

**E-Short Term Course**  
**on**  
**Mangrove Ecosystem and Its Conservation**

**26<sup>th</sup> July to 1<sup>st</sup> August, 2020**

*Jointly organized by:*

Department of Geography, Prasanta Chandra Mahalanobis Mahavidyalaya,  
111/3 B. T. Road, Bon-Hooghly, Kolkata-700108

and

Department of Geography, Bijoy Krishna Girls' College, 5/3 M. G. Road,  
Howrah-711101

*Supported by: IQAC, PCMM and IQAC, BKGK*

## **COURSE REPORT**

### **Introduction:**

'Mangrove Ecosystem' is one of the famous, traditional, unique ecosystem among other well-known ecosystems of the world. A week-long short term course on 'Mangrove Ecosystem and Its conservation' is organized by respective Departments of Geography of Prasanta Chandra Mahalanobis Mahavidyalaya, Kolkata and Bijoy Krishna Girls' College, Howrah for Undergraduate and Post Graduate students from 26<sup>th</sup> July to 1<sup>st</sup> August, 2020. As this course is started on 26<sup>th</sup> July, i.e. International Day for Mangrove Conservation (declared by UNESCO), the core objective of this E-STC is to disseminate knowledge and raise awareness on conservation of mangrove ecosystem.



# E-Short Term Course on Mangrove Ecosystem and Its Conservation

Jointly organized by-

**Department of Geography**  
**Prasanta Chandra Mahalanobis Mahavidyalaya**  
111/3, B.T. Road, Bon-Hooghly, Kolkata-700108

&  
**Department of Geography**  
**Bijoy Krishna Girls' College**  
5/3, M. G. Road, Howrah-711101

Supported by IQAC, PCMM and IQAC, BKGK

**Date: 26 July to 1 August 2020**

## Conveners:

**Dr. Rekha Biswas**

Assistant Professor and In-Charge,  
Department of Geography, PCMM

&

**Dr. Joydeep Saha**

Assistant Professor and Head,  
Department of Geography, BKGK

## Organising Team:

**Department of Geography, PCMM**

**Dr. Alpana Ray**, Assistant Professor  
**Mrs. Sudeshna Chowdhury**, SACT-II  
**Mr. Sudip Roy**, SACT-I

**Department of Geography, BKGK**

**Dr. Samhita Chaudhuri**, Assistant Professor  
**Mr. Dhriti Sankar Mondal**, Assistant Professor  
**Dr. Bhaskar Chaudhuri**, Associate Professor  
**Ms. Pritha Saha**, SACT-I  
**Ms. Debodatta Saha**, SACT-I  
**Ms. Ritula Paul**, SACT-I

## Instructions for the E-Short Term Course

- Who can participate: **UG and PG Students only**
- **No registration fees**
- Registration link will remain active till 4 pm, 25 July 2020
- Click on the registration link: <https://forms.gle/nUqegzKCdNAFGgfW8>
- Please join the WhatsApp group after immediate submission of the registration form through the link which is given there.
- E-certificates will be provided only to registered participants on completion of the course and after submitting the feedback form.
- **Online Platform: WhatsApp**
- For any queries, contact: Dr Rekha Biswas (9836135564) & Dr Joydeep Saha (9654687685)

**Technical Support: Mr. Samrat Sur, Faculty, Department of Computer Science,**

**E-Short Term Course**  
on  
**Mangrove Ecosystem and Its Conservation**

*Jointly organized by:*

Department of Geography, Prasanta Chandra Mahalanobis Mahavidyalaya, 111/3 B. T. Road, Bon-Hooghly,  
Kolkata-700108

and

Department of Geography, Bijoy Krishna Girls' College, 5/3 M. G. Road, Howah-711101

