"Education for Knowledge, Science and Culture"

- **Shikshanmaharshi Dr. BapujiSalunkhe**

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Autonomous).

Syllabus

Proposed Syllabus for Bachelor of Arts

(B. A. Part II – Geography Semester III & IV)

Semester & Choice Based Credit System (CBCS)

(Subject to the modification to be made from time to time)

Syllabus with effect from September 2022

Vivekanand College, Kolhapur (Autonomous)
Syllabus, B.A. (Part II) Geography
(Introduced from June 2022 Onwards)

Sr. No.	Title	Semester
1	Soil Geography	III
2	Resource Geography	III
3	Oceanography	IV
4	Agriculture Geography	IV

GEOGRAPHY B.A. II (From September, 2022)

Sem. III & Sem. IV
Structure of the Question Paper
Discipline Specific Course

Total Marks: 35

- **All Questions are compulsory (Based on all Modules)**

Sr. No.	Nature	Marks
Q. 1.	A. Multiple Choice Questions	05 Marks
Q.2.	A. Broad Answer Question	10 Marks
	B. Broad Answer Question	10 Marks
Q.3	Short notes (Any 2)	10 Marks
	Total	**35 Marks**

Internal Evaluation: 15 Marks

Sr. No.	**Evaluation Type**	**Marks**
1.	Home Assignment	07
2.	Unit Test	08
	Total	**15**

Vivekanand College, Kolhapur (Autonomous)
Syllabus, B.A. (Part II) Geography
(Introduced From September, 2022 Onwards)
CBCS System, Semester - III
Soil Geography, DSC-1022C1

1. **Course Outcomes: -**

CO No.	On completion of the course, student will be able to:
CO1	understand significance of soil geography which is the fundamental branch of Physical Geography.
CO2	compare and relate soil is key resource for the development of any country, familiar with the various concepts, needs and methods soil of management for better agriculture
CO3	classify soil degradation and soil distribution in Maharashtra and India & use soil sample tools with advanced methods with lab to land survey
CO4	analyze saline and alkaline soil and comprehend *vermi* compost process to enhance soil quality

SYLLABUS:

Module	Soil Geography	(No. of Credits)
Module I	**Introduction to Soil Geography**	**01**(12 Lectures)
	1.1 Definition and Scope of Soil Geography 1.2 History of Soil Geography and Pedology 1.3 Approaches in Soil Geography 1.4 Significance of Soil Geography	
Module II	**Soils: Formation and Properties**	**01**(18 Lectures)
	2.1 Soil as a resource 2.2. Jenny's Factorial Model of Soil Formation: Parent Material, Biotic, Climatic, Relief and Time factor 2.3. Process of Soil Formation: Physical, Biotic and Chemical 2.4 Properties of Soil: i. Physical Properties of Soils: Morphology, Texture, Structure, Water, Air and Temperature ii. Chemical Properties of Soils: P^H, Organic Matter, NPK (Nitrogen, Phosphorous and Potassium).	
Module III	**Soils: Classifications, Distribution and Management**	**01**(18 Lectures)
	3.1 Genetic Classification of Soils 3.2 Major Soils Distribution in Maharashtra. 3.3 Soil Degradation: Concept, Causes, consequences and Measures 3.4 Soil Management: Need and Method	Base maps
Module IV	**Practical (Theory and Practical)**	**01**(12 Lectures)

	4.1 Soil Profile 4.2 Soil Sample: Tools 4.3 Soil Analysis 4.4 Soil Mapping	

References:-

1. Backman, H.O and Brady, N.C.(1960.)The Nature and Properties of Soils, Mc Millan NewYork.
2. Bennet, Hugh H.: Soil Conservation, McGraw Hill, New York .
3. Bunting, B.T.(1973) The Geography of Soils, Hutchinson, London.
4. Clarke G.R.(1957) Study of the Soil in the Field, Oxford University Press, Oxford.
5. Foth H.D. and Turk, L.M.(9172) Fundamentals of Soil science, John Wiley, New York.
6. Govinda Rajan, S.V. and Gopala Rao, H.G.(9178) Studies on Soils of India Vikas, New Delhi.
7. Mc. Bride, M.B.(1999)Environmental Chemistry of Soils, Oxford University Press, New York.
8. Nye, P.H. and Greene, D.J.(1960)The Soil under Shifting Cultivation Commonwealth Bureau of Soil Science, Technical Communication, No. 51; Harpender, England.
9. Raychoudhuri, S.P.(1958) Soils of India, ICAR, New Delhi.
10. Russell, Sir Edward J.:(1961) Soil Conditions and Plant Growth, Wiley, New York.
11. खतिब के. ए., (२०१४): मृदा भूगोल, संजोग प्रकाशन, कदमवाडी, कोल्हापूर - ०३.

