

PHYLETTER

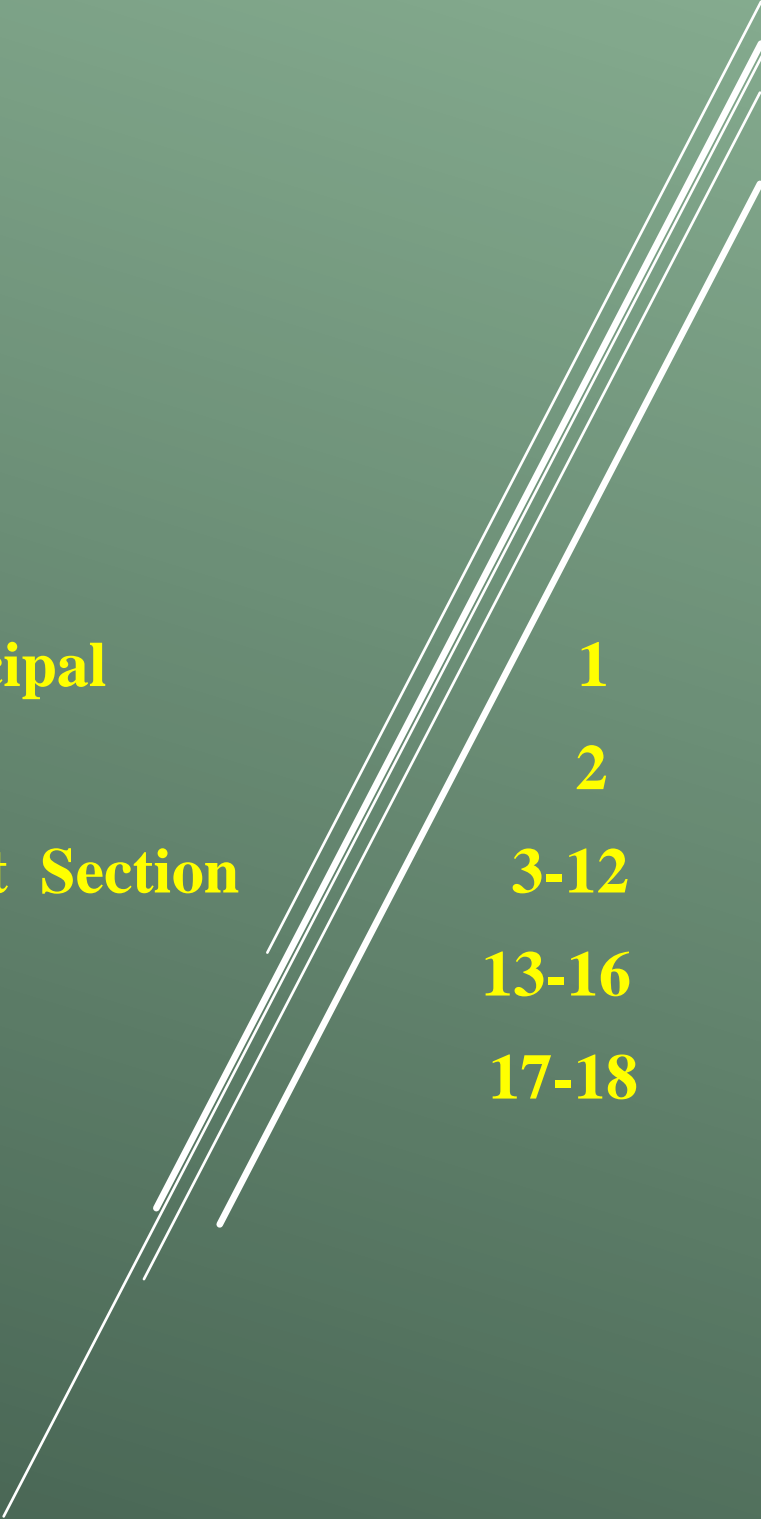
**Durgapur Government College
Department of Physics**

JUNE 2024



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Message from Principal



Dr. Debnath Palit

Dear Readers,

It brings me immense pleasure to announce the release of the second edition of *PHYLETTER, The Physics Newsletter* for June 2024. This edition continues to serve as a vibrant platform for our students to showcase their creativity and enhance their understanding of physics. Our aim is to equip young minds with the tools they need to tackle the challenges of an increasingly competitive world beyond the campus, and this newsletter provides an opportunity for students to explore new avenues beyond the academic syllabus.

