

# Government of West Bengal OFFICE OF THE PRINCIPAL Chandernagore College



Formerly College Dupleix

Strand Road, Chandannagar, Hooghly, West Bengal, India, Pin-712136

 $Website: \underline{www.chandernagorecollege.ac.in} \\ Mail: \underline{office@chandernagorecollege.ac.in}$ 

Mob:91-7439603177,Tel:91-33-26835290

ISO90001:2015,ISO14001:2015 and ISO50001:2018 Certified Institution

## 3.2.1. Reports of the Know Your Ganges Programme

### List of activities:

S1. No.	Name of the Event	Date of the Event
1	Orientation programme and hands-on-training on	13.06.2022 &
	Know Your Ganges prograame	24.06.2022
2	One-Day Workshop on "Analysis of	13.09.2022
	Environmental Data" under "Know Your Ganges"	
	Programme	
3	Research Methodology on Environmental Studies	02.03.2023
	and Research Manuscript Writing" under Know	
	Your Ganges programme	
4	One-Day Workshop on Designing of Multi-	04.04.2023
	/InterDisciplinary Project Proposals for Student-	
	Centric Activities and Allied Research Work	
5	Seminar Lecture on Environment and	05.06.2023
	Sustainability	







# Orientation Programme and Hands-on Training on 'Know Your River Ganges'

Organized by

Chandernagore College &

Estuarine and Coastal Studies Foundation

on

13.06.2022 and 14.06.2022

**SUMMARY REPORT** 

**Director Estuarine and Coastal Studies Foundation** 

Journ Park

J. Smith

Principal Chandernagore College

Principal Chandernagore College

Place: Chandernagore College

**Date**: 13th and 14th June 2022

**Time**: 11 AM - 5 PM

## **Objectives:**

1. To grow interest among the undergraduate students about the River Ganges by implementing science through hands-on method.

- 2. Check the water quality and biodiversity of the River Ganges for building a long term Data Bank.
- 3. Disseminate knowledge and awareness among students regarding multi-disciplinary studies.

## Participants:

- 1. Semester-IV (Honours) Students and Faculty Members of Departments of Botany, Chemistry, Zoology and Environmental Science of Chandernagore College.
- 2. Students and Scientists of Estuarine and Coastal Studies Foundation (ECSF).

## **Activities:**

## Day 1:

Orientation classes in multidisciplinary studies conceived on River Ganges presented by the Scientists of ECSF and Faculty Members of the Departments of Botany, Zoology, Chemistry & Environmental Science.



a. Department of Botany



b. Department of Environmental Science





c & d. Scientists of Estuarine and Coastal Studies Foundation

Principal
Chandernagore College

**Field Work**: Water Quality Parameters (pH, TDS, Temperature, Salinity, and Dissolved Oxygen) and the methodology of Plankton (Phytoplankton, Zooplankton) collection by plankton-net were demonstrated by the students and Scientists of Estuarine Coastal Studies foundation. Collection was made from **Joraghat** (N2251'25.5", 08822'12.0") and **Ranighat** (N22°51'36.7", E 088°22'17.1) of Chandernagore. Students of different departments had analyzed the water quality by their own hands.





a. & b. Plankton Collection from the River Ganges in Chandannagar





c. & d. Checking Water Quality by Multi-parameter Probe

**Lab work:** Identification of zooplankton and phytoplankton were shown by the Scientists and students of Estuarine and Coastal Studies Foundation. Students of the Chandernagore College very eagerly practiced the detecting procedures which were shown to them.





a. Preparation for phytoplankton analysis in Lab b. Collection of Planktons from Ganga

Principal
Chandernagore College

## **Day 2:**

**Laboratory Work** – Students and Faculty members of Chemistry Department demonstrated the methodology of determination of Total Hardness and Ionic Conductance of the collected river water samples. Students also measured Dissolved Oxygen in the collected river water samples by titration method.



a. Total hardness of water measuring process described by a student of Chemistry Department







a. b. & c. Measurement of Dissolve Oxygen (DO) in laboratory

**Field Work** -The student learned about water collection in Winkler bottles for measuring Dissolved Oxygen by the scientist of ECSF. Students repeatedly practiced this task.









a. b. & c. Collecting water samples in the Winkler bottles

#### Result:

PARAMETER	RANIGHAT	JORAGHAT
рН	8.9	8.8
Salinity (mS)	0.1	0.1
Temperature (°C)	31.6	31.6
Total Dissolved Salt (mg/L)	137.7	143.3
Dissolved Oxygen (mg/L)	4.95	5.02

### Number of Plankton Species Found from Ganges water:

PLANKTON	GENUS FOUND	
Phytoplankton	Alocoseria sp.	
Zooplankton	Moina sp., Cyclops sp., Daphnia sp.	

## Hardness of the Sample Ganges Water

In clear solution	122.81 ppm
In homogeneous solution (by mixing the sediment)	112.28 ppm

Conductance of water sample - 0.34 mS

Dissolved Oxygen (by Winkler Method) - 4.48 mg/L

#### Conclusion:

This orientation programme and hands-on-training held on 13.06.2022 and 24.06.2022 has created the quest for knowledge beyond the syllabus and it influences the student to think beyond their bookish knowledge. This activity program is quite exception because it is not only a workshop that grow their knowledge but it is practice exercise also.

Through this program students know about the water quality parameter like pH, Salinity, TDS, Temperature, and Dissolved Oxygen, of the River Ganges at Chandannagar. How these parameters are related to each other and what is the impact of these parameters on the environment? They had taken the water quality data by their own hands with the help ECSF instrument (Multi-parameter Probe). The students also learnt about plankton, how it is collect from water body by using plankton-net and they practiced this method various times. Hardness and conductance of the Ganges would come upon us. So, the outcomes of this program would help to everyone Know about Ganges that reveals how these natural parameters are disturbed now a day. When students were doing the field activity, they saw many local people were bathing, washing their cloths in the river that obviously disturb the natural parameters as a result student found the pH is very high in this spot. So, through this program, it is clear that we need to spread awareness about the cleanliness of Ganges in our locality. If necessary, we need to involve municipality of the Chandernagore also.

**Future Perspective**: By the weekly or monthly monitoring of Ganges at Chandernagore we are able to create a scientific data set which clarifies how seasons and weathers are affecting the water quality parameters of Ganges in and around Chandannagar. Diversity of plankton, how it regulates energy from lower level to higher level.

**Feedback:** As a student, I am very grateful to Estuarine and Coastal Studies Foundation for give me this opportunity to participate in this workshop.

