



SMRJ Government College, Siwani (Bhiwani)

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

Session: 2025-26

Lesson Plan

(Department of Geography)

Teacher: Sh. Suresh Lamba

Class: MSc. Final

Semester: 3rd

Maximum Marks: 100

End Term Exam Marks: 80

Course Type & Title: Oceanography

Course Code: 19 GEO 301

Credits: 04

Internal Assessment Marks: 20

Course Outcomes:

The course aims to introduce students to the many facets of Oceans, such as, evolution of the oceans, physical and chemical properties of sea water, atmospheric and oceanographic circulation, the fascinating world of marine life and the characteristic of marine environment and the impact of man on the marine environment.

| Sr. No. | Week/Month, 2025 | Unit/ Topic/ Chapter to be covered | Assignment/ Test/ Remarks, if any |
|---------|-------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------|
| 1 | 01.08.2025 – 02.08.2025 | Familiar with Syllabus | |
| 2 | 04.08.2025 – 09.08.2025 | Definition, Nature and Scope of Oceanography; | |
| 3 | 11.08.2025 – 16.08.2025 | Distribution of Land and Water; | |
| 4 | 18.08.2025 – 23.08.2025 | Thermohaline Circulation and its association with the global climate, | |
| 5 | 25.08.2025 – 30.08.2025 | Origin of Ocean Basins. | |
| 6 | 01.09.2025 – 06.09.2025 | Features of Ocean Basins; Continental Margins and Deep Oceanic Basins; | |
| 7 | 08.09.2025 – 13.09.2025 | Oceanic Floor Profile: Continental shelf, Slope, Ridge and Deeps, Abyssal Plains; Submarine Canyons; | |
| 8 | 15.09.2025 – 20.09.2025 | Coral reefs: Types, Origin and Distribution; | Assignment |
| 9 | 22.09.2025 – 27.09.2025 | Configuration of Ocean Floor of Indian, Atlantic and Pacific Ocean. | |
| 10 | 29.09.2025 – 04.10.2025 | Ocean Currents: origin, types and dynamics; Currents of Pacific Ocean, | |
| 11 | 06.10.2025 – 11.10.2025 | Currents of Atlantic, and Indian ocean; Impact of ocean currents; | |
| 12 | 13.10.2025 – 18.10.2025 | Climate change and ocean circulation, | |

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| 13 | 27.10.2025 – 01.11.2025 | Physiochemical properties of sea water: Temperature, Density, Salinity and Dissolved Gases; | |
| 14 | 03.11.2025 – 08.11.2025 | Ocean movement: Waves, Tides; (Theory of Tides)and currents. | Test |
| 15 | 10.11.2025 – 15.11.2025 | Life in the Ocean: Bio zones; Types of Organism- Plankton, Nekton and Benthos; | |
| 16 | 17.11.2025 – 22.11.2025 | Ocean and livelihood; Oceans as Source of Food, Mineral and Energy Sources; | |
| 17 | 24.11.2025 – 29.11.2025 | Oceans Deposits; Sea Level Change: Evidences and Impacts; Sustainable marine environment. | |

Recommended Books/ E resources/ LMS

- 1. Davis, Richard J. A. (1986) Oceanography – An Introduction to the Marine Environment. Wm. C. Brown, Iowa.**
- 2. Denny, M. (2008) How the Ocean Works: An Introduction to Oceanography. Princeton University Press, New Jersey.**
- 3. Duxbury, C. A. and Duxbury, B. (1996) An Introduction to the world's Oceans. 2nd Edition, C. Brown, Iowa.**
- 4. Garrison, T. (1995) Essentials of Oceanography. Wards worth Pub. Co., London.**
- 5. Garrison, T. (2001) Oceanography-An Introduction to Marine Science. Books/Cole, Pacific Grove, USA.**
- 6. Gross, M. G. (1987) Oceanography: A View of the Earth. Prantice - Hall Inc. New Jersey.**

Signature of the teacher concerned

Head of the Department



SMRJ Government College, Siwani (Bhiwani)

