

Syllabus of Georaphy Semester 3

CORE: 201 – HUMAN GEOGRAPHY

ELECTIVE: 204 HUMAN GEOGRAPHY

CORE: 202 GEOGRAPHY OF INDIA - 1 (PHYSICAL)

ELECTIVE: 205 GEOGRAPHY OF INDIA -1(PHYSICAL)

CORE: 203 CARTOGRAPHIC METHODS – 1

Syllabus of Georaphy Semester 4

CORE: 211 BIO GEOGRAPHY

ELECTIVE: 214 BIO GEOGRAPHY

CORE: 212 GEOGRAPHY OF INDIA – 2
(ECONOMIC ACTIVITIES, POPULATION)

ELECTIVE: 215 GEOGRAPHY OF INDIA – 2
(ECONOMIC ACTIVITIES, POPULATION)

CORE: 213 BASIC CARTOGRAPHY-2

S Y B A

SEM-III

CORE: 201 – Human Geography

ELECTIVE: 204 HUMAN GEOGRAPHY

Course Content:

UNIT- I

Nature and scope of Human Geography. Concept of man and environment relationship: Determinism, Possibilism and Probabilism.

UNIT-II

Early economic activities of mankind, food gathering, hunting, fishing, shifting and sedentary agriculture. Division of mankind based on physical and social characteristics, spatial distribution.

UNIT-III

Human adaptation to environment: (i) Cold region - Eskimo, (ii) Hot region - Bushman and Beduin, (iii) Plateau – Gonds, Masai, (iv) Mountain – Gujjars.

UNIT-IV

Population regions of India, dynamic, prospective, depressed; Problems of over population in India and remedial measures; population programmes and policies of India.

Suggested readings:

1. Bergwan, Edward, E: Human Geography: Culture, Connections and landscape, Prentice-Hall, New Jersey, 1995.
2. Carr, M: Patterns, Process and Change in Human Geography, McMillan Education, London, 1987.
3. Carr, M: New Patterns: Process and Change in Human Geography, Nelson, 1997.

4. Fellman, J.L.: Human Geography- Landscape of Human Activities, Brown and Benchman publications. USA, 1997.
5. De Blij, H.J.: Human Geography, Cultural society and Space, John Wiley, New York, 1996.
6. Jhonston, R.J.(Ed): Dictionary of Human Geography, Blackwell, Oxford, 1994.
7. McBride, B.j.: Human Geography systems, patterns,and change, Nelson, U.K. and Canada, 1996.
8. Rubenstein, J.H. and Bacon, R.S.: The Cultural Landscape- an introduction to Human Geography, Prentice Hall India, New Delhi, 1990.
9. Singh,K.N.: People of India- An Introduction, Seagull Books, 1992.
10. Spate, O.H.K. and Learmonth, A.T.A,: India and Pakistan, Methuen, London, 1968.
11. Majid Hussain , Human Geography , Rahat Publication , Delhi , 2009

S Y B A
SEM - III

CORE: 202 GEOGRAPHY OF INDIA - 1 (PHYSICAL)
ELECTIVE: 205 GEOGRAPHY OF INDIA -1(PHYSICAL)

Course Contents:

UNIT – 1

India in the context of Asia: Tectonic evolution, Physiographic division of India, drainage pattern of India.

UNIT – 2

Climate of India: Origin of monsoon climate, Seasons, climatic regions, major soils.

UNIT – 3

Types of natural vegetation of India: Minerals and energy resources, iron ore, bauxite, copper, zinc, lead, gypsum, fluor spar, mica and various clays; Coal, oil and natural gas and uranium

UNIT – 4

Aquatic resources: Fish and sea foods, forest resources, forest conservation, animal resources, Hydel power, Thermal power, Atomic power and Non-conventional powers.

Suggested Readings:

1. Farmer B.H: (1983) An Introduction to South Asia, Methuen, London.
2. Government of India (2011), India year book, New Delhi.
3. Government of India (1999), National School Atlas, Natmo, Kolkata.
4. Singh Gopal: A Geography of India, Atmaram & son's, Delhi.
5. Tiwari R. C: (2009) Geography of India, Prayg Pustak Bhandar, Allahabad.
6. Alka Gautam (2009), Geography of India, Sharda Publication, Allahabad.

S Y B A
SEM-III
Core – 203
Cartographic Methods – 1

Course Content: Theory & Practical

UNIT – I

Nature and scope of Cartography. Basic Principles of Cartography, Map and their types, tools of Map- making, Map design.

UNIT – II

Scale: Their use, methods of showing scale, construction of scale, conversion of scale, types of scale (Linear, Diagonal and Comparative). (Two exercise for each scale).

UNIT – III

Enlargement and reduction of map: Graphical and instrumental method-Pantograph. (One exercise each for graphical method and instrumental method).

UNIT – IV

Cartograms: Representation of socio-economic and data by Bar-Graph (Simple & Compound), Line Graph, Square Graph, Sphere and Block Diagram, Pie Diagram.(One exercise each graphical method to be drawn on graph paper only).

