminar, I had presented a topic titled "Kolkata food map". I told about some special restaurants in Kolkata and some of their dishes that are famous in North, Central, and South Kolkata. Kolkata, which is known as the "city of joy," is incomplete without food. Sometime we face problems finding a restaurant that serves tasty food. That's why, for the benefit of general audience, I have selected this particular topic. North Kolkata encompasses the northern part of Kolkata, including the city's oldest neighbourhood. In this region, some restaurants like Mitra Café, which is very famous for its Fish kabiraji, Golabari for its Chicken kosha, etc. were highlighted. South Kolkata is a posh and new addition to older Kolkata. It is less congested and more modern than most parts of the city. In this, we find many Bengali foods as well as foods from other regions. Fuji is a Japanese restaurant famous for Sashimi, and Saptapadi is famous for its Bengali thali. In central Kolkata, we find restaurants like Sabir, Peter Cat, Big Boss, and many more.



### 3. Topic : Surrealism Movement

Speaker: NEHA CHANDRA

ROLL: S-41

Physics Department

Summary: The seminar held by the department of physics and the selected topic was Surrealism movement. It is a revolution which took place in the world of art and literature. Surrealism means "super reality" where the real life aspects appeared in an unnerving distorted way or in these artworks. It was a technique developed to allow unconscious mind to express itself. Real life objects appeared unexpectedly in juxtapositions and often looked bizarre. But it gave artist the freedom to express their creativity. Such artworks developed under this movements are Golconde, Girl with a mask, The son of man, Guernica etc.

### 4. Topic: Abol-Tabol – A different story

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Speaker : Bishan Kumar Brahma

Department of Physics

Semester: 6

CU Roll No.: 203211-11-0005

CU Reg. No.: 211-1111-0322-20

College Roll No.: S-09

Summary: In our childhood days, we had read Abol-Tabol, a famous book written by Sukumar Roy. Sukumar Roy is a great poet and painter. He wrote many poem short story and play. A popular radio channel said that Sukumar Roy is not human being, he is an alien but he spent some time on earth. 'Abol-Tabol' is basically based on 'non-sense' poem. Many people think that this book is only for children. But it is not true. There are political and social truth hidden behind this book. In some poem satirized the social condition of that time. He also criticized the British government. The most interesting fact is that he hid these facts in his poem. We should remember this great poet forever.

### 5. Topic: Misconception of Coulomb's Law.

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Speaker: SAPTADIP CHAKRABORTY,

ROLL NO. 213211-21-0008

REGISTRATION NO. 211-1111-0310-21

COLL ROLL NO. S-22

Sem 3

Summary: Coulomb's Law is widely regarded as one of the preliminary topics that students read in their early stages of science learning. So it is quite obvious that it leaves a lot of scope to misunderstandings. One of the most common misconceptions regarding this is that the Coulomb's Law (which primarily deals with the force of attraction/repulsion applied by one charge distribution on another) changes its form when it is applied in a linear dielectric medium. Well, that is certainly not the case. Coulomb's Law is invariant under transforming the medium taken in consideration. What makes this wrong is when a charge distribution (called *free charge*) is placed inside a linear dielectric medium, **bound volume charge** appears at each & every point where a free charge can be spotted. If you then try to get the *Electric Field* at anywhere inside the medium (assuming that the surface of the medium is at infinity), this is that bound volume charge which plays a key role there in changing the value

of Electric Field. So, as a whole, the *net* Electric Field eventually changes its value. But it neither disobeys the original form of Coulomb's Law (actually it is well understood from there), nor changes its form.

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6. Topic: The future of Fusion energy

Speaker → ADIL ZAHIDEE

Semester 5.

Department → PHYSICS

Class Roll no → S-01

CU Roll no →→ 203211-21-0098.

CU Reg ho→ 211-1115-0316-20

Summary: In this time we face a big Challenge, to produce an energy source which is an alternative of fossil fuels and It is good for nature. So I decided nuclear fusion is the best topic for this Seminar.

Nuclear fusion : Nuclear fusion is a reaction in which two or more atomic nuclei, usually deuterium and tritium, are combined to form one or more different atomic nuclei and subatomic particles. The difference in mass between the reactants and products is manifested as either the release or absorption of energy.

Difference between Fission and fusion : Fission is the Splitting of an atom into two or more smaller ones and fusion is the fusing of two or more smaller larger one atoms into a larger one.

Why fusion is better than fission : Fusion produces far more energy than that created by fission. Nuclear fission produces radioactive waste which is harmful in nature.

Fusion energy and Stars - Nuclear fusion reactions power the Sun and other Stars.

How Scientists produce fusion energy in lab : A tokamak is a device which uses a powerful magnetic field to confine plasma in the Shape of a torus. The tokamak is one of several types of magnetic confinement devices being developed to produce controlled thermonuclear fusion.

Some Challenge of produce fusion energy : In Fusion energy is the temperature required to Produce meaningful amounts of fusion power from an ionized gas that is commonly referred to as a Plasma. The necessary temperatures for fusion, energy Production Very depending on the type of fusion being pursued.



DEPARTMENT OF PHYSICS  
Departmental Seminar  
'Physics and Beyond'

Date : 22-09-2022

Room No. - 08.

