



## Durgapur Government College

J.N.Avenue,Durgapur,District-PaschimBardhaman,WestBengal,Pin-713214

Website: <https://www.durgapurgovtcollege.ac.in/>

E-mail: [dpggovtcollege@gmail.com](mailto:dpggovtcollege@gmail.com)

### Student Projects completed under DBT STAR COLLEGE SCHEME beyond the course curriculum to ensure experiential learning (Academic Session: 2023-24)

#### **Student Project on "Bioactivity of organic compounds by computational studies" (Organizing Departments: Chemistry, Botany and Zoology) (2023-24) under DBT STAR COLLEGE SCHEME**

*Participating Students: UG Semester-V Botany Honours (2022-23), UG Semester-V, Zoology Honours (2022-23), UG Semester-V Chemistry Honours (2022-23), UG Semester-IV Chemistry Honours (2023-24), UG Semester-II Chemistry Honours (2023-24), UG Semester-VI Chemistry Honours (2023-24), UG Semester-II Botany Honours (2023-24)*

*Students used chem draw software to draw the structures of biologically active compounds selected by them, they prepared the mol files and fed them into the Pass online software site to obtain the biologically relevant properties of the compounds. This course has equipped students towards the basics of computational chemistry and computational biology studies. They then analyzed the biological activity of the selected compound and presented their prepared projects through power-point presentations.*

No.	Name of UG Student	Project Completed (2023-2024)	You Tube Link of Project presentation
1	Asmita Adak	STUDYING THE BIOACTIVITY OF VITAMIN C(Ascorbic Acid) and THEOBROMINE	<a href="https://youtu.be/gjNGkMhadgM">https://youtu.be/gjNGkMhadgM</a>
2	Bishnupriya Pal	STUDYING THE BIOACTIVITY OF CITRULLINE AND TANNIN THROUGH COMPUTATION	<a href="https://youtu.be/2Ww4TA9Av_Q">https://youtu.be/2Ww4TA9Av_Q</a>
3	Debam Ghosh	STUDYING THE BIOACTIVITY OF AMOXICILLIN AND OMEPRAZOLE THROUGH COMPUTATION	<a href="https://youtu.be/TiIlZR00xyQ">https://youtu.be/TiIlZR00xyQ</a>
4	Debjeet Show	STUDYING THE BIOACTIVITY OF GLUCOSE AND FRUCTOSE THROUGH COMPUTATION	<a href="https://youtu.be/NqCTuya5_V4">https://youtu.be/NqCTuya5_V4</a>
5	Dhrubajyoti Akhuli	STUDYING THE BIOACTIVITY OF ASPERTAME AND AUXIN THROUGH COMPUTATION	<a href="https://youtu.be/j1k0JXWBZ_A">https://youtu.be/j1k0JXWBZ_A</a>
6	Kiran Rajbhar	STUDYING THE BIOACTIVITY OF ALPHA PINENE AND SARIN THROUGH COMPUTATION	<a href="https://youtu.be/wQNfoQesoWQ">https://youtu.be/wQNfoQesoWQ</a>
7	Kushal Pramanik	STUDYING THE BIOACTIVITY OF GERANIOL AND AVOBENZONE THROUGH COMPUTATION	<a href="https://youtu.be/k2IYEYu-JnU">https://youtu.be/k2IYEYu-JnU</a>
8	Prachi Bhattacharya	STUDYING THE BIOACTIVITY OF SODIUM BENZOATE AND CITALOPRAM THROUGH COMPUTATION	<a href="https://youtu.be/qioJ6QhAk4E">https://youtu.be/qioJ6QhAk4E</a>
9	Priyabrata Saha	STUDYING THE BIOACTIVITY OF SODIUM IBUPROFEN AND OLEIC ACID THROUGH	<a href="https://youtu.be/fsbgnaVG6tE">https://youtu.be/fsbgnaVG6tE</a>



