

SECOND-YEAR OF BACHELOR OF ARTS MAJOR GEOGRAPHY REVISED SYLLABUS ACCORDING TO CBCS NEP2020

COURSE TITLE: INTRODUCTION TO OCEANOGRAPHY SEMESTER-IV, W.E.F. 2024-2025

RECOMMENDED BY THE BOARD OF STUDIES IN GEOGRAPHY AND

APPROVED BY THE ACADEMIC COUNCIL

Devrukh Shikshan Prasarak Mandal's

Nya. Tatyasaheb Athalye Arts, Ved. S. R. Sapre Commerce, and

Vid. Dadasaheb Pitre Science College (Autonomous), Devrukh.

Tal. Sangmeshwar, Dist. Ratnagiri-415804, Maharashtra, India

Academic Council Item No: 03

Name of the Implementing Institute	:	: Nya. TatyasahebAthalye Arts, Ved. S. R. Sapre	
		Commerce, and Vid. DadasahebPitre Science College	
		(Autonomous), Devrukh. Tal.Sangmeshwar, Dist.	
		Ratnagiri-415804,	
Name of the Parent University	:	University of Mumbai	
Name of the Programme	:	Bachelor of Arts	
Name of the Department	:	Geography	
Name of the Class	:	Second Year	
Semester	:	Fourth	
No. of Credits	:	04	
Title of the Course	:	Introduction to Oceanography	
Course Code	:	A203GET	
Name of the Vertical in adherence	:	Major and Minor	
to NEP 2020			
Eligibility for Admission	:		
Passing Marks	:	40%	
Mode of Assessment	:	Formative and Summative	
Level	:	UG	
The pattern of Marks Distribution for	:	60:40	
TE and CIA			
Status	:	NEP-CBCS	
To be implemented from the	:	2023-2024	
Academic Year			
Ordinances/Regulations (if any)			

Syllabus for Second Year of Bachelor of Arts in Geography

(With effect from the academic year 2024-2025)

SEMESTER-IV Paper No.– I

Course Title: Introduction to Oceanography No. of Credits - 04

Type of Vertical: Major and Minor **COURSE CODE:** A203GET

Learning Outcomes Based on BLOOM's Taxonomy:

After completing the course, the learner will be able to						
Course Learning Outcome No.	Blooms Taxonomy	Course Learning Outcome				
CLO-01	Remember	Remember the fundamentals of Oceanography & basic oceanic processes				
CLO-02	Understand	Understand the basics of Ocean's physical, Chemical, Biological and geological processes				
CLO-03	Apply	Apply the oceanographic principles to real-world scenarios				
CLO-04	Analyze	Analyze the oceanographic processes and interaction between the ocean and the atmosphere				
CLO-05	Evaluate	Evaluate the changing nature & scope of Oceanography				
CLO-06	Create	Create models; and develop innovative solutions to address challenges in oceanography, such as proposing sustainable practices for marine resource management.				

Syllabus for Second Year of Bachelor of Arts in Geography (With effect from the academic year 2024-2025)

SEMESTER-IV Paper No.—Geography Paper –I

Course Title: Introduction to Oceanography No. of Credits - 04

Type of Vertical: Major and Minor COURSE CODE: A203GET

COURSE CONTENT							
Module No.	Content	Credits	No. of Lectures				
1	 Introduction to Oceanography Origin and Development of Oceanography Definition, nature and scope of Oceanography Branches of oceanography: physical chemical and biological Major Oceans and its characteristic features Ocean floor and its characteristics Oceans and global climate change 	01	15				
2	Ocean Water Composition	01	15				
3	Movements of Ocean Water O Waves- Formation and types Tsunamis and their effects on the coast Concept and types of Tides Equilibrium theory of Tides Ocean Currents – types and their effects El- Niño and La-Niña phenomenon and its impact on Indian Monsoon	01	15				
4	 OCEANIC DATA ANALYSIS Distance measurement on the Ocean Surface: Map filling: Related to Oceanography Signs and Symbols used on Navigation Charts and bathymetric maps Creation of Isohalines Map Reading and Interpretation of navigation charts and bathymetric maps Measurement of Ocean water temperature, salinity and density 						
	Total	04	60				

Required Previous Knowledge

For the study of the theoretical component of the course, any previous knowledge is not required but for the practical component, the basic knowledge graph preparation is necessary.

Access to the Course

The course is available for all the students admitting for Bachelor of Arts and selected Geography as an optional subject and cleared the lower examination or eligible for the admission in the class as per the rules and regulations.

Methods of Assessment:

The assessment pattern would be 60:40, 60% for Semester End Examination (SEE) and 40 % for Continuous Internal Assessment (CIA). The structure of the SEE and CIA would be as recommended by the Board of Studies and approved by the Board of Examination and the Academic Council of the college.

Grading Scale

The grading scale used is O to F. Grade O is the highest passing grade on the grading scale, and grade F is a fail. The Board of Examinations of the college reserves the right to change the grading scale.

References:

Reference books:-

- 1. Bhatt, J.J. 91978): Exploring the Planet Ocean, D.Von Nostrand Co. New York.
- 2. Birla Economic Research Foundation, Economic Research Division 91992): The Oceans, Allied Publishers Ltd. New Delhi.
- 3. Chandra, S., and Others (eds). (1993): The Indian Ocean and its islands: Strategic Scientific and Historical perspectives, Sage Publications, New Delhi.
- 4. Chawan S.V. (ed) (2015): Physical Geography, Paper I, Published by Director (I/C), Institute of Distance and Open Learning, University of Mumbai.
- 5. Fairbridge, R.W. (ed) Encyclopedia of Oceanography, Reinholt, New York.
- 6. Sharma, R.C. (ed)(1985): The Oceans: Realities and Prospects, Rajesh Publications, New Delhi.
- 7. Sengupta, R., and Desa E,(eds) (2001): The Indian Ocean: A Perspective Vol., I and II

- Oxford and IBH Publishing Company Private Limited, New Delhi.
- 8. Paul, P.R.(1998): Invitation to Oceanography, Jones and Bartlett Publishing, Sudbury, Massachusetts.
- 9. Rajagopalan, R (ed) (1996): Voices for Oceans, A Report to the Independent World Commission on the Oceans, International Ocean Institute, Operational center, Madras, India.
- 10. Qasim, S.Z(1998): Glimpses of Indian Ocean, Universities Press(India) Limited, Hyderabad.