Principal Chandernagore College

## OFFICE OF THE PRINCIPAL

## Chandernagore College

Strand Road, Barabazar, P.O. Chandernagore

Dist. Hooghly, West Bengal

## NOTICE

No. 375 09/09/2022

In pursuance of the MoU signed with Estuarine and Coastal Studies Foundation, Howrah and Chandernagore College, Chandannagar, an One-Day Workshop on "Analysis of Environmental Data" under "Know Your Ganges" Programme is going to be held on 13.09.2022 at 10: 30 AM in the Room No. 205 (Computer Laboratory), Gurudeb Bhawan Campus, Chandernagore College.

All the SEM-V (Honours) Students of Botany, Chemistry, Environmental Science and Zoology are requested to arrive at the venue at least 15 minutes before the scheduled time for participating in the aforesaid programme.

#### **Resource Person:**

Dr. Sourav Pal
Director
Estuarine and Coastal Studies Foundation

Coordinator, IQAC
Chandernagore College

Principal Chandernagore College

Hijde.

College \* Full on H. Jan Co. Chander

Secretary
Teachers' Council
Chandernagore College

## **Event Report**

- 1. **Name of the Event**: One day Workshop "Analysis of Environmental Data" under Know your Ganges programme
- 2. **Date:** 13.09.2022
- 3. Venue: Computer Lab, Chandernagore College

## 4. Objectives:

- a) How to collect data from the field.
- b) Give an opportunity to the students to handle the data collected from field.
- c) Usage of software to analyze the data related to environmental field experiments.
- d) Handle the R-software to environmental analyze data.

## 5. Outcome:

a) After completion of the workshop students/participants are able to collect, and analyze environmental data by using R-software and other related software's.



Principal

Chandernagore College

Principal Chandernagore College Coordinator, IQAC

Chandernagore College

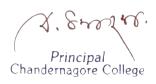
Geo-tagged Photographs of the Event: One day Workshop "Analysis of Environmental Data" under Know your Ganges programme held on 13.09.2022













sl no	Roll No	Student Name	Course Name	Honours Sub Name	ta" under "Know Your Ganges Signature
CONTRACTOR OF THE PARTY OF THE	1 200340400012	ANKIT SAHA	B.Sc. Hons	BOTANY	Ankit Saha.
	2 200340400016	ARINDAM GUHA	B.Sc. Hons	BOTANY	Abundam Gulas
3 (20)	3 200340400018	ARPITA MONDAL	B.Sc. Hons	BOTANY	
	4 200340400024	JOY GHOSH	B.Sc. Hons	BOTANY	Joy Ghosh.
	5 200340400025	JYOTISHKO SASMAL	B.Sc. Hons	BOTANY	
	5 200340400041	PRANATI AICH	B.Sc. Hons	BOTANY	Pronali Dich
	7 200340400050	PRIYA ADHIKARY	B.Sc. Hons	BOTANY	
{	3 200340400052	PRONATI MONDAL	B.Sc. Hons	BOTANY	
9	200340400058	RANI MAL	B.Sc. Hons	BOTANY	Rani Mal.
10	200340400071	SAPTAK ADHIKARY	B.Sc. Hons	BOTANY	
11	200340400076	SATHI GHOSH	B.Sc. Hons	BOTANY	
12	200340400083	SHARMISTHA DEBNATH	B.Sc. Hons	BOTANY	
	200340400095	SOUMI MANNA	B.Sc. Hons	BOTANY	Soumi Mana.
14	200340400106	SOVAN DEY	B.Sc. Hons	BOTANY	Sovan Ney
15	200340400006	ANANTA BISWAS	B.Sc. Hons	CHEMISTRY	<b>一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个</b>
16	200340400008	ANIK DAS	B.Sc. Hons	CHEMISTRY	Anik Das
17	200340400023	JEET HARIJAN	B.Sc. Hons	CHEMISTRY	Jeef Harijan.
18	200340400029	MAFEJUR HALDER	B.Sc. Hons	CHEMISTRY	Marejur Halder
19	200340400032	MOUTUSI SAHA	B.Sc. Hons	CHEMISTRY	
20	200340400035	OISHI ADHIKARI	B.Sc. Hons	CHEMISTRY	Bitam Chakrabosity.
21	200340400044	PRITAM CHAKRABORTY	B.Sc. Hons	CHEMISTRY	
22	200340400047	PRITHA MUKHOPADHYAY	B.Sc. Hons	CHEMISTRY	Pritha Mukhopadhyay
23	200340400048	PRITI BISWAS	B.Sc. Hons	CHEMISTRY	The same of the
24	200340400051	PRIYA SASMAL	B.Sc. Hons	CHEMISTRY	
25	200340400067	SAIKAT NAYAK	B.Sc. Hons	CHEMISTRY	
26	200340400079	SAYAN ROY	B.Sc. Hons	CHEMISTRY	Sayon Roy
27	200340400086	SHOURIN GHOSH	B.Sc. Hons	CHEMISTRY	Showin Guosh
28	200340400087	SHRUTI SHAW	B.Sc. Hons	CHEMISTRY	Showti Show
29	200340400088	SHUBHRA METE	B.Sc. Hons	CHEMISTRY	Grade State
30	200340400089	SHUVANGI SIL	B.Sc. Hons	CHEMISTRY	Sheer angi Sil
31	200340400092	SOHAM KOLEY	B.Sc. Hons	CHEMISTRY	Johan Koley
32	200340400116	SURAJ CHOWDHURY	B.Sc. Hons	CHEMISTRY	DETION TO AND
33	200340400117	SUSMITA MAHALI	B.Sc. Hons	CHEMISTRY	
34	200340400026	KOYENA GHOSH	B.Sc. Hons	ENVIRONMEN T SCIENCE	Kayena Ghash.
			Brand Harris	ENVIRONMEN	4
35	200340400030	MEGHNA KARMAKAR	B.Sc. Hons	T SCIENCE	noghna Kurmker
	ME STATE OF THE STATE OF			ENVIRONMEN	
36	200340400109	SRIJITA PAL	B.Sc. Hons	T SCIENCE	C.ollege *
37	200340400007	ANANYA MAITY	B.Sc. Hons	ZOOLOGY	2000
38	200340400017	ARNAB BISWAS	B.Sc. Hons	ZOOLOGY	
39	200340400020	BASANTI MISTRI	B.Sc. Hons	ZOOLOGY	
40	200340400036	PARINITA MONI	B.Sc. Hons	ZOOLOGY	P
41	200340400038	PAYEL CHAL	B.Sc. Hons	ZOOLOGY	110
42 2	200340400053	PROVANKA DEBNATH	B.Sc. Hons	ZOOLOGY	Chando!
43 2	200340400060	RITA BARAL	B.Sc. Hons	ZOOLOGY	
44 2	200340400064	RUPSA KHOTEL	B.Sc. Hons	ZOOLOGY	7.8774
45 2	200340400091	SNEHA SING	B.Sc. Hons	ZOOLOGY	1
46 2	200340400108	SREETAMA SARKAR	B.Sc. Hons	ZOOLOGY	Ducha Sing Principal
-	00340400114	SUMAN BARMAN	B.Sc. Hons	ZOOLOGY	Chandernagore Coll
	00340400118	TAMONASH GHOSH	B.Sc. Hons	ZOOLOGY	Louman Barman
10000 100	00340400119	TIASHA NANDI	The same of the sa	SERVICE AND ADDRESS OF THE PARTY OF THE PART	
	THE RESIDENCE OF THE PARTY OF T	ar Parl. Directon	B.Sc. Hons	ZOOLOGY	The same of the sa