I would like to extend my heartfelt gratitude to the dedicated students and faculty members of the Department of Physics for their collaborative effort and enthusiasm in bringing this edition to life. Their contributions have made this newsletter an inspiring and thought-provoking read.

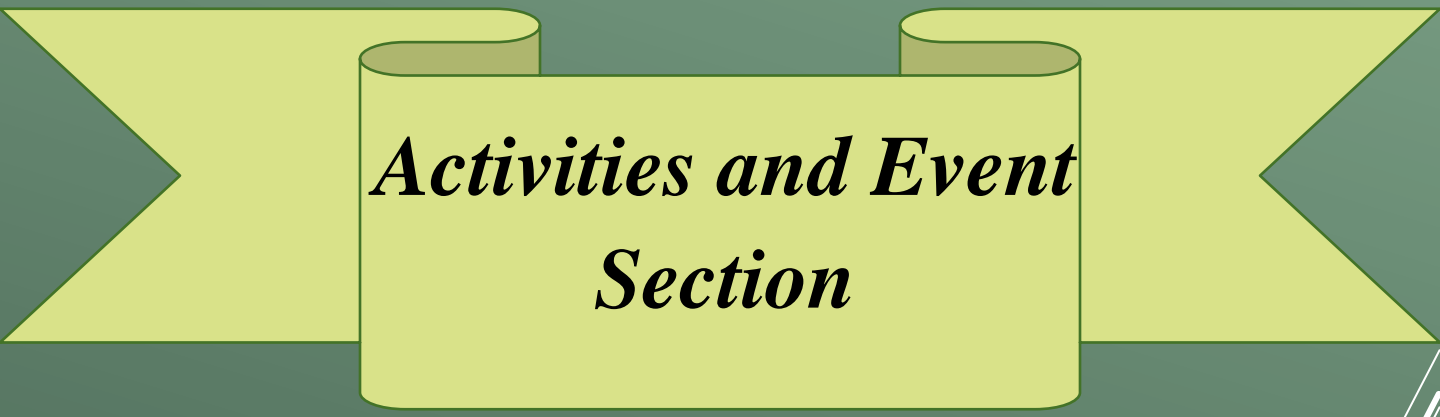
Wishing *PHYLETTER, The Physics Newsletter June 2024* continued success!

Message from HOD

Department of Physics focuses on Research oriented Undergraduate Education in fundamental and applied areas of Physics. The mission of the Department is to contribute to the advancement of the understanding of our Universe through basic and applied teaching and make the students engage in the excitement of the world of physics, what they see or what is beyond their vision. Beside undergraduate courses, considerable attention is given to research as well. The Ph.D. Program also runs here under the University of Burdwan. The faculty members of the department are dedicated to provide top-notch instructions in the most effective manner. They contribute to the world of research by publishing research papers in prestigious academic journals and deliver lectures as invitee in different academic Institutions.



Dr Anisur Rahaman



*Activities and Event
Section*

One Day Training Programme on “Laboratory maintenance and Safety management” on 24.06.2023



