

As per the NEP 2020
B.A/B.Sc. Geography
(Effective from Academic Year 2024-2025 onwards)



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Semester – I

Learning Objectives

The course lays foundation of the fundamentals of geomorphology, a sub-branch of Physical Geography. This is important to develop understanding about their immediate surroundings.

Learning outcomes

- To develop understanding of theoretical concepts related to formation of the earth.
- To create strong foundation of various geomorphologic phenomena which are palying important role in shaping the earth surface.
- To extend knowledge of landform dynamics and resulted topographies.
- To cover basic contents for various competitive examinations such as civil services, UGC NET-JRF, state level PSC exams and so on.

Course Title:	Physical Geography-I (Geomorphology)	Course Code: 24BGS5101T
Total Lecture hour 45		Hours
Unit I	The Nature and Scope of Geomorphology. Theories of Origin of Earth; Kant, Laplace, James Jeans and Big Bang. Geological Time Scale. Interior Structure of Earth. Rocks; Origin and Types.	12
Unit II	Origin of Continents and Oceans; Theories of Lowthian Green, Continental Drift and Plate-tectonics. Major Phases of Orogeny. Types of Mountains. Theories of Mountain Building; Kober, Holmes, Taylor, Wager and Plate-tectonics.	12
Unit III	Isostasy; Concept and Views of Airy and Pratt. Endo-genetic and Exo-genetic Forces. Earthquake and Volcanicity. Earth Movements and Related Landforms.	11
Unit IV	Denudation; Weathering and Erosion. Erosional cycle of Davis and Penck. Erosional and Depositional Works of River, Wind, Underground Water, Sea Waves and Glacier.	10
Suggestive Readings:		
1	सिंह सविन्द्र(2021): भूआकृति विज्ञान, प्रवालिका प्रकाशन, इलाहाबाद।	
2	शर्मा जे. पी.(2016): भूआकृति विज्ञान, रस्तोगी प्रकाशन, मेरठ।	
3	प्रसाद गायत्री (2024): भू-आकृति विज्ञान, शारदा पुस्तक भवन, प्रयागराज।	
4	खुल्सर डी. आर.(2022): भौतिक भूगोल, कल्याणी प्रकाशन, नई दिल्ली।	
5	सिंहसविन्द्र(2018): भौतिक भूगोल का स्वरूप, प्रवालिका प्रकाशन, इलाहाबाद।	
6	दयालपी.(2014): भू-आकृति विज्ञान, राजेश प्रकाशन, नई दिल्ली।	
7	Khullar, D.R. (2018): Physical Geography, Kalayani Publishers, New Delhi.	
8	Thornbury W. D. (2004): Principles of Geomorphology, CBS Publisher and Distributer, Delhi.	
9	Strahler, A.N. and Strahler, A.H.(1989): Elements of Physical Geography. John Wiley & Sons, New York.	
10	Hussain, M. (2021): Fundamentals of Physical Geography, Rawat Publication, Jaipur.	
11	Dayal, P. (1996): A Text Book of Geomorphology, Shukla Book Depot, Patna.	

Course Title:	Practical Geography	Course Code: 24BGS5101P
1	Scales- Definitions, Types (Statement, R.F. and Graphical). Importance of Scales.	
2	Enlargement and Reduction of Maps. Topographic Maps; Nomenclature and Interpretation. Conventional Signs. Introduction to OSM.	
3	Surveying: Meaning and Classification. Chain and Tape Survey; open and closed traverse.	

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Reference Books:

1	शर्मा जे. पी. (2023): प्रायोगिक भूगोल, रस्तीगी पब्लिकेशन, मेरठा
2	खुल्लर, डी. आर. (2022): प्रयोगात्मकभूगोल, कल्याणीप्रकाशन, नईदिल्ली।
3	भल्ला एन. आर. (2017) : प्रायोगिक भूगोल के मूल तत्त्व, सलोनी ऑफसेट, जयपुर ।
4	Singh, L.R. (2010): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
5	Mishra, R. N. and Sharma, P. K. (2022): Practical Geography, Pareek Publication.
6	Singh, R.L. and Singh Rana P.B. 1991: Elements of Practical Geography. Kalyani Publishers, New Delhi.

