

FACULTY OF ARTS
SYLLABUS FOR THE BATCH FROM THE YEAR 2024 TO
YEAR 2028

Programme Code: BA
Programme Name: Bachelor of Arts
(Semester I-VI)

Examinations: 2024-2028



Department of Geography
Khalsa College, Amritsar
An Autonomous College

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(b) Subject to change in the syllabi at any time.
(c) Please visit the College website time to time.

S.No.	PROGRAMME OBJECTIVES
1.	Education related to different domains will enable students to acquire knowledge in languages, humanities and social science.
2.	This programme will be helpful in cultivating critical thinking among students.
3.	It will enable students to comprehend different concepts globally in order to develop holistic understanding of the world and society.
4.	It will provide awareness to students regarding ethical, psychological and political issues in order to increase their sense towards rights and responsibilities towards others.
5.	It will create a better understanding of theories, concepts and methodology related to humanities and social sciences among students.
6.	It will improve the divergent ability of students by exploring the domains of creative arts.
7.	It will provide better career opportunities to students in various sectors.
8.	It will enable students to apply human values to improve human security.

S.No.	PROGRAMME SPECIFIC OUTCOMES (PSOS)
PSO-1	To explore the fundamental concepts of the Atmosphere, Oceans and Earth s surface.
PSO-2	To familiarize the students with the basic map making and reading techniques.
PSO-3	To make them understand aspects of regional development and planning.
PSO-4	To give the students general view and importance of men and environment relationship.
PSO-5	To make the students aware about the physiographic divisions and economic resources of India.
PSO-6	To refrain the theoretical knowledge of the students of what, where and why in geography through field survey.
PSO-7	To motivate students to understand the disaster risk and to take actions appropriately against such Risk with their own will

**Course scheme (Geography) for Credit Based Evaluation and Grading System (CBEGS) in
Under Graduate Programme as per
NEP-2020**

COURSE SCHEME											
SEMESTER - I											
Course Code	Course Name	Hours/Week	Credits			Total Credits	Max Marks				Page No.
			L	T	P		Th	P	IA	Total	
Major Courses											
BGEO-1119	Physical Geography-I (Geomorphology)	4 Theory 2 Practical	3	-	1	4	50	25	25	100	5-8

SEMESTER - II											
Course Code	Course Name	Hours/Week	Credits			Total Credits	Max Marks				Page No.
			L	T	P		Th	P	IA	Total	
Major Courses											
BGEO-1219	Physical Geography-II (Climatology & Oceanography)	4 Theory 2 Practical	3	-	1	4	50	25	25	100	9-12

COURSE SCHEME											
SEMESTER - III											
Course Code	Course Name	Hours/Week	Credits			Total Credits	Max Marks				Page No.
			L	T	P		Th	P	IA	Total	
Major Courses											
BGEO-2319	Geography of resources and Environment	4 Theory 2 Practical	3	-	1	4	50	25	25	100	13-17

SEMESTER - IV											
Course Code	Course Name	Hours/Week	Credits			Total Credits	Max Marks				Page No.
			L	T	P		Th	P	IA	Total	
Major Courses											
BGEO-2419	Geography of Punjab	4 Theory 2 Practical	3	-	1	4	50	25	25	100	18-21

COURSE SCHEME											
SEMESTER - V											
Course Code	Course Name	Hours/Week	Credits			Total Credits	Max Marks				Page No.
			L	T	P		Th	P	IA	Total	
Major Courses											
BGEO-3519	World Regional Geography	4 Theory 2 Practical	3	-	1	4	50	25	25	100	22-25

SEMESTER - VI											
Course Code	Course Name	Hours/Week	Credits			Total Credits	Max Marks				Page No.
			L	T	P		Th	P	IA	Total	
Major Courses											
BGEO-3619	Geography of India	4 Theory 2 Practical	3	-	1	4	50	25	25	100	26-29
VGEO-102	Disaster Management	2	1	-	1	2	25	25	-	50	30-31

(Session-2024-28)
SEMESTER-I
COURSE CODE-BGEO-1119
GEOGRAPHY
PHYSICAL GEOGRAPHY-I
GEOMORPHOLOGY
(Theory)

Total Credits: 4

L- T- P

3- 0- 1

Max. Marks: 100

(Theory: 50

Internal Assessment: 25

Practical:25)

Time:3 hours

Instructions for the Paper Setters:

1. A compulsory question containing 12 short answer type questions will be set covering the whole syllabus. The students will attempt any 10 questions in about 20– 30 words each. Each question will carry 1marks (Total 10 marks).
2. The whole syllabus will be divided into 4 units. Eight questions will be set out of the whole syllabus, 2 from each unit. The students will be required to attempt one question from each unit. Each question carrying 10 marks. These will be in addition to the compulsory question at serial number 1 (Total 40 marks).
3. Special credit will be given to suitable use of maps and diagrams.

Course objectives:

To understand the process that shape landforms around us. To apply geomorphological concepts to problems of slope instability and try to identify the factors responsible for landslides occurrence in various environment.

UNIT-I

Physical Geography: Definition and divisions

Theories of the Origin of the Earth: Kant, Laplace and Jeans & Jeffreys

Major Landforms: Mountains, plateaus and plains in the world

UNIT-II

Orogenic and Epirogenic Movements of earth: Folding and faulting

Continental drift theory: with special reference to Wegener's theory and Plate Tectonic.

