As per the NEP 2020

B.A/B.Sc. Geography

(Effective from Academic Year 2024-2025 onwards)

Pandit Deendayal Upadhyaya Shekhawati University

Sikar (Rajasthan) 307026

E-mail: reg.shekhauni@gmail.com

Website: www.shekhauni.ac.in

Dy. Registrar
Pandit Deendayal Upadhyaya
Shekhawati University,
Sikar(Rajasthan)

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, Wagener and Plate-tectonics.	**12**
Unit III	Isostacy; 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	खुल्लर डी. आर.(2022): भौतिक भूगोल,कल्याणी प्रकाशन, नई दिल्ली।	
5	सिंहसविन्द्र(2018):भौतिक भूगोल का स्वरूप,प्रवालिका प्रकाशन, इलाहाबाद।	
6	दयालपी.(2014):भू-आकृतिविज्ञान, राजेशप्रकाशन,नईदिल्ली।	
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. Conversion 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.	

Reference Books:	
1	शर्मा जे. पी.(2023): प्रायोगिक भूगोल, रस्तोगी पब्लिकेशन, मेरठ।
2	खुल्लर, डी. आर. (2022): प्रयोगात्मकभूगोल, कल्याणीप्रकाशन, नईदिल्ली।
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, PareekPublication.
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: 24BGS5201T
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 विज्ञानएंव समुद्र विज्ञान, शारदा पुस्तक भवन, प्रयागराज ।

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, Landon.
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. Drawing Profiles; Serial, Superimposed, Projected and Composite profiles.	
3	Weather Instruments; Thermometers, Barometers, Rain Guage. Introduction to Weather Maps. Weather Symbols. Interpretation of Weather Maps.	

Reference Books:

1	शर्मा जे. पी.(2023): प्रायोगिक भूगोल, रस्तोगी पब्लिकेशन, मेरठ।
2	खुल्लर, डी. आर. (2022): प्रयोगात्मकभूगोल, कल्याणीप्रकाशन, नईदिल्ली।
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, PareekPublication.
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		**Hours**
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, Principal of Terrestrial Unity.	**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,शारदा 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): प्रयोगात्मकभूगोल, कल्याणीप्रकाशन, नईदिल्ली।
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, PareekPublication.
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	SinghK.N.andSiddiquiAr.(2000):EconomicGeography. PragayPustakBhawan.
7.	Leong G. C. and Morgan G. C. (2017): Human and Economic Geography, Masood Books, UP.
8.	Siddhrath 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 Stilgen-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): प्रयोगात्मकभूगोल, कल्याणीप्रकाशन, नईदिल्ली।
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, PareekPublication.
6	Singh, R.L. and Singh Rana P.B. 1991: Elements of Practical Geography. Kalyani Publishers, New Delhi.