



# CLUSTER UNIVERSITY SRINAGAR

SYLLABUS (FYUP UNDER NEP 2020)

**Offered By Department Of GEOGRAPHY**

**Semester 1<sup>st</sup> Skill Enhancement Course (SEC)**

## ***Course Title: Cartography and Surveying – I***

**Course Code: UGGEO22S101**

**Credits: 4 (Theory: 1, Practical: 3)**

**Contact Hrs: 105 (Theory 15, Practical 90)**

**Max. Marks 100**

**Theory External: 15; Min Marks: 06**

**Theory Internal (Continuous Assessment): 10 Marks, Min Marks: 04**

**Practical Experimental Basis= 45 Marks, Min. Marks: 18**

**Practical Internal (Continuous Assessment): 30 Marks, Min. Marks: 12**

### **Course Objectives:**

- Understand the basic concepts about maps.
- Study population attributes and its dynamic nature and how to show them on maps.

### **Course Outcome:**

- The main purpose of geography is to show different physical or cultural phenomena on maps for enlightening various aspects of spatial organization and areal differentiation.
- Main outcome of the course lies in the fact that it gives clear idea regarding different types of maps and different map making processes, and their utility in various fields of human interest.

### **THEORY:**

#### **UNIT – I**

1. Maps — Definition and Essentials.
2. Classification & Uses of maps.
3. Scale Enlargement and Reduction of Maps
4. Graphical method (Square Method)

### **PRACTICALS:**

#### **UNIT -II**

1. Scale: Definition and ways of expressing the Scale
2. Construction of Plain Scale (3 exercises)
3. Construction of comparative Scale (3 exercises)
4. Construction of diagonal Scale (3 exercises)

#### **UNIT – III**

1. Concept of relief and Topography
2. Contours: Definition and Importance
3. Relief representation: Representation of different types of land forms (U shaped valley, V shaped valley, conical hill, plateau and ridge)
4. Drawing of Profiles: Serial, Superimposed, Longitudinal and Composite

#### **UNIT – IV**

1. Topographical Maps –Introduction and Development of Topographical Maps in India
2. Nomenclature and numbering of Topographical sheets
3. Interpretation of Topographical Maps
4. Study of Selected Topographical Maps (Physiography, Drainage, Natural Vegetation, Settlements, Transport and Communication) – 3 exercises

### **Suggested Readings**

1. Robinson, A.H et al., *Elements of Cartography*, John Wiley & Sons, U.S.A., 1995.
2. Sarkar, A.K., *Practical Geography: A Systematic Approach*, Oriental Longman, Calcutta, 1997.
3. Singh, R.L and Dutt, P.K., *Elements of Practical Geography*, Kalyani Publishers New Delhi, 1979.
4. Gopal Singh, *Map World and Practical Geography*, Vikas Publishing House, 2000.
5. Khullar, D.R., *Essentials of Practical Geography*, New Academic Publishing Co., Jalandhar, 2013.