UNIT-III

Rocks: Their origin, classification and characteristics.

Earthquake and volcanoes: Causes, effects, types and Distributions.

UNIT-IV

Geomorphological landscapes: Fluvial, Glacial, Aeolian, coastal.

Books recommended

1. Chawla, I.N.: Bhautik Bhugol (in Punjabi), Bharat Prakashan, Jalandhar.
2. Dayal, P.: A Text Book of Geomorphology, Rajesh Publications New Delhi, 2007.
3. Dury, G.H.: The Face of the Earth Penguin, Middlesex, England, 1977.
4. Gass, I.G.: Understanding the Earth, The Artemrs Press, Sussex, 1973.
5. Holmes Arthur: Principles of Physical Geology, Thomas Nelson & Sons, Ltd., New York, Latest Edition, 1993.
6. Kale, V. and Gupta A.: Elements of Geomorphology, Oxford University Press, Calcutta, 2001.
7. Kaur Dhian: The Earth, Edited by R.C. Chandna, Kalyani Publishers, Ludhiana, Delhi, 2000.
8. Nizamuddin: An Introduction to Physical Geography, Concept, New Delhi, 2002.
9. Mamoria, C.P. and Niati, J.L.: Bhautik Bhugol Ke Tatwa (in Hindi)Agra, 1976.
10. Monkhouse, F.J.: Principles of Physical Geography, Orient Longman, New Delhi, Latest Edition, 1975.
11. R.N. Tikha: Physical Geography, New Academic Publishing Co., Jalandhar.
12. Singh, Pritam & Bhatia S., Bhautik Bhugol De Adhaar, Punjabi University Publication, Patiala.
13. Singh, Savinder: Physical Geography, Pravalika Publications, Allahabad, 2015.
14. Sparks, B.W.: Geomorphology, Longman, London, 1986.
15. Strahler, A.N. & Strahler A.H.: Modern Physical Geography, John Wiley, New York, 1992.
17. Thornbury, W.D.: Principles of Geomorphology, Second Edition, Wiley Eastern Ltd., New Delhi, 1993.
18. Singh Malkiat: Principles of Physical Geography, Rasmeet Parkashan, Jalandhar, 2005, Reprint

Course outcomes:	
Sr. No.	On completing the course, the students will be able to:
CO-1	Understand the landforms in systematic way.
CO-2	Gain knowledge on the influence of various types of rocks on the development and evolution of the landforms.
CO-3	Study landforms and the related processes from the traditional concept to the contemporary development in geography.

(Session-2024-28)
SEMESTER – I
GEOGRAPHY
CARTOGRAPHY-1
(PRACTICAL)

Time: 3 Hours

Instructions for the Paper Setters:

1. A compulsory question containing 4 short answer type questions will be set covering the whole syllabus. The students will attempt 2 short answer type questions in about 25–30 words each. Each short answer type question will carry 1 mark **(Total 2 marks)**.
2. The whole syllabus will be divided into 2 units. Eight questions will be set out of the whole syllabus, four from each unit. The students will be required to attempt two questions from each unit. Each question will carry 2 marks. These will be in addition to the compulsory question at serial number 1 **(Total 8 marks)**
4. Evaluation of Practical record **(8 Marks)** will be done at the time of viva–voce **(7 marks)** examination. A minimum of 12 sheets are to be prepared by the students in each semester.
5. In case the candidate has applied for the improvement, he/she should be required to make a fresh practical note book.
6. For practical classes, the number of students in one group shall not exceed fifteen.

COURSE OBJECTIVES

Geography is amalgam of physical as well as social sciences and such as it is necessary for the students to go through laboratory exercises. The concept of scale is to be understood in the initial stage and also different methods of representing relief.

UNIT–I

Maps and Scale: History of Cartography and types of maps, Scales: types of scales, methods of construction of graphic scales–plain scales, diagonal scales and comparative scales– different units, time scales.

UNIT–II

Representation of Relief:

Spot heights, trigonometrically stations, Bench Marks, formlines, Contours, Hachures, Hill–shading and Layer tints.

Recommended Books:

1. Khullar, D.R.: Essentials of Practical Geography, New Academic Publishing Co., Mai Hiran Gate, Jalandhar, 2016.
2. Singh, Gopal: Mapwork and Practical Geography, Vikas Publishing House, Pvt. Ltd., New Delhi, 1995.
3. Singh L.R. & Singh, Raghunandan: Mapwork and Practical Geography, Central Book Depot, Allahabad, 1993.
4. Phyllis Dink: Mapwork, Atma Ram & Sons, 1991

5. Mishra, R.P. & Ramesh, A.: Fundamental of Cartography, Concept Publishing Co., NewDelhi, 1989.
6. Monkhouse, F.J. & Wilkinson, H.R.: Maps and Diagrams, Methuen & Co., London, Third Edition, 1976.
7. Robinson, A.H. & Randall, D. Sale: Elements of Cartography, John Wiley & Sons, New York, (SixthEdition), 1995.