DBT STAR COLLEGE SCHEME SPONSORED



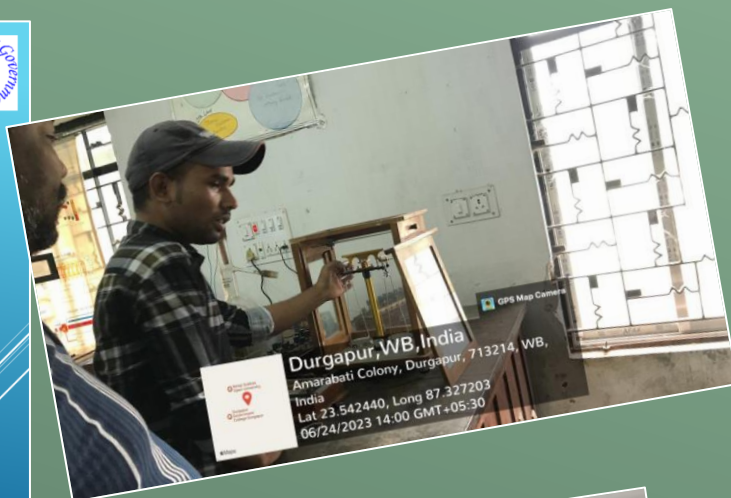
One Day Training Programme
on

Laboratory maintenance and Safety
management

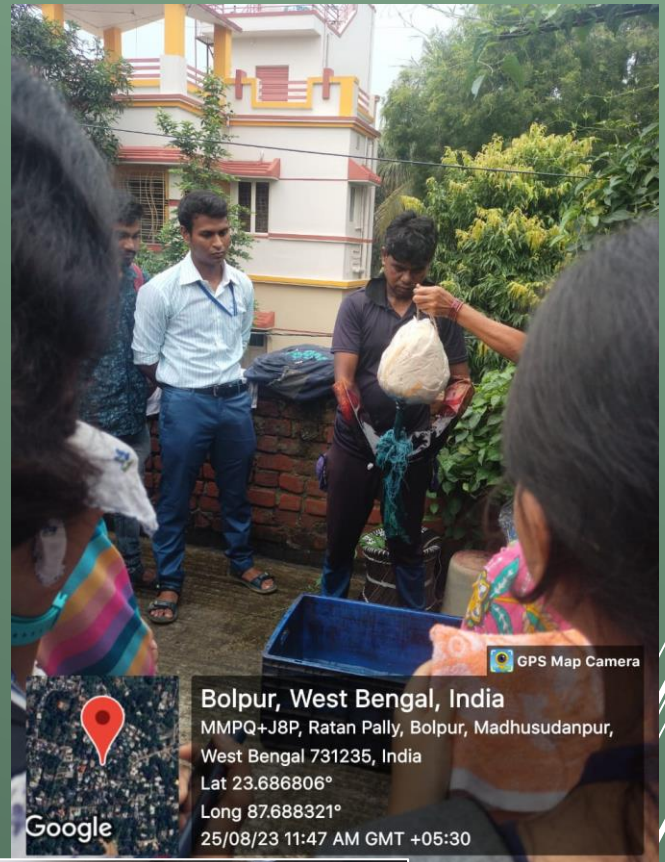
June 24, 2023

Organized by
Department of Physics
Durgapur Government College,
Durgapur - 713214

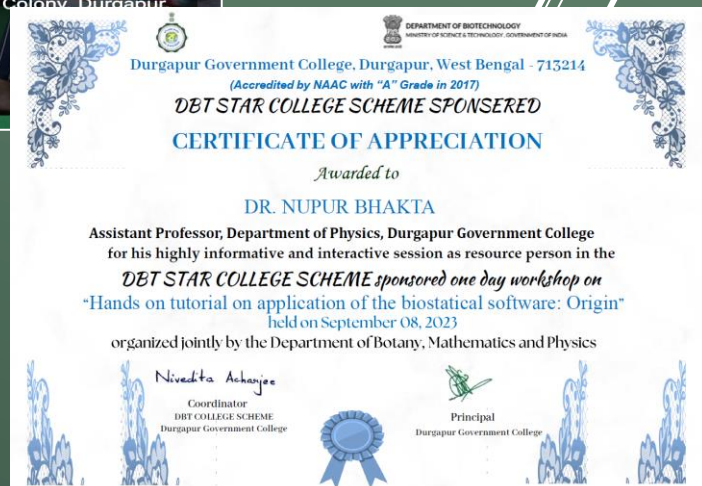
This training program aims to give training on the maintenance of Laboratory and safety to the laboratory staff of the Department of Physics.



DBT STAR COLLEGE SCHEME sponsored 1. "Rural and Industrial Visit" at Shantiniketan (Jointly with Chemistry and Mathematics) on 25.08.2023



DBT STAR COLLEGE SCHEME sponsored Online Seminar on "Introduction to Biostatistics, with emphasis on Machine Learning" on 08.09.2023



Sample certificate

DBT STAR COLLEGE SCHEME sponsored Visit to the Research Laboratory of Central Mechanical Engineering Research Institute (CMERI), focused on the practical training of students on the "Aluminum composite and their structural evaluation through instrumentation" on 08-09-2023 (Jointly with Chemistry)

**OFFICE OF THE PRINCIPAL
DURGAPUR GOVERNMENT COLLEGE**
J.N. Avenue, Durgapur, Paschim Bardhaman 713214

No. 193

Date: 31-08-2023

NOTIFICATION

This is for information to all concerned that Department of Chemistry and Physics will conduct a Student Visit Program to the Research Laboratory of Central Mechanical Engineering Research Institute (CMERI), on 08-09-2023 (Friday) under the DBT STAR COLLEGE SCHEME focused on the practical training of students on the "Aluminum composite and their structural evaluation through instrumentation" so that students will get an exposure to the aforementioned developed technology. All interested students of Departments of Physics and Chemistry are hereby notified to fill the registration link given below for the aforementioned Student Visit program.