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Session: 2025-26

Lesson Plan

(Department of Geography)

Teacher: Sh. Suresh Lamba
Class: B.A. & B.A. with Major in Geography
Semester: 3rd
Maximum Marks: 100
End Term Exam Marks: 50 (T) + 20 (P) = 70

Course Type & Title: Geography of India
Course Code: 25UN-GEO-301
Credits: 03 + 01 = 04
Internal Assessment Marks: 20 (T) + 10 (P) = 30

Course Outcomes:

Through this course following outcomes will be: -

1. provide knowledge about the physiography of our nation.
2. understand the agriculture and irrigation system.
3. understand the basic demographic structure and literacy.
4. provide awareness about the resources and industries of our nation.

| Sr. No. | Week/Month, 2025 | Unit/ Topic/ Chapter to be covered | Assignment/ Test/ Remarks, if any |
|---------|-------------------------|-----------------------------------------------------------|-----------------------------------|
| 1 | 01.08.2025 – 02.08.2025 | Familiar with Syllabus | |
| 2 | 04.08.2025 – 09.08.2025 | Physical divisions | |
| 3 | 11.08.2025 – 16.08.2025 | Drainage system. | |
| 4 | 18.08.2025 – 23.08.2025 | Climate | |
| 5 | 25.08.2025 – 30.08.2025 | Soils and natural vegetation. | |
| 6 | 01.09.2025 – 06.09.2025 | Agricultural crops: major crops | |
| 7 | 08.09.2025 – 13.09.2025 | Cropping pattern. | |
| 8 | 15.09.2025 – 20.09.2025 | Development of irrigation sources - canals and tubewells. | Assignment |
| 9 | 22.09.2025 – 27.09.2025 | Population: distribution | |
| 10 | 29.09.2025 – 04.10.2025 | Population: density and growth. | |
| 11 | 06.10.2025 – 11.10.2025 | Population composition: sex ratio, rural and urban, | |

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| 12 | 13.10.2025 – 18.10.2025 | Literacy, language and religion. | |
| 13 | 27.10.2025 – 01.11.2025 | Resources: Production and distribution of iron ore, | |
| 14 | 03.11.2025 – 08.11.2025 | Coal, petroleum, | Test |
| 15 | 10.11.2025 – 15.11.2025 | Hydro power, solar and thermal power | |
| 16 | 17.11.2025 – 22.11.2025 | Industries: iron and steel and sugar | |
| 17 | 24.11.2025 – 29.11.2025 | Industries: cotton textile and IT industry. | |

Recommended Books/ E resources/ LMS

- 1. Deshpande C. D. (1992) India: A Regional Interpretation, ICSSR, New Delhi.**
- 2. Hussain M. (1992) Geography of India, Tata McGraw Hill Education**
- 3. Johnson, B. L. C., ed. (2001) Geographical Dictionary of India. Vision Books, New Delhi.**
- 4. Mamoria C. B. (1980) Economic and Commercial Geography of India, Shiva Lal Agarwala.**
- 5. Mandal R. B. (ed.), (1990) Patterns of Regional Geography – An International Perspective. Vol. 3 – Indian Perspective.**
- 6. Sdyasuk Galina and P Sengupta (1967) Economic Regionalisation of India, Census of India**
- 7. Tiwari, R.C. (2007) Geography of India. Prayag Pustak Bhawan, Allahabad**

Signature of the teacher concerned

Head of the Department



SMRJ Government College, Siwani (Bhiwani)

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Session: 2025-26

Lesson Plan

(Department of Geography)



Teacher: Sh. Suresh Lamba

Class: MSc. 1st

Semester: 1st

Maximum Marks: 100

End Term Exam Marks: 50 (T) + 20 (P) = 70

Course Type & Title: Population and Development

Course Code: 25PG-GEO-103

Credits: 03 + 01 = 04

Internal Assessment Marks: 20 (T) + 10 (P) = 30

Course Outcomes:

Through this course following outcomes will be: -

- 1. Explain demographic theories, transitions, and spatial population structures in developed and developing regions.**
- 2. Analyze the relationships between population growth, human development, resources, and environmental sustainability.**
- 3. Evaluate contemporary population issues such as migration, ageing, urbanization, and gender disparities.**
- 4. Apply demographic data, GIS tools, and statistical techniques to population mapping and regional analysis.**

| Sr. No. | Week/Month, 2025 | Unit/ Topic/ Chapter to be covered | Assignment/ Test/ Remarks, if any |
|----------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 1 | 01.08.2025 – 02.08.2025 | Familiar with Syllabus | |
| 2 | 04.08.2025 – 09.08.2025 | Population Theories, Patterns, and Transitions: Nature, scope, and significance of population geography, | |
| 3 | 11.08.2025 – 16.08.2025 | Classical and modern demographic theories: Malthus, Marx, Neo-Malthusianism, Demographic | |
| 4 | 18.08.2025 – 23.08.2025 | Transition, Spatial distribution and density of population: global and regional patterns, | |
| 5 | 25.08.2025 – 30.08.2025 | Population structure: age-sex pyramid, dependency ratio, literacy, and workforce participation, | |
| 6 | 01.09.2025 – 06.09.2025 | Population data sources and reliability: census, surveys, civil registration. | |
| 7 | 08.09.2025 – 13.09.2025 | Population and Development Interface: Population growth and its relationship with economic and human development, | |
| 8 | 15.09.2025 – 20.09.2025 | Population-resource-environment nexus, Sustainable development goals (SDGs) and demographic indicators, Urbanization, internal migration, and development corridors, | Assignment |

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| 9 | 22.09.2025 – 27.09.2025 | Population policies: comparative review (India, China, Sweden, Kenya). | |
| 10 | 29.09.2025 – 04.10.2025 | Contemporary Issues in Population and Spatial Analysis: Population ageing and implications for health and economy, | |
| 11 | 06.10.2025 – 11.10.2025 | Gender and population: sex ratio, female literacy, reproductive health, and empowerment, | |
| 12 | 13.10.2025 – 18.10.2025 | Climate change and population vulnerability (environmental migration, climate refugees), Role of geospatial technologies in population mapping and demographic change, | |
| 13 | 27.10.2025 – 01.11.2025 | Contemporary tools: Population dashboards, UN DESA, IPUMS, WorldPop | |
| 14 | 03.11.2025 – 08.11.2025 | 1. Construction and interpretation of age-sex pyramids (static and progressive) (2) | Test |
| 15 | 10.11.2025 – 15.11.2025 | 2. Analysis of population growth rates and doubling time using census data (2) | |
| 16 | 17.11.2025 – 22.11.2025 | 3. Calculation of population density, dependency ratio, literacy rate (2) | |
| 17 | 24.11.2025 – 29.11.2025 | 4. Spatial mapping of population indicators using GIS (e.g., district-level census data) (2) 5. Analysis of Human Development Index (HDI) and other demographic indicators (01) 6. Case study report on a contemporary population issue (e.g., migration, ageing, gender) (01) | |

Recommended Books/ E resources/ LMS

- 1. Chandna, R. C. (2020). Geography of population: Concepts, determinants and patterns (12th ed.). Kalyani Publishers.**
- 2. Clarke, J. I. (1972). Population geography. Pergamon Press.**
- 3. Weeks, J. R. (2021). Population: An introduction to concepts and issues (13th ed.). Cengage Learning.**
- 4. Trewartha, G. T. (1969). A geography of population: World patterns. John Wiley & Sons.**
- 5. Bhende, A. A., & Kanitkar, T. (2019). Principles of population studies (8th ed.). Himalaya Publishing House.**
- 6. Dyson, T. (2010). Population and development: The demographic transition. Zed Books.**
- 7. UNFPA. (2023). State of world population report. United Nations.**
- 8. Desai, S. et al. (2021). India Human Development Survey. National Council of Applied Economic Research.**
- 9. UNDP. (2022). Human development report. <https://hdr.undp.org/>**