Faculty: Some Park. Director. Eest Sp13/4/22 1. Gantam Gargerly, Asst. Prof in Botany Nagr 13/9/22 2. Tusas Karti Samonta, Acst. Prof. in Economics T.a. Suto 13/9/22

3. Chiranjit Mulcherjee, Asst. Port. in 13thorny Cy 13/9/22 4. Dipanuta Majundan AM. Bot. in Chemits Fur 13/9/2022 5. Soumya Ganguly Neogi 13/09/2022 Asst. Professor in Chemistry



## One Day Workshop on



# Analysis of Environmental Data under

'Know Your River Ganges'

Organized by

**Chandernagore College** 

&

**Estuarine and Coastal Studies Foundation** 

on 13.09.2022

This is to certify that Sri Srimanta Koley of *Estuarine and Coastal Studies Foundation* has participated in the One Day Workshop on Analysis of Environmental Data under 'Know Your River Ganges'.

Principal Chandernagore College

**(Dr. Debasish Sarkar)**Principal,
Chandernagore College



(Dr. Sourav Paul)

Source Paul

Director,

Estuarine and Coastal Studies Foundation

## OFFICE OF THE PRINCIPAL

## Chandernagore College

Estd. 1862 Strand Road, Barabazar, P.O. Chandernagore

Dist. Hooghly, West Bengal

#### NOTICE

No. 515 15/02/2023

In pursuance of the MoU signed with Estuarine and Coastal Studies Foundation, Howrah and Chandernagore College, Chandannagar, an One-Day State Level Workshop on "Research Methodology on Environmental Studies and Research Manuscript Writing" under "Know Your Ganges" Programme is going to be held on 02.03.2023 (Thursday) at 11: 00 AM in the Room No. 205 (Computer Laboratory), Gurudeb Bhawan Campus, Chandernagore College.

All the UG-SEM-VI (Honours) Students of Botany, Chemistry, Environmental Science, Zoology and PG-Geography Semester-I are requested to arrive at the venue at least 15 minutes before the scheduled time for participating in the aforesaid programme.

The students of **Estuarine and Coastal Studies Foundation** will also participate in this programme.

### **Resource Persons:**

- Dr. Sourav Pal
  Director, Estuarine and Coastal Studies Foundation
- Dr. Madhusudan Pal

Scientist-B, Estuarine and Coastal Studies Foundation

Dr. Bhaskar Deb Bhattacharya

Scientist-C, Estuarine and Coastal Studies Foundation

Principal

Chandernagore College

Coordinator, IQAC
Chandernagore College

Principal Chandernagore College



## GovernmentofWestBengal OFFICE OF THE PRINCIPAL

## Chandernagore College





 $Website: \underline{www.chandernagorecollege.ac.in} Mail: \underline{office@chandernagorecollege.ac.in}$ 

Mob:91-7439603177,Tel:91-33-26835290

ISO90001:2015,ISO14001:2015andISO50001:2018CertifiedInstitution

## **Event Report**

**Name of the Programme**: "Research Methodology on Environmental Studies and Research Manuscript Writing"

**Venue of the Programme:** Computer Laboratory, Gurudeb BHawan Campus, Chandernagore College

Date: 02.03.2023

## **Objectives:**

- 1. Give an exposure to the students of Science departments regarding Environmental studies.
- 2. Give an idea about the Methodology on research of Environmental studies.
- 3. Training of the students on manuscript writing.
- 4. Give detailed idea about the methodology of research manuscript writing.

#### Outcome:

- 1. Students of different science departments of Chandernagore College and Estuarine and Coastal Studies Foundation participated and gather some idea, knowledge on research manuscript writing.
- 2. They actively participated and understood the methodology and science of research script writing.
- 3. Some faculty members also participated in this seminar and gather knowledge.

### **Resource Persons:**

- 1. Dr. Sourav Pal, Director, Estuarine and Coastal Studies Foundation
- 2. Dr. Madhusudan Pal, Scientist-B, Estuarine and Coastal Studies Foundation
- 3. Dr. Bhaskar Deb Bhattacharya, Scientist-C, Estuarine and Coastal Studies Foundation.

Principal
Chandernagore College

Principal Chandernagore College

Coordinator, IQAC Chandernagore College

One-Day State Level Workshop on "Research Methodology on Environmental Studies and Research Manuscript Writing" under "Know Your Ganges" Programme on 02.03.2023 (Thursday) at 11:00 AM in the Room No. 205 (Computer Laboratory), Gurudeb Bhawan Campus, Chandernagore College.

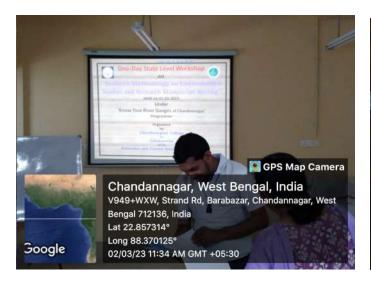
NAME	DEPARTMENT	COLLEGE ROLL NO.	SIGNATURE
Pija Mishona (PUSH) +	Zoology		Payin Lishow
Susmita Mahali	Chemistry	20CEMHO2	Surmita Mahali
Rami Mal.	Botany	20B0TH17	Rani Mal.
Pranoti Nich	Botany	20BOTH37	Branati Sich
Joy Gush	Botany	20 BOTH 16	Joylelish
Saptak Adhixary	Botany	20 BOT H4	Sattax Adhixary
sovan Dey	Botany	20 BOTH 32	sovan Dex
Ankit Saha.	Botany	20 BOTH 28	Ankit Saha.
Provanka Debrath	Zoology	20 Z00 H1	Provanka Lebrath
Symon Barman	Zoology	20 ZOOH11	Suman Barman
Dreha Ding	Zoology	20 Z O O H 3	Sneha Sing
Lest Havilsolm	chemistry	20 CEMH 20	Ley Havijan -
Shewange Sil	Chemistry	20 CEM # 31	Showange Sil
Saikat Nayak	Chemistody	20 CEMH 47	Sarkat Nayak
Sayan Roy	Chemistry	20CEMH45	sagan dos
Anik Das	Che mistra	20CEMH41	gnik Das
SHOURIN CHHOSH	Chemistery	20CEMH41	Showin Ghosh.
MAHAMMED MONIRUZZAMAN	ECSF	M	Mohammer Monigor 27000
Bhaskoe Deb Bhattachonyou	ECSF	NA -	Betolettacharys.
SOURAY PAUL	ECSF	NA	Sp.
DIPANWITA MAJUNDAR	chemity "	NA / Associate Rateur	oxin de.
GAUTAM GANGULY	Botany	Assistant Ponofun	ham.
CHIRANJIT MUNHERJEE	Botany	Control of the Contro	Water Control of the
GOPA SOME	Beray		
LAHARI SARKAR	Env. Se.		