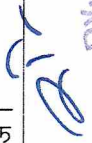
Semester – II**Learning Objectives**

This is a conceptual course which lays Foundation of the fundamentals of Climatology and Oceanography, the two sub-branches of Physical Geography. This paper is important for developing concepts about various climatic patterns and oceanic circulation.

Learning outcomes

- To make students understand the basics of climatic phenomena and ocean characteristics.
- To develop understanding of ocean water dynamics and climatic circulations.
- To develop understanding of the impact of climatic phenomenon on human activities and importance of oceanic resources.
- To make familiar with contemporary climatic issues.
- To cover basic contents for various competitive examinations such as civil services, UGC NET-JRF, state level PSC exams and so on.

Course Title:	Physical Geography-II (Climatology and Oceanography)	Course Code: 24BGSS201T
Total Lecture hour 45	Hours	
Unit I	Composition and Structure of Atmosphere. Insolation and Heat Budget. Distribution of Atmospheric Temperature. Atmospheric Pressure; Pressure belts and Wind Circulation. Planetary, Periodic and Local Winds.	12
Unit II	Atmospheric moisture: Types of Humidity. Process of Cloud Formation. Types of Clouds. Types of Precipitation. Distribution of Rainfall. Air Masses and Fronts. Cyclones- Tropical and Temperate Cyclones. Climatic Classification by Koppen and Thornthwaite. Contemporary issues; Climate Change, Global Warming, Acid Rain, Urban Heat Island.	12
Unit III	Nature and scope of Oceanography. Ocean Bottom Reliefs; Indian, Atlantic and Pacific Oceans. Ocean Temperature Distribution. Ocean Salinity; Sources, Controlling Factors and Distribution. Ocean Deposits.	11
Unit IV	Ocean Currents; Influencing Factors, Types and Impacts. Tides; Factors and Types. Theories of origin of Tides (Equilibrium, Progressive Wave and Stationary Wave Theories). Coral reefs; Conditions of Growth and Types. Theories of Darwin, Murray and Daly. Oceans Resources and Blue Economy.	10
Suggestive Readings:		
1	सिंह सविद्र (2016): जलवायु विज्ञान, प्रवालिका प्रकाशन, इलाहाबाद।	
2	सिंह सविद्र (2018): समुद्र विज्ञान, प्रवालिका प्रकाशन, इलाहाबाद।	
3	लाल डी. एस. (2022): जलवायु विज्ञान, शारदा पुस्तक भवन, प्रयागराज ।	
4	लाल डी. एस. (2012): जलवायु विज्ञान एवं समुद्र विज्ञान, शारदा पुस्तक भवन, प्रयागराज ।	


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5	खुल्लर डी. आर. (2022): भौतिक भूगोल, कल्याणी प्रकाशन, नई दिल्ली ।
6	सिंह सविद्र(2018): भौतिक भूगोल का स्वरूप, प्रवालिका प्रकाशन, इलाहाबाद।
7	Khullar D.R. (2018): Physical Geography, Kalayani Publishers, New Delhi.
8	Strahler, A.N. and Strahler, A.H. (1989): Elements of Physical Geography, John Wiley & Sons, New York.
9	Hussain, M. (2021): Fundamentals of Physical Geography, Rawat Publication, Jaipur.
10	Critchfield H.J. (2009): General Climatology, Prentice Hall, London.
11	Sharma R.C. and Vatal M. (2018): Oceanography for Geographers, Surjeet Publications, New Delhi.

Course Title:	Practical Geography	Course Code: 24BGS5201P
1	Methods of Relief Representations; Hachure, Hill shading, Spot Height, Bench Mark, Trigonometric Stations, Form Lines and Contour Lines. Principles of Contouring. Interpolation Method. Composite Methods of Relief Representation.	
2	Representation of Relief by Contours; Conical Hill, Concave Slope, Convex Slope, Escarpment, Cliff, Ridge, Gorge, 'U' Shaped Valley, 'V' Shaped Valley, Plateau, Waterfall, Ox-Bow Lake, Ria Coast, Fiord Coast.	
3	Drawing Profiles; Serial, Superimposed, Projected and Composite profiles. Weather Instruments; Thermometers, Barometers, Rain Gauge. Introduction to Weather Maps. Weather Symbols. Interpretation of Weather Maps.	
Reference Books:		
1	शर्मा जे. पी. (2023): प्रायोगिक भूगोल, रस्तोगी पब्लिकेशन, मेरठा।	
2	खुल्लर, डी. आर. (2022): प्रयोगात्मक भूगोल, कल्याणी प्रकाशन, नई दिल्ली।	
3	भल्ला एल. आर. (2017) : प्रायोगिक भूगोल के मूल तत्त्व, सलोनी ऑफसेट, जयपुर ।	
4	Singh, L.R. (2010): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.	
5	Mishra, R. N. and Sharma, P. K. (2022): Practical Geography, Pareek Publication.	
6	Singh, R.L. and Singh Rana P.B. 1991: Elements of Practical Geography. Kalyani Publishers, New Delhi.	

