

**Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon**

॥अंतरी पेटवू ज्ञानज्योत॥



'A' Grade
NAAC Re-Accredited
(3rd Cycle)

SYLLABUS

For

F. Y. B. A- (Sem. Ist and IInd)

Subject: Geography

Under

Choice Based Credit System

(With Effect from June - 2022)

Semester-wise Course Structure of F. Y. B. A Geography

Semester I

Course	Course Type	Course Title	Teaching Hours/ Week			Marks (Total 100)				Credits
			T	P	Total	Internal		External		
						T	P	T	P	
GG. -101	DSC A -1 Theory	PHYSICAL GEOGRAPHY PART- I (LITHOSPHERE)	3	--	3	40	--	60	--	3

Semester II

Course	Course Type	Course Title	Teaching Hours/ Week			Marks (Total 100)				Credits
			T	P	Total	Internal		External		
						T	P	T	P	
GG. -201	DSC A – 2 Theory	PHYSICAL GEOGRAPHY PART- I (ATMOSPHERE & HYDROSPHERE)	3	--	3	40	--	60	--	3

**Equivalences for old courses of F. Y. B. A Geography
(Semester I and II)**

Semester – Ist

Old Courses (June 2018)		New Courses (June 2022)	
Code of Courses	Title of the courses	Code of Course	Title of the courses
Gg.101	PHYSICAL GEOGRAPHY PART- I (LITHOSPHERE)	GG. 101	PHYSICAL GEOGRAPHY PART- I (LITHOSPHERE)

Semester – IInd

Old Courses (June 2018)		New Courses (June 2022)	
Code of Courses	Title of the courses	Code of Courses	Title of the courses
Gg.201	PHYSICAL GEOGRAPHY PART II (ATMOSPHERE & HYDROSPHERE)	GG. 201	PHYSICAL GEOGRAPHY PART- I (ATMOSPHERE & HYDROSPHERE)

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NORTH MAHARASHTRA UNIVERSITY, JALGAON**

FACULTY OF SCIENCE AND TECHNOLOGY

**Syllabus F.Y.B.A. Semester- I (CBCS Pattern) (DSC A- 1)
With effect from June- 2022**

Gg.- 101: PHYSICAL GEOGRAPHY PART- I (LITHOSPHERE)

Total Credits: 03

Teaching Hours: 45(Each Lecture of 60 min.)

Total Marks: 100

LEARNING OBJECTIVES:

1. To enable students to understand the geographical location with the help of imaginary lines.
2. To acquaint the students about the distribution of continents and oceans in past and present.
3. To study the process of rock formation and mechanism of weathering.
4. To understand the work of various erosional agents on the earth surface.
5. To acquaint the students with the utility and applications of Physical geography in different fields and environment.

LEARNING OUTCOMES:

1. Students find the location and extent of a region using graticule.
2. Understand the composition the earth and distribution of the continents and oceans.
3. Students identify the characteristics of various rocks and explain the process of weathering.
4. Explain the formation of various geographical features.

Unit	Topic Name	Sub-topic	Clock Hours	Marks
I	Imaginary Lines and Earth Motion	A. Introduction to the origin of the Earth. – Big bang theories - Gaseous Hypothesis of Immanuel Kant B. Imaginary lines i. Earth axis ii. Equator iii. Tropic of cancer & Capricorn iv. Arctic and Antarctica circle v. Parallels of latitude and Meridians of longitudes C. Motions of the Earth i. Rotation of the Earth and its effects ii. Revolution of the Earth and its effects	10	15
II	The Earth	a) Interior of the Earth i. The Crust ii. Mantle iii. Core b) Theories related to the distribution of continents and oceans.	13	20

		i. Wagner's Continental Drift theory. ii. Plate Tectonics Theory.		
III	Rocks and Weathering	A. Rocks i. Definition of Rocks ii. Types and Characteristics of rocks a. Igneous rocks b. Sedimentary rocks c. Metamorphic rocks. B. Weathering i. Definition of weathering ii. Types of Weathering a. Mechanical or Physical b. Chemical weathering c. Biological weathering	10	10
4	Work of Geomorphic Agents	A. Work of river i. Erosional landforms of the river ii. Depositional landforms of the river B. Work of Wind i. Erosional landforms of the wind ii. Depositional landforms of the wind	12	15

Unit No.	Weightage of Marks
I	15
II	20
III	10
IV	15
Internal Marks (CA)	40
External Marks (UA)	60

Suggested Readings:

English Books:

1. Ahirrao.W. R., AlizadS.S. and DhapteC.S.(1998) Morphology and landscape, NiraliPrakashan Pune.
2. Bloom A.L.(1998) Geomorphology. A systematic analysis of late cenozoic landforms, Pearsonn education (Singapore) Pvt.Ltd.
3. Chaudhary S.R.,Patil V.J., and Badgujar A.A.(2014) Physical geography, Prashant publication, Jalgaon.
4. Dr. S. R. Chaudhari and Prof. K. M. Gavit (2019), Introduction to Physical Geography – I Geomorphology, Prashant Publication, Jalgaon.
5. Bharmbe S.N., Dhake S. V, Patil. V. J. Physical Geography-Part-I (Lithosphere) Prashant Publication
6. Suryawanshi D.S. and Others. (2011) Geography (Lithosphere and Hydrosphere) Vrinda publication, Jalgaon
7. Singh Savindra, Physical geography (Eng. & Hindi), PrayagPustak Bhavan, Allahabad.
8. Monkhouse F.J.(1996) Principles of Physical Geography, Hodder and Stoughton, London.

