

Savitribai Phule Pune University, Pune

MA/MSc - II Syllabus in Geography (Credit System)

Revised Syllabus (from June, 2020)

Course: GGDP-257 Interpretation of Topographical Maps and GPS Survey

No. of Credits: 02

No. of Periods: 30

Topic No.	Topic	Sub topics	Practical (3 hours)
1	Study of Topographical Maps	i. Indexing systems and conventional signs and symbols of S.O.I. toposheets ii. Grid references: 4-figure grid, 6-figure grid and International grid reference iii. Introduction to US and OS sheets	02
2	Interpretation of S.O.I toposheets.	i. Relief: Distribution of Spot heights, bench marks, Trigonometrical Points etc., Types of Slopes (convex, concave, uniform etc.) and Major landforms from contour patterns ii. Drainage network: Types-trellis, dendritic, radial, etc., Streams with water, without water and Influence of relief on drainage iii. Natural Vegetation: Types of vegetation, Association of relief and drainage, Reserved Forest and Protected Forest iv. Land Use: Agriculture, mining etc, areal distribution and impact of Physical landscape. v. Settlements: Types settlements, amenities, etc, Distribution, relative size, relative distance (dispersed, nucleated etc) vi. Transport and Communication: Types of roads, railway lines, facilities of communication (3 sheets of S.O.I. toposheets)	04

3	GPS Survey of Village	i. Introduction of GPS : Space segment, Control segment and user segment ii. GPS Survey (GPS Reading and Area Measurement): One day field visit and excursion report	04
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Reference Books

1. Archer J. E and Dalton T. H. (1968), Field work in Geography B.T. Batsford Limited London
2. Dury G.H. (1960): Map Interpretation. Sir Isaac Pitman and Sons Limited, Pitman House, Bath.
3. Gupta, K. K. and Tyagi, V. C. (1992): Working with maps, Survey of India Publication, Dehradun.
4. Jones P. A. (1968): Field work in Geography. Longmans, Green and Company Limited.
5. Meux A. H. (1960): Reading Topographical Maps. University of London Press Limited.
6. Petrie N. (1992): Analysis and Interpretation of Topographical Maps. Orient Longman Limited Calcutta.
7. Ramamurthy, K. (1982): Map interpretation, Madras.
8. Tamaskar B.G. and Deshmukh V.M. (1974): Geographical Interpretation of Indian Topographical Maps. Orient Longman Limited, Bombay.
9. Vaidyanadhan. R. (1968): Index to a set of 60 topographical maps, CSIR, New Delhi.
10. Wheeler K.S. Ed (1970): Geography in the field. Blond Educational, London.