Semester – III

Learning Objectives

This course covers various dimensions of Human Geography. This is important for developing understanding on changing man-environment relationships, human population and economic activities, human settlements and so on.

Learning outcomes

- To introduce with branches of human geography and different concepts of man – environment relationship.
- To develop familiarity with different races and tribes of the world and interpretation of the world population trends.
- To visualize various patterns of urbanization, migration and settlement.
- To learn about the population resource relationship, concept of development and population problems.
- To cover basic contents for various competitive examinations such as civil services, UGC NET-JRF, state level PSC exams and so on.

Course Title:	Human Geography	Course Code: 24BGS6301T
Total Lecture Hours 45		
Unit I	Definition, Nature and Scope of Human Geography. Paradigms of Man-Environment Relationship; Determinism, Possibilism and Neo-determinism. Fundamental Principles of Human Geography: Principle of Activity, Principle of Areal Differentiation, Principle of Terrestrial Unity.	Hours 12
Unit II	Human Races: Types and Distribution (Classification of G. Taylor). Study of Socio-economic Life of Tribes; Eskimo, Bushmen, Pygmies, Santhal, Nagas and Bhil. World Population; Growth, Density and Distribution. Concept of Optimum Population.	12
Unit III	Migration; Definition, Causes, Types and Consequences. World Migration Patterns. Population-Resource Regions. Population Dividend and Problems. World Population Policies. Concept of Development.	11
Unit IV	Human Settlements; Site and Situation. Types and Morphology of Rural Settlements. Classification and Morphology of Urban Settlements. Trends and Patterns Urbanisation in the World. Problems of Urbanization.	10
Suggestive Readings:		
1	कौशिक एस. डी. (2017): मानव भूगोल, रस्तोगी प्रकाशन, मेरठ।	
2	हुसैन माजिद (2012): मानव भूगोल, रावत प्रकाशन, जयपुर।	
3	भल्ला एल. आर. (2017): मानव भूगोल, कुलदीप पब्लिकेशन, जयपुर।	
4	मौर्य एस. डी. (2022): मानव भूगोल, शाखा पुस्तक भवन, इलाहाबाद।	
5	Johnston, R.J. (2000): Dictionary of Human Geography. New York: Oxford.	
6	Chandna, R.C. (2010): Population Geography, Kalyani Publisher, New Delhi.	
7.	Leong G. C. and Morgan G. C. (2017): Human and Economic Geography, Masood Books, UP.	
8.	Singh, L.R. (2005): Fundamentals of Human Geography. Sharda Pustak Bhawan, Allahabad	
9.	Singh S. and Saroha J. (2021): Human and Economic Geography, Pearson Education.	
10	Bhende A.A. and Kanitkar T. (2003): Himalaya Publishing House, Mumbai.	

Course Title:	Practical Geography	Course Code: 24BGS6301P
1	Nature, Scope and History of Cartography. Cartographic Techniques and Tools. Cartographic Symbols. Definition, Basic Concepts. Purpose and Types of Maps	
2	Diagrams; Meaning and Classification. One dimensional Diagrams; Line Diagram, Bar Diagram, Pyramid Diagram. Two Dimensional Diagrams; Square, Rectangle and Circle (Pie Diagram). Three Dimensional Diagrams; Cube, Sphere and Block Pile.	
3	Prismatic Compass Survey; Details of Instruments. Open and Closed Traverse Methods, Graphical Method of Eliminating the closing error.	
Reference Books:		
1	शर्मा जे. पी. (2023): प्रायोगिक भूगोल, रस्तोगी पब्लिकेशन, मेरठ।	
2	खुल्लर, डी. आर. (2022): प्रयोगात्मक भूगोल, कल्याणी प्रकाशन, नई दिल्ली।	
3	भल्ला एल. आर. (2017): प्रायोगिक भूगोल के मूल तत्व, सलोनी ऑफसेट, जयपुर।	
4	Singh, L.R. (2010): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.	
5	Mishra, R. N. and Sharma, P. K. (2022): Practical Geography, Pareek Publication.	
6	Singh, R.L. and Singh Rana P.B. 1991: Elements of Practical Geography. Kalyani Publishers, New Delhi.	