*Supported by: IQAC, PCMM and IQAC, BKGK*

**Dates: 26<sup>th</sup> July to 1<sup>st</sup> August, 2020**

**A Broad Outline of Program Schedule:**

Day (with date)	Morning Slot: 10 AM to 11 AM Main Theme	Institution	Coordinator Teacher(s)	Format for Teacher(s)	Afternoon Slot: 3 PM to 4 PM Assignment for Students	Format for Students
1 <sup>st</sup> (26.07.2020)	1. <b>Welcome Address:</b> Dr. Kamala Mitra, IQAC Coordinator, PCMM 2. Introduction to the STC	Joint (PCMM and BKGK)	Dr. Rekha Biswas and Dr. Joydeep Saha	Audio and/or Video Clip	FAQ; YouTube video	Google Form; WhatsApp Chat
2 <sup>nd</sup> (27.07.2020)	Presentation on- Mangrove Ecosystem: An Introduction	BKGK	Dr. Bhaskar Chaudhuri	PowerPoint presentation and/or Audio Clip	Photo Interpretation and Short Questions	Google Form
3 <sup>rd</sup> (28.07.2020)	Readings on Mangrove Ecosystem (with special reference to Flora and Fauna)	BKGK	Dr. Samhita Chuadhuri, Ms. Pritha Saha, and Ms. Ritula Paul	PDF files and Google Form	Multiple Choice Questions	Google Form
4 <sup>th</sup> (29.07.2020)	Presentation on-Conservation of Mangrove Ecosystem	PCMM	Dr. Alpana Ray and Mr. Sudip Roy	PowerPoint Presentation /PDF	Multiple Choice Questions and Scrabble Words Finder	PowerPoint presentation and/or Audio Clip Google Form
5 <sup>th</sup> (30.07.2020)	Reading Materials on the Conservation of Mangrove Ecosystem	PCMM	Dr. Rekha Biswas and Mrs. Sudeshna Chowdhury	PDF files and Google Form	Poster Making	PDF files Google Form
6 <sup>th</sup> (31.07.2020)	Mangrove Ecosystem: Case Studies	Joint (PCMM and BKGK)	<b>BKGK:</b> Mr. Dhriti Sankar Mondal and Ms. Debodatta Saha <b>PCMM:</b> Dr. Rekha Biswas	YouTube videos	Short Review Writing (250 words); Course Report (200 words)	Google Form
7 <sup>th</sup> (01.08.2020)	<b>Valedictory Session</b> <b>Concluding Remarks:</b> • Dr. Shyamal Karmakar, Principal, PCMM and/or Dr. Ruma Bhattacharyya, Principal, BKGK <b>Vote of Thanks:</b> Dr. Sweta Guha, IQAC Coordinator BKGK	Joint (PCMM and BKGK)	All members of the Organizing Committee	Audio and/or Video Clips; Concluding Message	Filling-up the Feedback Form	Google Form

### Methods adopted in this Course:

Due to COVID-19 pandemic, this course is conducted totally in the “online” mode –through a very common and accessible social media platform-WhatsApp. In order to cater 1524 registered participants, total six WhatsApp groups are formed. All the topics of the course are divided so as to fit into 7 days. Each day is allotted for disseminating and analyzing one or two particular topic. Every day, the course content is divided into two sessions. One is morning session (timing 10am – 11am), in which the conveners upload all the study materials in form of PDF (research papers/articles), audio clips, MS PowerPoint presentation, and YouTube videos to the common WhatsApp groups. Another is afternoon session (timing 3 pm -4 pm), in which a particular assignment (like Multiple Choice Question, photo interpretation, poster making, and, short review writing) are provided in form of Google Forms mainly based on study materials (provided on morning session).