<https://forms.gle/z8nhEKHrfrwJcGDa6>

Nivedita Acharyee

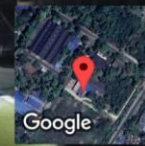
Dr. Nivedita Acharyee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College



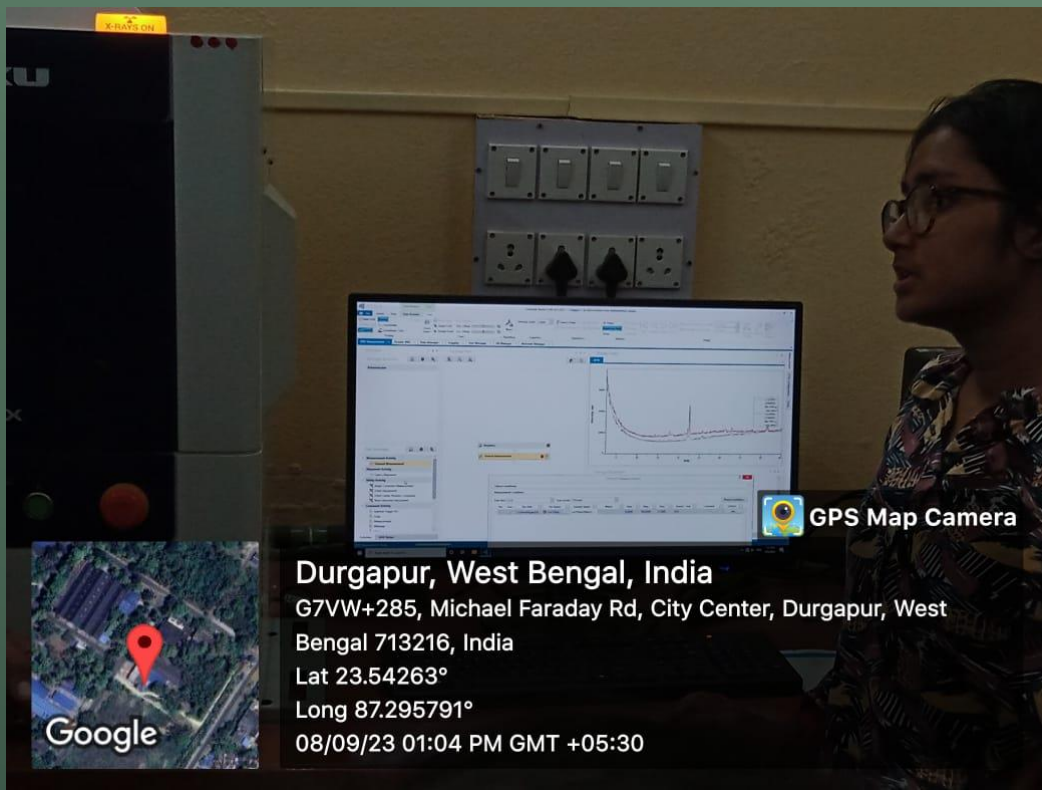
Principal
Durgapur Government College

Copy forwarded for information and necessary action to

1. Departmental Coordinators of all participating departments of DBT STAR COLLEGE SCHEME
2. All participating departments of DBT STAR COLLEGE SCHEME
3. Notice Book, Office of the Principal



Durgapur, West Bengal, India
G7VW+285, Michael Faraday Rd, City Center, Durgapur, West Bengal 713216, India
Lat 23.542631°
Long 87.295794°
08/09/23 12:17 PM GMT +05:30



Durgapur, West Bengal, India
G7VW+285, Michael Faraday Rd, City Center, Durgapur, West Bengal 713216, India
Lat 23.54263°
Long 87.295791°
08/09/23 01:04 PM GMT +05:30

Outreach program on "Common Scientific Facts behind the Common Superstitious Beliefs" on 23.09.2023

OFFICE OF THE PRINCIPAL
DURGAPUR GOVERNMENT COLLEGE
J.N. Avenue, Durgapur, Paschim Bardhaman 713214

No. 218

Date: 21-09-2023

NOTIFICATION

This is for information to all concerned that an outreach program on "Common Scientific Facts behind the Common Superstitious Beliefs", will be organized by the faculty members of Departments of Botany, Mathematics and Physics and the Coordinator, DBT STAR COLLEGE SCHEME, Durgapur Government College, on 23-09-2023 in collaboration with "Breakthrough Science Society" under the DBT STAR COLLEGE SCHEME of the institution for the students of Bidhannagar Government Sponsored Boys' High School, Durgapur.

