

# Add-on Course on Statistical methods and computer applications in Natural Sciences

*Organized by*

Department of Geology,  
Durgapur Government College



**7<sup>th</sup> March-18<sup>th</sup> April, 2024**

**Total lecture hours - 40**

## **TARGET AUDIENCE**

UG and PG students of Geology and UG students of Chemistry, Zoology, and Botany departments of Durgapur Government College

## **LEARNING OUTCOMES**

- Data Analysis and Visualization Skills-  
*Ability to collect, process, and analyze geological and environmental data using various software tools.*
- Modeling and Simulation Competence-  
*Understanding and application of computer models and simulations to study natural processes.*
- Critical Thinking and Problem-Solving-  
*Development of critical thinking skills to assess and solve complex problems in different branches of Natural sciences using computer applications.*
- Interdisciplinary Integration:  
*Integration of computer applications with other disciplines, fostering a holistic understanding of complex natural systems.*
- Communication Skills-  
*Ability to communicate scientific findings effectively through written reports, presentations, and visualizations.*

## **ABOUT THE COURSE**

It is our great pleasure to announce the add-on training course on “**Statistical methods and computer applications in Natural Sciences**”. The program envisions hands on training on statistical techniques and related computer applications in different branches of Natural Sciences, aiming to enhance the ability of the students to resolve the complex natural processes.

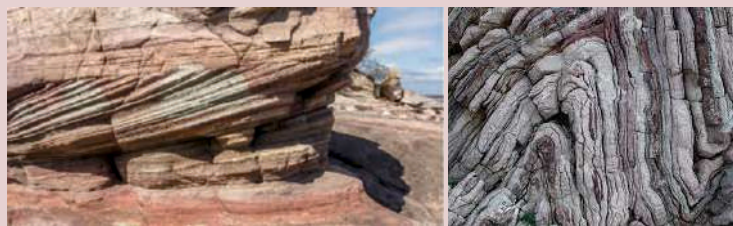
## **COURSE COORDINATORS**

- Dr. Saradee Sengupta, Assistant professor of Geology, Durgapur Government College
- Dr. Proloy Ganguly, Assistant professor of Geology, Durgapur Government College

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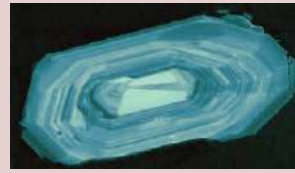


Name of the resource person	Course content	Date & time	Lecture hour(s)
Principal Durgapur Government College Head of Geology Department Durgapur Government College	Introduction to the add-on course	07.03.2024	1 hour (online)
Dr. M. K. Devrajan Senior Mineral Exploration Consultant	Importance of proper collection, organisation, and documentation of data, Sample size, Data analysis, and interpretation, Basic Statistics with hands-on exercises using Excel, Project Work	14.03.2024 to 16.03.2024, 18.03.2024 to 20.03.2024 6 pm to 7 pm	6 classes each of 1 hour (online)
Dr. Pritha Goswami Assistant Professor Durgapur Government College	Basics of Statistical analysis and use of software in Palaeontological data analysis	19.03.2024 to 22.03.2024	4 classes each of 2 hours (offline)
Dr. Dola Chakraborty Assistant Professor Durgapur Government College	Basics of Statistical analysis for sedimentological studies in coastal areas along with basics of uses of theodolite in surveying	21.03.2024 to 23.03.2024 5 pm to 7 pm	3 classes each of 2 hour (offline)
Dr. Sanghita Dasgupta Malavya Post Doctoral Fellow Banaras Hindu University	Introduction and hands-on training on Adobe Illustrator	25.03.2024 & 26.03.2024 7 pm to 8 pm	2 classes each of 1 hour (online)
Dr. Suchana Taral Assistant Professor Pondicherry University	Field data collection and statistical analysis in sedimentology	27.03.2024 & 28.03.2024 7 pm to 8 pm	2 classes each of 1 hour (online)

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## Name of the resource person

## Course content

## Date & time

## Lecture hour(s)

Dr. Saradee Sengupta  
Assistant Professor  
Durgapur Government  
College

How to collect data  
from fossils bones,  
Introduction and  
hands-on training  
on TNT and Mesquite

29.03.2024  
&  
30.03.2024  
7 pm to 8 pm

2 classes  
each of 1 hour  
(online)

Dr. Sujoy Dasgupta  
Assistant Professor  
Jogomaya Devi College

Concept of Stereonet,  
plotting of lines and  
planes, Introduction and  
hands-on training on  
Stereoplot

01.04.2024  
to  
04.04.2024,  
8 pm to 9 pm

4 classes each  
of 1 hour  
(online)

Dr. Rwiti Basu  
Assistant Professor  
Asutosh College

Introduction and  
hands-on training on  
Global Mapper and  
its Usage

05.04.2024  
&  
06.04.2024,  
8 pm to 9 pm

2 classes each  
of 1 hour  
(online)

Dr. Proloy Ganguly  
Assistant Professor  
Durgapur Government  
College

Plotting and  
interpretation of  
geochemical and  
geochronological  
data by GCD kit and  
Isoplot,  
Phase diagram modeling  
by Perple\_X

08.04.2024  
to  
12.04.2024,  
5 pm to 6 pm

5 classes  
each of 1 hour  
(offline)

Dr. Supratim Pal  
Associate Professor  
Durgapur Government  
College

Application of data  
processing for preparing  
logical and meaningful  
reports/contents in Geology

17.04.2024  
&  
18.04.2024,  
5 pm to 6 pm

2 classes  
each of 1 hour  
(offline)

Submission of projects/assignments and short group presentations by the participants will be done at the end of the course.

