SAURASHTRA UNIVERSITY

STRUCTURE OF THE COURSES

SUBJECT : GEOGRAPHY

B. A. SEMESTER STRUCTURE

(Revised Syllabus in Force from : June - 2010)
SAURASHTRA UNIVERSITY, RAJKOT

REVISED SYLLABUS
(Introduced from June 2010)

B. A. (GEOGRAPHY)

SEMESTER STRUCTURE

B. A. Semester - I From June - 2010

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Code</th>
<th>Course</th>
<th>Hours/Week</th>
<th>Credit</th>
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<tbody>
<tr>
<td>1.</td>
<td>1</td>
<td>Elements Geomorphology-1 (A)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>2.</td>
<td>2</td>
<td>Regional Geography of Gujarat-I</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or Introduction to Geography</td>
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<td></td>
<td></td>
<td>Total</td>
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B. A. Semester - II From November - 2010

<table>
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<tr>
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<th>Code</th>
<th>Course</th>
<th>Hours/Week</th>
<th>Credit</th>
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<tbody>
<tr>
<td>1.</td>
<td>3</td>
<td>Elements Geomorphology-II (B)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>2.</td>
<td>4</td>
<td>Regional Geography of Gujarat-II</td>
<td>3</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>or Men and Environment System</td>
<td></td>
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### B. A. Semester - III From June - 2011

<table>
<thead>
<tr>
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<th>Code</th>
<th>Course</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>1.</td>
<td>5</td>
<td>Elements of Climatology</td>
<td>3</td>
<td>3</td>
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<tr>
<td>2.</td>
<td>6</td>
<td>Geography of India Part-I</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>3.</td>
<td>7</td>
<td>Elements of Cartography-I(A)</td>
<td>3</td>
<td>3</td>
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### B. A. Semester - IV From November - 2011

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Code</th>
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<th>Hours/Week</th>
<th>Credit</th>
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<tbody>
<tr>
<td>1.</td>
<td>5</td>
<td>Elements of Oceanography</td>
<td>3</td>
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<tr>
<td>2.</td>
<td>6</td>
<td>Geography of India Part-II</td>
<td>3</td>
<td>3</td>
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<tr>
<td>3.</td>
<td>7</td>
<td>Elements of Cartography-II(B)</td>
<td>3</td>
<td>3</td>
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### B. A. Semester - V From June - 2012

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Code</th>
<th>Course</th>
<th>Hours/Week</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>11</td>
<td>Human Geography</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>2.</td>
<td>12</td>
<td>Principals of Economic Geography (Part - I)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>3.</td>
<td>13</td>
<td>Soil Geography</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>4.</td>
<td>14</td>
<td>Environmental Geography</td>
<td>3</td>
<td>3</td>
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<tr>
<td>5.</td>
<td>15</td>
<td>Geography of Manufacturing</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>6.</td>
<td>16</td>
<td>Elements of Cartography-II A</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
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### B. A. Semester - VI From November - 2012

<table>
<thead>
<tr>
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<th>Code</th>
<th>Course</th>
<th>Hours/Week</th>
<th>Credit</th>
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<tr>
<td>1.</td>
<td>17</td>
<td>Settlement Geography</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>2.</td>
<td>18</td>
<td>Principal of Economic Geography Part - II</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>3.</td>
<td>19</td>
<td>Agriculture Geography</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>4.</td>
<td>20</td>
<td>Geography of Resource</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>5.</td>
<td>21</td>
<td>Transportation Geography</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>6.</td>
<td>22</td>
<td>Elements Cartography-II (B)</td>
<td>3</td>
<td>3</td>
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**Note:**

1. Each Paper consist of 70 Marks external and 30 marks internal.
2. Each Practical Paper Consist of 100 Marks external.
3. Figures at the end of each topic of all the courses (Theory and Practical) indicate tentative number of lecture to be delivered on respective topic of theory Paper (Total 18 credit and 45 hours)
4. Students can Carry Stencil Maps in the Examination.
ELEMENTS OF GEOMORPHOLOGY : PART – I

SEMESTER – 1 : PAPER – I
COURSE CONTAIN

UNIT : 1 Meaning, nature and scope of geomorphology
relation with other branches of earth sciences,
signification of geomorphology.