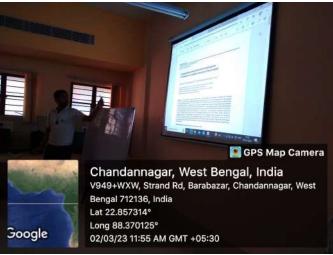
Principal
Chandernagore College

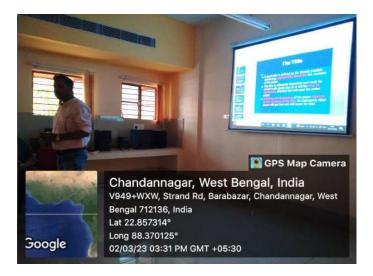


One-Day State Level Workshop on "Research Methodology on Environmental Studies and Research Manuscript Writing" under "Know Your Ganges" Programme on 02.03.2023 (Thursday) at 11:00 AM in the Room No. 205 (Computer Laboratory), Gurudeb Bhawan Campus, Chandernagore College.

NAME	DEPARTMENT	COLLEGE ROLL NO.	SIGNATURE
Pronati Mondal	Botany	20 BOTH 20	Pronati Mondal
Angita Mandal	Botami	00BOTH 19	Anguia mondal
SAIHI GHOSH	BOTANY	20BOTH 10	Sallie Ochosh
SHARMISTHA DEBNATH	BOTANY	20 BOTH 25	Shanquistho Dehnoth
ARINDAM CTUHA	BOTANY	20 BOTH 23	Drindam Guha
YOTISHKO SASMAL	BOTANY	20B0TH30	Jyofishuo Salmal
SOUMI MANNA	BOTANY	20B0TH33	Soumi Manna
PRIYA ADHIKARY	BOTANY	20BOTH 34	Briga Adelikary.
SKIJITA PAL	ENVIRONMENTAL SCIENCE	20ENVH00006	Snijta Pal.
SUJATA ROYMOULIN	Zoolver.		4
Principal Chandernagore College	College *		











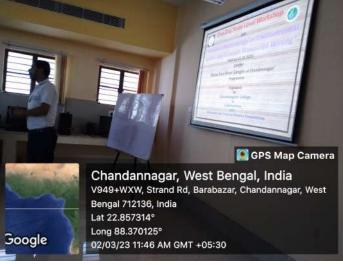


Fig: Some Photographs of the programme - "Research Methodology on Environmental Studies and Research Manuscript Writing" held on 02.03.2023 at Chandernagore College







## One Day State Level Workshop





## Research Methodology on Environmental Studies and Research Manuscript Writing

under
'Know Your River Ganges'
Organized by

Chandernagore College & Estuarine and Coastal Studies Foundation on 02.03.2023

This is to certify that Miss Puja Mishra of Estuarine and Coastal Studies Foundation has participated in the One Day State Level Workshop on "Research Methodology on Environmental Studies and Research Manuscript Writing" held on 02.03.2023 at Chandernagore College.

Principal
Chandernagore College
(Dr. Debasish Sarkar)
Principal,
Chandernagore College

(Dr. Sourav Paul)

Source Paul

Director,
Estuarine and Coastal
Studies Foundation

## Government of West Bengal OFFICE OF THE PRINCIPAL

## Chandernagore College

formerly College Dupleix

Strand Road, Chandannagar, Hooghly, West Bengal, India, Pin-712136 Website: www.chandernagorecollege.ac.in Mail: office@chandernagorecollege.ac.in

Mob: 91-7439603177, Tel: 91-33-26835290

ISO 90001:2015, ISO 14001:2015 and ISO 50001:2018 Certified Institution

#### **ACTIVITY REPORT**

Name of the Activity: One-Day Workshop on Designing of Multi-/Inter-Disciplinary Project Proposals for Student-Centric Activities and Allied Research Work

Collaborating Organization: Estuarine and Coastal Studies Foundation (ECSF), Howrah

**Date:** 04.04.2023

**Time**: 2:00 PM onwards.

Venue: Charu Chandra Roy Memorial Hall, Chandernagore College

Topic: Designing of Multi-/Inter-Disciplinary Project Proposals for

Student-Centric Activities and Allied Research Work

**Resource Persons:** Scientists of ECSF

**Participants: 27** Faculty members of Departments of Botany, Chemistry, Physics, Geography and Zoology of Chandernagore College & Scientists of ECSF, Howrah.

## **Objective:**

The faculty members of the Departments of Botany, Zoology, Chemistry, Physics and Geography will attend the workshop to discuss on the modalities of the submission of proposals on the different Academic Projects offered by the Govt.-recognized organizations such as DBT, Pollution Control Board and West Bengal Biodiversity Board. The procedures of framing of the Research /Students project proposals, work plan of collaborative activities and submission of the same would be discussed with the Scientists of ECSF, Howrah.

### **Outcome:**

1. The four Science Departments of Botany, Zoology, Chemistry, and Physics along with Science Allied Department of Geography will collectively submit the project proposal under the DBT Star College Research Scheme. PPT Presentations were performed by the Scientists of ECSF sharing their previous activities on DBT projects. This provided an outlook of the different student centric academic and basic research programmes such as hands-on training, seminars and workshops, etc., for the college students that can be planned and performed as collaborative actions under this proposed project.