### Brief Summary of Course Content:

From the table given below, one can easily summarize the level of participation:

**Table: Number of Participants in the E-STC**

<b>Total number of registered participants</b>	<b>Day</b>	<b>No. of active participants who have submitted assignments</b>
1524	Day-1	1001
	Day-2	925
	Day-3	922
	Day-4	911
	Day-5	823
	Day-6	780
	Day-7	820

Source: Google Forms, submitted by the participants, for the E-STC

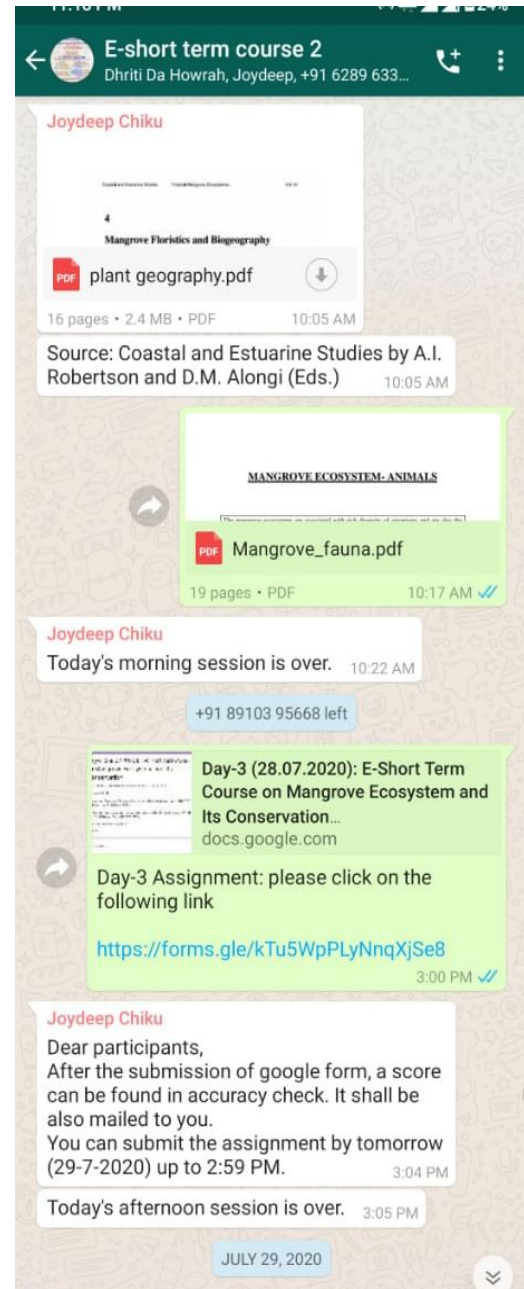
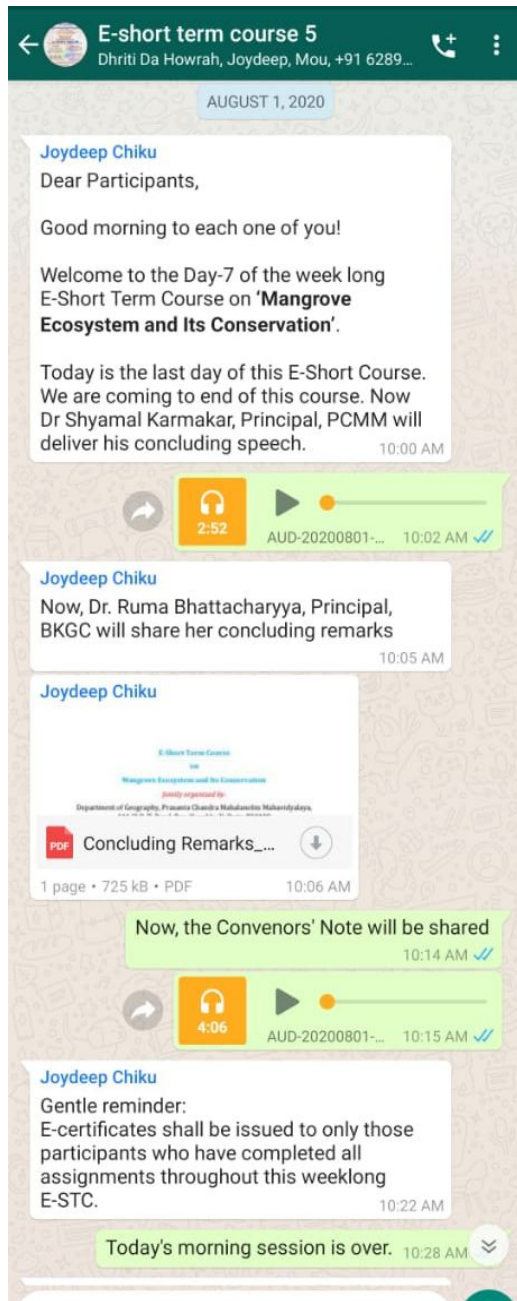
The study materials provided during this course has provided clear ideas about mangrove ecosystem, its characteristics, importance, worldwide location, varieties of floral and faunal