Semester – IV

Learning Objectives

This course will develop understanding of key concepts related to natural resources and their conservation, agricultural and industrial activities and transport patterns.

Learning outcomes

- To make familiar with the meaning, approaches and concepts of economic geography.
- To develop understanding about types of economies and economic activities.
- To make them understand about the major natural resources, their conservation and principal crops of the world.
- To examine the patterns of world industrialization and transport patterns.
- To cover basic contents for various competitive examinations such as civil services, UGC NET-JRF, state level PSC exams and so on.

Course Title:	Economic and Resource Geography	Course Code: 24BGS6401T
Total Lecture Hours 45		Hours
Unit I	Definition, Nature and Scope of Economic Geography. Approaches in Economic Geography. Economic Geography and its relation with Allied Subjects. Classification of Economies. Classification of Economic Activities: Primary, Secondary, Tertiary and Quaternary Activities.	12
Unit II	Concept and Classification of Resources. Mineral Resources; Iron, Manganese, Bauxite, Lime Stone, Dolomite. Energy Resources: Coal, Petroleum and Hydroelectricity. Resource Conservation. World Energy Crisis.	12
Unit III	Types of Agriculture and Agricultural Regions of the World. Major Crops; Rice, Wheat, Tea, Coffee, Cotton and Sugarcane. Livestock. World Agricultural Problems and Food Security.	11
Unit IV	Classification of Industries. Major Industries; Iron and Steel, Cotton Textile and Automobile. Industrial Regions of the World. Special Economic Zones and Technology Parks. World Transport Patterns; Land, Water, and Air.	10
Suggestive Readings:		
1	सक्सेना एच. एम. (2019): आर्थिक भूगोल, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर।	
2	गौतम अल्का (2022): आर्थिक भूगोल के मूल तत्व, शारदा पुस्तक भवन, प्रयागराज।	
3	कौशिक एस. डी. (2017): आर्थिक भूगोल के सरल सिद्धांत, रस्तोगी प्रकाशन, मेरठ।	
4	हारून एम. (2015): संसाधन भूगोल, वसुंधरा प्रकाशन, गोरखपुर।	
5	कौशिक एस. डी. (2018): संसाधन भूगोल, रस्तोगी प्रकाशन, मेरठ।	
6	Singh K. N. and Siddiqui A. R. (2000): Economic Geography. Pragay Pustak Bhawan.	
7.	Leong G. C. and Morgan G. C. (2017): Human and Economic Geography, Masood Books, UP.	
8.	Siddh Rath K. (2016): Economic geography, Kitab mahal publication, Delhi.	
9.	Singh S. and Saroha J. (2021): Human and Economic Geography, Pearson Education.	
10.	Roy P. (2014): Economic Geography- A Study of Resources, New Central Books agency.	
11	Knowles R. and Wareing J. (1990): Economic and Social Geography, Rupa Publication.	

Course Title:	Practical Geography	Course Code: 24BGS6401P
1	Distribution Maps; General Rules and Methods. Qualitative Methods; Chorochromatic and Choroschematic. Quantitative Methods; Choropleth, Isopleth, Dot, Diagrammatic, Sten-de-Geer's and Stiggen-Bauer's Methods.	

2	Graphs; Simple and Poly Linear Graphs, Band Graph. Representation of Transport Data; Cartograms and Traffic Flow Diagram. Climatic Graphs; Climograph, Hythergraph and Climatograph.
3	Data; Meaning and Types. Measures of Central Tendency; Mean, Mode, and Median. Measures of Dispersion; Range, Quartile, Mean Deviation, Variance and Standard Deviation.
Reference Books:	
1	शर्मा जे. पी. (2023): प्रायोगिक भूगोल, रस्तोगी पब्लिकेशन, मेरठ।
2	खुल्लर, डी. आर. (2022): प्रयोगात्मक भूगोल, कल्याणी प्रकाशन, नई दिल्ली।
3	भल्ला एल. आर. (2017): प्रायोगिक भूगोल के मूल तत्त्व, सलोनी ऑफसेट, जयपुर।
4	Singh, L.R. (2010): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
5	Mishra, R. N. and Sharma, P. K. (2022): Practical Geography, Pareek Publication.
6	Singh, R.L. and Singh Rana P.B. 1991: Elements of Practical Geography. Kalyani Publishers, New Delhi.