Course outcomes:	
Sr. No.	On completing the course, the students will be able to:
CO-1	Development the skills of map making and its importance
CO-2	Development of observation skills.
CO-3	Recognize basic themes of map making

(Session-2024-28)
SEMESTER-II
COURSE CODE-BGEO-1219
GEOGRAPHY
PHYSICAL GEOGRAPHY-II
CLIMATOLOGY&OCEANOGRAPHY
(Theory)

Total Credits: 4

L- T- P

3- 0- 1

Max. Marks: 100

(Theory: 50

Internal Assessment:25

Practical:25

Time:3 hours

Instructions for the Paper Setters:

1. A compulsory question containing 12 short answer type questions will be set covering the whole syllabus. The students will attempt any 10 questions in about 20–30 words each. Each question will carry 1marks **(Total 10 marks)**.
2. The whole syllabus will be divided into 4 units. Eight questions will be set out of the whole syllabus, 2 from each unit. The students will be required to attempt one question from each unit. Each question carrying 10 marks. These will be in addition to the compulsory question at serial number 1 **(Total 40 marks)**.
3. Special credit will be given to suitable use of maps and diagrams.

COURSE OBJECTIVES:

The main objective of climatology to study the unique characteristics of atmosphere in controlling the global climate, origin, types of Climate, causes and processes influencing the climatic variations and elements of weather.

UNIT-I

Climatology: Definition of Climate and Weather and its element and controls.

Physical structure of the atmosphere and attributes of different layers.

Chemical composition of the atmosphere: Dust particles, vapor, particles, active gases,

Inert gases

Insolation and Temperature: Factors affecting insolation, factors affecting temperature of a place. Vertical and horizontal distribution of temperature.

UNIT-II

Winds distribution: Atmospheric Pressure belts and Planetary winds characteristics.

Atmospheric Distribution: Cyclones and Anticyclones

Atmospheric Moisture: Precipitation forms and types of rainfall.

UNIT-III

Oceanography: Definition of oceanography

Topography of the ocean basins; continental shelf, continental slope, deep sea plains and oceanic deep.

Features: Trench, trough, oceanic ridge, guyots, seamount

Salinity of ocean water, Temperature of Ocean water

UNIT-IV

Movements of Oceanic Waters:

Surface currents of the oceans: Pacific, Atlantic, Indian Marine Flora, Fauna and Deposits.

Recommended Books:

1. Bhutani, Smita: Our Atmosphere, Edited by R.C. Chandna, Kalyani Publishers, Ludhiana, Delhi, 2002.
2. Critchfield, H.J.: General Climatology, Prentice Hall of India, Private Ltd., New Delhi, 1983.
3. Gross, Grant, M.: Oceanography: A View of the Earth, Prentice Hall, New Jersey, 1995.
4. Lal, D.S.: Climatology, Sharda Pustak Bhawan, Allahabad, 2011.
5. Mathew, J.R.: Climatology, McGraw Hill, New Latest Edition.
6. Monkhouse, F.J.: The Principles of Physical Geography, University of London Press, London Latest Edition, 1975.
7. Pattersen, S.: Introduction to Meteorology, McGraw Hill Book Co., London, Latest Edition.
8. Stringer, E.T.: Foundations of Climatology. Subject Publications, Delhi, 1982.
9. Trewartha, G.T.: An Introduction to Climate, McGraw Hill Book Co., New Delhi, International Student Edition, 1980.
10. Khan, N.: An Introduction to Physical Geography. Concept New Delhi, 2002.
11. King, C.A.M.: Beaches and Coasts, E. Arnold, London, 1959.
12. King, C.A.M.: Oceanography, E. Arnold, London, Latest Edition.
13. Sharma, R.C. & M. Vatel: Oceanography for Geographers, Chetyna, Allahabad 1970.
14. Shepar, F.P. : Submarine Geology, Harper & Sons, New York, 1948.
15. Sverdrup, H.U. et.al. : The Oceans. Prentice Hall, New Jersey, U.S.A. 1959.
16. Singh, Savinder: Physical Geography, Pravalika Publications, Allahabad, 2015.

Course outcomes	
Sr. No.	On completing the course, the students will be able to:
CO-1	Greater understanding of the nature scope of climatology.
CO-2	Acquire clear concepts of climatology.
CO-3	3 Interaction between the earth s atmosphere and the earth s surface and how atmospheric moisture works.
CO-4	4 Ability to analyze physical and chemical properties of sea water, bottom relief and distribution of oceanic resources.

(Session-2024-28)
SEMESTER – II
GEOGRAPHY
CARTOGRAPHY–II
(PRACTICAL)

Instructions for the Paper Setters:

1. A compulsory question containing 4 short answer type questions will be set covering the whole syllabus. The students will attempt 2 short answer type questions in about 25–30 words each. Each short answer type question will carry 1 mark (**Total 2 marks**).
2. The whole syllabus will be divided into 2 units. Eight questions will be set out of the whole syllabus, four from each unit. The students will be required to attempt two questions from each unit. Each question will carry 2 marks. These will be in addition to the compulsory question at serial number one. (**Total 8 marks**)
3. Evaluation of Practical record (**8 Marks**) will be done at the time of viva voce (**7 Marks**) examination. A minimum of 12 sheets are to be prepared by the students in each semester.
4. In case the candidate has applied for the improvement, he/she should be required to make a fresh practical note book.
5. For practical classes, the number of students in one group shall not exceed fifteen.

