



DURGAPUR GOVERNMENT COLLEGE

DEPARTMENT OF CHEMISTRY

J. N. Avenue, Durgapur, Paschim Bardhaman, Pin Code-713214

Email: chemistrydgc2015@gmail.com

No. *DGC/CHEM/2024/Add on Course/13*

Dated: **06-03-2024**

NOTIFICATION

In pursuance of the College Notice No. 100 dated 06-03-2024, this is for information to all students that Department of Chemistry, Durgapur Government College, will offer the **Add on Course on "Bioactivity through Computation"** during the period **07-03-2024 to 30-04-2024**. This topic is not included in the course curriculum of the affiliating university and aims for bridging the curricular gap focussing the skill enhancement of students.

The registration link for the aforementioned course is

<https://forms.gle/YoyTxhWUrz7EAdDg9>

The flyer of the course is enclosed herewith.

The inaugural session of the aforementioned add on course will be held in Room No. 301 (Smart Classroom, Department of Chemistry) on 07-03-2024 from 2 pm onwards.

It is mandatory for all students of the Department of Chemistry to remain present in the inaugural session. Hard Copy of the attendance will be recorded during the inaugural session.

To promote the interdisciplinary approach, students of other departments who will register for the aforementioned add on course should email to the Course Coordinators (Dr. Snigdha Chandra (chemistrisc11@gmail.com) or Dr. Nivedita Acharjee (nivchak1991@gmail.com) subsequently from 08-03-2024 and apply for registration on or before 15-03-2024.

Countersigned
Principal
Durgapur Government College

Head
Department of Chemistry
Durgapur Government College

Copy to:

- Student Notice Boards (Department of Chemistry)
- All Departments
- Principal, Durgapur Government College
- Coordinator, IQAC, Durgapur Government College
- Secretary, Teachers' Council, Durgapur Government College
- Notice Book, Department of Chemistry, Durgapur Government College

Who can apply?

All undergraduate and post-graduate students of Departments of Chemistry, Botany, Conservation Biology, Geology, Mathematics, Physics and Zoology, Durgapur Government College

How to apply?

Registration Link

<https://forms.gle/YoyTxhWURz7EAdDg9>

Course Coordinators

Dr. Snigdha Chandra

Associate Professor and Head,
and

Dr. Nivedita Acharjee,

Assistant Professor
Department of Chemistry
Durgapur Government College

Queries (if any) regarding the course should be sent by e-mail to chemistrysc11@gmail.com or nivchak1991@gmail.com



Durgapur Government College

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

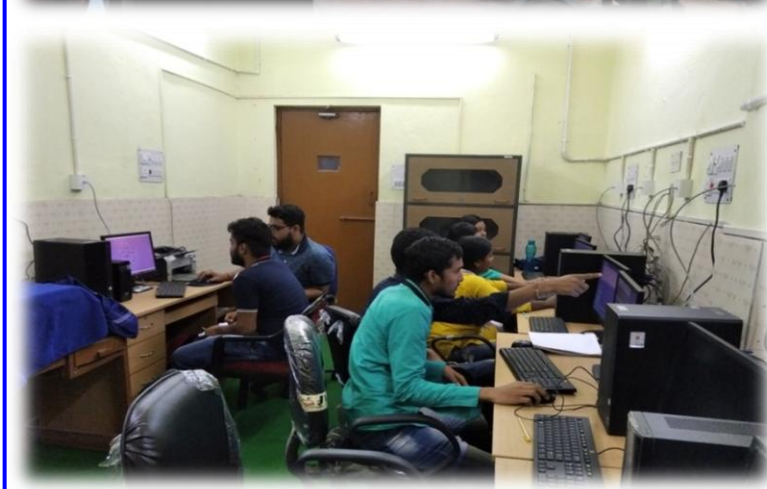
Add on Course on "Bioactivity through Computation"

March 07, 2024 to April 30, 2024



Offered by

Department of Chemistry
Durgapur Government College



Are you interested in computers and want to apply computation to study bioactivity of compounds?

**Have no ideas on “Data analysis”?
We have got “something special” for you**

Add on Course on “Bioactivity through Computation”

- ✓ After registration to the course, students will receive confirmation by e-mail
- ✓ Lectures will be delivered both through online and offline mode
- ✓ Hands on training classes will be conducted
- ✓ No Fee will be charged for the course
- ✓ Attendance will be taken in each class
- ✓ Students have to submit their assignments on or before the stipulated date and time
- ✓ The duration of the add on course will be 8 weeks with total 35 contact hours excluding assessment.
- ✓ Successful completion of the course is subject to attendance, MCQs and the student project submission by the students.
- ✓ Certificates and Grade Cards will be provided to students after successful completion of the course.

Syllabus

Contact Hours = **35 hours (Excluding Assessment)**; Duration: **8 Weeks**

Course Objectives

Use of Computers is inevitable in almost each and every field of education, especially for the science and technology. Computational studies has gradually emerged as an important branch to understand the fruitful interplay between the theory and experiments in research and industry. This initiative has been taken by the Department of Chemistry, Durgapur Government College to enable students use different software, online sites and analyze data, which will be required for their higher studies and will also make them industry ready in the field of Computational Chemistry and Computational Biology

Course Outcome

After completion of the course, students will be able to use different software for drawing chemical structures, feeding them to the online resources for the prediction of bioactivity of organic compounds

COURSE STRUCTURE

- Introduction to Computational Chemistry and Computational Biology and their significance in pharmaceutical industries.
- Hands on Experience on literature survey of biologically active compounds
- Hands on Experience on drawing structures of chemical compounds
- Hands on Experience on drawing structures of bioactive organic compounds
- Hands on Experience on generating mol and SMILES of bioactive organic compounds
- Submission of mol files to the Pass online software and determining the biological activities of the organic compounds
- Analysis of the determined biological activities of the organic compounds