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Semester V Geography of India

Learning Objectives: To make students aware of the Geography of India. Developing a deeper understanding of physical and cultural resource of India.

Learning Outcomes

On completion of this course, learners will be able to:

1. The importance of "Ek Bharat Shrestha Bharat"
2. The wider physical and cultural aspects of India.

Course Title	Geography of India		Course Code: 24BGS7501T
Total Lecture hour 45			
Unit I	India- Physiographic divisions, Climate: seasons, mechanism of Indian monsoon; Natural Vegetation, major soil and drainage system.		12
Unit II	Resources - Metallic Minerals- Iron ore, Copper; Non-metallic- Mica, Limestone; Energy Resources- Coal, Petroleum, Natural Gas, Solar-Wind Energy; Industries- Iron & Steel, Cement and Industrial regions.		12
Unit III	Agriculture: major crops- Wheat, Rice, Cotton and Sugarcane; changing pattern of crops, agricultural growth and green revolution, livestock resources, cotton & Sugar industry.		11
Unit IV	Population- Growth, Distribution, Density, Literacy, Sex-ratio; Urbanization: Trends and Consequences; Linguistic diversity and major dialects of northern India.		10
Reference books:			
1. Khullar, D. R. (2006): India. A Comprehensive Geography. Kalyani Publishers., New Delhi.			
2. Singh, R. L. (ed.) (1971): India. A Regional Geography. National Geographical Society of India, Varanasi.			
3. Nag, P. and Gupta, S. S. (1992): Geography of India. Concept Publishing. Company, New Delhi.			
4. Sharma, T. C. (2003): India: Economic and Commercial Geography. Vikas Publication., New Delhi.			
5. Subbarao, B. (1959): The Personality of India. University of Baroda Press, Baroda.			
6. Chandna, R.C.: Geography of Population, Kalyani Publishers, 1998.			
7. Tiwari, R. C. (2007): Geography of India, Prayag Pustak Bhawan, Allahabad			
8. Tirtha, Ranji : Emerging India, Conpub. Ann Arbour, U.S.A. Michigan, 2006.			
9. Chapman, G. and Baker, K.M. (eds.) (1992): The Changing Geography of Asia. Routledge, London.			
10. Farmer, B.H. (1983): Introduction to South Asia. Methuen and Company Ltd. and Company Ltd., London.			
11. Ganguly, S. and Neil, DeVotta (eds.) (2003): Understanding Contemporary India. Lynne Reinner Publishers., Boulder and London.			

Learning objectives: This paper include various basic aspects of surveying instruments and process of surveying.

Learning outcomes: The students will be able to know about parts of instruments and know about how to use these surveying instrument for making plan.

Course Title	Practical Geography	Course Code: 24BGS7501P
Wind vane, Anemometer, Parts of Indian clinometer, procedure of Indian clinometer surveying and determining the heights of distant points		
Remote sensing as a tool for data generation and mapping. Basic concept of satellite imageries. Basic		

concept of GIS. Introduction to Indian Navigation system- NavIC & GPS.
Plane table surveying: Equipments, Survey process (Selection of base line, centring, leveling and orientation)
Methods of plane table surveying: Radiation method and Intersection method, open traverse method and close traverse method.
Recommended Readings: 1. शर्मा जे पी (2023): प्रायोगिक भूगोल रस्तेगी पब्लिकेशन मेरठ। 2. खुल्लर डी आर (2022): प्रयोगात्मक भूगोल कल्याणी प्रकाशन नई दिल्ली। 3. चौहान, पी.आर. (2008) प्रयोगात्मक भूगोल, वसुधरा प्रकाशन, जयपुर। 4. भल्ला एल आर (2017): प्रायोगिक भूगोल के मूल तत्व सलोनी ऑफसेट जयपुर। 5. Singh, L.R. (2010): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad. 6. Mishra, R. N. and Sharma, P. K. (2022): Practical Geography, Pareek Publication. 7. Singh, R.L. and Singh Rana P.B. 1991: Elements of Practical Geography. Kalyani Publishers, New Delhi.