Unit : 2 Solar system, Earth's origin : Kant's gaseous
Hypothesis, Nebular Hypothesis of Laplace,
planetesimal Theory of Chamberlin and Moulton,
Tidal Theory of James Jeans and Jeffreys, Nova star
Theory, Age of the earth Geological Eras and periods,
Earth's interior Isostary, Relief features of the first
order, Origin of the Continents and the Oceans :
Theories of Wegner's Continental Drift and Plate
Tectonics

Unit : 3 Rocks : meaning, classification and characteristics.
Soils : meaning, formation, natural characteristics,
Soil Profile

Unit : 4 Diastrophism – Earth's movements : Endogenetic
and Exogenetic Forces. Folding & Faulting, Earth
Quakes and Volcanoes, Relief Features of the second
order : Mountains, Plateaus and Plains.
SUGGESTED READINGS:

1. भौगलिक अनुसंधान : उ. म. विनोबा अह. आसी
   सुजयान संस्थ निर्माण म. क. क. व. अन. जयधी, जयधीभार

3. Thornbury : Principles of Geomorphology : John Wiley & Sons
5. Wooldridge S.W. : An outline of Geomorphology : Longmans
6. Sparks B.W. : Geomorphology : Longmans


REGIONAL GEOGRPAHY OF GUJARAT - I

SEMESTER - 1 : PAPER - II

UNIT : 1  Gujarat Location area, structure, and relief features, Major physiographic divisions.
        Drainage pattern - major rivers, Their importance and utilities  15

Unit : 2  Climate and Climatic regions : temperature, rainfall and seasons
        Natural Vegetation, Types, distributions  10

Unit : 3  Soil Irrigation & Agriculture
        - Soil Major Types and their distribution, soil problems and their remedies.
        - Major Multile purpose irrigation projects and their regional significance with special reference to Sardar Sarovar Project.
        - Major crops - Cotton, Tobacco, Ground nut, Rice, Wheat, Bajra etc., characteristics of agriculture  20
        - Agricultural problems and their remedies
SUGGESTED READINGS:

1. દેશ મંદ્યાશેતર ભી. – ગુજરાતની આર્થિક અને પ્રાદેશિક સ્થાયિત્વ (યુન. ગંભીર નિર્માણ બોર્ડ, અમદાવાદ)
2. સી.સી. ટેકટર – ગુજરાતની બસી (યુન. ગંભીર નિર્માણ બોર્ડ, અમદાવાદ)
3. યુન. ગંભીર નિર્માણ બોર્ડ, ગુજરાત રાજય, અમદાવાદ – નક્ષામાં ગુજરાત.
4. Dikshit K.R. Geography of Gujarat (National Book Trust of India)
INTRODUCTION TO GEOGRAPHY
(CREDIT BY CHOICE)

SEMESTER: PAPER - 2

COURSE CONTENTS

UNIT: 1 The nature of geography, objectives and relevance place of geography in the classification of sciences, geography and other disciplines. 5

UNIT: 2 Geography as the study of Environment Man – Enviroment relationship, Ecology and Ecosystem, Environmental Determinism Possibilism, Neo-determinism. 10

UNIT: 3 Map making and mapping techniques, Statistical methods, Collection of data, Analysis of data and Preparation of Maps 5

UNIT: 4 Introduction of Modern techniques, Recent trends in geography with special reference to India, Imperatifs for the future, career opportunities for geographers 15

SUGGESTED READINGS:

1. Axler, Ronald f. et at Geography's Inner Worlds; Pervasive themes in contemporary American Geography (Routledge, New Jersey – 1992)


7. Lownsburg J.F. and Aldrich F.T.: Introduction to Geographical Methods and Techniques (Charles Marrill, Columbus - 1979)


ELEMETS OF GEOMORFOLOGY - II

SEMESTER - II : PAPER - II
COURSE CONTAIN

UNIT : 1  Denudation and Diposition : weathering and it's types.
        - Geomorphic agent and processes : Erosion, transportation, diposition
        - Mass wasting and Evaluation of landscape concept of cycle of Erosion - Devis and Pech

UNIT : 2  Works of fluval, Glacial and Associated Land Scape with it's works

UNIT : 3  Works of Wind (Arid) Under Ground water (Karst) and sea-waves (Coastal) and associated land scapes with their works

UNIT : 4  Application of geomorphology to human activities : settlements, transport landuse, mining, resource evolution, environmental hazards and assessment

SUGGESTED READINGS :

1. भौगोलिक मूलधार : प्रा महेंद्रकुमार अर. शास गुजरात अंब निर्माण प्रा. कांटधार अन. जसली वोर्ट, गाढीनगर


3. Thornbury : Principles of Geomorphology : John Wiley & Sons


5. Wooldridge S.W. : An outline of Geomorphology : Longmans

6. Sparks B.W. : Geomorphology : Longmans
REGIONAL GEOGRAPHY OF GUJARAT – II

SEMESTER – 2 : PAPER – 2

COURSE CONTAIN :

UNIT : 1  - Animal life & animal resource, Dairy farming and Industries, White revolution
- Marine resources – fish, salt and other minerals Inland and coastal
- Important Mineral resources and power Resource Lime stone, China clay, Flour spar, Gypsum, Calcite, Bauxite, Mineral oil and Natural gas their distribution and utility

UNIT : 2  Major industries and their distribution – cotton and Textile industry, Sugar industry, Chemical and petro chemicals industry, Cement industry, Engineering industry & agro based industries their locational factors and problems.