- 2. Proposals may also be submitted for **Awareness Project to the West Bengal Pollution Control Board** where the main objectives will be based on student awareness programmes on reducing various types of environmental pollutions and their effective management. Some of the interesting and head-scratcher theme related to the Awareness Programmes was also proposed. Dr. Swadesh Sarkar, Asst Professor of Botany was recommended as the Coordinator of the Project.
- 3. Proposals may also be submitted for **Survey Project to the West Bengal Pollution Control Board** where collaborative activities with the ECSF Scientists will be executed. As proposed, Dr. Kinsuk Das, Associate Prof. of Chemistry will be acting as the Coordinator of the Project& Co-PI will be acted by Dr. Bhaskar Deb Bhattacharya, ECSF Scientist. Survey Project can be based on the Trasport/ Agriculture/Industry. Members preferred to execute studies on Industry & Ganges (Municipal Area): Physical & Chemical parameters, Impact on Biological systems, Involving students for the execution of the project work, Domestic and Industrial Sewages, especially with reference to Jagadhatri Puja- upstream and downstream studies. Liquid sewage on the Municipal Corporation area of Chandernagore and its paraments affecting the river water can be proposed and executed.
- 4. Project proposal to **West Bengal Biodiversity Board** to be placed for conducting various 'Seminars on Biodiversity' / Science Exhibitions & Quiz Programmes, Poster Sessions and Science Models Exhibitions, Debates and allied Students' Awareness programmes related to bio-diversity as a part of our social outreach programmes. Seminars on Pollution management, Demonstrations may be done by the invited Experts/ Resource Persons too.

Principal Chandernagore College

IQAC, Coordinator Chandernagore College

Lijel.

## Government of West Bengal OFFICE OF THE PRINCIPAL

## Chandernagore College

Formerly College Dupleix

Strand Road, Chandannagar, Hooghly, West Bengal, India, Pin-712136

 $Website: \underline{www.chandernagorecollege.ac.in} \\ Mail: \underline{office@chandernagorecollege.ac.in} \\$ 

Mob:91-7439603177,Tel:91-33-26835290

ISO 90001:2015, ISO 14001:2015 and ISO 50001:2018 Certified Institution

To Date: 28.03.2023

The Director,

Estuarine and Coastal Studies Foundation (ECSF), Howrah

Sub: Invitation to share your expertise in the One-Day Workshop on Designing of Multi-/Inter-Disciplinary Project Proposals for Student-Centric Activities and Allied Research Work on 04.04.2023 at Chandernagore College.

Sir,

We are happy to invite you in the One-Day Workshop on Designing of Multi-/Inter-Disciplinary Project Proposals for Student-Centric Activities and Allied Research Work on 04.04.2023 at Chandernagore College.

You and the Scientists of ECSF are kindly requested to share your expertise in the above Workshop which shall be assisting the Faculty Members of Science Departments of our College in designing Research Proposals for Multi-/Inter-Disciplinary Project Proposals for Student-Centric Activities and Allied Research Work in the near future.

We shall be delighted if you kindly accept our invitation.

Thanking you,

Regards,

Principal Chandernagore College

**IQAC** Coordinator

Chandernagore College

## OFFICE OF THE PRINCIPAL

# Chandernagore College

Estd. 1862

Strand Road, Barabazar, P.O. Chandernagore, Dist. Hooghly, West Bengal

No. 558

01/04/2023

#### Notice

Following the resolution of IQAC meeting held on 30.03.2023 for promoting and endeavoring multidisciplinary and flexible student-centric academic and allied research activities at Chandernagore College as a part of Institutional preparedness for NEP-2020, a Workshop involving the Departments of Environmental Science, Betany, Zoology, Physics, Chemistry and Geography, will be held on 04.04.2023 (Tuesday) at 2:00 PM at Charu Chandra Roy Memorial Hall.

Scientists of Estuarine and Coastal Studies Foundation will also participate in the Workshop.

## Title of the Workshop:

Designing of Multi-/Inter-Disciplinary Project Proposals for Student-Centric Activities and Allied Research Work

#### ISSUES -

- (i) Preparation of DBT Star College Project Proposal.
- (ii) Preparation of project proposal/s relating to environmental issues.
- (iii) Finalization of the names of the Convenor(s)/Coordinator(s)/ Principal Investigator(s) for the projects.

Faculty members of the above-stated departments of Chandernagore College are requested to participate in the Workshop.

Gantam yanguly
Officer-in-Charge
Chandernagore College

College \* Kooglove, Hooglove, Hooglo

Coordinator, IQAC Chandernagore College Name of the Event: Workshop on Deligning of Multi-/Intu-disciplinary

Date of the	by: 1046, Chanderson to e Program: 24, 104 / 2023 @ 2 pm the Program: Chandra k	Colling Projection
Collaborat	ting Organization:E.C.S.F., HARMAN,	K.B
SI. No.	Name of the Participant	Signature of the Participant
1.		
2	SHAMUCAM ATIGMAGIC	Anj de 4/4/2023
3,	SARMISTHA BANK	Sarvistic Barin 4/4/23 (Depto) 7501097)
4.	Mwralidhar Nandi	Marandi 4/4/23 (Physics)
5.	JUHAN KUMAR JHA	Johan kumas The 4/4/23 (Physic
6.	KINSUK DAS (Chemishy)	Kinsuk Das/ 4/04/2023
7.	TAPATE MALLIK	Japato Mallix 04-04-23
8.	DEBASHIS BANERJEE	Xebaron Baverje. 04-01-23.
٩.	JYOTI NATH PAUL	Jet Vacal - 04.04.2023
10	ASIM KUMAR MASEE	Assm Kuman Nylee 4.4.23
11	ATANU KUMAR	Atam Lan 9/4/23
12.	ANUBHAB LAHA	Andhat Laha 4/4/2013
13.	CHIRANJIT MUKHERJEE	Charanjet tentuji 4/4/2123
14.	SWADESH SARKAR	Swadesh Sarkar 4/4/2023.
15,	SULUMNDRA SETT.	Inchadu Sotz 414123,
16.	MOITRAYEE DAS	Moitragee Das 4/4/23
17.	MITHU HALDER	Mithu Halder 04,04,23
18-	GUNADHAR MANNA	Suradae Une co4/04/23
19.	SUJATA ROY MOULIK	Signal Roy Mondik 04/04/23
20.	MONALI CHAKRABURTY	1/4/2023
21	Subha Manna	Same 04/04/23
22	- Joha Stone	Gone 4/4/23
93	Lanhori Sarkar	Lahari Sarkar 4/4/23
24.	Bhoshore Deb Bhattachayya.	Federica a. (FESF) 4/4/23
25.	SOURAN PAUL	(8 CSF) 4 /4/23
26.	MAHAMMED MONIRUZZAMAN	Alexanon 4/4/23
27.	GAUTAM GANGUEY	langer 04/4/23
	A Son Or House	3.642346.
	* Changeria	Principal Chandernagore College



# **One-Day Workshop**



**Designing of Multi-/Inter-Disciplinary Project Proposals** for Student-Centric Activities and Allied Research Work

Organized by

**Internal Quality Assurance Cell, Chandernagore College** 

**Estuarine and Coastal Studies Foundation** 

Date: 04.04.2023

**Venue: Chandernagore College** 

This is to certify that Sri. DEBASHIS BANERJEE, ASSOCIATE PROFESSOR, of Chandernagore College has participated in the "Designing of Multi-/Inter-Disciplinary Project Proposals for Student-Centric Activities and Allied Research Work" on 04.04.2023 at Chandernagore College.