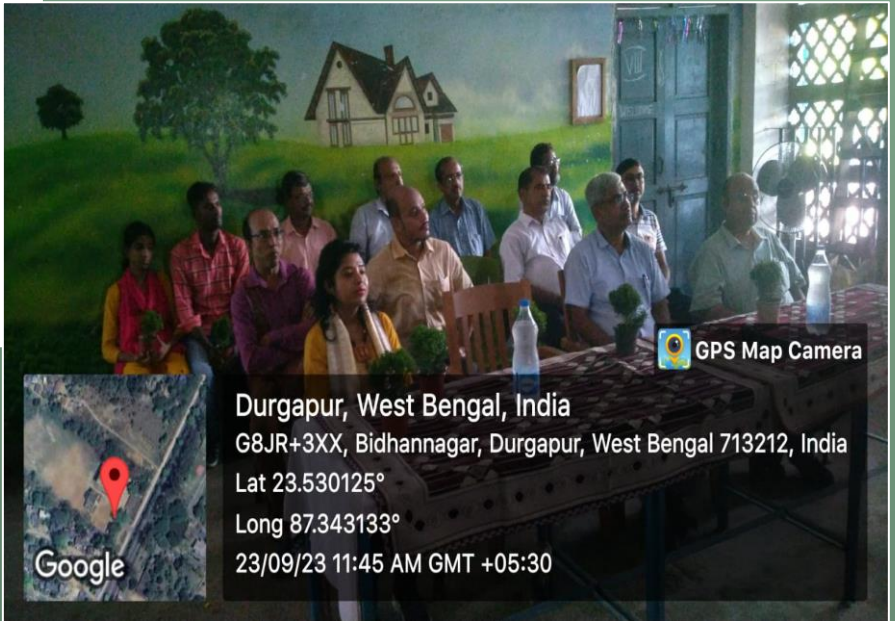
Nivedita Acharyee

Dr. Nivedita Acharyee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College



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Hands-on Training on "Digital Image Processing: An Overview" jointly with Geology and Mathematics on 26.09.2023

OFFICE OF THE PRINCIPAL
DURGAPUR GOVERNMENT COLLEGE
J.N. Avenue, Durgapur, Paschim Bardhaman 713214

No. 230

Date: 23-09-2023

NOTIFICATION

This is for information to all concerned that a Hands-on Training on "Digital Image Processing: An Overview" for B.Sc. students will be conducted by the Departments of Mathematics, Geology and Physics on 26-09-2023 from 2 pm onwards under the DBT STAR COLLEGE SCHEME of Durgapur Government College.

Departmental Coordinators of the DBT STAR COLLEGE SCHEME are requested to accordingly inform the respective students for participation in the aforementioned Hands on Training Program.

Nivedita Acharjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College



Principal
Durgapur Government College

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3. Notice Book, Office of the Principal



Durgapur, West Bengal, India
G8RG+VX9, Amarabati Colony, Durgapur, West Bengal 713210, India
Lat 23.54222°
Long 87.327421°
26/09/23 02:43 PM GMT +05:30



Durgapur, West Bengal, India
G8RG+WXX, Jawahar Lal Nehru Road, Amarabati Colony, Durgapur, West Bengal
713214, India
Lat 23.542505°
Long 87.326773°
26/09/23 02:22 PM GMT +05:30

Students practicing their teaching ability



DBT STAR COLLEGE SCHEME sponsored Invited Lecture and Interactive Session Series “Visualizing DNA in action: A Multidisciplinary research methodology approach” held on 20.05.2024 (online mode) organised jointly with Chemistry



GOVERNMENT OF WEST BENGAL
OFFICE OF THE PRINCIPAL
DURGAPUR GOVERNMENT COLLEGE
J.N. Avenue, Durgapur, Paschim Bardhaman 713214