UNIT : 3  Transport, Trade & Communication.
- Role of transportation in economic development major road, rail and water ways
- Important Ports of Gujarat
- Population their types distribution & problems
- Contemporary issues – Environmental hazards – Earth quake, floods and drought issues related to environment
MEN AND ENVIRONMENT SYSTEM
(CREDIT BY CHOICE)

SEMESTER - 2 : PAPER - 2

COURSE CONTAIN

UNIT : 1  Introduction Nature and Scope of Environmental Geography - perespective on men environment relationship, historical perspective of men environment

Classification of environment - physical, biological, social, econominc and ecological etc. Effect of environment on men. Bio-physical, perception and behavioural

UNIT : 2  Approaches of environmentl studies - landscape ecology, economic approach, environmental approach environmental hazards nature and causes.

Pollution. Types of pollution; air pollution, water pollution, noice pollution, land pollution, water pollution etc., origin, causes, characteristics types consequences

UNIT : 3  Ecology, types of ecosystem, structure and function of ecosystem, the water cycle, the carbon cycle, The oxygen cycle, The nitrogen cycle, The mineral cycle, Ecological balance

UNIT : 4  Study of any two Ecological regions of India in relation to their plant and animal life, in their relations, problems, conservation and management.
SUGGESTED READINGS:


ELEMENTS OF CLIMATOLOGY

SEMESTER - III : PAPER - 05

COURSE CONTENTS

Unit-1
- Weather and climate: Definition and significance of climatology, elements of weather and climate, Difference between weather and climate.
- Origin and Composition and Structure of the atmosphere

Unit-2
- Atmospheric Temperature: Insolation vertical & Horizontal Distribution of temperature, Temperature Inversions.
- Atmospheric pressure and winds: Vertical and Horizontal Distribution of pressure Seasonal Variations in Pressure,
- Earth Surface wind system and local winds and the Monsoon.

Unit-3
- Atmospheric moisture: Humidity, Evaporation and Condensation, the Hydrological cycle, Types of precipitation.

Unit-4
- Atmospheric disturbances: Tropical and Temperate cyclones.
- Applied Climatology, Atmospheric Pollution and Global Warming.

• SUGGESTED READING

1.
2. डॉ. जगदीश सिंह और अन्य, एन. सिंह : भौतिक भूगोल
   (राघा पब्लिकेशन, नई दिल्ली १/२००२)

3. Dr. Indira Singh & Dr. Satnam Singh : Climatology an
   Introduction, Srishti book Distributions N. Delhi


5. Stringer E. T. : Foundation of Climatology (Subject Pub.
   Delhi)

   (Srishti Book Distributors) (New Delhi)

7. Glenn T. Trewartha : The Earth's problem climates :
   The University of wisconsin press methyem & Co. Ltd.
   London.

8. D. S. Lal : Physical Geography, Sharda Prakashan
   Bhawan Allahabad, - 2009.

9. D. S. Lal : Climatology and Oceanography Sharda
   Prakashan Bhawan Allahabad, - 2009.
GEOGRAPHY OF INDIA (PART-I)

Semester - III : Paper 6

Course Contents:

Unit - 1
India in the context of South East and South Asia, India: land of diversities, unity within diversities
major terrain, Elements of India and their role in shaping physical landscape of India.

Unit - 2
Drainage system of India and their functional significance.
Regional and Seasonal Variations of Climate - The Monsoon,
Western Disturbances, Norwesters, Climatic Regions of India.

Unit - 3
Soil types of India - Their distributions and characteristics
Vegetation Types and their distributions.

Unit - 4
Forests - The status of their use and need for conservation.
Agricultures regions Major Crops.

SUGGESTED READINGS:
3. Dube R. N. : Economic & Geography of India.
ELEMENTS OF CARTOGRAPHY - I (A)

SEMESTER - III : PAPER - 7

Note:

1. Two practicals each of three duration.
2. The Course shall be covering three practical sessions per week. Each practical session shall of two periods each period of 1(one) hours.