**Chandernagore College** 

**Coordinator, IQAC Chandernagore College** 

**Estuarine and Coastal Studies Foundation** 

## Office of the principal Chandernagore College

Strand Road, Barabazar, P.O. Chandernagore Dist. Hooghly, West Bengal

## NOTICE

No. 552 25/03/2023

Members of Internal Quality Assurance Cell (IQAC) and NAAC Extended Committee, Chandernagore College are hereby requested to attend the meeting on 30/03/2023 (Thursday) at 1:30 PM at the Computer Laboratory (Room No. 205), Gurudeb Bhawan to discuss the following issues.

## Agenda:

- 1. Confirmation of the proceedings of the last IQAC meeting.
- 2. Appraisal of Solar Panel Installation and Water Resource Management System.
- 3. Reporting of the initiation of two new projects relating to Infrastructural Development, funded by the HE Department, GoWB.
- 4. Reporting of the recent developments of the Centre for Heritage Studies, Chandernagore College.
- 5. ISR: Social Outreach Programme for the Class XI students of *Kanailal Vidyamandir* involving the Departments: (i) Botany and Zoology, (ii) Chemistry and Physics, (iii) Computer Science and Geography.
- 6. Financial Assistance to the faculty members for attending academic events.
- 7. Internal Assessment Examinations-2023 for Semesters-VI and IV.
- 8. Grievance Redressal.
- 9. Feedback Analysis and Action Taken Reports.
- 10. Appraisal of the activities related to existing MoUs. b) Execution of MoU related to waste management.
- 11. Submission of AQAR: 2021-2022.
- 12. Submission of Research Projects.
- 13. Matters Arising.

College \* Author Action of the College \* Author Action of the

Sd/Officer-in-Charge
Chandernagore College

IQAC Coordinator Chandernagore College

# Chandernagore College

Estd. 1862

Strand Road, Barabazar, P.O. Chandernagore Dist.Hooghly,West Bengal

## NOTICE

No. 572 12/04/2023

As per the resolutions adopted in the IQAC meeting held on 30.03.2023, Chandernagore College is going to submit the **DBT-Star College Proposal** in the academic year 2023-2024.

The participating departments in the **DBT-Star College Programme** are as follows: Botany, Zoology, Physics, Chemistry and Geography.

As per the guidelines provided by the Department of Biotechnology, Government of India and discussions in the workshop held on 04.04.2023 (vide Notice No. 557, dated 01.04.2023), the following Faculty members will act as Project Co-ordinator and Departmental Co-ordinators:

- 1. Project Co-ordinator: Dr. Debashis Banerjee, Associate Professor
- 2. Co-ordinator, Department of Botany: Dr. Chiranjit Mukherjee, Assistant Professor
- 3. Co-ordinator, Department of Zoology: Dr. Subha Manna, Associate Professor
- 4. Co-ordinator, Department of Chemistry: Dr. Tapati Mallik, Assistant Professor
- 5. Co-ordinator, Department of Physics: Dr. Atanu Kumar, Assistant Professor
- 6. Co-ordinator, Department of Geography: Dr. Moitrayee Das, Associate Professor

All the Faculty members of the participating departments are requested to go through the provided guidelines and fill-in the prescribed proforma attached herewith and submit the same (soft copy) to the <a href="mailto:iqac@chandernagorecollege.ac.in">iqac@chandernagorecollege.ac.in</a> by **25.04.2023**. This will be followed by departmental presentation which will be

notified shortly.

Principal
Chandernagore College

Coordinator, IQAC Chandernagore College

Lijele.



### Government of West Bengal

#### Office of the Principal



## Chandernagore College

formerly College Dupleix

Strand Road, Chandannagore, Hoognly, West Bengal, India, Pin-712136 Website: www.chandemagorecollege.ac.in, Mail:office@chandemagorecollege.ac.in

Mab.: 91-74396 03177, Idl.: 91-33-26835290

### ISO 9001:2015, ISO 14001:2015 and ISO 50001:2018 Certified Institution

No.654 **NOTICE** 03.06.2023

On the occasion of celebration of World Environment Day on 05.06.2023, Chandernagore College, has organized **Two Special Lectures** relating to **Environment & Sustainability**" as a part of **Curriculum Enrichment** initiative.

Date: 05.06.2023 (Monday)

## LECTURE-1:

Topic: Lecture related to "Environment & Sustainability"

Time: 1:00 PM - 2: 00 PM

Resource Person: Dr. Sourav Paul, Director, Estuarine and Coastal Studies

Foundation, Howrah

Venue: Charu Chandra Roy Memorial Hall

Beneficiaries: UG-SEMESTER- II AND SEMESTER-IV HONOURS STUDENTS

DEPARTMENT OF BOTANY, ZOOLOGY, ENVIRONMENTAL SCIENCE, CHEMISTRY, AND

**PHYSICS** 

#### **LECTURE-2:**

**Topic:** Ocean Literacy: Plans and Perspectives for Indian Ocean & ECOP Programme

Time: 2:30 PM-3:30PM

Resource Person: Ms. Debarati Sengupta, National Coordinator of UN Ocean Decade

Endorsed Early Career Ocean Professionals (ECOP) Programme for India

Venue: Charu Chandra Roy Memorial Hall

Beneficiaries: STUDENTS OF SEMESTER- II AND SEMESTER-IV PG-GEOGRAPHY,

STUDENTS OF UG-SEMESTER-II, IV AND VI of GEOGRAPHY HONOURS,

STUDENTS OF UG-SEMESTER-II, IV AND VI of COMPUTER SCIENCE HONOURS,

STUDENTS OF UG-SEMESTER-II, IV AND VI of MATHEMATICS HONOURS.







## **Event Report**

1. Name of the Event: "Seminar Lecture on Environment and Sustainability"

2. **Date:** 05.06.2023

3. Venue: Charu Chandra Roy Memorial Hall, Chandernagore College

## 4. Objectives:

 a) Impart knowledge on Environmental Concern and Sustainable utilization of environmental resources.

b) To aware students about the importance of the Sustainability during using natural resources.

c) To aware students about the Environment Protection and the Importance of the healthy environment.

