

Lesson plan 2023-24  
Cartographic Techniques 1

Name of the Assistant Professor: Dr. Sharmila Badhwar

Class: B.A 1<sup>st</sup> Year, 1<sup>st</sup> Semester

**July/August** : Definition, Nature and Scope of Cartography:  
Scale, Statement of Scale.

**September/October:** Types of scales.

**November** : Methods of showing Relief and Height: Hachures,  
Contours, Form lines, Trigonometrically Stations, Spot Heights,  
Bench Mark.



## Lesson plan 2023-24

### INTRODUCTION TO GEOGRAPHY 101

Name of the Assistant Professor: Dr. Sharmila Badhwar

Class: B.A 1<sup>st</sup> (Hons) Year, 1<sup>st</sup> Semester

**July/August :** Nature of Geography; core Geographic concepts: location, direction, patterns and distance; physical and cultural attributes; the pattern concepts and process concepts; geography and society.

**September:** Developments of geography during ancient period; contributions of Greeks and Romans: Herodotus, Eratosthenes, Strabo, Ptolemy; developments of geography in India during Vedic period; contributions of Arab scholars: Ibn Batuta, Ibn Khaldun, Al Baruni.

**October:** Age of exploration and discoveries: contribution to expansion of geographic horizons; revival of geography as scientific discipline: contributions of Kant and Varenius.

**November :** Dualisms in geography: systematic and regional geography; physical and human geography;" study of the following viewpoints: areal differentiation, landscape school, locational school, spatial organization.

**Lesson plan 2023-24**  
**GEOGRAPHY OF INDIA 101**

Name of the Assistant Professor: Dr. Sharmila Badhwar

Class: B.A 1<sup>st</sup> Year, 1<sup>st</sup> Semester

**July/August :** Physio graphic regions of India. Climate of India, Factors influencing climate of India. Monsoon. Soils Type of India, Major Soil groups their distribution and need for conservation

**September:** Distribution of Metallic and non-metallic minerals: won and Mica & bauxite in India. Power and Energy Resources, Coal, Hydro and Petroleum. Non conventional resources.

**October:** Indian agriculture and Green revolution, Production and Distribution of Wheat, Sugarcane, Rice & Tea Industries: Cotton Textile, Iron and Steel, Sugar, Industrial regions in India Modes of Transport and Communication.

**November :** Maps related to India Political: States State Capitals, Union territories, Physical: Mountain Ranges. Mountains peaks, Passes, Rivers, Soils, Climate Cultural: Roadway, Railways, Waterways, Air ways Population: Density of population, Sex composition.

## Lesson Plan 2023-24

### *Physical Geography*

Name of the Assistant Professor : Dr. Sharmila Badhwar

Class : B.A 1<sup>st</sup> (Hons) Year - *1<sup>st</sup> Sem.*

**July/August** - Nature and scope of physical geography

**September** - Origin of Earth; Binary star hypothesis of Russel, hypothesis of Otto Schimidt, Gaseous hypothesis of Kant, Nebular hypothesis of laplasce

**October** - Dstribution of land and water, shape and size of the earth, latitude longitude, movements -rotation and revolution

**November** - origin of continent Ocean basins sliding  
Continental theory of Daly, continental drift theory of Wegner,  
Definition and Classification of rocks ;igneous, sedimentary,  
Metamorphic and their benefits

Earth movement; origenic, apeirogenic, weathering and erosion

**December** - composition and structure of atmosphere, insolation and temperature; vertical and horizontal distribution, air pressure, wind ;planetary periodical and local. Revision and tests.

**Lesson plan 2023-24**  
**General cartography**

Name of the Assistant Professor: Dr. Sharmila Badhwar

Class: B.A 1<sup>st</sup> (Hons) Year — I<sup>st</sup> Semester

**September** : Basic concept of cartography, meaning, nature, subject matter of cartography, maps - Elements and classification of maps

**October** : map scales

- (1) methods of expressing of scale
- (2) conversion of statement of scale into R.F. and R.F. into statement of scale
- (3) plain scale( kilometre and Mile)
- (4) comparative scale (5) diagonal scale

**November** : measurement of distances and areas on maps, enlargement and reduction of maps, latitude and longitude, Global time, Indian standard time, world time zones, International Date line

Lesson plan 2023-24

General cartography

*Environment & Ecology 201*

Name of the Assistant Professor: Dr. Sharmila Badhwar

Class: B.A 1<sup>st</sup> (Hons) Year, 2<sup>nd</sup> Semester

Environmental Geography (lesson plan 2023)

**January:** Environment geography Nature and scope

Environment and its major component

**February:** Man environment relationship

Ecology ; definition and concept

**March:** Ecosystem; definition and concept

Biomes ; major types of biomes and their distribution and characteristics

Environment pollution; its types, climate change, global warming Ozone depletion,

**April :** Environment conservation; role of international national and local policies in environment conservation,

Role of UNO, Rio-de-Janerio Summit, Kyoto Protocol in Environment Conservation

## Lesson plan 2023-24

### Subject : Geography of Haryana

Name of the Assistant Professor: Dr. Sharmila Badhwar

Class: B.A 1<sup>st</sup> (~~Hons~~) Year - 2<sup>nd</sup> sem

**January:** Physiographic division of Haryana, climate of Haryana, drainage pattern of Haryana.

**February:** irrigation facilities in Haryana, soil of Haryana : problem of soil in Haryana

**March:** natural vegetation and conservation of vegetation, major minerals found in Haryana, green revolution at major agriculture problem in Haryana, major crops of Haryana and their distribution, major industries in Haryana,

**April:** population and its composition, migration, urbanization and transportation in Haryana, Revision and Tests, Objective Question Answer

Lesson plan 2023-24

Fundamentals of Human Geography 202

Name of the Assistant Professor: Dr. Sharmila Badhwar

Class: B.A 1<sup>st</sup> (Hons) Year, 2<sup>nd</sup> Semester

**January:** Nature and scope of Human Geography; branches of Human Geography; man- environment relationship; determinism and Possibilism.

**February:** Evolution of man; classification and characteristics of races; human adaptation to environment: Eskimo, Bushman, Pygmy, Naga, Bhil,

**March:** Classification of economic activity: primary, secondary and tertiary, Models in Geography: Von-Thunen's model of agricultural location and Edward Ullman's model of spatial interaction

**April:** Human settlements: Types and pattern of settlements with reference to India; Christaller's central place theory.

Revision and Tests.

## Lesson plan 2023-24

### Cartographic Techniques

Name of the Assistant Professor: Dr. Sharmila Badhwar

Class: B.A 1<sup>st</sup> (Hons) Year, 2<sup>nd</sup> Semester

**January:** Intervisibility: determination methods;  
Interpolation of Contours.

**February:** Profiles: types of profiles, drawing of profiles and cross sections; representation of relief- methods.

**March:** Representation of different landforms with the help of profiles and cross sections; area: height diagrams, hypsometric curve and altimetric frequency histogram.

**April:** Practical Checking by Teacher.

**Lesson plan 2023-24**

**Population Geography 402**

Name of the Assistant Professor: Dr. Sharmila Badhwar

Class: B.A 1<sup>st</sup> (Hons) Year, 4<sup>th</sup> Semester

**January:** Nature and scope of Population Geography; sources and types of population data: census, sample surveys and vital registration system.

**February:** World population: growth, causes and consequences; factors affecting population distribution; Migration: types and determinants.

**March:** Population characteristics: fertility and mortality, age and sex structure, occupational structure.

**April:** Population Theories: Malthus and Marx; demographic transition theory; problems of population growth in India; population policy in India.