<u>Sl No.</u>	<u>Name of Students</u>	<u>Semester</u>	<u>Department-</u>	<u>Signature</u>
1	Tannishtha Mazumdar (speaker)	Sem VI	Physics	Tannishtha Mazumdar
2	Amiya Mohanta	sem-vi	physics	Amiya Mohanta
3	Supradeep Mondal <del>(speaker)</del>	Sem VI	Physics	Supradeep Mondal
4.	Samdipa Mukherjee	Sem VI	Physics	Samdipa Mukherjee
5-y	ARPAN ROY	SEM-VI	Physics	Apan Roy
6.	JYOTIRMAY ROY	SEM-VI	Physics	Jyotirmoy Roy.
7.	Gobinda Paul (HOST)	SEM VI	Physics	Gobinda Paul
8.	ARNAB MAITY	SEM-VI	Physics	Arnab Maity
9.	ANURAG CHATTERJEE (speaker)	SEM-VI	Physics	Anurag Chatterjee
10)	NILANJAN BANIK	SEM-VI	Physics	Nilayan Banik
11)	PRATYAY SAHA	SEM-VI	PHYSICS	Pratyay Saha
12)	Ayush Das	Sem-VI	Physics	Ayush Das
13)	Sunit Das	Sem-VI	Physics	Sunit Das
14)	Esha Agarwal	Sem-VI	physics	Esha Agarwal
15)	Kaushi Kumari Biri	Sem-VI	Physics	Kaushi Kumari Biri
16)	Neha Chandra (speaker)	Sem VI	Physics	Neha Chandra

22/09/2022

17	Krishanu Ghosh	Sem - VI	Physics	Krishanu Ghosh
18	Akashu Torun	Sem - VI	Physics	Akashu Torun
19	ANIRBAN MULLICK	Sem - VI	Physics	Anirban mullick
20	Adil Zahidee (speaker)	Sem - VI	Physics	Adil Zahidee .
21	Koustab Sarkar	sem VI	Physics	Koustab Sarkar
22	Pratyush Das	Sem VI	Physics	<u>PDas.</u>
23	Samirran Lodder	Sem VI	Physics	Samirra Lodder
24	Pratik Paul	Sem VI	Physics	Pratik Paul
25	Arabinda Malakar (speaker)	sem VI	Physics	Arabinda Malakar
26	Sayam Datta	sem VI	Physics	Sayam Datta
27	Riddhi Nath	sem - VI	PHSA	Riddhi Nath
28	Esha Agarwal	Sem - VI	PHSA	Esha Agarwal
29	Ankit Saha	Sem - IV	PHSA	Ankit Saha
30	Raj Manna	"	"	Raj Manna
31	পাঠিকৃত পল (স্পীকার)	সেম - IV	PHSA	পাঠিকৃত পল
32	Pathikrit Paul (speaker)	Sem - IV	PHSA	Pathikrit Paul
33	Sudipta Das	Sem - VI	PHSA	Sudipta Das
34	Proloy Nandan	Sem - VI	PHSA	Proloy Nandan
35	Piyas Ghosh	sem - VI	PHSA	Piyas Ghosh
36	Deepankar Das	Sem - IV	PHSA	Deepankar Das



	<u>Name of Students</u>	<u>Semester</u>	<u>Department</u>	<u>Signature</u>
37)	RAJIB BANIK	sem-IV	PHSA	Rajib Banik
38)	ROHIT MALICK	Sem-IV	PHSA	Rohit Mallick
39)	Ampan Kumar Malakar	Sem IV	PHSA	Ampan Kumar Malakar
40)	Ayush Seth	Sem IV	PHSA	Ayush Seth.
41)	Anindita Basak	Sem IV	PHSA	Anindita Basak
42)	Apalak Mukherjee	Sem-IV	PHSA	Apalak Mukherjee
43)	Aritra Saha	Sem-IV	PHSA	Aritra Saha
44)	Swarnali Das (Wall magazine)	Sem-IV	PHSA	Swarnali Das
45)	Supriyo Mukherjee	Sem-IV	PHSA	Supriyo Mukherjee
46)	Hansa Dhar	UTH nem	PHSA	Hansa Dhar
47)	Bishan Kumar Brahma (Speaker)	Sem VI	PHSA	Bishan Kumar Brahma
48)	Akram Paka	Sem VI	PHSA	Akram Paka

"PHYSICS AND BEYOND"  
Departmental Seminar

22/09/2022

Attendance of Teachers

<u>Sr No.</u>	<u>Name of Teacher.</u>	<u>Designation.</u>	<u>Dept.</u>	<u>Signature.</u>
1	SUNETRA DAS.	ASSISTANT PROFESSOR	PHYSICS	S. Das. 22/09/2022.
2.	Sanchayita Mondal	Assistant Professor	Physics	Smondal 22/09/2022
3.	SHYAMAL MONDAL	Assistant Prof.	Physics	Shyamal mondal 22/9/22
4.	Anilima Maitra Datta	Assistant Prof.	physics	Anilima Maitra Datta
5.	Hemal Soren	Assistant prof	physics	Hemal Soren 22/09/22