#### 5. Outcome:

A large number of students participated in this seminar and develop some knowledge about Environment and its sustainable use to keep the Environment clean and healthy. Some of them express their willingness to work as environmentalist worker. This seminar opens a new field in-front of them. This seminar helps them for their future prospect.

Principal

Chandernagore College

Principal Chandernagore College

X-jx.

Coordinator, IQAC

Chandernagore College





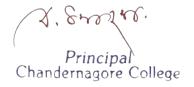








Fig: Some Photographs of the Event "Seminar Lecture on Environment and Sustainability" held on 05.06.2023 at Chandernagore College.



NAME OF THE PROGRAMME: LECTURE ON Environment & Sustainability DATE & TIME OF THE SPECIAL LECTURE: 05.06.2023 @ 1:00 pm VENUE OF THE PROGRAM: Charu Chandra Roy Memorial Hall

	SIGNATURE OF THE PARTICIPANTS	SEMESTER& ROLL NUMBER
SINDE		
Chan	Ashish Kuman Pandey.	Sem-II P22-BSC-PNSA-0035
02.	Sulling Jadas	Sem-11 22-BSC- PHSA-0025
034	Ajit Kumax Yadar	Bem-II 22-BBC-PHSA-0036
04)	Avenab Holdowi Ament unepto	Sem-II 22-BSC-PHSA-DO16
(20	Amen upto	Sen-II 22-BSC-PHSA-0032
06)	Abi'r Mondal	Scm- II 22-BSC-\$HSA-00-23
07)	Argha Syupta	SEM-II 22-BSC-PHSA -0030
085	Shamayita Mandal	SEM-II; 22-BSC-PHSA-0026
5>	Saptansli Sleklar Mondal	Sem-II; 22-BSC-PHSA-0039
10)		
11)	Brotati Karmakor Baishali Mukherjee	Sem-7, 22-BEC-PHEA-0003
12)	Souphagya Dax	SemT 22 BSC. ENVA-0010
13>	Souphagua Das Soupek Charocta	Sem JJ 22. BSC BK VA-0011
14)	Koushams; Glesh	Sem I 22-BSC ENVA-0009
(5)	Soumi Bhatlacharyya.	Sem D 22-BSC-ENVA-0006
16)	Soumi Bhatlachaxyya. Leha Mandal	Gem 11 22-BSC-ENVA-0007
(4)	Saumil Das	Semi 22-1350-ENVA-0012
18>	Loliene Chamele	Ben 1 22 - BSE-ENVA-0014
197	Trisha Das	Sem 11 22-BA- GEOA-0057
20)	Shreyssi Handal	Som IT 22-850-ZOOA-0021
21)	Souni Handy	Sem-TI 22-85e-80TA-0026.
22)	Payna Paul.	Sem-II 22-BSC-BOTA-0028
28)	Md Ojuer Mondal	Sem-11 22-BSC-BOTA-0020
24)	shirsendu Pramanik	Sem # 22-BSC-BOTA-0021
25)	seemon Sanadda.	semT 12-B; (-150TA-0027
26)	Avik Manna	Sem II 22- 8SC-BOTA - 0008

College,

NAME OF THE PROGRAMME: LECTURE ON Environment & Sustainability DATE & TIME OF THE SPECIAL LECTURE: 05.06.2023 @ 1:00 pm VENUE OF THE PROGRAM: Charu Chandra Roy Memorial Hall

SI. No.	SIGNATURE OF THE PARTICIPANTS	SEMESTER& ROLL NUMBER
27	Jeet Datta	22-BSO-700A-0028 (Sem 13)
28	Sounik Das	22-B3c-200A-0033 (Sem-II)
29	Sanzivan Chattopathyay	SemII - 22 - Ric - 700 A - 0088
30-	Sk Hustope Ahamed	12-BSC- 700A - 0038 (Sem II)
31	Meraj Waris	22-BSC-CEMA - 0009 (SEM-II)
32	Schredy Dy	22-851- PHSA-001 (Sum 2)
31	Saya Chanda	22-850- PUSA - 0029 (Jun 2)
34.	Rahul Pal	21-BSC-CEMH-50 (Sem-TV)
35.	Rahul Pal. Soyan Pal	21-BSE-CENH-16 (Sem-TV)
36.	rethera Farkin	21-BSC-CEMM-31 (Sem-TV)
27.	Twinks bon	21 - BSC - CEMII - BT (Sem - 12)
38.	Arranya Ganguly	21 - BSC - OFMH -48 (Sem - 10)
39.	Sayan Dan	21- BBC - CEMH-23 (Sem - IV
40	Somieddle Bag	21-BSC-CEMH-49(Sem-IV)
41.	Anielt Kunde	21 - B30 - (KM 4 - 41 (som-IV)
42	Sneha Das.	21-BSC CEMH-47 (Jaem-TV)
13.	Sayan Das	22-BSC-CEMA-0012 (SEM-II)
44.	SUBHANKAR GHOSH	22-BSC-CEMA-0026 (SEM-II)
45	Sopladje trondal	22-BSC-CEMA-0013 (Sem-II)
46.	moupiga Hattachargee	22-BSC-CEMA-0015 (Sem-II)
47.	Swomali Mondal	RI-BJC-CFMH-0014 (Sem-ID)
48	Anuva Das	21- BS0 - CFMH - 00 52 (Sem- N)
49	Shrieya Pot	21 - Bsc - CIMH - 0013 (Sem-IV)
50.	usamila Minusas	22-BEC-CEMA-0019 (Sem II)
51	Armasha Bisu Estego	22- BSC-CEMA-0003 (SLM II)
52.		22-850-eima-0022 (sem ti)

Principal Chandernagore Collège

SI. No.	SIGNATURE OF THE PARTICIPANTS	SEMESTER& ROLL NUMBER
53	ARIJIT ROY	22-BSC-CEMA-0032, CHEMISTRY(H)
54.	Pradyumna Sundar Neogi	22-BSC-CEMA-0030, CHEMISTRY (HONS)
55	Mnimesh Singh	22-BSC-CEMA-0007, CHEM(HON)
56	Ishita Sarkar	22-B8C5CEMA-0028, COO HEM (HONS)
57	Pritam Ruidas	22-BSC-CEMA-0005, CHEM (Hons), Sem-2
58	Soumya Chosh	22-BSC-CEMA-0031, CHEM (Homs)
旁	Sowiaw abosh	22-BSC-CRMA-002+(CHEM (Hons)
80	Agen Dutter	22 - BSE - PHSA - 0031 (Sen-1)
61	Debarati Sergupte.	ECOP-India Coordinator
62		Elst-Director.
63	Gantam Garguly	Asst. Prof. Dept. of BEtomy.
64	Dipanta Majunder.	Associate Proform (Chemisty)
	7.8mg/18.	college * 7
	Principal Chandernogote College	* Change Ch