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Semester VI

Man and Natural Environment

Learning Objectives:

- To make students aware for man and environmental relations.
- Developing a deeper understanding for causes of environmental degradation and techniques of environmental management.

Learning Outcomes

On completion of this course, learners will be able to:

1. Know the wider aspects of Environment and its components, environmental awareness.
2. Know the conservation and management of environment.

Course Title	Man and Natural Environment	Course Code: 24BGS7601T
Total Lecture hour 45		Hours
Unit I	Environment: definition, scope, elements and types (Natural, Biological, Social, and Cultural). Man and environmental relationships with special reference to India: environmental determinism, possibilism and neo determinism.	12
Unit II	Biosphere and its components, concept of ecology, types and functions of Ecosystem – Energy flow, food chain, food web, and Process of Ecological Succession	12
Unit III	Environmental degradation and natural disasters, environmental crises: Ozone depletion, greenhouse gas effects, global warming, climate change, water scarcity, acid rain and desertification.	10
Unit IV	Environmental education and awareness, Sustainable development, Soil and forest resources management, water management, Man and wildlife conflicts, biodiversity and wildlife conservation-biodiversity and hotspot in India.	11
Recommended Readings:		
1. Singh, Savindra. 2006: Environmental Geography: Prayag Pustak Bhawan, Allahabad. 2. Agarwal, A. and Narain, S. 1997: Dying Wisdom: Rise, fall and Potential Traditional Water Harvesting System. Centre for Science and Environment, New Delhi 3. Chandna, R.C., 1998: Environmental Awareness, Kalyani Publishers, New Delhi. 4. Basham, A.L. 1992: The Wonder that was India, Rupa & Co., New Delhi, 5. Detwyler, J.R. 1975: Man's Impact on Environment. John Wiley and. Sons, New York 6. Economic, and social commission for Asia and the Pacific United Nations 1989: For the preparation of National Master Water Plans. 7. Govt. of India, 1980: Ministry of energy and Irrigation. Rashtriya Barh Ayog Report. 8. Gulhati, N.D. 1972: Development of Inter-State Rivers: Law and Practice in India. Allied Pub., Bombay. 9. Harvey, B. And Hallet, J.D. 1977: Environment and Society: An Introductory Analysis Macmillan, London. 10. Kates R.w. and Burton, I. (ed.) 1980: Geography, Resource and Environment. Ottawa. 11. Rao, K.L. 1979: India's Water Wealth. Orient Longman New Delhi. 12. Singh, R.A. and Singh, S.R. 1979: Water Management: Principles and Practices: Tara Publication, Varanasi.		

Learning objectives: This paper include various basic aspects of map projection and techniques of drawing various projection.

Learning outcomes: The students will be able to know about basic aspects of map projection and develop skill to draw map projection.

Course Title	Practical Geography	Course Code: 24BGS7601P
Definition, Classification and Characteristics of map projection (graphical consternations)		

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One standard conical projection
Two standard conical projection
Bonne's projection and polyconic projection.
Equidistant cylindrical projection
Equal area cylindrical projection
Mercator and Gall's projection
Equidistant Zenithal projection
Equal area Zenithal projection
Gnomonic polar Zenithal projection
Stereographic polar Zenithal projection
Orthographic polar Zenithal projection
Recommended Readings: 1. शर्मा जे पी (2023): प्रायोगिक भूगोल, रस्तोगी पब्लिकेशन मेरठ। 2. खुल्लर डी आर (2022): प्रयोगात्मक भूगोल, कल्याणी प्रकाशन नई दिल्ली। 3. चौहान, पी.आर. (2008) प्रयोगात्मक भूगोल, वसुधैरा प्रकाशन, जयपुर। 4. भल्ला एल आर (2017): प्रायोगिक भूगोल के मूल तत्व, सलोनी ऑफ़सेट जयपुर। 5. Singh, L.R. (2010): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad. 6. Mishra, R. N. and Sharma, P. K. (2022): Practical Geography, Pareek Publication. 7. Singh, R.L. and Singh Rana P.B. 1991: Elements of Practical Geography. Kalyani Publishers, New Delhi.


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