No. 219

Date: 14-05-2024

NOTIFICATION

This is for information to all concerned that Department of Chemistry and Department of Physics of the institution will jointly organize online invited lecture and interactive session on “Visualizing DNA in action: A Multidisciplinary research methodology approach” by Dr. PADMAJA PRASAD MISHRA, Associate Professor, Chemical Sciences Division, Saha Institute of Nuclear Physics, Kolkata, on 20-05-2024 from 7 pm onwards under the DBT STAR COLLEGE SCHEME for students and faculty members of departments of Botany, Chemistry, Conservation Biology, Geology, Mathematics, Physics and Zoology.

The registration link is:

<https://forms.gle/bjUw8zYzd4BPawjFA>

The flyer of the event is enclosed herewith for details.

Heads of all Departments, Departmental Coordinators and Faculty members of the aforementioned departments are requested to register and participate in the aforementioned event and also inform all students of their respective departments to register and actively participate in the aforementioned event.

Nivedita Acharjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College



Principal
Durgapur Government College

Copy forwarded for information and necessary action to

- All faculty members of the Departments of Botany, Chemistry, Conservation Biology, Geology, Mathematics, Physics and Zoology
- Departmental Coordinators of all participating departments of DBT STAR COLLEGE SCHEME
- Departments of Botany, Chemistry, Conservation Biology, Geology, Mathematics, Physics and Zoology
- For uploading to the College Website
- Notice Book, Office of the Principal



DEPARTMENT OF BIOTECHNOLOGY
MINISTRY OF SCIENCE & TECHNOLOGY, GOVERNMENT OF INDIA

DURGAPUR GOVERNMENT COLLEGE
Affiliated to Kazi Nazrul University | UGC 2(f) and 12(B) Recognized College

DBT STAR COLLEGE SCHEME

Invited Lecture and Interactive Session Series

“Visualizing DNA in action: A Multidisciplinary research methodology approach”

May 20, 2024; Time: 7 pm



Dr. PADMAJA PRASAD MISHRA
Associate Professor
Chemical Sciences Division
Saha Institute of Nuclear Physics, Kolkata

Jointly organized by

Department of Chemistry and Department of Physics, Durgapur Government College

REGISTRATION LINK

<https://forms.gle/bjUw8zYzd4BPawjFA>

Please register on or before 18-05-2024

meet.google.com/azq-ahjt-mze?authuser=1

Padmaja Prasad Mishra (Presenting)

The Ensemble Approach

Advantages:

- > Robust: Signals are proportional to the number of molecules
- > A macroscopic observable, such as color of the solution can be used to follow the reaction in a continuous manner

Disadvantages:

- > Because all molecular process are stochastic, it is impossible to synchronize them
- > We are following what happens to the population on average.

Classical biochemical methods measures many molecule at a time

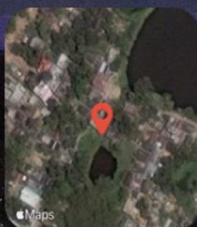
1 μ L of 1 μ M solution contains 6×10^{11} molecules



7:27 PM | azq-ahjt-mze

33°C

Sunny



Burdwan, WB, India

Jotram, Burdwan, 713104, WB, India

Lat 23.219602, Long 87.925866

05/20/2024 07:15 PM GMT+05:30

Note : Captured by GPS Map Camera

DBT STAR COLLEGE SCHEME sponsored Invited Lecture and Interactive Session Series “A Journey into Quantum Land” held on 23.05.2024 at 12 Noon organized jointly with Chemistry



GOVERNMENT OF WEST BENGAL
OFFICE OF THE PRINCIPAL
DURGAPUR GOVERNMENT COLLEGE
J.N. Avenue, Durgapur, Paschim Bardhaman 713214

No. 220

Date: 14-05-2024

NOTIFICATION

This is for information to all concerned that Department of Physics and Department of Chemistry of the institution will jointly organize online invited lecture and interactive session on “A Journey into Quantum Land” by PROFESSOR (Dr.) ANIRBAN PATHAK, Professor and Head, Department of Physics and Material Science and Engineering, Jaypee Institute of Information Technology, Noida, on 23-05-2024 from 12 noon onwards under the DBT STAR COLLEGE SCHEME for students and faculty members of the departments of Botany, Chemistry, Conservation Biology, Geology, Mathematics, Physics and Zoology.