NAME OF THE PROGRAMME: LECTURE ON Environment & Sustainability
DATE & TIME OF THE SPECIAL LECTURE: 05.06.2023 @ 2:30 pm
VENUE OF THE PROGRAM: Charu Chandra Roy Memorial Hall

Sl. No.	SIGNATURE OF THE PARTICIPANTS	SEMESTER& ROLL NUMBER
1.	Supriya Karmakan	UG-NI, ZOGEOH35
2.	Rubsha Mondal.	UG2 -VI . 20GE0H61
3.	Hasimun Nathar	UGI-VI, 2061E 1016
	Afsana Jermina	DA-AI- SOUBOH8
5.	-Maitroeyee Kundu	UGI-VI - 2061E0H4
6.	Subhadip Manna	UG-VI-20GE0H5
7.	Sujay Joyardan	UG-VI - 20 GEOH56
8.	Reshar Moder	UG-VI- 20GE0H62
9	Deep manna	UC- II - 22 BSC MTMA 0013
10	Abhimoop Mukhenjee	UGZ-II, 22-BSC-MTMA-0044
11	Shomerina Mondal	PGY-IV, 21PGGE018
12	chhandita Rudra	PG-IY, 21 PGG F09
13	Rokeya Mallick	PG-IV, 21 PGGE01
14	Shrabon'i Sarkan	PG-IV, 21PGGE06
15	Jyotindra Nath Murmu	PG IV, 21 PGGE017
16	Suprifa pool	00.11 500E0H29
17	Anjali Tha	UG-IV 21 COSH 26
18	Masuma Islam	UG- IX 21 COSH 14
19	Kankana Ghadh	UG-VI 20GEOH54
20	Ashmita Das	UG-YI 20460H52
21.	Madhemima Blan	υα-VI 20 & EOH 43
22.	Susmita Majumolar	Ub-11 22-BA-GEOA-0061
23,		UG1-II 22-BA-G180A-0020
24,	Supia Khatun	UGI-10 21GEOH14
	Aishie Roy	UGI-IV 21GEOH50
	Rinki Sultana	U61-II 22-BA-61E 0A-0029 Princip

llege

SI. No.	SIGNATURE OF THE PARTICIPANTS	SEMESTER& ROLL NUMBER
27.	Tousha Chatterjec	UG-II BA-GEOA-0035
28:	Supratim Sur	UG-II 22-BA-GBOA-0001
29.	SK. Shaed	UG-II 22-BA-GEOA-0004
30.	Subhadeep Pal	UG-TT 22-BA-GEOA-0045
31.	Arkadeep Mahata	UG-IV 21-BA-GEOH-25
32-	Sumil - Das	UGIV 21-8A-GEOH-34
33.	Arisit Ghorn	UG IV 21-BA-GEOH 26
34.	Debiha Mardi	PG-II 22-PGGE02
35.	Bubhashoree Ghosh.	1807 - 11 22 - PGGE09
36.	Biswajit Das	PG1-11 22 PGGE07
37	Proiya Ghosh	PGZ-11 22 PGGGEO-10
38	maitori Gasain	PG-11 22PGG ECTS
39	Sk. Sabana Hague	UGIV 21GE0H70
40.	Mahuya Mandi	UGIV 21GEOH13.
41.	Farhin Rahamon Mondal	UGIV 21GEOH38
42	firdousi khatun	UGIV 21GEOH12
43	Bipasha Ghosh	UGIV 21GEOH41
44	Trusha Jas	UG11 22-BA-GEOA-0057
45	Swarnale Dutta	UGIV ZIGEOHII
46.	Sudif Siddhanta	UGIV 21GEOH21
47	Abhizio Mojhi	UGIV 21 GEOH 58
48	Promendu Kunmi	UGIN 21 GEOH 19
49	Sayan Sarkar	UG 1 V 21 G E O H 4 9
50.	Shreya Das.	UGIV 21GEOTIGY.
61.	Restsana Khalen.	UGTV 216 E0 H 37 3.840246
52.	Ruksana khalen. Nelanjana Ghash.	UGIV 21GEOH30. Principal
53.	Moumik Haldar	UGIV 21GEOH43
51.	Abhilanh De	UGIV 21GE0453
55.	Soma Malakan	UGI 21GE 0429
56	Anindre Biswer	U9 IV 219 ED W 28

SI. No.	SIGNATURE OF THE PARTICIPANTS	SEMESTER& ROLL NUMBER
57	Koyel Kan	Sem-(11) 22-BA-9F0A703
59	Ankita Sadhukhan	sem-(11) 22-BA - 9E0A-0019
59	Ferdousi Khatun	Sem-(11) 22 - BA-GFOA - 0008
60	Skruya Goswani	Sem-II 22-BA-GEOA-0067
61	Swarnali Nandy	Sem II 22-BA-GIEOA-0034.
62	Moumita Bisevas	Sem - (II) 22 - BA - (1) EOA - 0043
63	Soumodip Kundu	Sem (It) 22-BA-6EOA-0002
64	Debarati Songupla.	ECOP-India Goodinator.
65.	Journ tarl.	ECSF-Director.
66.	Gantam Ganguly	Asst. Prof. Dept-of Botang.
67.	Dipanwita Majumdon	Associate Proferm (Chemisty)
		J. Emste.
		Principal Chandernagore College
		and the second s



## "Seminar Lecture on Environment and Sustainability"

Organized by



Chandernagore College &
Estuarine and Coastal Studies Foundation
on
05.06.2023

This is to certify that *Sirsendu Pramanik*, SEM-II Botany Honours student of *Chandernagore College* has participated in the "Seminar Lecture on Environment and Sustainability" held on 05.06.2023 at Charu Chandra Roy Memorial Hall, Chandernagore College.

Principal Chandernagore College

(**Dr. Debasish Sarkar**)
Principal,
Chandernagore College

College \* Author H. John College Author Change Chan

(Dr. Sourav Paul)

Source Paul

Director, Estuarine and Coastal Studies Foundation



## "Seminar Lecture on Environment and Sustainability"

Organized by



Chandernagore College &
Estuarine and Coastal Studies Foundation
on
05.06.2023

This is to certify that *Soumi Bhattacharya*, SEM-II Environmental Science Honours student of *Chandernagore College* has participated in the "Seminar Lecture on Environment and Sustainability" held on 05.06.2023 at Charu Chandra Roy Memorial Hall, Chandernagore College.

Principal Chandernagore College

(**Dr. Debasish Sarkar**)
Principal,
Chandernagore College

(Dr. Sourav Paul)

Source Paul

Director, Estuarine and Coastal Studies Foundation