Signature of the teacher concerned

Head of the Department



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Session: 2025-26

Lesson Plan

(Department of Geography)



Teacher: Sh. Suresh Lamba

Class: B. A. Geography (H)

Semester: 5th

Maximum Marks: 100

End Term Exam Marks: 80

Course Type Title: Agriculture Geography

Course Code: 21UGEOH509

Credits: 04

Internal Assessment Marks: 20

Course Outcomes:

The main aim of this course is to familiarize the students with the understanding of agriculture system, farming and cropping pattern, dairy farming, agriculture efficiency etc. alongwith green revolution and major agricultural issues in India.

| Sr. No. | Week/Month, 2025 | Unit/ Topic/ Chapter to be covered | Assignment/ Test/ Remarks, if any |
|----------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 1 | 01.08.2025 – 02.08.2025 | Familiar with Syllabus | |
| 2 | 04.08.2025 – 09.08.2025 | Origin and Diffusion of Agriculture, Agricultural Geography: Nature and Scope; | |
| 3 | 11.08.2025 – 16.08.2025 | Determinants of Agricultural: Physical, Cultural and Institutional Factors etc. | |
| 4 | 18.08.2025 – 23.08.2025 | Concepts and Types of Agricultural Systems, | |
| 5 | 25.08.2025 – 30.08.2025 | World Farming Systems: Subsistence, Commercial, Plantation, Dairying and Mixed Farming; | |
| 6 | 01.09.2025 – 06.09.2025 | Characteristics and Distribution of Dairy Farming Classification and Characteristics of Agricultural Regions of the World. | |
| 7 | 08.09.2025 – 13.09.2025 | Crop Combination Regions; Crop Diversification; | |
| 8 | 15.09.2025 – 20.09.2025 | Crop Combination and Diversification in India, | Assignment |
| 9 | 22.09.2025 – 27.09.2025 | Von Thunen's Theory of Agricultural Land-Use with Recent Modification, | |
| 10 | 29.09.2025 – 04.10.2025 | Agro-climatic Regions of India, | |
| 11 | 06.10.2025 – 11.10.2025 | Agricultural Efficiency and Agricultural Productivity, | |
| 12 | 13.10.2025 – 18.10.2025 | Irrigation Technology and Methods. | |
| 13 | 27.10.2025 – 01.11.2025 | Green Revolution in India, | |

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| 14 | 03.11.2025 – 08.11.2025 | Agricultural Planning and Policies in India; Impacts of Green Revolution on Indian Agriculture: | Test |
| 15 | 10.11.2025 – 15.11.2025 | Land and Institutional Reforms, | |
| 16 | 17.11.2025 – 22.11.2025 | Major Issues Associated with Indian Agriculture and Farmer Sustainability, | |
| 17 | 24.11.2025 – 29.11.2025 | Evergreen Revolution, Organic Farming | |

Recommended Books/ E resources/ LMS

- 1. Bowler, T. R. (1992). The Geography of Agriculture in Developed Market Economics. Longman.**
- 2. Gregor, H.P. (1970). Geography of Agriculture. New York: Prentice-Hall.**
- 3. Grigg, D. (1995). Introduction to Agricultural Geography. London: Routledge.**
- 4. Husain, M. (1996). Systematic Agricultural Geography. Jaipur: Rawat Publications.**
- 5. Mishra, R.P. (1967). Diffusion of Agricultural Innovations. Mysore: University of Mysore.**
- 6. Mohammad, A. (1978). Studies in Agricultural Geography. New Delhi: Rajesh Publications.**
- 7. Shafi, M. (2006). Agricultural Geography. New Delhi: Pearson Education.**
- 8. Sen, S. (1975). Reaping the Green Revolution. New Delhi: Tata McGraw-Hill.**
- 9. Singh, J. and Dhillon, S.S. (2000). Agricultural Geography. New Delhi: Tata McGraw-Hill.**
- 10. Singh, S. (1994). Agricultural Development in India: Regional Analysis. Shillong: Kaushal Publications.**

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