COURSE OBJECTIVES:

Particularly to show directions and bearing and different methods of representing relief knowledge of directions and bearings is essential and an introduction to weather maps is also required.

UNIT-I

Bearing, Enlargement and reduction:

Direction and bearing: Plotting of a course, true north, magnetic north, finding true north with the pole star, watch method and a rod method and its conversion.

Enlargement and Reduction: Graphic method- Square and triangle

UNIT-II

Weather Maps:

General Introduction to the study of weather maps, the scheme of weather symbols including Beaufort's scale employed in Indian daily weather maps; weather in India: summer season (period of summer monsoon), winter season, forecasting of weather through the study of weather maps and recent advances in weather forecasting.

Recommended Books:-

1. Khullar, D.R.: Essentials of Practical Geography, New Academic Publishing Co., Mai Hiran Gate, Jalandhar, 2016.
2. Singh, Gopal: Mapwork and Practical Geography, Vikas Publishing House, Pvt. Ltd., New Delhi, 1995.
3. Singh L.R. & Singh, Raghunandan: Mapwork and Practical Geography, Central Book Depot, Allahabad, 1993.

4. Phyllis Dink: Mapwork, Atma Ram & Sons, 1991.
5. Mishra, R.P. & Ramesh, A.: Fundamental of Cartography, Concept Publishing Co., New Delhi, 1989.
6. Monkhouse, F.J. & Wilkinson, H.R.: Maps and Diagrams, Methuen & Co., London, Third Edition, 1976.
7. Robinson, A.H. & Randall, D. Sale: Elements of Cartography, John Wiley & Sons, New York, (Sixth Edition), 1995.

COURSE OUTCOMES	
S.NO.	On completing the course, the students will be able to:
CO-1	Understand the symbols of weather maps.
CO-2	Understand the conventional symbols.
CO-3	Students will gain in depth knowledge of all directions

(Session-2024-28)
SEMESTER-III
COURSE CODE-BGEO-2319
GEOGRAPHY
GEOGRAPHY OF RESOURCES AND ENVIRONMENT
(Theory)

Total Credits: 4

L- T- P

3- 0- 1

Max. Marks: 100

(Theory: 50

Internal Assessment: 25

Practical:25)

Time:3 hours

Instructions for the Paper Setters:

1. A compulsory question containing 12 short answer type questions will be set covering the whole syllabus. The students will attempt any 10 questions in about 20– 30 words each. Each question will carry 1marks (Total 10 marks).
2. The whole syllabus will be divided into 4 units. Eight questions will be set out of the whole syllabus, 2 from each unit. The students will be required to attempt one question from each unit. Each question carrying 10 marks. These will be in addition to the compulsory question at serial number 1 (Total 40 marks).
3. Special credit will be given to suitable use of maps and diagrams.

COURSE OBJECTIVES:

Students will learn concept of resources and their interface with environment. To examine use and misuse of various resources and analyze future prospectus. To understand the quantitative and qualitative aspects of human resources in spatial perspective and the associated environmental problems.

Course Contents:

UNIT - I

Environment: Meaning, Nature and Components

Biotic abiotic, Exhaustible and inexhaustible, Potential and Developed Agricultural and Pastoral, Mineral and Industrial.

Distribution availability, utilization and conservation of water and Energy resources: Coal, Petroleum, natural Gas

UNIT - II

Forests: Types and distribution of forests—their economic and environmental significance and Conservation.

Fisheries;Types and distribution of fisheries—their economic and environmental significance

and Conservation.

Soils; **Major soil types and their distribution; problems of soil erosion and soil conservation.**

UNIT-III

Human Resources: Marx theory. Population growth, Distribution and density

Population Resources relationship: Population resources regions of the World.

UNIT-IV

Environmental Issues: Air Pollution; food security; deforestation; conservation of wild life, biodiversity

Books recommended

1. Agarwal, A. et.al. : The Citizen's Fifth Report, Centre for Science and Environment, NewDelhi, 1999.
2. Chandna, R.C.: A Geography of Population, Kalyani Publishers, Ludhiana, 2014.
3. Chawla, I.N.: Geography of Resources, Bharat Prakashan, Jalandhar, latest edition.
4. Hartshorne Truman A and W. Alexander: Economic Geography, Prentice Hall, 1988, 3rd John Edition.
5. Kates, R.W. & Burton, I (Eds.): Geography, Resources and Environment, Vol. I & II, University of Chicago Press, Chicago, 1986.
6. Naresh Kumar: Environmental Studies, Sharma Publishers, Jalandhar 2009.
7. Trewartha, G.T.: A Geography of Pupulation— World Patterns. John Wiley and Sons, NewYork, 1969.
8. Zelinsky, Wilbur: A Prologue to Population Geography, Prentice Hall, New Jersey, 1966.
9. Zimmerman E.W.: World Resources and Industries, Harpar, New York.
10. Chandna, R.C.: Environmental Geography Kalyani Publishers, Ludhiana, 2014.
11. Chawla. I.N.,: Resources & Environmental Bharat Publishers, Jalandhar.
12. Singh, J.S. & Singh, S.P. & Gupta S.R. (Eds.): Ecology Environment and Resources Conservation, Anamaya Publishers, New Delhi, 20

