

REVISED SYLLABUS 2022-23



**Hindi Vidya Prachar Samiti's**  
**Ramniranjan Jhunjhunwala College**  
**of Arts, Science & Commerce**  
**(Autonomous College)**

**Affiliated to**  
**UNIVERSITY OF MUMBAI**

**Syllabus for S.Y.B.A.**

**(CBCS)**

**2019-20**

**2020-21**

**2021-22**

**Program: B.A. GEOGRAPHY**

**Paper I**

**Program Code: RJAUGEO**

**DISTRIBUTION OF TOPICS AND CREDITS**

**S.Y.B.A. GEOGRAPHY SEMESTER III**

Course	Nomenclature	Credits	Topics
RJAUGEO301	Climatology	03	<ol style="list-style-type: none"> <li>1. Introduction to Climatology</li> <li>2. Atmospheric Circulation</li> <li>3. Climate and weather phenomena</li> </ol>
RJAUGEO302	Physical Geography of India	03	<ol style="list-style-type: none"> <li>1. Location and physiographic divisions of India</li> <li>2. Drainage and Climate</li> <li>3. Soil and Natural Vegetation and Minerals of India</li> </ol>

**S.Y.B.A. GEOGRAPHY SEMESTER IV**

Course	Nomenclature	Credits	Topics
RJAUGEO401	Oceanography	03	<ol style="list-style-type: none"> <li>1. Introduction to Oceanography</li> <li>2. Ocean water</li> <li>3. Man and ocean</li> </ol>
RJAUGEO402	Agricultural Geography of India	03	<ol style="list-style-type: none"> <li>1. Introduction to Indian Agriculture</li> <li>2. Green Revolution in India</li> <li>3. Recent Trends in Agriculture</li> </ol>

## **Course Objective and Learning Outcome**

### **SEMESTER III**

<b>SYBA Paper II</b>	<b>Course Objective and Learning Outcome</b>
<b>Name - CLIMATOLOGY</b> <b>Paper Code: RJAUGEO301</b>	<b>COURSE OBJECTIVES:</b> <ul style="list-style-type: none"><li>● To educate students in the basic concepts of Climatology.</li><li>● To provide scientific and logical explanations for climatic phenomena.</li><li>● To create an understanding of spatial variation in the climatic elements.</li><li>● Effective learning skills to study for better presentation of the course material.</li><li>● Awareness and scientific knowledge of global climate and climate change.</li></ul> <b>LEARNING OUTCOMES:</b> <ul style="list-style-type: none"><li>● Basic concepts of Climatology</li><li>● Understanding of the spatial variation in climate on the globe.</li><li>● Geographical knowledge base to understand changing climatic conditions of the globe.</li><li>● Database for competitive exams</li><li>● Attitude of concern for global warming and climate change</li></ul>

<b>SYBA Paper III</b>	<b>Course Objective and Learning Outcome</b>
<b>Name - Physical Geography of India Paper Code: RJAUGEO302</b>	<b>COURSE OUTCOMES:</b> <ul style="list-style-type: none"><li>● To educate students about the spatial variation in the geographical details of India</li><li>● To impart training of map skills to the students.</li><li>● To make students understand the importance of capacity building - power of thinking, reasoning and memory</li><li>● To create a knowledge base for competitive exams.</li></ul> <b>LEARNING OUTCOMES:</b> <ul style="list-style-type: none"><li>● Geographical details of India</li><li>● Spatial variation in physical features, vegetation, soil and minerals in India</li><li>● Effective learning skills for capacity building</li><li>● Confidence for competitive exams.</li></ul>

**Course Objective and Learning Outcome****SEMESTER IV**

<b>SYBA Paper II</b>	<b>Course Objective and Learning Outcome</b>
<b>Name - Oceanography Paper Code: RJAUGEO401</b>	<p><b>COURSE OBJECTIVES:</b></p> <ul style="list-style-type: none"><li>● To educate students about characteristic features of major oceans of the world.</li><li>● To develop the understanding of the spatial and temporal variation of temperature and salinity of ocean water.</li><li>● To impart scientific explanation for occurrence of waves, tides and ocean currents.</li><li>● To create awareness about coral reefs, marine ecosystems and marine pollution.</li><li>● To train students in the skills in reading and interpretation of maps</li><li>● Demonstrate knowledge to develop the power of thinking, reasoning and Memory.</li><li>● To develop a knowledge base about oceanography.</li></ul> <p><b>LEARNING OUTCOMES:</b></p> <ul style="list-style-type: none"><li>● Understanding of the spatial and temporal variation of temperature and salinity of ocean water.</li><li>● Confidence in explanation for waves, tides and ocean currents</li><li>● Attitude of concern for coral reefs, marine ecosystem and marine pollution.</li><li>● Skills in reading and interpretation of maps</li><li>● Confidence for competitive exam.</li></ul>

