

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



**B.A. and B.A. B.Ed (Integrated ) Part- II  
Geography**

**NATIONAL EDUCATION POLICY (NEP-2020)**

**SYLLABUS WITH EFFECT FROM JULY 2023**

**NEW/REVISED SYLLABUS FOR**  
**B. A.Part-II / B. A. B. Ed.**  
**(Introduced from June, 2023 onwards)**  
**DSC – D 19 (Course / Paper No. III)**  
**Geography (Soil Geography)**  
**Semester -III**

<b>Module</b>	<b>Teaching</b>	
<b>HoursCredits</b>		
<b>Module I: Basics of Soil Geography</b>	10	0.75
1.1 Definition, Nature and Scope of Soil Geography		
1.2History of Soil Geography and Pedology		
1.3 Significance of Soil Geography		
<b>Module II: Soils: Formation and Properties</b>	16	01
2.1 Jenny’s Factorial Model of Soil Formation: Parent Material, Biotic, Climatic, Relief and Time factor.		
2.2 Process of Soil Formation: Physical, Biotic and Chemical.		
2.3 Physical Properties of Soils: Morphology, Texture, Structure, Water, Air and Temperature.		
2.4Chemical Properties of Soils: pH, Organic Matter, NPK (Nitrogen, Phosphorous and Potassium).		
<b>Module III: Soils: Classifications and Distribution</b>	16	01
3.1 Genetic Classification of Soils		
3.2 Soil Characteristics and Major Soils Distribution in Maharashtra		
3.3 Soil Degradation: Concept, Causes, Consequences and Measures		
<b>Module IV: Soil Analysis</b>	12	01
4.1 Soil Profile		
4.2 Soil Sample: Tools		
4.3 Soil Analysis: Saline and Alkaline		
4.4 Vermicomposting Process		
<b>Module V: Practical</b>	06	0.25
5.1 Draw Soil Profile of local area		
5.2 Calculate soil properties with soil meter: pH, light, moisture		
5.3 Calculate NPK soil properties of local area.		

## 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. Chairas, D. D., Reganold, J. P., and Owen, O. S., (2002): National Resource Conservation and Management for a Sustainable Feture, 8th edition, Prentice Hall, Englewood Cliffs.
5. Clarke G.R.(1957) Study of the Soil in the Field, Oxford University Press, Oxford.
6. Daji, J. A., (1970): A Text Book of Soil Science, Asia Publishing House, Londaon.
7. Foth H.D. and Turk, L.M.(9172) Fundamentals of Soil science, John Wiley, New York. 8. GovindaRajan, S.V. and Gopala Rao, H.G.(9178) Studies on Soils of India Vikas, New Delhi.
9. MathurNeeru, (2012): Soils, Rajat Publications, New Delhi-02 (India).
10. Mc. Bride, M.B.(1999)Environmental Chemistry of Soils, Oxford University Press, New York. 11. Morgan, R. P. C., (1995): Soil Erosion and Conservation, 2nd edition, Longman, London.
12. Nye, P.H. and Greene, D.J.(1960)The Soil under Shifting Cultivation Commonwealth Bureau of Soil Science, Technical Communication, No. 51; Harpender, England.
13. Plaster, E. J., (2009): Soil Science and Management, Cengage Learning, Boston.
14. Raychoudhuri, S.P., (1958): Soils of India, ICAR, New Delhi.
15. Russell, Sir Edward J.:(1961) Soil Conditions and Plant Growth, Wiley, New York.
16. Sarkar, D., (2003): Fundamentals and Applications of Pedology, Kalyani Publishers, New Delhi.
17. Sehgal, J., (1996): Pedology: Concepts and Applications, Kalyani Publishers, New Delhi.