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FACULTY OF SCIENCE AND TECHNOLOGY

Syllabus F.Y.B.A. Semester- II (CBCS Pattern) (DSC A - 2)

With effect from June- 2022

Gg.- 201: PHYSICAL GEOGRAPHY PART- II (ATMOSPHERE & HYDROSPHERE)

Total Credits: 03

Teaching Hours: 45 (Each Lecture of 60 min.)

Total Marks: 100

COURSE OBJECTIVES :

1. To aware the students about the structure and composition of the atmosphere.
2. To explain the causes for uneven distribution of insolation and temperature to the students.
3. To introduce the students with the pressure belts and global as well as local wind system.
4. To aware the students about forms of condensation and types of precipitation.
5. To explain the structure of ocean floor and mechanism of ocean currents to the students.

COURSE OUTCOMES :

After completion of the course, the students will be able to -

1. Explain the structure and composition of the atmosphere.
2. Elaborate the causes of uneven distribution of insolation and temperature.
3. Understand the pressure belts and global as well as local wind system.
4. Explain the forms of condensation and types of precipitation.
5. Understand the structure of ocean floor and mechanism of ocean currents.

Sr. No.	Unit	Sub-units	Hours	Marks
01	Atmosphere and Insolation	A. Atmosphere I. Meaning and Importance of Atmosphere II. Composition of Atmosphere III. Structure of Atmosphere a) Troposphere b) Stratosphere c) Ionosphere B. Insolation I. Factors affection insolation a) Angle of the sun rays b) Length of days c) Distance between earth and sun d) Effects of atmosphere II. Temperature a) Horizontal distribution b) Vertical distribution c) Inversion of temperature	10	15

02	Atmospheric Pressure and Winds	A. Atmospheric Pressure I. Measurement and Isobars II. Formation of pressure belts III. Shifting of pressure belts and their effects B. Winds I. Types of winds a) Planetary winds b) Monsoon winds c) Land and sea breezes	10	12
03	Humidity and Precipitation	A. Humidity and precipitation I. Meaning and types a) Absolute humidity b) Relative humidity c) Specific humidity II. Forms of precipitation – fog, dew, frost, hail, rain, snowfall III. Types of rainfall a) Conventional b) Orographic or relief c) Cyclonic	10	15
04	Hydrosphere	A. Submarine relief I. General structure of ocean floor II. Submarine relief of Atlantic ocean III. Submarine relief of Indian ocean B. Ocean currents I. Meaning II. Causes of ocean currents III. Ocean currents in Atlantic ocean IV. Ocean currents in Indian Ocean	15	18

Unit No.	Weightage of Marks
I	15
II	12
III	15
IV	18
Internal Marks (CA)	40
External Marks (UA)	60

Suggested Readings:

English Books :

- 1) Monkhouse J. (1971) : *Principles of Physical Geography*, University of London Press, Ltd.
- 2) Strahler A.N., & A. H. Strahler (1978) : *Modern Physical Geography*, Johan Wiley and Sons, New York.
- 3) Trewartha Robinsin Hammond (1967) : *Physical Elements of Geography*, McGraw Hill Books company, New York.
- 4) Frederich K Lutgens & Edward J ; Trabuck (11th Edition) *The Atmosphere*, PHI Learning Private Ltd New Delhi

- 5) K. Sidharth : *Atmosphere, Weather & Climate* Kisalaya Publications, Pvt Ltd.B-5/4, Poorvi Marg, NEA, Opp shri Gangaram Hospital New Delhi
- 6) Roger G Barry & Richard J Chorley (2003) : *Atmosphere, Weather & Climate*, Routledge Publications
- 7) Subhah Mehtani & Amarjit Sinha : *Oceanography*, Common Wealth Publishing (I edition 2010) Pvt Ltd, 4831/24 Pralhad street, Ansari Road Dariya Ganj, New Delhi
- 8) Alan P Trujillo & Harold Thurman : *Elements of Oceanography*, 10th edition, (2012) PHI Learning Private Ltd New Delhi
- 9) K. Siddhartha : *Oceanography*, Kisalaya Publications, Pvt Ltd.B-5/4, Poorvi Marg, NEA, Opp shri Gangaram New Delhi