Vivekanand College, Kolhapur (Autonomous)
Syllabus, B.A. (Part II) Geography
(Introduced from September, 2022 Onwards)
CBCS SYSTEM, Semester - III
Resource Geography, DSC-1022C2

1. **Course Outcomes: -**

CO No.	On completion of the course, student will be able to:
CO1	Understand Resource Geography is the fundamental branch of Physical Geography.
CO2	understand mineral resources is key resources in environment
CO3	Get acquainted with forest and energy resources as well
CO4	Define approaches in resource management and Elaborate principles of energy conservation and Indian Renewable

SYLLABUS:

Module	Resource Geography	(No. of Credits)
Module I	**Introduction to Resource Geography**	**01**(15 Lectures)
	1.1 Definition, nature and scope of Resources Geography **1.2** Concept of Resources **1.3** Classification of Resources **1.4** Significance of Resource Geography	
Module II	**Mineral Resources**	**01** (15 Lectures)
	2.1 Importance of Mineral Resources **2.2** Types of Minerals **2.3** Distribution and Production of Iron Ore, Bauxite and Manganese in USA, USSR and India with special reference to Maharashtra	
Module III	**Forests and Energy Resources**	**01**(18 Lectures)
	3.1 Forest Resources: Importance of Forest, Types of Forest, Distribution and Characteristics of Forest Resources **3.2** Problems of Forest Resources **3.3** Energy Resources: Distribution and Utilization, Non-renewable (Oil, Natural Gas, Coal), Renewable (Solar, Hydro, Wind) **3.4** Problems and prospects of Energy Resources: Environmental impacts of non-renewable energy consumption, Prospects of Energy Resources	
Module IV	**Computer Based Practical**	**01**(12 Lectures)
	4.1 Line Graph **4.2** Bar Graph **4.3** Pie Chart **4.4** Proportional Circle	

References: -

1. Bruc Mitchell: Geography Resources Analysis, John Willy and Sons, New Yark

2. B. D. Nag Choudhary: Introduction to Environment Management, Inter Print Mehata House New Delhi.

3. Basant Singh: Sustainability: Demography of Resources , Geographical Publication Jaipur.

4. C. D. Deshpande: Geography of Maharashtra, National Book of Trust of India.

5. Cutter L., Ranwick H. L.: Exploration Conservation and Presentation : A Geographical Perspective and Natural Resources use, Rowmon and Allanheld, Towata.

6. Karave: Maharastra- Land and People.

7. Khatib A. K. : Geography of Maharashtra, Mehata Publication, Pune.

8. O.P. Mathewes: Water Resources Geography and Laws, Scientific Publisher Jodhpur.

9. Roonwal M. L.: The Natural Resources of Rajasthan, University Of Jodhpur, Jodhpur.

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Vivekanand College, Kolhapur (Autonomous)
SYLLABUS, B.A. (Part II) Geography
(Introduced from September, 2022 Onwards)
CBCS SYSTEM, Semester - IV
Oceanography, DSC-1022D1

1. Course Outcomes: -

CO No.	On completion of the course, student will be able to:
CO1	define nature and scope of oceanography
CO2	describe temperature, salinity and currents of ocean
CO3	classify ocean deposits.
CO4	acquainted with practical's related to oceanography i.e., hypsographic curve, wind rose, Isohalines and isotherms.

SYLLABUS:

Module	Oceanography	(No. of Credits)
Module I	**Introduction to Oceanography**	**01**(15 Lectures)
	1.1 Definition, Nature and Scope of Oceanography **1.2** Oceanography and Physical Sciences **1.3** Branches of Oceanography **1.4** Significance of Oceanography	
Module II	**Properties and Dynamics of Ocean**	**01** (15 Lectures)
	1.1 Oceanic Properties: Ocean Temperature and Salinity **1.2** Oceanic Movements: Waves, Tides, Currents (Pacific, Atlantic and Indian Ocean)	
Module III	**Applied Oceanography**	**01**(15 Lectures)
	3.1 Ocean or Marine deposits: Sources and Classification **3.2** Ocean Resources: Biotic, Mineral and Energy Resources **3.4** Ocean Pollution: Causes, Effects and Measures	
Module IV	**Practical**	**01**(15 Lectures)
	4.1 Hypsographic Curve **4.2** Wind rose **4.3** Isohalines **4.4** Isotherms	

References:-

1. Anikouchine, W.A. and Sternberg, R.W. (1973) The World Oceans - An Introduction to Oceanography, Englewood Cliffs, N.J.