SYBA Paper II	Course Objective and Learning Outcome
<p><b>Name - Agricultural Geography of India</b>  <b>Paper Code: RJAUGEO402</b></p>	<p><b>COURSE OUTCOMES:</b></p> <ul style="list-style-type: none"> <li>● To educate students about geographical details of farming activities in India</li> <li>● To make students understand the spatial variation in nature of farming and the crops in India</li> <li>● To develop scientific attitude and independent thinking to understand the influence of geographical factors on the agricultural activities in India</li> <li>● To create awareness about the present agricultural practices and the problems faced by farmers in India</li> <li>● To train students in the skills in reading and interpretation of maps</li> <li>● Demonstrate knowledge to develop the power of thinking, reasoning and memory</li> </ul> <p><b>LEARNING OUTCOMES:</b></p> <ul style="list-style-type: none"> <li>● Recall the locations and areas of India.</li> <li>● Capacity building - power of thinking, reasoning and memory</li> <li>● Map skills and presentation skills</li> <li>● Geographical knowledge base for competitive exams</li> </ul>

<b>SEMESTER III</b>		<b>L</b>	<b>Cr</b>
<b>Paper II : CLIMATOLOGY</b>		<b>Paper Code: RJAUGEO301</b>	
		45	3
<b>Unit I - INTRODUCTION TO CLIMATOLOGY</b>		<b>15</b>	
1	Definition, Nature, Scope and Branches of Climatology		
2	Branches of Climatology		
3	Atmosphere - Composition and Structure		
4	Insolation: Heat Balance		
5	Vertical and Horizontal Distribution of Temperature		
<b>Unit II - ATMOSPHERIC CIRCULATION</b>		<b>15</b>	
1	Atmospheric pressure belts: Influencing factors – Tri-cellular model		
2	Winds – Planetary Winds, Regional Winds and Local Winds		
3	Types of Humidity – Absolute, Relative and Specific		
4	Forms of Condensation		
5	Precipitation – Types and Global Distribution		
<b>Unit III – CLIMATE AND WEATHER PHENOMENA</b>		<b>15</b>	
1	Cyclones: Tropical and Temperate		
2	Anti-cyclones and Tornadoes		
3	EL NINO and LA NINA		
4	Global Warming		
5	Global Climate Change		

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**S.Y.B.A Geography Syllabus Semester III & IV**

<b>SEMESTER III</b>		<b>L</b>	<b>Cr</b>
<b>Paper II – Physical Geography of India</b>		<b>Paper Code: RJAUGEO302</b>	
		45	4
<b>Unit I - Location and Physiographic divisions of India</b>		<b>15</b>	
1	India: Location, extent and significance		
2	India: Major physiographic divisions and their formation		
3	Mountainous regions of India		
4	North Indian plains of India		
5	Peninsular plateau of India		
6	Coastal plains and Islands of India		
<b>Unit II – Drainage and Climate</b>		<b>15</b>	
1	Drainage systems in India (Himalayan and Peninsular)		
2	Major Himalayan Rivers of India		
3	Major Peninsular Rivers of India		
4	Major lakes of India		
5	Seasons in India		
6	Distribution of rainfall in India		
<b>Unit III – Soils, Natural Vegetation &amp; Minerals of India</b>		<b>15</b>	
1	Classification of soils in India		
2	Problems associated with soil and measures for soil conservation in India.		
3	Classification of Forest in India		
4	Deforestation and measures for forests conservation in India		
5	Distribution of metallic and non- metallic minerals in India		
6	Distribution of energy resources in India		

<b>SEMESTER IV</b>		<b>L</b>	<b>Cr</b>
<b>Paper I: OCEANOGRAPHY</b>	<b>Paper Code: RJAGEO401</b>	<b>45</b>	<b>4</b>
<b>Unit I - Introduction to OCEANOGRAPHY</b>		<b>15</b>	
1	Oceanography: Origin and Development		
2	Oceanography: Nature, scope and Branches		
3	Major Oceans and their characteristic features – The Pacific, The Atlantic and The Indian ocean		
5	Major divisions of the ocean floor		
<b>Unit II- OCEAN WATER</b>		<b>15</b>	
1	Composition of ocean water		
2	Temperature of ocean water - Factors affecting - Vertical and horizontal distribution		
3	Salinity of ocean water - Factors affecting – Vertical and horizontal distribution		
4	Concept and types of Tides		
5	Ocean Currents – Types and their effects		
<b>Unit III - MAN AND OCEAN</b>		<b>15</b>	
1	Coral reefs and their importance		
2	Marine Ecosystem – components, characteristics		
3	Marine pollution –causes and consequences		

