# S.Y.B.A. Geography (S2), Syllabus for Semester IV Name of the Subject: Cartographic Techniques, Surveying and Excursion / Village / Project Report subject Code: Gg. 201 (B)

# Practical Geography-II No. of Credits: 04

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**Workload:** Six Periods per week per batch consisting of 12 Students; however the last batch needs to have more than six students.

(Examination for the course will be conducted at the end of the semester)

## **Objectives of Course:**

- 1. To introduce the students to the basic and contemporary concepts in Cartography.
- 2. To acquaint the students with the utility and applications of various Cartographic Techniques.
- 3. To introduce the latest concepts regarding the modern cartography in the field of Geography.
- 4. To explain the elementary and essential principles of practical work in Geography.

#### **Course Outcome:**

After the successful completion of the course, the students will be able to:

- 1. Develop practical knowledge and application of cartographical techniques.
- 2. To make students aware of the new techniques, accuracy and skills of Map Making.

#### Note:

- 1. Use of Map stencils, Log tables, Calculators, Statistical Tables is allowed at the time of Examination.
- 2. Journal completion by the students and the certified by practical in-charge and Head of the Department is compulsory.
- 3. Students without a certified journal should not be allowed for the practical examination.
- 4. Each of the practical batches needs a separate question paper.

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CBSE: 2020-21		S.Y.B.A.	Geography	
Sr. No.	Topic	Sub Topic & Learning Point	No of Practical	Credits
1.	Introduction to Cartography	<ol> <li>Definition of Cartography</li> <li>Development of cartography         <ul> <li>a. Traditional</li> <li>b. Modern</li> </ul> </li> <li>Use of Cartography</li> </ol>	02	
2.	Cartographic techniques	<ol> <li>Techniques of representation of data         (Use and limitations)         <ol> <li>Simple line graph</li> <li>Simple bar Graph</li> <li>Pie diagram</li> <li>Choropleth Map</li> <li>Isopleth Method (Isoheight or Isothermal)</li> <li>Flow diagram</li> </ol> </li> <li>(At least 01 example of each manually and using computer)</li> </ol>	06	
3.	Surveying	<ol> <li>Definition of Surveying</li> <li>Types of North Direction (True, Magnetic and Grid North)</li> <li>Types of Survey (Any three)         <ol> <li>Plane Table Survey: (Radiation Method and Intersection Method)</li> <li>GPS Survey and plotting</li> <li>Dumpy level / Auto level survey                 <ol></ol></li></ol></li></ol>	08	04
4.	Excursion / village/city survey and report writing	Study tour to places of geographical interest anywhere in the country  Or  Socio- economic survey of village/city	04	

### **Reference Books:**

- 1. Sharma J. P., 2010, Prayogic Bhugol, Rastogi Publishers, Meerut.
- 2. Singh R. L. and Singh R. P. B., 1999, Elements of Practical Geography, Kalyani Publishers.
- 3. Slocum T. A., Mcmaster R. B. and Kessler F. C., 2008, Thematic Cartography and Geovisualization (3rd Edition), Prentice Hall.
- 4. Tyner J. A., 2010, Principles of Map Design, The Guilford Press.
- 5. Sarkar A., 2015, Practical Geography: A Systematic Approach, Orient Black Swan Private Ltd., New Delhi
- 6. Singh R. L. and Duttta P. K., 2012, Prayogatama Bhugol, Central Book Depot, Allahabad
- 7. Ahirrao Y., Karanjkhele E. K., 2002, Practical Geography, Sudarshan Publication, Nashik
- 8. Saptarshi P. G., Jog S. R., Statistical Methods,
- 9. Karlekar S. N., 2008, Statistical Methods, Diamond Publication, Pune
- 10. Kanetkar T. P., Kulkarni S. V., 1986, Surveying and Leveling, Pune Vidyrthi Griha Publication, Pune
- 11. Kumbhare A., Practical Geography,
- 12. Saha P., Basu P., 2007, Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata
- 13. Advanced Practical Geography: 2007, Saha P., Basu P., Books and Allied (P) Ltd, Kolkata