<u>Semester I</u>

105: Tools and Techniques in Geoinformatics

Unit 1: Basics of Remote Sensing	20 Lectures
1.1 Interpretation of remotely sensed data- satellite imagery and aerial photograph1.2 Calculation of scale, height, distance in aerial photographs1.3 Downloading and using satellite data from free platforms1.4 Use of BHUVAN website	s
Unit 2: Projections and Scale	20 Lectures
2.1 Construction of projections- all types	
2.2 Advantages, disadvantages and uses of projections	
2.3 Concept of scale, types, conversion, drawing scale from maps	
2.4 Map layout components	
Unit 3: Understanding the World through Maps and Pictures	20 Lectures
3.1 Cartographic techniques of mapping- choropleth, isopleth, dot	
3.2 Interpretation of various maps- NATMO, thematic, weather	
3.3 Construction of maps- mental maps, pace surveys	

3.4 Construction of pictures- diagrams, sketches, cartoons

References

- 1. Anson, R. W. and Ormeling, F. J., (Ed.) (1993): Basic Cartography for Students and Technicians, Vol.I, International Cartographic Association and Elseiver Applied Science Publishers, London.
- 2. Monkhouse F.J.- Maps & Diagrams, Methuen and Co., London, 1971 (3rd Edition, Revised)
- 3. Misra R. P. and A. Ramesh, (1969): Fundamentals of Cartography, Prasaranga, University of Mysore
- 4. Sarkar Ashis Practical Geography, Orient Black Swan 2015
- 5. Robinson, A. H. and Others (1995): Elements of Cartography, VI Edition, John Wiley & Sons, New York.