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		COMPUTATION	
10	Rajashri Maji	STUDYING OF BIOACTIVITY OF ROSMARINIC ACID AND CHRYSIN THROUGH COMPUTATION	<a href="https://youtu.be/_2BqoVpnnok">https://youtu.be/_2BqoVpnnok</a>
11	Sanat Mandi	STUDYING THE BIOACTIVITY OF ISOAMYL ACETATE AND MEFLOQUINE THROUGH COMPUTATION	<a href="https://youtu.be/rKR49yodlWI">https://youtu.be/rKR49yodlWI</a>
12	Subhajit kar	STUDYING THE BIOACTIVITY OF METHYL SALICYLATE AND CAROTENOIDS THROUGH COMPUTATION	<a href="https://youtu.be/ReaMFNU6svg">https://youtu.be/ReaMFNU6svg</a>
13	Suherita Shyam	STUDYING THE BIOACTIVITY OF GALLIC ACID, ALOE EMODIN AND PARADOL THROUGH COMPUTATION	<a href="https://youtu.be/aFBSbn_lOuc">https://youtu.be/aFBSbn_lOuc</a>
14	Susovan Das	STUDYING THE BIOACTIVITY OF CANNABIDIOL AND CHLOROQUINE THROUGH COMPUTATION	<a href="https://youtu.be/ssE3KvPluV0">https://youtu.be/ssE3KvPluV0</a>
15	Tania shyam	STUDYING THE BIOACTIVITY OF "EPICATECHIN" AND "SALICYLIC ACID" THROUGH COMPUTATION	<a href="https://youtu.be/yHqO_uY1lKo">https://youtu.be/yHqO_uY1lKo</a>
16	Tirtha Mukherjee	STUDYING THE BIOACTIVITY OF ASPIRIN, MENTHOL AND VANILLIN THROUGH COMPUTATION	<a href="https://youtu.be/ckCUZA7f-b0">https://youtu.be/ckCUZA7f-b0</a>
17	Utsha Hazra	STUDYING THE BIOACTIVITY OF CITRIC ACID AND SUCCINIC ACID THROUGH COMPUTATION	<a href="https://youtu.be/74Uvii9i22I">https://youtu.be/74Uvii9i22I</a>

Student Project on Vegetation Mapping organized by Department of Botany and Geology under the DBT STAR COLLEGE SCHEME (2023-24)





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### Student Project on "Screening of some plant species for antiproliferative activity based on basic bench top assays " (Organizing Department: Zoology) (2023-24) UNDER DBT STAR COLLEGE SCHEME

Participating Students: UG Semester-V Zoology Honours and UG Semester-III Zoology Honours

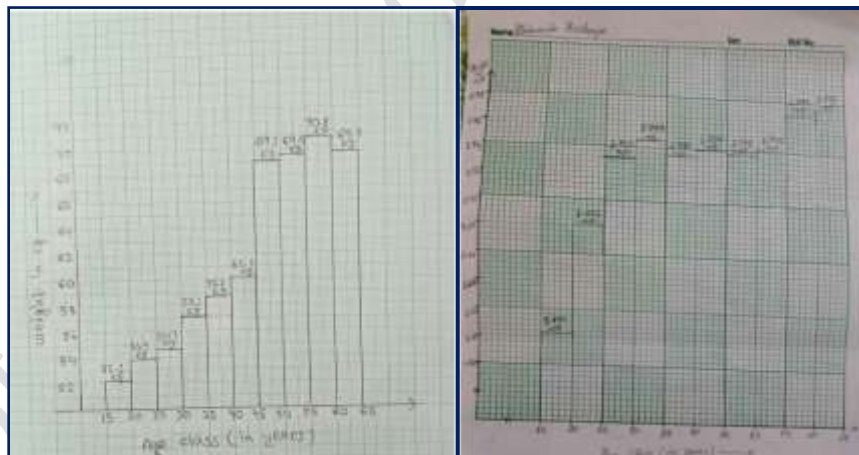
This study revealed the screening of eight traditionally used medicinal plants (*Synedrellanodiflora*, *Holoptelea integrifolia*, *Polyalthialongifolia*, *Moringaoleifera*, *Schleicheraoleosa*, *Cynodondactylon*, *Aeglemarmelos*, and *Litsea glutinosa*) for their antiproliferative effects using some basic bench-top assays. This study may open up a new possibility to look at the scientific validation and justification of using the plants for therapeutic purposes.



### Student Project on "Graphical representation and Interpretation of Data of Height/Weight of a sample of 100 Humans in Relation to their Age and Sex" (Organizing Department: Zoology) (2023-24) UNDER DBT STAR COLLEGE SCHEME

Participating Students: UG Zoology Honours and Program Students

Students learnt to prepare the Correlation Plot from bivariate data taking height and weight of 100 males and 100 females, histogram from data taking height of 100 males and 100 females and accordingly learnt the graphical demonstration and data interpretation procedure





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### Student Project on "A Field Report on Study of Nests and Nesting Habits of the Birds"(Organizing Department: Zoology) (2023-24) UNDER DBT STAR COLLEGE SCHEME

Participating Students: UG Zoology Honours Students

Students learnt to outline the merit and need for studying the nesting biology of birds in India, but also suggest best practices, specific to the Indian context, which will help to ensure that the research is done legally, ethically, and in a way that can provide important new information to advance Indian ornithology without compromising the welfare of birds.



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