COURSE OUTCOMES	
Sr.No.	On completing the course, the students will be able to:
CO-1	Understand the importance of resources and environment.
CO-2	Understand how man induced changes in environment.
CO-3	Understand how to conservation and management of environment and resources

(Session-2024-28)
SEMESTER – III
GEOGRAPHY
CARTOGRAPHY
(PRACTICAL)

Time: 3 Hours

Instructions for the Paper Setters:

1. A compulsory question containing 4 short answer type questions will be set covering the whole syllabus. The students will attempt 2 short answer type questions in about 25–30 words each. Each short answer type question will carry 1 mark (**Total 2 marks**).
2. The whole syllabus will be divided into 2 units. Eight questions will be set out of the whole syllabus, four from each unit. The students will be required to attempt two questions from each unit. Each question will carry 2 marks. These will be in addition to the compulsory question at serial number 1 (**Total 8 marks**).
4. Evaluation of Practical record (**8 Marks**) will be done at the time of viva–voce (**7 marks**) examination. A minimum of 12 sheets are to be prepared by the students in each semester.
5. In case the candidate has applied for the improvement, he/she should be required to make a fresh practical note book.
6. For practical classes, the number of students in one group shall not exceed fifteen.

COURSE OBJECTIVES:

Students will come to know the uses of graphs and its types. To apprise the students with symbolization of different types of geographical data and depiction of various spatial data.

Course Contents:

UNIT—I

Symbolization of Geographical Data:

- a) **Point Symbols:** Dot, circle, sphere.
- b) **Line Symbols:** Isopleths and flow lines.
- c) **Areas Symbols:** Choropleth.

UNIT—II

Construction and Significance of the following:

- a) Columnar diagrams: Simple, superimposed, composite.
- b) Graphs: Line graphs, climograph, hythergraph, erograph, wind rose.

Recommended Books:-

1. Khullar, D.R.: Essentials of Practical Geography, New Academic Publishing Co., Mai HiranGate, Jalandhar, 2016.
2. Singh, Gopal: Mapwork and Practical Geography, Vikas Publishing House, Pvt. Ltd., New Delhi, 1995.
3. Singh L.R. & Singh, Raghunandan: Mapwork and Practical Geography, Central Book Depot, Allahabad, 1993.
4. Phyllis Dink: Mapwork, Atma Ram & Sons, 1991.

Further readings

1. Mishra, R.P. & Ramesh, A.: Fundamental of Cartography, Concept Publishing Co., New Delhi, 1989.
2. Monkhouse, F.J. & Wilkinson, H.R.: Maps and Diagrams, Methuen & Co., London, Third Edition, 1976.
3. Robinson, A.H. & Randall, D. Sale: Elements of Cartography, John Wiley & Sons, New York, (Sixth Edition), 1995.

Course outcomes	
Sr. No.	On completing the course, the students will be able to:
CO-1	Understand skill of drawing maps.
CO-2	Learning the interpretation of topographic maps.
CO-3	Understand the cartographic symbols

(Session-2024-28)

SEMESTER-IV
COURSE CODE-BGEO-2419
GEOGRAPHY
GEOGRAPHY OF PUNJAB
(Theory)

Total Credits: 4

L- T- P

3- 0- 1

Max. Marks: 100

(Theory: 50

Internal Assessment: 25

Practical:25)

Time:3 hours

Instructions for the Paper Setters:

1. A compulsory question containing 12 short answer type questions will be set covering the whole syllabus. The students will attempt any 10 questions in about 20– 30 words each. Each question will carry 1marks (Total 10 marks).
2. The whole syllabus will be divided into 4 units. Eight questions will be set out of the whole syllabus, 2 from each unit. The students will be required to attempt one question from each unit. Each question carrying 10 marks. These will be in addition to the compulsory question at serial number 1 (Total 40 marks).
3. Special credit will be given to suitable use of maps and diagrams.

COURSE OBJECTIVES:

1. To understand the regional setting of Punjab state in detail through physical and political maps.
2. To examine the pattern of select population characteristics.
3. To study the distribution of major crops, industries and transport links.
4. To understand the intraregional variations in the select aspects.

UNIT—I

Punjab: Location, evolution of the state, administrative divisions. Relief, drainage, climate, soils, vegetation, mineral and power resources.

UNIT—II

Population: Numbers, distribution, density, growth (birth rate, death rate and migration), religious composition, urbanization.

Agriculture: Main characteristics including green revolution, irrigation, main crops (wheat, rice, cotton, sugarcane) and their distribution, livestock and dairying, problems of agriculture.

UNIT-III

Industries: Main characteristics, distribution pattern of major industries (cotton textile, sugar, hosiery, engineering, problems of industrialization).

Transport and Trade: Road, rail and their transport

UNIT—IV

Regional Geography: Majha, Doaba, Malwa and major characteristics of each region.

Books Recommended:

1. Mankoo, Darshan S.: Geography of Punjab, Kalyani Publication, Ludhiana, 2009.
2. Mavi, H.S. & Tiwana, D.S.: Geography of Punjab, National Book Trust, Delhi, 1993.
3. Singh, Malkit: Geography of Punjab, Reshmeet. Publications, Jalandhar, 2010.

