SAVITRIBAI PHULE PUNE UNIVERSITY
Geography T.Y.B.Sc. (Credit System)
Revised Syllabus (From June-2021)
Semester VI

Course No: GG 369: Soil and Sediment Analysis
(Practical Paper-3)

No. of Credits: 02 **No. of hours: 30**

Objectives:

1. To introduce students with soil and sediment analysis in geography.
2. To apply soil and sediment analysis techniques to understand geographical phenomena.
3. To make use of soil and sediment analysis to arrive at conclusions.
4. To acquaint students with the importance of soil and sediment analysis in geography as the scientific method.

Each Practical batch will be comprised of 12 students

Unit No.	Unit	Sub-Unit	No. of Hrs.
1	Concept of soil sampling	Various methods of soil sampling and at least one field sampling by using soil augur or core tubes	05
2	Study of physical properties of soils	Laboratory determination of i) Soil texture ii) Soil Moisture iii) Bulk density and Specific gravity iv) Percentage porosity	10
3	Study of chemical properties of soils	Laboratory determination of i) Soil pH ii) Soluble salts by gravimetric method iii) Soil EC iv) $CaCO_3$ v) Organic carbon vi) Organic matter vii) N,P,K viii) $Fe_2 O_3$ ix) $Al_2 O_3$ x) SiO_2	15

Note:

1. Use of map stencils, log tables, statistical tables and calculators are allowed at the time of examination.
2. Completion of journal and certification by Practical-in-charge and Head of the Department is must.
3. Candidate without certified journal should not be allowed for the practical examination.

Reference Books:

1. Briggs, 1979, Soils
2. King 1994, Techniques in geomorphology
3. Miller Austin, 1979, Skin of the earth
4. Piper, 1975, Soil chemical analysis
5. Wilkinson and Monkhouse 1975, Maps & Diagrams.