

## **BASIC DETAILS OF THE 30 HOURS ADD-ON COURSE**

1.	Course Title	Fundamentals of Oceanography
2.	Pre-requisite	All Under-Graduate students of Geography Honours
3.	Course Outcome	After completing the course, the students will be able to- Get the idea about the significance and relevance of Oceanography Develop the knowledge about temperature, density and salinity of ocean water Realise the determining factors of ocean currents Construct the idea of ocean currents of the Pacific ocean, the Atlantic ocean and the Indian ocean Assess the bottom topography of Pacific Ocean, Atlantic Ocean and Indian ocean Build the idea about coral reefs
4.	Course Commencement Date	April,2023-May,2023
5.	Course Fee	NIL
6.	Intake Capacity	All Under-Graduate students of Geography Honours
7.	Course Duration	One Class (Lecture): 1 Hour
		30 Lectures= 30 Hours
		Final Assessment on the Last day
8.	Learning Resources	Details given in page
9.	Lesson Plan	Details given in page
10.	Assessment process	Students will be graded on Course-end Assessment and Attendance
11.	Course Coordinator	Protyus Kumar Ghosh
12.	Course Certificate Format	Format given in Page

#### DETAILED SYLLABUS OF THE ADD-ON COURSE

- Module 1: Nature and scope of Oceanography and its relevance [TIME: 5 HOURS]
- Module 2: Temperature, salinity and density of ocean water [TIME: 5 HOURS]
- Module 3: Factors influencing ocean currents & the currents of Pacific Ocean, Atlantic Ocean and Indian Ocean [TIME: 8 HOURS]
- Module 4: Bottom topography: Pacific ocean, Atlantic ocean and Indian ocean [TIME: 7 HOURS]
- Module 5: Concept about coral reefs and its origin [TIME: 5 HOURS]

### LEARNING RESOURCES- ESSENTIAL READINGS

SL.NO.	TITLE OF THE BOOK	AUTHOR(S)
01	সাগরীয় ভূগোলের রূপরেখা	অলোক পাল
02	ভূ-জলবিদ্যা ও সমুদ্রবিদ্যা	দ্যুতিমান ভট্টাচার্য ও মৈত্রেয়ী চক্রবর্তী
03	Oceanography	Savindra Singh

# LESSON PLAN

LECTURES	CONTENTS
LECTURE 1 (1 hour)	Evolution of Oceanography
LECTURE 2 (1 hour)	Nature of Oceanography
LECTURE 3 (1 hour)	Scope of Oceanography
LECTURE 4 (1 hour)	Relation of this branch of Geography with other disciplines
LECTURE 5 (1 hour)	Relevance of Oceanography at present day context
LECTURE 6 (1 hour)	Concept about temperature of ocean water
LECTURE 7 (1 hour)	Factors influencing the temperature of ocean water
LECTURE 8 (1 hour)	Discussion about salinity of ocean water
LECTURE 9 (1 hour)	Factors controlling the salinity of ocean water
LECTURE 10 (1 hour)	Density of ocean water
LECTURE 11 (1 hour)	Factors influencing ocean currents
LECTURE 12 (1 hour)	Factors influencing ocean currents
LECTURE 13 (1 hour)	Scenario of currents of the Pacific ocean
LECTURE 14 (1 hour)	Scenario of currents of the Pacific ocean
LECTURE 15 (1 hour)	Scenario of currents of the Atlantic ocean
LECTURE 16 (1 hour)	Scenario of currents of the Atlantic ocean
LECTURE 17 (1 hour)	Scenario of currents of the Indian ocean
LECTURE 18 (1 hour)	Scenario of currents of the Indian ocean
LECTURE 19 (1 hour)	Brief idea about bottom topography of ocean
LECTURE 20 (1 hour)	Bottom topography of the Pacific ocean
LECTURE 21 (1 hour)	Bottom topography of the Pacific ocean
LECTURE 22 (1 hour)	Bottom topography of the Atlantic ocean
LECTURE 23 (1 hour)	Bottom topography of the Atlantic ocean
LECTURE 24 (1 hour)	Bottom topography of the Indian ocean
LECTURE 25 (1 hour)	Bottom topography of the Indian ocean
LECTURE 26 (1 hour)	Concept of coral reefs
LECTURE 27 (1 hour)	Components of coral reefs
LECTURE 28 (1 hour)	Ecological conditions for the growth of coral reefs
LECTURE 29 (1 hour)	Characteristics of coral reefs
LECTURE 30 (1 hour)	Theories of the origin of coral reefs

#### **EVALUATION PROCESS FOR THE ADD-ON COURSE**

The Evaluation will be done through 2 components –

- i) C1- Course-end Assessment [Total Marks:30]
- ii) C2 Attendance [Total Marks: 05]

At the end of the Course, there will be a Course-end Assessment. Attendance Component Marks will be calculated based on the actual Attendance Percentage of the Students during the classes of the Course.

ATTENDANCE PERCENTAGE (%)	MARKS ALLOTTED
ABOVE 90	5
80 - 89	4
75 - 79	3
70 - 74	2
60 - 69	1
BELOW 60	NOT ELIGIBLE FOR CERTIFICATE

### MODEL CERTIFICATE