The registration link is: <https://forms.gle/mWcignL5whjSiz68>

The flyer of the event is enclosed herewith for details.

Heads of all Departments, Departmental Coordinators and Faculty members of the aforementioned departments are requested to register and participate in the aforementioned event and also inform all students of their respective departments to register and actively participate in the aforementioned event.

Nivedita Acharjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College



Principal
Durgapur Government College

Copy forwarded for information and necessary action to

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2. Departmental Coordinators of all participating departments of DBT STAR COLLEGE SCHEME
3. Departments of Botany, Chemistry, Conservation Biology, Geology, Mathematics, Physics and Zoology
4. For uploading to the College Website
5. Notice Book, Office of the Principal

DBT STAR COLLEGE SCHEME

DBT STAR COLLEGE SCHEME is a Department of Biotechnology (DBT), support institutions location across the country. The Durgapur Government College received STAR COLLEGE SCHEME membership for six departments: Botany, Chemistry, Geology, Mathematics, Physics and Zoology. The scheme focuses on training, research, invited lectures, seminars, visits to research institutes, outreach training, and innovative initiatives to improve science teaching and student-centric learning.

INVITED LECTURE

Invited to impart the fundamental aspects of quantum computing for undergraduate students. The lecture will introduce the significance of quantum computing in solving scientific problems.



DEPARTMENT OF BIOTECHNOLOGY
MINISTRY OF SCIENCE & TECHNOLOGY, GOVERNMENT OF INDIA

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DBT STAR COLLEGE SCHEME
Invited Lecture and Interactive Session Series
“A Journey into Quantum Land”
May 23, 2024; Time: 12 noon



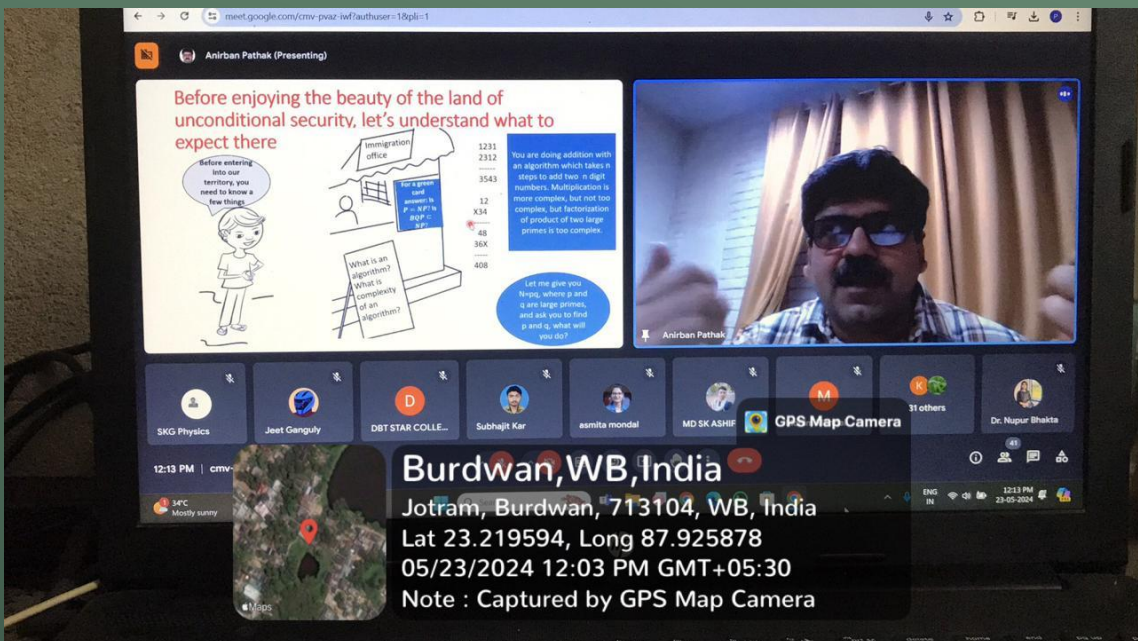
PROFESSOR (Dr.) ANIRBAN PATHAK
Professor and Head
Department of Physics and Material Science and Engineering
Jaypee Institute of Information Technology, Noida

Jointly organized by
Department of Physics and Department of Chemistry, Durgapur Government College

