

## COURSE OUTCOMES

**Department: GEOGRAPHY**

**Class: SYBA / Sem - 4**

**Subject and Paper: Geography Paper - 2**

**Name of the Paper / course: Fundamentals of Oceanography**

**Name of the Faculty: Dr. Sumant Eknath Autade**

Module – I – Introduction to Oceanography		
	Course Outcomes	Teaching methods
1.1 Oceanography – definition	Understand the definitions of Oceanography	PPT presentation and animated videos
1.2 Oceanography – nature and scope	Understand the nature and scope of Oceanography	Chalk and talk method, ppt presentation
1.3 branches of oceanography	To study various branches of oceanography	Chalk and talk method, field work
1.4 Characteristics of Pacific ocean	To understand features of pacific ocean	Chalk and talk method, group discussion
1.5 Characteristics of Atlantic ocean	To understand features of Atlantic ocean	PPT presentation and animated videos
1.6 Characteristics of Indian ocean	To understand features of Indian ocean	PPT presentation and animated videos
Module – II - Characteristics of ocean water – temperature, density, pressure and salinity		
2.1 Characteristics of Ocean Water	To study characteristics of ocean floor	PPT presentation and animated videos
2.2 Factors affecting ocean water temperature	To understand factors affecting ocean water temperature	Chalk and talk method, ppt presentation
2.3 Distribution of ocean water temperature	To understand distribution of ocean water temperature	Chalk and talk method, field work
2.4 Factors affecting ocean water temperature	To understand factors affecting ocean water temperature	Chalk and talk method, group discussion
2.5 Distribution of ocean water temperature	To understand distribution of ocean water temperature	PPT presentation and animated videos
Module – III – Movement of ocean water – waves, tsunami causes and effects, tides, equilibrium theory of tides, meaning and types of ocean currents		
3.1 Movement of ocean water	To understand dynamics of ocean water movement	Chalk and talk method, field work
3.2 Tsunami- causes and effects	To study causes and effects of tsunami	Chalk and talk method, group discussion
3.3 Tides	To understand equilibrium theory of tides	PPT presentation and animated videos
3.4 Ocean currents	Understand the dynamics of ocean currents and controlling factors.	Chalk and talk method, field work
Module – IV – Ocean water and man – ocean water ecosystem, ocean water pollution, ocean and global climate change		
4.1 Man and ocean	Understand the relationship between man and the ocean	Chalk and talk method, field work

4.2 Ocean water ecosystem	Study the ocean ecosystem and their characteristics	Chalk and talk method, group discussion
4.3 ocean pollution	Understand the causes and effects of ocean water pollution	PPT presentation and animated videos
4.4 oceans and global warming	Understand the impact of global warming on ocean water characteristics	PPT presentation and animated videos
Practical – interpretation of navigation charts and bathymetric maps, signs and symbols, world map filling related to oceanography		
1. Navigation chart	Understand the concept of navigation chart Interpretation of navigation charts	Demonstration and practical exercise
2. Bathymetric maps	Understand the concept of bathymetric chart Interpretation of bathymetric charts	Demonstration and practical exercise

## COURSE OUTCOMES

**Department: GEOGRAPHY**

**Class: SYBA / Sem - 4**

**Subject and Paper: Geography Paper - 3**

**Name of the Paper / course: Agricultural Geography of India**

**Name of the Faculty: Dr. Sumant Eknath Autade**

Module – I – Agricultural geography, nature, scope and branches, importance of Indian agriculture, Indian agriculture as a major source for food production export		
	Course Outcomes	Teaching methods
Agriculture Geography – Introduction	Understand Agriculture Geography –	Chalk and talk method, group discussion
Nature and Scope of Agricultural Geography	Understand nature and Scope of Agricultural Geography	PPT presentation and animated videos
importance of Indian agriculture,	Discuss importance of Indian agriculture,	PPT presentation and animated videos
Indian agriculture as a major source for food production export	Understand Indian agriculture as a major source for food production export	PPT presentation and animated videos
Module – II – Silent features of Indian agriculture, types of farming in India, major food crops, agro-climatic regions of India, problems of Indian agriculture		
Silent features of Indian agriculture,	Understand silent features of Indian agriculture	Chalk and talk method, group discussion
types of farming in India,	Differentiate various types of Indian agriculture	PPT presentation and animated videos
major food crops,	Understand crop requirement, production and distribution of major crops	PPT presentation and animated videos
agro-climatic regions of India,	Identify and delineate agro-climatic regions of India	Chalk and talk method, group discussion
problems of Indian agriculture	Discuss and create awareness among problems of Indian agriculture	PPT presentation and animated videos
Module – III - Green Revolution in India, characteristics of green revolution, components of green revolution, Effect of green revolution – positive and negative, need for sustainable agriculture		
Green Revolution in India, characteristics of green revolution,	Understand the concept of green revolution	Chalk and talk method, group discussion
components of green revolution,	Understand the components of green revolution	PPT presentation and animated videos
Effect of green revolution – positive and negative,	Study impact of green revolution	PPT presentation and animated videos
need for sustainable agriculture	Identify and understand the needs for sustainable agriculture	Chalk and talk method, group discussion
Module – IV – Recent trends in agriculture, white revolution, poly house farming, agro-forestry, tissue farming, genetic engineering, agro-tourism		
Recent trends in agriculture,	Awareness about recent trends in agriculture	Chalk and talk method, group discussion

white revolution, poly house farming, agro-forestry,	Understand important recent trends in agriculture	PPT presentation and animated videos
tissue farming, genetic engineering, agro-tourism	Understand important recent trends in agriculture	PPT presentation and animated videos
Practical – graphical presentation of geographical data – line graph, superimposed line graph, bar graph, joint bar graph, joint bar graph		
line graph, superimposed line graph	Construct of line graph, superimposed line graph	Demonstration and practical exercise
bar graph, joint bar graph, joint bar graph	Construction of bar graph, joint bar graph, joint bar graph	Demonstration and practical exercise