<b>SEMESTER IV</b>		<b>L</b>	<b>Cr</b>
<b>Paper III - AGRICULTURAL GEOGRAPHY OF INDIA</b>	<b>Paper Code: RJAUGEO402</b>	45	3
<b>Unit I - INTRODUCTION TO INDIAN AGRICULTURE</b>		<b>15</b>	
1	Factors influencing farming in India		
2	Types of farming		
3	Major crops of India		
4	Problems associated with Indian agriculture		
<b>Unit II - GREEN REVOLUTION IN INDIA</b>		<b>15</b>	
1	Need of Green Revolution in India		
2	Components of Green Revolution		
3	Positive & Negative impacts of Green Revolution		
4	Need of Sustainable Agriculture in India		
<b>Unit III - RECENT TRENDS IN AGRICULTURE</b>		<b>15</b>	
1	Genetic Engineering, Tissue Culture		
2	Poly House Agriculture, and Horticulture		
3	Agro-tourism & Agro forestry		
4	White revolution and Livestock Resources		

### References

1. Barry, R.G. And Chorley, R.J. (2003): Atmosphere, Weather And Climate; Psychology Press, Hove; East Sussex
2. Critchfield, H.J. (1975): General Climatology, Prentice Hall, New Jersey.
3. Lal D.S. (1997): Climatology; Sharda Pustak Bhavan; Allahabad
4. Oliver, J.E. (1993): Climatology: An Atmospheric Science, Pearson Education India, New Delhi
5. Trewartha, G.T. (1980): An Introduction To Climate; Mcgraw Hill, New York, 5th Edition, (International Student Edition)
6. Tirth, R (1996): Geography of India, Rawat Publications, Jaipur.
7. Majid Hussain (2014) (5th edition): Geography of India, McGraw Hill Education (India) Private Ltd, Uttar Pradesh.
8. Shinde P. Pednekar H. Et.Al. (2010): Introduction To Geography, Sheth Publishers Pvt.Ltd., Mumbai
9. Chawan S.V. (Ed) (2015): Physical Geography, Paper I, Published By Director (I/C), Institute Of Distance And Open Learning, University Of Mumbai.
10. Chawan S.V. (Ed) (2015): Physical Geography Paper I, Published By Director (I/C) Institute Of Distance And Open Learning, University Of Mumbai
11. Forest Survey of India: State Forests Reports, Dehradun.
12. Khullar, D.R. (2014): India: A Comprehensive Geography; Kalyani Publishers
13. Miller, R.W. et al. (1995): Soil in Our Environment, Prentice hall, U.S.A.
14. Raychudhari, S.P. (1958): Soils of India, ICAR, New Delhi
15. Robinson, F (ed.) (1989): The Cambridge Encyclopedia of India, Pakistan, Bangladesh and Sri Lanka, Cambridge University Press.
16. Savindra Singh (2006): Physical Geography of India, Pravalika Publications, Allahabad.
17. Bhatt. J.J (1978): Exploring The Planet Ocean, D. Von. Nostrand Co. New York.
18. Birla Economic Research Foundation, Economic Research Division (1992): The Oceans, Allied Publishers Ltd. New Delhi.

19. Chandra S. And Others (Ed) (1993): The Indian Ocean And Its Islands; Strategic Scientific And Historical Perspectives, Sage Publication New Delhi.
20. Fairbridge, R.W. (Ed) Encyclopedia Of Oceanography, Reinhol, New York.
21. Sharma, R.C. (Ed) (1985): The Oceans: Realities And Prospects. Rajesh Publications, New Delhi.
22. Sengupta R. And Desai (Ed)(2001): The Indian Ocean: A Perceptive Vol. 1 & 2 Oxford And INH Publishing Company Pvt. Ltd, New Delhi.
23. Paul, P.R. (1998): Invitation To Oceanography, Jones And Bartlett Publishing Sudbury, Massachusetts.
24. Rajgopalan, R (Ed) (1996): Voices For Oceans- A Report To The Independent World Commission On The Oceans, International Ocean Institute, Operational Center,, Madras India.
25. Qasim, S.Z. (1998): Glimpses Of Indian Ocean, University Press India Ltd. Hyderabad.
26. Deshpande C.D. (1992): India: A Regional Interpretation, Northern Book Centre, New Delhi.
27. Bharucha, F.R. (1983): A textbook of the plant geography of India, Oxford University Press, Mumbai.
28. Sharma T.C. (2013) Economic Geography of India; Rawat Publications, New Delhi.
29. Shinde P.; Pednekar H. et.al. (2011): Economic Geography of India, SYBA paper II Sheth Publishers, Pvt. Ltd., Mumbai
30. Singh, R.L. (1971): India-A Regional Geography, National Geographical Society of India, Varanasi.
31. Online Resources For Blended Learning