Further Readings:

1. Census of India: Punjab: Census Atlas, Vol. XIII, No. IX, 1996.
2. Deshpande, C.D.: India: A Regional Interpretation, Northern Book Centre, New Delhi, 1992.
3. Gosal G.S. & Gopal Krishan: Regional Disparities in Levels of Socio-Economic Development in Punjab, Vishal Publications, Kurukshetra, 1984.
4. Gupta, S.P.: The Punjab: An Overview, Ess Pee Publications, Chandigarh, 2005.
5. Singh, Pritam: Punjab Economy: The Emerging Pattern, Enkay Publishers, New Delhi, 1995.
6. Singh, R.L., (Ed.): India: A Regional Geography, National Geographical Society of India, 1990, reprint.
7. Spate O.H.K. & Learmonth, A.T.A.: India and Pakistan: A General and Regional Geography. Methuen, London, Latest Edition.

Course outcomes	
Sr. No.	On completing the course, the students will be able to:
CO-1	Understand the geographical background and natural resources.
CO-2	Understand the irrigation and agricultural development in Punjab.
CO-3	Evaluate the transportation and population distribution in Punjab.

(Session-2024-28)
SEMESTER – IV
GEOGRAPHY
CARTOGRAPHY
(PRACTICAL)

Time: 3 Hours

Instructions for the Paper Setters:

1. A compulsory question containing 4 short answer type questions will be set covering the whole syllabus. The students will attempt 2 short answer type questions in about 25–30 words each. Each short answer type question will carry 1 mark (**Total 2 marks**).
2. The whole syllabus will be divided into 2 units. Eight questions will be set out of the whole syllabus, four from each unit. The students will be required to attempt two questions from each unit. Each question will carry 2 marks. These will be in addition to the compulsory question at serial number 1 (**Total 8 marks**).
4. Evaluation of Practical record (**8 Marks**) will be done at the time of viva–voce (**7 marks**) examination. A minimum of 12 sheets are to be prepared by the students in each semester.
5. In case the candidate has applied for the improvement, he/she should be required to make a fresh practical note book.
6. For practical classes, the number of students in one group shall not exceed fifteen.

COURSE OBJECTIVES:

To apprise the students with symbolization of different types of geographical data depiction of various spatial data. To provide training in application of various geographical methods of depicting geographical data. To train the students to interpret the topographical sheets at different scales course content.

UNIT—I

- a) Cartographic Representation of : Population data (distribution, density, growth, migration and literacy)
- b) Agriculture data (land utilization, distribution of crops, percentage of cropped area and irrigated areas).
- c) Industrial data (distribution, employment and production)
- d) Transport data (traffic flow).

UNIT—II

Topographical Maps: Significance of topographical maps in geographical studies. Study and Interpretation of topographical Maps of India (two sheets: one representing a hilly/mountainous tract and the other a plain tract).

Basic Introduction to Remote Sensing and GIS (Geographical Information System).

Recommended Books:

1. Khullar, D.R.: Essentials of Practical Geography, New Academic Publishing Co., Mai Hiran Gate, Jalandhar, 2016.

2. Singh, Gopal: Mapwork and Practical Geography, Vikas Publishing House, Pvt. Ltd., New Delhi, 1995.
3. Singh L.R. & Singh, Raghunandan: Mapwork and Practical Geography, Central Book Depot, Allahabad, 1993.
4. Phyllis Dink: Mapwork, Atma Ram & Sons, 1991.

Further Readings:

1. Mishra, R.P. & Ramesh, A.: Fundamental of Cartography, Concept Publishing Co., New Delhi, 1989.
2. Monkhouse, F.J. & Wilkinson, H.R.: Maps and Diagrams, Methuen & Co., London, Third Edition, 1976.
3. Robinson, A.H. & Randall, D. Sale: Elements of Cartography, John Wiley & Sons, New York, (Sixth Edition), 1995.

Course outcomes	
Sr. No.	On completing the course, the students will be able to:
CO-1	Understand the skill of drawing maps.
CO-2	Learning the interpretation of topographical maps.
CO-3	Understand the cartographic symbols.
CO-4	Introduce about Remote sensing and GIS

(Session-2024-28)
SEMESTER-V
COURSE CODE-BGEO-3519
GEOGRAPHY
WORLD REGIONAL GEOGRAPHY
(Theory)

Total Credits: 4

L- T- P

3- 0- 1

Max. Marks: 100

(Theory: 50

Internal Assessment: 25

Practical:25)

Time:3 hours

Instructions for the Paper Setters:

1. A compulsory question containing 12 short answer type questions will be set covering the whole syllabus. The students will attempt any 10 questions in about 20– 30 words each. Each question will carry 1marks (Total 10 marks).
2. The whole syllabus will be divided into 4 units. Eight questions will be set out of the whole syllabus, 2 from each unit. The students will be required to attempt one question from each unit. Each question carrying 10 marks. These will be in addition to the compulsory question at serial number 1 (Total 40 marks).
3. Special credit will be given to suitable use of maps and diagrams.

COURSE OBJECTIVES:

Students will understand global and regional pattern of cultural, political and economic institutions. To know salient problem and prospect of developing and developed countries. To understand the human resources development and its distribution.

Course Contents:

Study of the following regions of the World in terms of the aspects mentioned in each unit.

UNIT-I

ANGLO AMERICA

Location, physiographic divisions, Drainage and climate. Natural Vegetation. Agricultural crops, Demographic characteristics.

