

**Progressive Education Society's**  
**Modern College of Arts, Science and Commerce, (Autonomous)**  
**Shivajinagar, Pune – 5**  
**First Year of B.A. Geography**  
**(2019 Course)**

**Course Code: 19ArGeoU101**

**Course Name : Elements of Physical Geography-I (G –1)**

**Teaching Scheme: TH: 4 Hours/Week**

**Credit: 3.5**

**Examination Scheme: CIA: 40 Marks**

**End-Semester: 60 Marks**

**Course Objectives:**

- To introduce the students to the basic concepts in physical geography.
- To orient the students to the applications of physical geography.
- To familiarise the students with different Geo-environmental problems.
- To sensitize the students with urgent need of protection and conservation of different aspects of Earth and its environment.

**Learning Outcomes:**

- Students will understand the basic concepts in physical geography.
- Students will understand the applications of physical geography.
- Students will familiarise with different Geo-environmental problems.
- Students will sensitize with urgent need of protection and conservation of different aspects of Earth and its environment.
- Students will familiarize with the different erosional & depositional features and intervention of mankind in the natural environment.
- Students will be able to understand various geographical phenomenon, their origin, distribution and effect on life. This study will help the students in general and society in particular to cope up with the natural calamities.

**Semester – I**

**Course Content :**

		Lectures
Chapter 1	Introduction	4
	A. Definition and meaning B. Nature and Scope of Physical Geography C. Branches of Physical Geography D. Importance of Physical Geography	
Chapter 2	Fundamental Concepts of the Earth	8
	A. The Earth - Size, Shape, Radius, Circumference, Graticule, Parallels of Latitudes and Meridians of Longitudes B. Time - Local time and Standard time, Time Zone and International Date Line	

Chapter 3	The Earth	14
	A. The Earth - its Interior, Composition & Structure B. Theories of origin of continents & oceans - i. Wegener's Continental Drift Theory ii. Theory of Plate Tectonics	
Chapter 4	Rocks	10
	A. Rocks- Definition and origin B. Minerals and their properties C. Types - Igneous, Sedimentary and Metamorphic rocks D. Economic uses of rocks and minerals	
Chapter 5	Crustal Movements	10
	A. Crustal Movements – Definition, Causes B. Classification of crustal movements i. Slow movements - Folding and Faulting ii. Rapid movements - Volcanism and Earthquakes iii. Earthquake zones in India	
Chapter 6	Tools for studying the Earth	2
	A. Introduction and Uses of Global Navigational Satellite System (GNSS) B. Introduction to Remote Sensing and its applications C. Discussion on Fieldwork / Experiential learning / Self study	

### Reference Books:

- Bloom A.L., 2003: Geomorphology: A Systematic Analysis of Late Cenozoic Landforms, Prentice- Hall of India, New Delhi.
- Husain, M., 2001. Fundamentals of Physical Geography, Rawat Publication, Jaipur.
- Siddhartha, K., 2001. The Earth's Dynamic Surface, Kisalaya Publications Pvt. Ltd, NewDelhi.
- Christopherson, R.W.2000, Geo-systems, Prentice Hall, INC.USA.
- Haywood, Sarah Cornelius and Steve Carver, 1998. An Introduction to Geographical Introduction Systems.
- Hamblin,W.K.,1989. The Earth's Dynamic Systems, Macmillan Publishing Company, New York.
- Strahler A.A. and Strahler A.N., 2002. Physical Geography.
- Singh, S., 1998. Geomorphology, Prayag Pustak Bhavan, Allahabad.
- Rashid S.M., Remote Sensing in Geography, Manak Publication
- प्रा. दाते आणि सौ.दाते, प्राकृतिक भूगोल
- डॉ. श्रीकांत कार्लेकर, प्राकृतिक भूगोलाची मुलतत्वे.
- डॉ. श्रीकांत कार्लेकर, सदूरसंवेदन.
- डॉ. श्रीकांत कार्लेकर, भौगोलिक माहिती प्रणाली.

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**First Year of B.A. Geography**  
**(2019 Course)**

**Course Code: 19ArGeoU201**

**Course Name : Elements of Physical Geography-II (G – 2)**

**Teaching Scheme: TH: 4 Hours/Week**

**Credit: 3.5**

**Examination Scheme: CIA: 40 Marks**

**End-Semester: 60 Marks**

**Course Objectives:**

- 1. To introduce the students to the basic concepts in physical geography.
- 2. To orient the students to the applications physical geography.
- 3. To familiarise the students with different Geo-environmental problems.
- 4. To sensitize the students with urgent need of protection and conservation of different aspects of Earth and its environment.

**Course Outcomes:**

- Students will understand the basic concepts in physical geography.
- Students will understand the applications of physical geography.
- Students will familiarise with different Geo-environmental problems.
- Students will sensitize with urgent need of protection and conservation of different aspects of Earth and its environment.
- Students will familiarize with the different erosional & depositional features and intervention of mankind in the natural environment.
- Students will be able to understand various geographical phenomenon, their origin, distribution and effect on life. This study will help the students in general and society in particular to cope up with the natural calamities.

**Semester – II**

**Course Content:**

		Lectures
Chapter 1	Weathering	10
	A. Definition of Weathering B. Factors affecting weathering C. Types of Weathering - Mechanical, Chemical and Biological weathering	
Chapter 2	Mass Wasting/movement	8

	Concept , classification - processes, slow and rapid movements	
Chapter 3	Agents of Erosion and Deposition	10
	Landforms created by following agents i. Rivers ii. Sea – waves iii. Wind	
Chapter 4	Application of Physical geography	12
	A. Human Activities and Resource Planning – Landuse / Land cover B. Environmental Hazards & Assessment C. Landslides D. Tsunami i. Soils Degradation ii. Floods	
Chapter 5	Tools for studying the Earth	8
	A. Significance of Global Navigational Satellite System (GNSS) B. Field Visit for Observations and Identification of landforms, using earth observation tools (field visit not more than two days - study tour report is compulsory) C. Discussion on Fieldwork / Experiential learning / Self study	

#### Reference Books:

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