



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

Affiliated to
UNIVERSITY OF MUMBAI

Syllabus for S.Y.B.A.
Program: B.A. GEOGRAPHY
Program Code: RJAUGEO

(CBCS 2019-20)

DISTRIBUTION OF TOPICS AND CREDITS

S.Y.B.A. GEOGRAPHY SEMESTER III

Course	Nomenclature	Credits	Topics
RJAUGEO301	Climatology	03	1. Introduction to Climatology 2. Atmospheric Circulation 3. Climate and weather phenomena
RJAUGEO302	Physical Geography of India	03	1. Location and physiographic divisions 2. Rivers and lakes 3. Climate, Soil and Natural Vegetation

S.Y.B.A. GEOGRAPHY SEMESTER IV

Course	Nomenclature	Credits	Topics
RJAUGEO401	Oceanography	03	1. Introduction to Oceanography 2. Submarine Relief Features 3. Movements of Ocean Water
RJAUGEO402	Agricultural Geography of India	03	1. Geography of Indian Agriculture 2. Green Revolution in India 3. Recent Trends in Agriculture

SYBA – SEMESTER III

SUBJECT CODE: RJAUGEO301

COURSE NAME: CLIMATOLOGY

COURSE OBJECTIVES:

1. To educate students in the basic concepts of Climatology.
2. To provide scientific and logical explanation for climatic phenomena.
3. To create an understanding of spatial variation in the climatic elements.
4. Effective learning skills to study for better presentation of the course material.
5. Awareness and scientific knowledge of global climate and climate change.

LEARNING OUTCOMES:

- Basic concepts of Climatology
- Understanding of the spatial variation in climate on the globe.
- Geographical knowledge base to understand changing climatic conditions of the globe.
- Data base for competitive exams
- Attitude of concern for global warming and climate change

SEMESTER III		L	Cr
Paper II : CLIMATOLOGY		Paper Code: RJAUGEO301	
		45	3
Module I - INTRODUCTION TO CLIMATOLOGY		15	
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		
Module II - ATMOSPHERIC CIRCULATION		15	
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		
Module III – CLIMATE AND WEATHER PHENOMENA		15	
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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SYBA – SEMESTER III

SUBJECT CODE: RJAUGEO302

COURSE NAME: PHYSICAL GEOGRAPHY OF INDIA

COURSE OUTCOMES:

1. To educate students about the spatial variation in the geographical details of India
2. To impart training of map skills to the students.
3. To make students understand the importance of capacity building - power of thinking, reasoning and memory
4. To create knowledge base for competitive exam.

LEARNING OUTCOMES:

- Geographical details of India
- Spatial variation in physical features, vegetation, soil and minerals in India
- Effective learning skills for capacity building
- Confidence for competitive exams.

SEMESTER III		L	Cr
Paper II – Physical Geography of India		Paper Code: RJAUGEO302	
		45	4
Module I - Introduction		15	
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		
Module II – Drainage and Climate		15	
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		
Module III – Soils, Natural Vegetation and Minerals		15	
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		
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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, Bangla desh and Sri Lanka, Cambridge University Press.
16. Savindra Singh (2006): Physical Geography of India, Pravalika Publications, Allahabad.

SYBA – SEMESTER IV

SUBJECT CODE: RJAUGEO401

COURSE NAME: OCEANOGRAPHY

COURSE OBJECTIVES:

- To educate students about characteristic features of major oceans of the world.
- To develop the understanding of the spatial and temporal variation of temperature and salinity of ocean water.
- To impart scientific explanation for occurrence of waves, tides and ocean currents.
- To create awareness about coral reefs, marine ecosystem and marine pollution.
- To train students in the skills in reading and interpretation of maps
- Demonstrate knowledge to develop the power of thinking, reasoning and Memory.
- To develop knowledge base about oceanography.

LEARNING OUTCOMES:

- ✓ Understanding of the spatial and temporal variation of temperature and salinity of ocean water.
- ✓ Confidence in explanation for waves, tides and ocean currents
- ✓ Attitude of concern for coral reefs, marine ecosystem and marine pollution.
- ✓ Skills in reading and interpretation of maps
- ✓ Confidence for competitive exam.

SEMESTER IV		L	Cr
Paper I: OCEANOGRAPHY		Paper Code: RJGEO401	
		45	4
MODULE I - NATURE OF OCEANOGRAPHY		15	
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		
MODULE II- OCEAN WATER		15	
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		
MODULE III - MAN AND OCEAN		15	
1	Coral reefs and their importance		
2	Marine Ecosystem – components, characteristics		
3	Marine pollution –causes and consequences		

SYBA – SEMESTER IV

SUBJECT CODE: RJAUGEO402

COURSE NAME: Agricultural Geography of India

COURSE OUTCOMES:

- To educate students about geographical details of farming activities in India
- To make students understand the spatial variation in nature of farming and the crops in India
- To develop scientific attitude and independent thinking to understand the influence of geographical factors on the agricultural activities in India
- To create awareness about the present agricultural practices and the problems faced by farmers in India
- To train students in the skills in reading and interpretation of maps
- Demonstrate knowledge to develop the power of thinking, reasoning and memory

LEARNING OUTCOMES:

- ✓ Recall the locations and areas of India.
- ✓ Capacity building - power of thinking, reasoning and memory
- ✓ Map skills and presentation skills
- ✓ Geographical knowledge base for competitive exams

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

References

1. Bhatt. J.J (1978): Exploring The Planet Ocean, D. Von. Nostrand Co. New York.
2. Birla Economic Research Foundation, Economic Research Division (1992): The Oceans, Allied Publishers Ltd. New Delhi.
3. Chandra S. And Others (Ed) (1993): The Indian Ocean And Its Islands; Strategic Scientific And Historical Perspectives, Sage Publication New Delhi.
4. Fairbridge, R.W. (Ed) Encyclopedia Of Oceanography, Reinhol, New York.
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9. Qasim, S.Z. (1998): Glimpses Of Indian Ocean, University Press India Ltd. Hyderabad.
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11. Bharucha, F.R. (1983): A textbook of the plant geography of India, Oxford Unievrsty Press, Mumbai.
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13. Shinde P.; Pednekar H. et.al. (2011): Economic Geography of India, SYBA paper II Sheth Publishers, Pvt. Ltd., Mumbai
14. Singh, R.L. (1971): India-A Regional Geography, National Geographical Society of India, Varanasi.
15. Online Resources For Blended Learning

Scheme of Examinations

1. Two Internals of 20 marks each. Duration 30min for each.
2. One External (Semester End Examination) of 60 marks. Duration 2 hours.
3. SEE (Semester End Examination)
 - Q1. Answer any one of the following. (Module I) 15 Marks
 - a)
 - b)
 - Q2. Answer any one of the following. (Module II) 15 Marks
 - a)
 - b)
 - Q3. Answer any one of the following. (Module III) 15 Marks
 - a)
 - b)
 - Q4. Write short notes on:(Any 3 out of 5) 15 Marks
, From all modules
4. Minimum marks for passing Semester End Exam and Internal Exam is 40 %.
5. Student must appear for at least one of the two Internal Tests to be eligible for the Semester End Examination.
6. For any KT examinations, there shall be ODD-ODD/EVEN-EVEN pattern followed.
7. HOD's decision, in consultation with the Principal, shall remain final and abiding to all.