UNIT-II

ASIA

Location, physiographic divisions, Drainage and climate. Natural Vegetation. Agricultural crops, Demographic characteristics.

UNIT-III

AFRICA SOUTH OF SAHARA

Location, physiographic divisions, Drainage and climate. Natural Vegetation. Agricultural crops, Demographic characteristics.

UNIT-IV

EUROPE

Location, physiographic divisions, Drainage and climate. Natural Vegetation. Agricultural crops, Demographic characteristics.

Books Recommended:

1. Blij, Harm J.de Peter, O. Muller: Geography: Regions and Concepts, John Wiley, New York, 1993.
2. English, Paul Ward & James, A. Miller: World Regional Geography: A Question of Place, John Wiley, New York, 1989.
3. Jackson, Richard H. & Lloyd E. Hudman: World Regional Geography Issues for Today, John Wiley, New York, 1991.
4. Kromm, D.E.: World Regional Geography, Saunders Publishing, New York, 1980.

Further Readings:

1. Don R. Hoy (Ed.): Essentials of Geography and Development, Macmillan, New York, 1980.
2. Mankoo, Darshan Singh: A Regional Geography of the World, KalyaniPublishers, Ludhiana.
3. Singh, Malkiat : World Regional Geography, Rasmeet Prakashan, Jalandhar, (Pb.)
4. Trikha, R.N. and Bali P.K. and Sekhon, M.S.: World Regional Geography, New Academic Publishers, 2002.

Course outcomes:	
Sr.No.	On completing the course, the students will be able to:
CO-1	Understand the location, physiography, drainage and vegetation of the world.
CO-2	Understand the human resources development and distribution.
CO-3	Evaluation the natural resources and industries and its importance.

(Session-2024-28)
SEMESTER – V

GEOGRAPHY
MAP PROJECTIONS
(PRACTICAL)

Time: 3 Hours

Instructions for the Paper Setters:

1. A compulsory question containing 4 short answer type questions will be set covering the whole syllabus. The students will attempt 2 short answer type questions in about 25–30 words each. Each short answer type question will carry 1 mark (**Total 2 marks**).
2. The whole syllabus will be divided into 2 units. Eight questions will be set out of the whole syllabus, four from each unit. The students will be required to attempt two questions from each unit. Each question will carry 2 marks. These will be in addition to the compulsory question at serial number 1 (**Total 8 marks**).
4. Evaluation of Practical record (**8 Marks**) will be done at the time of viva–voce (**7 marks**) examination. A minimum of 12 sheets are to be prepared by the students in each semester.
5. In case the candidate has applied for the improvement, he/she should be required to make a fresh practical note book.
6. For practical classes, the number of students in one group shall not exceed fifteen.

COURSE OBJECTIVES:

Students will develop the skill to draw latitudes and longitudes Compute to draw different projections. To gain knowledge about shape and size of the earth.

UNIT–I

General introduction and classification of projections, constructions, properties, limitations and use of projections, Construction, properties and limitations of following map projections: Cylindrical: Equal- Area and Mercator's.

UNIT–II

Construction, properties and limitations of following map projections: Conical: One Standard conic, Two standard conic, Bonne`s, Polyconic

Books Recommended:

1. Kellaway, George P.: Map Projections, Methue and Co., London.
2. Singh, Gopal: Mapwork and Practical Geography, Surjeet Book Depot, Delhi, 1993.
3. Singh, Malkiat: Cartography, Rasmeet Prakashan, Jalandhar, 2006.
4. Singh, L.R: Practical Geography, Chaitanya, Publishing House, Allahabad, 2006.

Course outcomes	
Sr. No.	On completing the course, the students will be able to:
CO-1	Development of the skill to draw projections.
CO-2	Understand the shape and size of the earth.
CO-3	Understand the concept of longitude and latitudes

(Session-2024-28)
SEMESTER-VI
COURSE CODE-BGEO-3619
GEOGRAPHY
GEOGRAPHY OF INDIA
(Theory)

Total Credits: 4

L- T- P

3- 0- 1

Max. Marks: 100

(Theory: 50

Internal Assessment: 25

Practical:25)

Time:3 hours

Instructions for the Paper Setters:

1. A compulsory question containing 12 short answer type questions will be set covering the whole syllabus. The students will attempt any 10 questions in about 20– 30 words each. Each question will carry 1marks (Total 10 marks).
2. The whole syllabus will be divided into 4 units. Eight questions will be set out of the whole syllabus, 2 from each unit. The students will be required to attempt one question from each unit. Each question carrying 10 marks. These will be in addition to the compulsory question at serial number 1 (Total 40 marks).
3. Special credit will be given to suitable use of maps and diagrams.

COURSE OBJECTIVES:

To understand the regional setting of India in detail through physical and political maps. To examine the pattern of select population characteristics. To study the distribution of major crops, industries and transport links. To understand the intraregional variations in the select aspects.

UNIT-I

India: In the context of Asia and World

Relief, drainage, climate, vegetation, Soils.

UNIT-II

Mineral Resources: Iron-ore, copper, gold; and power resources.

Population: Numbers, distribution and density, growth, migration, urbanization.