Note:

- 1.Paper Core – 203 on Cartography-1 is both a Theory & a Practical papper. This paper will have 30 marks internal and 70 marks external examination with 30 marks written (Theory related) and 40 marks practical examination including journal assessment (05 marks) and viva-voce examination (05 marks)
- 2.Each one of the four units mentioned in syllabus has theoretical component and related practical sections.
- 3.Teaching workload should be of 3 lecture periods (55 minutes) per week for theory part and 3 practical periods (laboratory work) per week with each having the duration of 90 minutes.

4.Number of students in a batch for practical examination shall not be more than 15 under normal circumstances.

5.Students are required to keep a record of practical work in journal form, duly signed by the teacher-in-charge on all exercises and certified by Head of the department and Principal of the college.

6.Candidates who have not completed their journal work shall not be allowed to appear in the practical examination.

7.Separate passing in practical examination is necessary. Students have to obtain a minimum of 15 out of 40 marks of practical examination and 10 out of 30 marks related theory examination.

Suggested Readings:

1.Bygott, B: Map work and Practical Geography, University Tutorial press, London, 1969.

2.Ishtiaq, M.C : A text book of Practical Geography, Heritage Publishers, New Delhi, 1989

3.Raisz, Erwin.: Principles of Cartography, McGraw-Hill Book, New York, 1982.

4.Singh, R.L. : Elements of Practical Geography, Kalyani Publishing Co. , New Delhi, 1989.

5.Dikshit ,N.G. : Naksha Shatra, University Granth Nirman Board,Ahmedabad

6.Dalal, V.G.: Prayogik Bhoogol-1 & 2. University Granth Nirman Board,Ahmedabad

S Y B A
SEM – IV
CORE: 211 BIO GEOGRAPHY
ELECTIVE: 214 BIO GEOGRAPHY

Course Content:

UNIT – I

Definition, scope and significance of Bio-Geography, Basic Ecological concepts and principles.

UNIT – II

Source of energy – Tropic levels, food chain and food webs' Ecological pyramids (number, pyramids, biomass pyramids and energy pyramids) – flow of energy.

UNIT – III

Origin of fauna and flora; domestication of plants and animals and their dispersal agents, geographical distribution of plants in relation to soil, climate, distribution of animal life in relation to vegetation type and climate.

UNIT – IV

Ecological region of Gujarat – Their characteristics, distribution, problem, conservation and management.

(1) Forest , (2) Wetland , (3) Desert , (4) Marine

Suggested Readings:

1. Odum, Eugene. P: Fundamentals of Ecology, W.B. Saunders Co. London, (1971).
2. Robinson, H: Bio-Geography, McDonald and Evans, London, (1982).
3. Singh Savinder, Environmental Geography, Prayag Pustak Bhavan, Allahabad, (2005).
4. Saxena H.M: Environmental Geography, Rawat Publication, Jaipur.

S Y B A (2012)
SEM – IV
CORE: 212 GEOGRAPHY OF INDIA – 2
(ECONOMIC ACTIVITIES, POPULATION)
ELECTIVE: 215 GEOGRAPHY OF INDIA – 2
(ECONOMIC ACTIVITIES, POPULATION)

Course Content:

UNIT -1

Agriculture: Major crops (paddy, wheat, maize, bajra, pulses)

Soils, climatic conditions, major producing areas of India.

Minerals resources: Iron ore, manganese ore, copper ore, bauxite, zinc lead, gypsum, mica, lime stone, coal, natural gas and oil. Producing areas of India.

UNIT -2

Industrial development of India: Industrial policy and major industrial regions of India.

Textile , engineering , chemical and petro chemical industries.

UNIT – 3

Transportation: Road transport – Express highways, National highways, international highways, State highways. Problems and development

Railways, Air ways, Pipe Lines, road ways of India. Their problems and development.

UNIT – 4

Population: Growth and density of population, migration – Interstate and intrastate migration, international migration and population policies.

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1. Farmer B.H: (1983) An Introduction to South Asia, Methuen, London.
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5. Tiwari R. C: (2009) Geography of India, Prayg Pustak Bhandar, Allahabad.
6. Alka Gautam (2009), Geography of India, Sharda Publication, Allahabad.

S Y B A (2011)
SEM – IV
CORE: 213 BASIC CARTOGRAPHY-2

Course Content: Theory & Practical

UNIT-I

Method of showing relief on the map: - Pictorial methods(Hachure's, shading and layer tinting) and Quantitative methods (Bench- mark, Spot-height, Trig-point and contours).

UNIT -II

Representation of different land-forms by contours:- Gentle, Steep, Concave, Convex, Terrace, Water fall, Water rapid, U-shaped valley, V-shaped valley, Spur, Saddle/pass, Gorge, Volcanic crater hill, Plateau and Cliff – (Total 18 land-forms).

Drawing of cross profile: - Simple, Super-imposed, Composite and Projected profile and their relevance to Land-form mapping analysis.

UNIT – III

Weather Maps and Charts:- Introduction of Weather instruments - Dry-Wet Thermometer, Celsius & Farenhite thermometer, Rain-gauge, Aneroid barometer, Hygrometer, Wind wane and Anemometer.

UNIT – IV

Interpretation of Indian Daily Weather Reports (IDWR) – (Two exercise).
Hyther-graph & Climo-graph – (Two exercise).

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6. Dalal, V.G.: Prayogik Bhoogol-1 & 2. University Granth Nirman Board , Ahmedabad