species, major threats and conservation measures. The case studies include Sundarban in West Bengal, mangrove in Bangladesh and Sri Lanka and so on. From this, it is clearly understood that total areas of mangrove is decreasing in last decades so the existing mangroves need preservation and conservation.

### **Course Outcome:**

This course is quite beneficial for the students. Primarily, this course is able to actively engage students through different assignments rather than depending solely on passive gaining the knowledge through typical webinars. Photo interpretation, short review, and course report writing has helped to develop the writing and critical thinking ability of the participants. Poster making has focused on the creativity of mangrove ecosystem. For answering MCQ questions, the participants have thoroughly read the given study materials. So in spite of having a preliminary idea about mangrove ecosystem, this course has helped them to know more about the detailed information about names of various species (both plants and animals), their characteristics of mangrove ecosystems and also names of some projects adopted for mangrove conservation which were little known or unknown before to many of them. In a typically academic syllabus, they have read about the basics of mangrove ecosystem as a part of ecosystem. As this course is totally focused on mangrove ecosystem and its conservation, along with enriching knowledge, this micro unit study is beneficial to students in future for making projects based on several case studies. In brief, total 676 participants have been able to do all the assignments properly and therefore they have received E-Certificates. Last but not the least, this course has been able to offer both “accessibility” through widely used WhatsApp platform and “flexibility” in terms of timeslot in the context of looming threats and uncertainties of COVID-19.

## Some Screenshot of E-Short Term Course:



**E-short term course 5**  
Dhriti Da Howrah, Joydeep, Mou, +91 6289...

Forwarded

2.1 MB 3:27 PM 2:52

Dear participants,

As you all know this E-STC is officially ending this afternoon at 4 PM. However, some of you have not submitted yesterday's assignments (Day-6) due to unknown reasons. Some of you have requested us to extend the time limit. Therefore, we are extending it up to **tomorrow (02.08.2020) 4PM**.

It will **NOT BE** extended further due to whatsoever reasons. 3:34 PM ✓

Dear Participants,

- E-Certificates will be issued to the participants after submission of **all** assignments. It shall be issued **within 30 days** after the completion of the course.
- E-certificates are **auto generated**. So be **careful** to fill up all the details of feedback form.
- Any kind of correction in E-certificate will **not be allowed** under any circumstances.
- E-certificates will be delivered to the given mail ID only. So, please put a **valid mail ID** only.
- Do not convey any personal query to the Convenors or any members of the Organizing Committee before 30 days of completion of the course.
- We will inform you in this group after all the certificates have been distributed. In between, if anything important appears, we shall share the information with you in this group only.

Thanks & Regards

Dr. Rekha Biswas  
Dr. Joydeep Saha

Conveners 3:40 PM ✓

**Joydeep Chiku**

Thank you for participating in the E-Short Term Course on **Mangrove Ecosystem and Its Conservation**

Jointly organized by:

Department of Geography, Prasanta Chandra Mahalanobis Mahavidyalaya, 111/3 B. T. Road, Bon-Hooghly, Kolkata-700108 and  
Department of Geography, Bijoy Krishna Girls' College, 5/3 M. G. Road, Howrah-711101  
Supported by: IQAC, PCMM and IQAC, BKGC

Dates: 26th July to 1st August 2020

Please fill up the Feedback Form by clicking this link :  
<https://forms.gle/TvAKqLgS88hon4wSA>

Thanks & Regards,  
Dr Rekha Biswas &  
Dr Joydeep Saha  
Conveners 3:43 PM

11:16 PM • 24%

**E-short term course 3**  
Dhriti Da Howrah, Joydeep, +91 6289 598...

**Joydeep Chiku**

Dear Participants,

Good morning to each one of you!