UNIT-III

Agriculture-Characteristics of Indian agriculture; major crops (rice, wheat, sugarcane, cotton,

jute, tea,) Irrigation, problems of Indian agriculture

Land use pattern: Areas of surplus and deficit food production

UNIT-IV

Industries-Distribution and localization factors of major industries (iron and steel, cotton textiles, fertilizers)

Transport: Rail, Road, airways and waterways

Books Recommended:

1. Deshpande, C.D.: India: A Regional Interpretation, Northern Book, Centre, New Delhi.
2. Johnson, B.L.C.: South Asia, Heinemann, London, 1981.
3. Spate, O.H.K. & Learmonth, A.T.A.: India and Pakistan: A General and Regional Geography, Methuen, London, 1967.
4. Tirtha, Ranjit & Krishan, Gopal: Emerging India: A Geographical Introduction, Conoub, Ann Arber, Michigan (U.S.A.) 1992.
5. Malkiat Singh: Geography of India, Rasmeet Prakashan, Jalandhar.
6. D.S. Mankoo: Geography of India, Kalyani Publishers, Jalandhar.

Course outcomes	
Sr. No.	On completing the course, the students will be able to:
CO-1	Understand the geographical background and natural resources.
CO-2	Understand the irrigation and agricultural development in India.
CO-3	Evaluate the transportation and population distribution in India.

(Session-2024-28)
SEMESTER – VI

GEOGRAPHY
MAP PROJECTIONS AND FIELD WORK
(PRACTICAL)

Time: 3 Hours

Instructions for the Paper Setters:

1. A compulsory question containing 4 short answer type questions will be set covering the whole syllabus. The students will attempt 2 short answer type questions in about 25–30 words each. Each short answer type question will carry 1 mark (**Total 2 marks**).
2. The whole syllabus will be divided into 2 units. Eight questions will be set out of the whole syllabus, four from each unit. The students will be required to attempt two questions from each unit. Each question will carry 2 marks. These will be in addition to the compulsory question at serial number 1 (**Total 8 marks**).
4. Evaluation of Practical record (**8 Marks**) will be done at the time of viva–voce (**7 marks**) examination. A minimum of 12 sheets are to be prepared by the students in each semester.
5. In case the candidate has applied for the improvement, he/she should be required to make a fresh practical note book.
6. For practical classes, the number of students in one group shall not exceed fifteen.

COURSE OBJECTIVES:

To provide an analytical understanding of use of common map projections. To sensitize the students about pre field work and post field work (data processing and analysis and writing of field work report)

UNIT-I

Construction, Properties and Limitations of following Map Projections: Zenithal: Gnomonic, Stereographic, Orthographic, Equi- Distant and Equal-Area (Polar cases only) Introduction to Sinusoidal and Mollweide's projections.

UNIT-II

Role of field work in geography.

Scale of study and field work methodology.

Methods of collecting Primary data (questionnaire, observation, interview and measurement) and Secondary data and parts of report.

Methods of field study of: a Farm, a Village, a Town and Physical Features of an area.

Books Recommended:

1. Jones, P.A.: Field Work in Geography, Longman, London, 1968.
2. Archer, J.E. & Dalton T.H.: Field Work in Geography, E.T. Bastford Ltd., London, 1968.
3. Singh, Gopal: Map work and Practical Geography, Surjeet Book Depot, Delhi, 1993.

Course outcomes	
Sr. No.	On completing the course, the students will be able to:
CO-1	Acquire knowledge and clear concepts of the different types of map projections.
CO-2	Physical land surveys enable the students acquire a greater understanding of the socio economic and cultural dimensions of the population.
CO-3	Application of knowledge in the reality.

(Session-2024-28)
CORSE CODE-VGEO-102
GEOGRAPHY
DISASTER MANAGEMENT

Time: 1 Hour

Total Credit:2
L-T-P
1-0-1
Max. Marks: 50
(Theory: 25
Practical: 25)

Instructions for the Paper Setters:

In theory, there will be 25 questions of 1 mark each. All questions are compulsory. Answer to each question shall be in 50 words approximately. In practical, students have to submit one assignment.

Course Objectives: Develop an understanding of standard of humanitarian response and practical relevance in specific types of disasters and conflict situations. Understand the strength and weaknesses of disaster management approaches, planning and programming.

UNIT-I

Understanding disaster; Meaning, Factors and Significance, Causes and effects. Disasters a global view, Profile of India; Regional and seasonal

Typology of Disasters; Earthquakes, Flood and Drainage, Cyclone, Drought and Famine, Landslides, Fire and Forest fire

UNIT-II

Essentials and Disaster preparedness: Planning, communication, Leadership and coordination Warehouse and stock piling

Disaster management and Awareness: Human behavior and response, Individual community, Institutions, Community participations and awareness public awareness, public awareness Programme.

Course Outcomes	
CO-1	Provide basic conceptual understanding of disasters and its relationship with Development.
CO-2	Build skills to respond to disasters
CO-3	Enhance awareness of disaster risk management.

References:

1. Green, Stephen, 1980. International disaster relief: Towards A Responsive System; McGraw Hill Book Company, New York.
2. Ross, Simon, 1987. Hazard Geography; Longman, UK
3. Mishra, Girish K, and G C Mathur (Eds), 1993. Natural Disaster Reduction Reliance Publishing house.
4. Prakash, Indu, 1994 Disaster Management, Rastra Prahari, Prakashan Ghaziabad.