2. Grald, S. (1980) General Oceanography - An Introduction, John Wiley & Sons, New York.
3. Garrison, T.(1998) Oceanography. Wadsworth.com. USA .
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6. Sharma, R.C. Vatel M. (1986)Oceanography for Geographers, Chetnya Publishing House,Allahabad.
7. Shepard, F.P.(1948) Submarine Geology, Harper & Sons, New York.
8. Thurman, H.B.(1984) Introductory Oceanography, Charles Webber E. Merril Publishing Co.
9. Weisberg, J. and Howard(1976) Introductory Oceanography, McGraw-Hill Book Co., NewYork.
10. Davis.Richard J.A.(1986) "Oceanography - An Introduction to the Marine Environment".Wm. C. Brown lowa.
11. Duxbury, C.A and Duxbury B.(1996) An Introduction to the world's Oceans -C.Brown. Iowa,2nd ed.
12. Garrison, T.(2001) "Oceanography - An Introduction to Marine Science, Books/Cole, Pacific Grove, USA.
13. Gross, M.Gran (1987) Oceanography: A View of the Earth , Prantice - Hall Inc. New Jersy.
14. Sharma, R.C.(1985) " The Oceans " Rajesh N.Delhi.
15. Ummerkutty, A.N.P.(1985) Science of the Oceans and Human life, NBT, New Delhi .
16. Denny, M.(200) How the Ocean works : An introduction to Oceanography, Princeton University Press, New Jersey
17 Thurman, H. B.:Introductory Oceanography, Charles Webber E. Merril publishing
18 Weisberg J. and Howard:Introductory Oceanography, McGraw- Hill Book ,New York.
19. प्रा. देशमुख, सावरकर, भेंडकर (२००५): हवामानशास्त्र व सागरशास्त्र, विद्या प्रकाशन, नागपूर.
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21. घारपुरे , पवार (१९९८): सागरविज्ञान, पिंपळापुरे अँड कं . पब्लिशर्स, नागपूर.
22. सवदी, कोळेकर (२००४): हवामानशास्त्र व सागरशास्त्र, निराली प्रकाशन , पुणे.
23. श्री. दाते व सौ. दाते (१९७०): प्राकृतिक भूगोल , रावील पब्लिकेशन, सातारा.
24. जाधव बी. एस., जाधव के. आर., पाटील ए. बी., (२०१४): सागरशास्त्र, नाग नालंदा प्रकाशन, इस्लामपूर.
25. कोलते, पपुराणिक कुबडे (१९९०) : हवामानशास्त्र व सागरविज्ञान, विद्या प्रकाशन, नागपूर.

Vivekanand College, Kolhapur (Autonomous)
Syllabus, B.A. (Part II) Geography
(Introduced from September, 2022 Onwards)
CBCS System, Semester - IV
Agricultural Geography, DSC-1022D2

1. **Course Outcome: -**

CO No.	On completion of the course, student will be able to:
CO1	understand the concept and development of Agriculture
CO2	know modern technologies used in Agriculture.
CO3	inspect the role of agricultural determinants towards the changing cropping pattern.
CO4	know agricultural concepts and modern technologies used in recent agricultural systems with Green Revolution

SYLLABUS:

Module	Agricultural Geography	(No. of Credits)
Module I	**Introduction to Agricultural Geography**	**01**(12 Lectures)
	1.1 Definition, Nature and Scope of Agricultural Geography 1.2 Evolution of agriculture: Ancient, Medieval and Modern Period 1.3 Determinants of Agriculture 1.4 Significance of Agricultural Geography	
Module II	**Agricultural Systems and Land use Theory**	**01** (18 Lectures)
	2.1 Major Agricultural Systems of the World (Nomadic herding, Livestock ranching, Sifting cultivation, Intensive subsistence Farming, Commercial farming and Horticulture) 2.2 Von Thunen's theory of agricultural land use	
Module III	**Concepts and Problems in Agriculture**	**01**(18 Lectures)
	3.1 Agricultural Regionalization (Crop Combination and Crop Diversification) 3.2 Agricultural Problems (physical and Human) 3.3 Modern Concepts in Agriculture (Green revolution and Organic Farming)	
Module IV	**Important Agricultural Documents**	**01**(12 Lectures)
	4.1 Important Documents in Talathi Office 4.2 Importance of Land Revenue 4.3 Importance of Agricultural Journalism	

References: -

1. Bayliss Smith, T.P.: The Ecology of Agricultural Systems. Cambridge University Press, London, 1987
2. Berry, B.J.L. et. al. : The Geography of Economic Systems. Prentice Hall, New York, 1976
3. Brown, L.R. : The Changing World Food Prospects – The Nineties and Beyond. World Watch Institute, Washington D.C., 1990
4. Cantor L.M. : A World Geography of Irrigation. Oliver and Bord, London,
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8. Morgan W.B. and Norton, R.J.C. : Agricultural Geography. Mathuen, London, 1971.
9. Nelson, Paul : Greenhouse Operation and Management. Reston Publishing, Virginia, 1985.
10. Sarkar, A.K. : Practical Geography : A Systematic Approach. Oriental Longman, Calcutta, 1997.
11. Sauer, C.O. : Agricultural Origins and Disparities. M.I.T. Press, Mass, U.S.A., 1969.
12. Singh, J and Dhillon, S.S. : Agricultural Geography. Tata McGraw Hill Pub., New Delhi, 1988.

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१६. खतिब के. ए., (२०१४): कृषि भूगोल