

Deccan Education Society's  
**FERGUSSON COLLEGE, PUNE**  
**(AUTONOMOUS)**

**SYLLABUS UNDER AUTONOMY**

**FIRST YEAR B.A. GEOGRAPHY**  
**SEMESTER – I**

**Academic Year 2016-2017**

**Deccan Education Society's  
FERGUSON COLLEGE, PUNE 411004  
Scheme of Course Structure (Faculty of Arts)**

**Department: GEOGRAPHY**

<b>Semester</b>	<b>Name of Paper</b>	<b>Title of Paper</b>	<b>No. of Credits</b>
F.Y. B.A. Sem I	Theory Paper - 1 (GEO1101)	Fundamental of Physical Geography (Geomorphology) - I	3
F.Y. B.A. Sem II	Theory Paper - 2 (GEO1201)	Fundamental of Physical Geography (Geomorphology) - II	3

**Semester I: Theory Paper-1**  
**GEO1101 - Fundamentals of Physical Geography (Geomorphology)**

**Section I (Semester I)**

<b>Unit No.</b>	<b>Unit</b>	<b>Sub-Unit</b>	<b>Number of periods</b>
1.	Introduction to Physical Geography	<ul style="list-style-type: none"> <li>a. Definition and meaning</li> <li>b. Nature and Scope of Physical Geography</li> <li>c. Importance of Physical Geography</li> <li>d. Branches of Physical Geography: Geomorphology, Climatology and Oceanography</li> </ul>	06
2.	The Earth	<ul style="list-style-type: none"> <li>a. The earth - its Interior, Composition &amp; Structure</li> <li>b. Theories of origin of continents &amp; oceans:               <ul style="list-style-type: none"> <li>i. Theory of Isostasy</li> <li>ii. Wegener's Continental Drift Theory</li> <li>iii. Theory of Plate Tectonics</li> <li>iv. Theory of Sea Floor Spreading</li> <li>iv. Holme's Convection Current Theory</li> </ul> </li> </ul>	12
3.	Rocks	<ul style="list-style-type: none"> <li>a. Rocks- Definition and origin.</li> <li>b. Type of Rocks and their properties - Igneous, Sedimentary and Metamorphic rocks</li> <li>c. Economic uses of rocks</li> </ul>	07
4.	Crustal Movements - 1	<ul style="list-style-type: none"> <li>a. Endogenetic and exogenetic forces and movements (Vertical and Horizontal) - Definition, Causes</li> <li>b. Classification of Movements: Slow and rapid               <ul style="list-style-type: none"> <li>i. Diastrophic (Slow) movements -</li> <li>ii. Folding and Faulting, Types of folds and faults</li> </ul> </li> </ul>	10
5.	Crustal Movements - 2	<ul style="list-style-type: none"> <li>i. Rapid movements - Volcanism and</li> <li>ii. Earthquakes. Major landforms due to volcanism. Types of volcano, Global Distribution of volcanoes, Intensity and scales of earthquakes, Earthquake waves</li> <li>iii. Earthquake zones of India.</li> </ul>	10

Deccan Education Society's  
**FERGUSSON COLLEGE, PUNE**  
**(AUTONOMOUS)**

**SYLLABUS UNDER AUTONOMY**

**FIRST YEAR B.A. GEOGRAPHY**  
**SEMESTER – II**

**Academic Year 2016-2017**

**Semester II: Theory Paper-2**  
**GEO1201 - Fundamentals of Physical Geography (Geomorphology) - II**

**Section II (Semester II)**

<b>Unit No.</b>	<b>Unit</b>	<b>Sub-Unit</b>	<b>Number of periods</b>
6	Weathering and Mass wasting	a. Definition of Weathering & Mass wasting b. Types of Weathering- Mechanical, Chemical, Biological and Anthropogenic weathering c. Classification of mass movements: Slide, Fall, Flow d. Types - Soil Creep, Landslide, Debris flow, Avalanche, Mud Flow	10
7.	Agents of Erosion and Deposition	Processes and Landforms by following agents: a. Rivers. b. Sea-waves. c. Glaciers.	08
8.	Hill Slopes	a. Meaning & Definition of slope b. Types of slopes and slope segments. Concave, Convex , Terraced, Rectilinear, Free face and Basal concavity c. Uses and importance of slope studies	06
9.	Applications of Physical Geography - 1	a. Human Activity: i. Human Settlements (Urban & rural) ii. Transportation iii. Landuse iv. Mining v. Natural Resource Evaluation	05
10.	Applications of Physical Geography-2	a. Environmental Hazards & Assessment: i. Ground water and drought ii. Tsunami iii. Floods b. Concept of Watershed Management: c. Concept of Conservation of landforms d. Field Visit (One day) for observations and identification of landforms.	04 02 02 08

**Reference Books:**

1. Physical Geography: Science and Systems of the Human Environment, Alan H. Strahler, Wiley & Son, 3rd Edition, 2005.
2. Introducing Physical Geography: Alan H. Strahler, Wiley Intl., 6th Edition, 2013.
3. Fundamental of Physical Geography: Majid Husain. Rawat Publications, Jaipur. (4<sup>th</sup> ed.); 2009.
4. Physical Geography: Savindra Singh. Pravalika Publications, Allahabad. Paperback edition 2013.

5. The Earths Dynamic Surface: Siddhartha K. Kosalaya Publication Pvt Ltd New Delhi; 2015.
6. Introduction to Geomorphology: Kale V. & Gupta A., Oxford University Press, Kolkata; 2001.
7. Geomorphology : Savindra Singh. Prayag Pustak Bhawan, Allahabad, 2006.
8. Geomorphology: A Systematic Analysis of Late Cenozoic Landforms. Arthur L. Bloom. Waveland Press. 2004.
9. The Oxford Companion to the Earth: Ed. Paul Hancock & Brian Skinner. Oxford University Press. 2000.
10. Prakrukik Bhugol ani bhurupashastra (Marathi): Shrikant Karlekar, Diamond Publ. Pune, 2014.