Welcome to the Day-5 of the week long E-Short Term Course on **'Mangrove Ecosystem and Its Conservation'**.

Please go through the following material to know about the Conservation of Mangroves 10:00 AM

**Joydeep Chiku**

Forwarded

Conservation Benefits of Mangroves IUCN

sri\_lanka\_conservatio... 463 KB • PDF 10:05 AM

x8080e07.pdf 7 pages • PDF 10:12 AM ✓

**Joydeep Chiku**

Today's morning session is over 10:42 AM

+91 82409 90759 left

**Day - 4 Assignment: Poster Making**

Poster making theme

1. Conservation of Mangrove Ecosystem
2. Threats of Mangrove Ecosystem
3. Mangrove Ecosystem

Please choose **any one** theme from the above themes 3:00 PM ✓

**Specific instructions for poster making**

1. It must have a clearly written title (Either in English or in Bengali) on the top
2. The name and mail ID of the participant must be clearly mentioned at the bottom of the poster in English Language
3. The poster can not be copied or downloaded from any sources
4. The poster must be drawn by hand.
5. The poster must fit within one page with any size
6. Upload the poster either in **PDF or in image** format only 3:01 PM ✓

**Joydeep Chiku**

Forwarded

3.6 MB 3:03 PM 4:51

Day-5 Assignment: please click on the following link

<https://forms.gle/1k6tR2ejeX74rCph6> 3:11 PM ✓

**Joydeep Chiku**

Dear participants,

You can submit today's assignment by tomorrow (31-7-2020) up to 6 PM.

Today's afternoon session is over 3:15 PM

Dear participants,

Please note that the poster can have a maximum size of up to 9 MB 3:38 PM ✓

**Joydeep Chiku**

Monalisa Pal  
Geography Hons. 4th Semester  
Bijoy Krishna Girls' College  
Howrah

**E-short term course 1**  
Dhriti Da Howrah, Joydeep, +91 6289 977...

JULY 26, 2020

**E-Short Term Course**  
**Mangrove Ecosystem and Its Conservation**  
Jointly organized by:  
Department of Geography, Panchajanya Mahavidyalaya, Karamchedu, 51112, S. T. Road, Sree-Perampalli, Andhra Pradesh 522008  
and  
Department of Geography, Rayachoti Govt College, 5184, S. Road, Howrah-711001

**PDF** E-STC Programme Outline Fi...  
1 page • PDF 10:00 AM ✓

**Joydeep Chiku**  
Forwarded  
4.6 MB 10:10 AM 3:12

Dear Participants,  
Good morning to each one of you!

Welcome to the Day-1 of the week long E-Short Term Course on '**Mangrove Ecosystem and Its Conservation**'. This day i.e. 26th of July is celebrated as the International Day for the Conservation of Mangrove Ecosystem.

**Course Objective:**  
• To know, learn and build awareness of the Mangrove Ecosystem and its conservation.

**Focus:**  
In this course, we shall focus on your power of learning & understanding, skill, own creativity, and self-assessment.

**Each day, this course is clearly divided into two sessions:**  
1. Morning Session (from 10 AM to 11 AM)  
2. Afternoon Session (from 3 PM to 4 PM)

**Morning Session:** A few PowerPoint Presentations, Articles, YouTube Videos etc will be uploaded. Participants should ... [Read more](#)

10:20 AM ✓

**Joydeep Chiku**  
Forwarded  
7.2 MB 10:31 AM 9:41

+91 75959 57738 changed to +91 97485 84933

6:48 AUD-20200726-... 10:45 AM ✓

**Joydeep Chiku**

**E-short term course 2**  
Dhriti Da Howrah, Joydeep, +91 6289 633...

JULY 27, 2020

**Joydeep Chiku**  
Dear Participants,  
Good morning to each one of you!

Welcome to the Day-2 of the week long E-Short Term Course on '**Mangrove Ecosystem and Its Conservation**'.

