

SEMESTER-IV

GEOG. 608:

ADVANCED CARTOGRAPHY

3(2-1)

Course Objectives

This course is designed to equip students with the understanding of nature and scope of cartography and the process of map making. Moreover, to acquaint the students with the use of new technology in map making and its applications.

Learning Outcomes

On completion of this course, students will be able to apply new techniques in the process of map making.

Course Outline

1. Introduction

- Nature, Scope
- Significance

2. Statistical Diagrams

- One Dimensional Diagrams: Simple and Compound Bar Diagrams
- Two Dimensional Diagrams: Simple and Divided Rectangles, Proportional Square, Divided and Proportional Circles. Ring Diagram
- Three Dimensional Diagrams: Proportional Spheres and Cubes.

3. Some Special Diagrams

- Wind Rose
- Climo-graph and
- Star Diagram.

4. Quantitative Maps

- Choro-pleth Maps
- Mapping statistical surfaces
- Thematic map

Lab. Work

1. Choro-pleth: dot map, isoclines, and area cartograms, Population density maps
2. Construction of Isopleth Maps: Isothermal and Isobaric Maps.
3. Construction of Population Distribution Maps By Dot Method
5. Diagrammatic Maps: Construction of Flow line maps and Population Pyramids.
6. Computer Cartography and Construction of digital maps.

Recommended Books

1. Longley, A. (2005) "Geographical Information System and Science", Wiley & Sons, N.York.
2. Singh R.L. (2004) "Elements of Practical Cartography", Kalyani Pub! Delhi, India.
3. Lawrence (2003) "Cartographic Methods", Methunen UK.
4. Khan J.A. (2002) "Map Projections", Rahber Publisher, Karachi.
5. Dorling, (1997) "Ways of Representing the World", Longman London.
6. Boyce, J. et. al (1984) "Field Work in Geography", Longman, UK.