REGISTRATION LINK

<https://forms.gle/mWcignL5whjSiz68>

Please register on or before 21-05-2024





*Our
Achievement*



Debangana Dutta receiving “Utkarsha Samman” (Topper of Physics Honours of 2020-2023 batch) on 28nd February, 2024



Participation in Annual Sports of our College On 13.12.2023

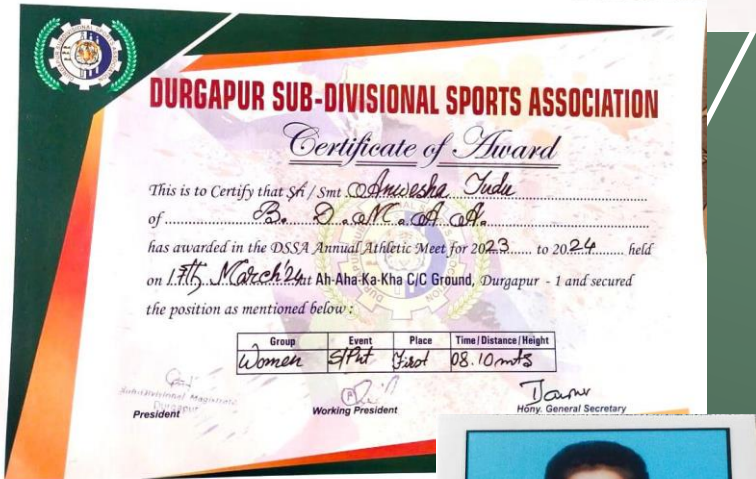
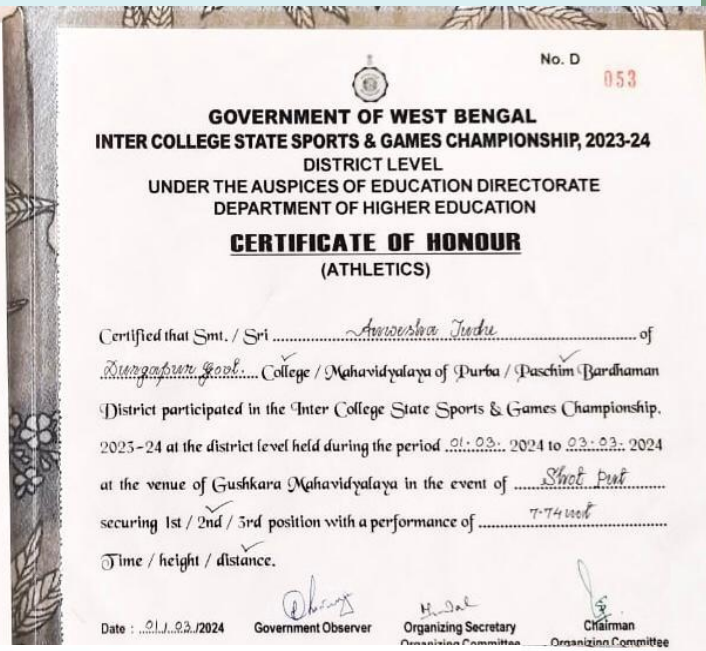


Srimoyee Chatterjee
B.Sc. (Physics Honours) 1st Semester



Performance of Anwasha Tudu in Inter College and Sub-Divisional Level sports

- **Inter College State Sports & Games Championship 2023-23 at the District level held during the period 01.03.2024 to 03.03.2024** : In the event of “Javelin Throw” and “Shot Put Throw” she secures 1st position
- **Durgapur Sub-Divisional Sports Association Annual Athletic meet for 2023-2024:** Anwasha Tudu secured 1st position in Women group “Shot Put” throw (17.03.2024) and “Javelin Throw” (on 15.03.2024).



Anwasha Tudu
B.Sc. (Physics Program) 6st Semester



Artist Section



**Cultural activity of our student on
6TH REGIONAL SCIENCE & TECHNOLOGY
CONGRESS (REGION-3), 2023-24
held on 8th and 9th January, 2024
Comprising Districts of Birbhum, Hooghly, Paschim
Bardhaman and Purba Bardhaman**

**Jointly organized by
Durgapur Government College
and
Department of Science & Technology and Biotechnology
(DSTBT), Government of West Bengal**



**Puspita Mukherjee
B.Sc. (Physics Honours) 2nd Semester**