Please go through the following material to know about the Mangrove Ecosystem

10:00 AM

**Joydeep Chiku**

**PDF** ppt mangrove (2) pdf...  
21 pages • 1.6 MB • PDF 10:02 AM

+91 93823 38539 left  
+91 87776 94070 left

9:22 AUD-20200727-... 10:25 AM ✓

**Joydeep Chiku**  
Today's morning session is closed 10:41 AM

**Day-2 (27.07.2020): E-Short Term Course on Mangrove Ecosystem and Its Conservation...**  
docs.google.com

**Day-2 Assignment:** please click on the following link  
<https://forms.gle/3DrpsWCUx9NTbxQ27>  
3:00 PM ✓

**Joydeep Chiku**  
Photo interpretation:  
Word limit is maximum 50 words.  
Write in your own language. 3:01 PM

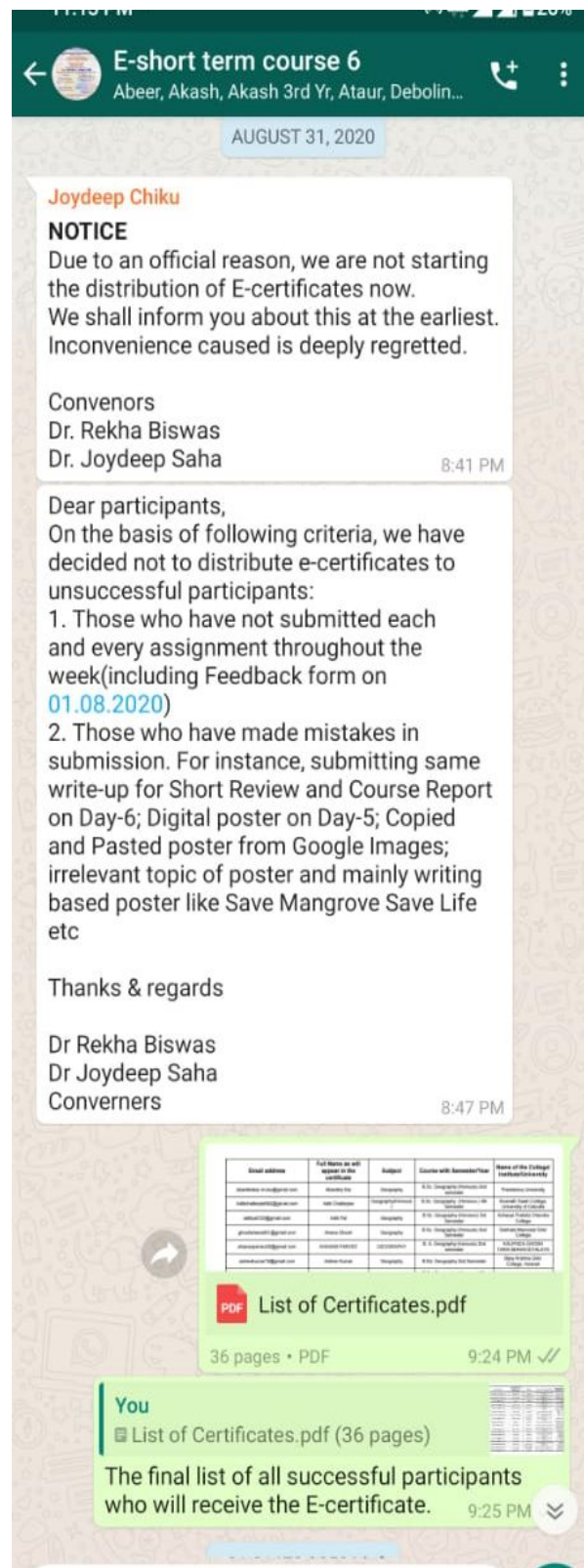
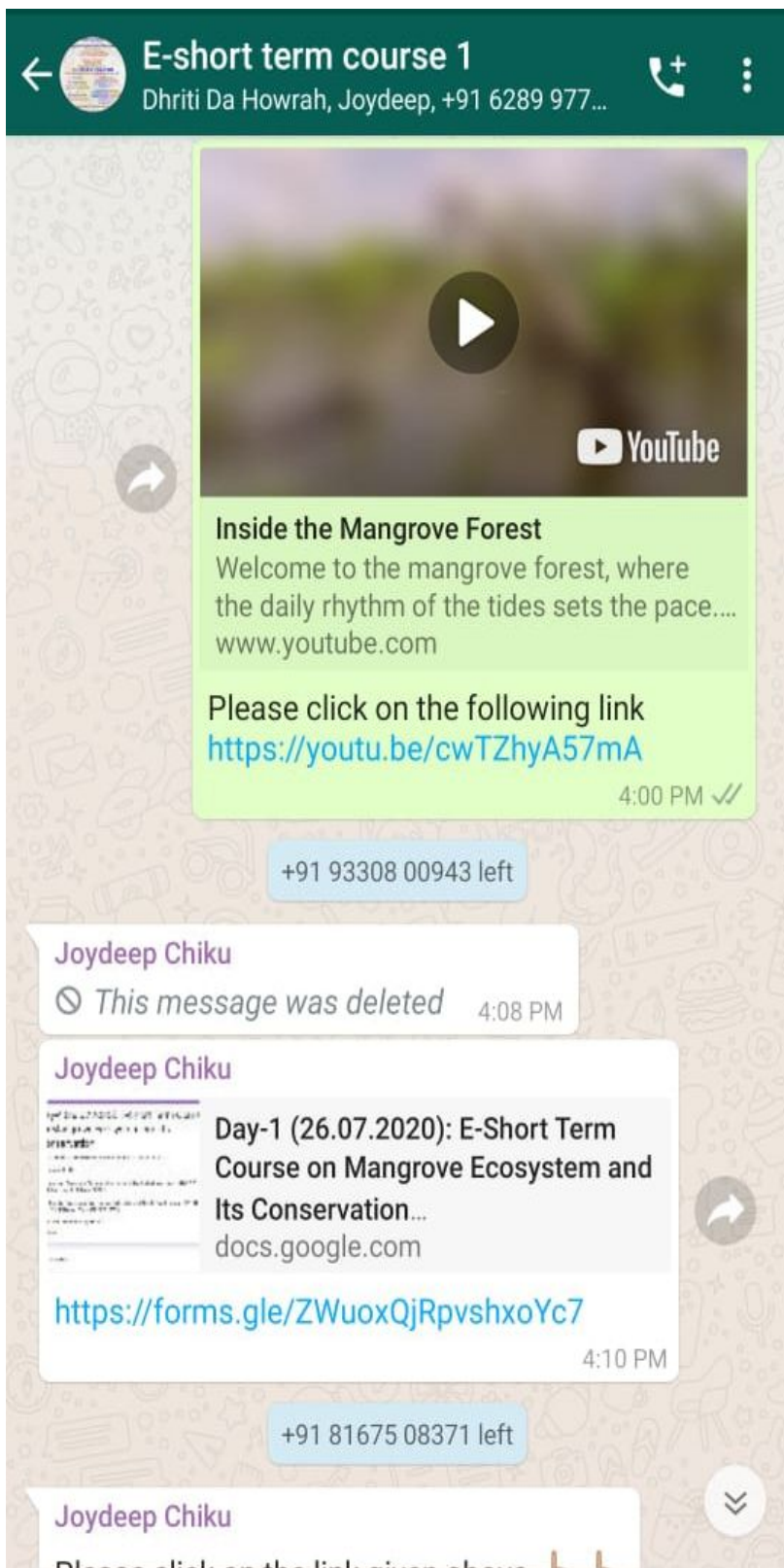
Dear participants,  
In case of any of your queries regarding this E-STC, please send messages to the Convenors by WhatsApp. Don't make phone calls to them. 3:05 PM

