**DEPARTMENT OF GEOGRAPHY**

**LESSON PLAN (2022-23)**

**Name of Faculty: Prem Prakash**

**Course:** BA (Programme)

**Semester:** III

**Subject:** General Cartography

**Taught Individually or Shared:** Shared with Dr. Rachna Dua

**Number of Classes per week:** 2+1

**Course Objectives:**

1. Create professional and aesthetically pleasing maps through thoughtful application of cartographic conventions;

2. Develop an understanding of the concepts regarding scale, map projections to suit map purposes; 3. Better understand the techniques of interpretation of topographical and weather maps

**Learning Outcome:**

This is a practical, hands-on course; when you have completed it, you will be able to:

1. Explain how maps work, conceptually and technically and will be able to understand science and art of cartography

2. Recognize the benefits and limitations of some common map projections and their use.

3. Understand and perform interpretation of topographical maps and weather maps.

**Unit 3: Name of the Unit-**.Profiles -Introduction to Cross and Longitudinal Profiles.

**Topics to be covered: (26/08/2022 to 18/10/2022**

Week 1: Introduction about toposheet and how it is used

Week 2: How toposheet is read?

Week 3: Various elements of the toposheet:

Week 4: How to identify features on toposheet

Week 5: Introduction about slope determination

Week 6: Introduction about profiles:

Week 7: Detailed analysis of cross profile

Week 8: Detailed analysis of longitudinal profile

**Number of classes required:** 15-16 Classes

**Methodology**: Use of ICT Methods-Point presentations for Teaching for graphical representations and detailed discussion.

**Readings prescribed:**

1. Misra, R.P. (2014). Fundamentals of Cartography (Second Revised and Enlarged Edition). New Delhi. India: Concept Publishing.
2. Monkhouse, F. J. and Wilkinson, H. R. (1973). Maps and Diagrams. London, India: Methuen
3. Rhind, D. W. and Taylor D. R. F. (eds.) (1989). Cartography: Past, Present and Future. U.S.A.: Elsevier, International Cartographic Association.
4. Sarkar, A. (2015). Practical geography: A systematic approach. New Delhi, India: Orient Black Swan Private Ltd

**Unit 4:** **Name of the Unit:** Topographical Maps- Interpretation**.** Slope analysis using Wentworth’s Method

**Topics to be covered: 31/10/2022 to 19/12/2022**

**Week 09:** Introduction about toposheet interpretation

**Week 10:** Elements involved in toposheet interpretation

**Week 11:** How to write interpretation

**Week 12:** Introduction about Wentworth method:

**Week 13-16:** Calculation or Wentworth method of slope determination:

**Number of classes required**: 10-12 classes.

**Methodology and resource used**: Use of ICT Methods for Teaching (Power Point presentations) and Digital White Boards for graphical representations and detailed discussions and exercise.

**Readings prescribed:**

1. Singh, R.L. &Dutta, P.K. (2012). Prayogatmak Bhugol (Hindi), Central Book Depot, Allahabad
2. Singh, Gopal. (1998). Map Work and Practical Geography (4th Edition). Ahmedabad, India: Vikas Publishing House.
3. Rhind, D. W. and Taylor D. R. F. (eds.) (1989). Cartography: Past, Present and Future. U.S.A.: Elsevier, International Cartographic Association.
4. Sarkar, A. (2015). Practical geography: A systematic approach. New Delhi, India: Orient Black Swan Private Ltd

**Criteria of Assessment:**

1. Class tests – 10 marks; two tests (Best will be used for IA)
2. Assignment – 10 marks

**Tentative Dates of Assessment:**

* Assignment- To be submitted in last week of October, 2022
* Tentative Class test – First Week of October,2022
* Final test- Last Week of November,2022

**Additional Readings:**

1. T. Fraser (2013). Cartography Past, Present and Future (English), Elsevier Science, E-book.
2. Robinson, H. A, Morrison J. L and Guptil, C. S, (1995), Elements of Cartography, Wiley (UK)
3. Bagrow, L. (2017), History of Cartography, E-book.
4. Kraak, J. M, (2020), Cartography-Visualization of Geospatial Data, Fourth Edition, CRC Press, E-book.
5. Konecny, M. (2014), Thematic Cartography for the Society, Springer, E-book.