+91 6291 858 216 left  
+91 91630 27898 left  
+91 73649 66093 left

**Joydeep Chiku**

Type a message






**E-short term course 4**  
Dhriti Da Howrah, Joydeep, +91 6289 598...

Joydeep Chiku  
Dear Participants,  
Good morning to each one of you!  
Welcome to the Day-6 of the week long E-Short Term Course on '**Mangrove Ecosystem and Its Conservation**'.

Please analyze the following YouTube videos to know about the Case Studies and Conservation of Mangroves

10:00 AM

Joydeep Chiku  
Forwarded




**A Question of Science | Documentary | Importance of Mangroves**  
A mangrove is a shrub or small tree that gr...  
www.youtube.com  
<https://youtu.be/-zTbaRKnw3c>

10:07 AM

This video is about the Mangrove Conservation 👉👉

10:07 AM



**Mangroves - Guardians of the Coast**  
Mangroves are among the oldest and most productive wetland forests on our pl...  
www.youtube.com  
<https://youtu.be/4SY7X9zdZ-U>

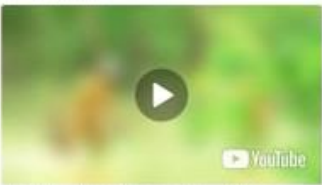
10:11 AM ✓

You  
<https://youtu.be/4SY7X9zdZ-U>

This video is about the Indian mangroves, their importance and problems and so on

10:12 AM ✓

Joydeep Chiku  
Forwarded



**Enrichment and Conservation of the Sunderban's Mangrove Ecosystems**  
The mangrove dominated Ganges Delta - ...  
www.youtube.com  
<https://youtu.be/PtzaskVXW2M>

10:31 AM

This link is about to a case study of conservation of Sunderban Mangrove Ecosystem in Bangladesh 👉👉

10:32 AM

11:15 PM • 25%

**E-short term course 4**  
Dhriti Da Howrah, Joydeep, +91 6289 598...

10:35 AM

**Common instructions for Short Review and Course Report**

1. It must have a clearly written title that is Short Review Or Course Report (in English) on the top
2. The name and mail ID of the participant must be clearly mentioned at the bottom of the page
3. It may be written by hand or in MS-Word
4. Take a picture of short review and course report separately and upload the page either in **PDF or in Image** format only.
5. Each file can have a maximum size of 4 MB
6. You can upload only a file in each of the sections (Short Review and Course Report, respectively)

3:00 PM

**How to write a Short Review?**

Dear participants,

First of all, there's no specific or standard format of review writing. Therefore, try in your own way. The guidelines shared here in following are the Coordinators' views. You have full freedom not to follow the guidelines.

**Introduction** : may include basic information about the documentary, content, time, area etc.

**Description** : mention your likes and dislikes, contradiction regarding data, logic, analysis etc.

**Conclusion** : mention what do you learn from the video and how can it become more attractive.

**Word limits**: minimum 150; maximum 250

**Language**: either in English or in Bengali

3:01 PM ✓

**How to write a Course Report?**

Dear participants,  
You have participated in this STC for six days at a stretch. So please write a Course Report within minimum 150 and maximum 200 words, either in **English or in Bengali**

Focus on the following points:

1. Methods adopted for teaching-learning in this Course
2. Course Content
3. Evaluation of the Course (that means your likes and dislikes)

Thanks  
Dr. Rekha Biswas  
Dr. Joydeep Saha  
Convenors

3:02 PM ✓

Joydeep Chiku  
Day-6 Assignment: Please click on the following link  
<https://forms.gle/rbG6ytXixc1s8AMfA>

3:03 PM

Dear participants,  
You can submit today's assignment by tomorrow (01-08-2020) up to 4 PM.  
Today's afternoon session is over

3:05 PM