COURSE CARTAIN :-

Unit-1

The Nature and Scope of Cartographic Maps and their uses,
Types of Maps.
Map making and Mapping Techniques

Unit-2

Methods of Showing relief (hachures, shading countours and layer tints.)
Representation of Relief - Pictorical and Mathematical methods.
Representation of different Landforms by contour.

Unit-3

Study of Toposheets - Interperation of a hilly and plain a area of India in respect of (1) Relief (2) Drainage (3) Vegetation (4) Settlement (5) Communicatio patterns, etc..

Note:

Candidates shall record their Practical work the journal and the journal duly certified by the proffecer in charge Compilition Certificate should be produced at the time of Examination. Candidates who have
no journal or completed the practical should not be appear at the Examination.

2. There shall be two practicals session each of three hours duration.

3. Distribution of Marks for Practical Exam:
   Practical - I(A) - Maps
   - Contours 50 Marks
   - Toposheets

   Practical - I - Contours
   - Toposheets 35 Mark
   - Journal 10 Mark
   - Viva 05 Mark
   **100 Mark**

Suggested readings:

Singh R. L. - Practical Geography

5. Dr. L. R. Singh Fundamentals of Practical Geography,
   Sharda Pustak Bhavan, Allahabad, 2009
ELEMENET OF OCEANOGRAPHY

SEMESTER - IV : PAPER - 8

COURSE CONTENTS :-

Unit-1

- Relevance of oceanography in earth and atmospheric sciences: Definition, Nature and Scope of Oceanography. Surface Configuration of the Ocean floor - Continental shelf, Continental Slope, Deep Sea Plain or Abyssal Plain, Oceandelop or Trench Relief of Atlantic, Pacific and Indian Oceans.

Unit-2

Composition of Oceanic Water, Distribution of Temperature and Salinity of Oceans and Seas.

Unit-3

Circulation of Oceanic Waters: Waves and Tides
Currents: Currents of the Atlantic, Pacific and Indian Oceans.

Unit-4

Marine Deposits and Coral Reefs, Coastal Environment Oceans as Storm House of Resources for the Future.

Suggested Readings :-

2.

3. Garrison T. Oceanography Wads worth com. USA


GEOGRAPHY OF INDIA - (PART : II)

SEMESTER - IV : PAPER - 9

COURSE CONTENTS :-

Unit-1

Resources - Animal, Marine, Mineral and Power Resources use and need of Conservation.
Industrial Development and Indian Economic, Industrial Regions of India.
Major Industries and their distribution.

Unit-2

- Population Explosion and Urbanisation.

Unit-3

- Transportation - Railways, Road and Air Transportation -
  Distribution and Development.
- Trade - Nation and International.

Unit-4

- Regional Disparity, Poverty, Globalization, Social and Ethnic
tension, Empowerment of Women.

Suggested Readings :

1. Despande CD - India - A Regional interpretation, Northen
   Book Center, New Delhi: 1992
2. Farmer B. H. - An Introduction south Asia, Methuen, London
   1983.
3. Wadia D. N. : Geology of India Mc Millan & Co.,
4. डो. रामकुमार गुर्जर एच बी. जी. जाट भारत का भूगोल - पंचशील प्रकाशन,
   जयपुर.
ELEMENTS OF CARTOGRAPHY II(B)

SEMESTER - IV : PAPER -10

COURSE CONTAIN:

Note:

1. Two Practicals each of three duration.
2. The Course shall be covering three practical sessions per week, each practical session shall of two periods, each period 1(one) hours.

Unit-1

Scale - Plain Linear, Statment, Diagonal and Comparative, Representative Fraction.

Unit-2

- Map Projections - Scale and Projection - Deformation Clasification and Choice of map Projections - Properties, Merit and Demerits.
  1. Zenithal Group - Gnomonic, Sterographic, Orthographic (Polar cases)
  2. Conical Group - One Standered Parallel.

Unit-3

- Study of Weather Instruments - Study of Weather Map of India. (Summer & Winter)

Unit-4

- Educational Excursion to get familiarised with the various aspects of Geography - The Report of which should be recorded in the Journal.
Note:

Candidate shall record their particulars working the journal and the journal duly certified by the proffecer in charge and the certificate should be produced at the time of examination. Candidates who have no journal or completed the practical should not be appear at the Examination.

2. There shall be two Practicals Session each of three hours duration.

3. Distribution of Marks for Practical Exam:

Practical - II(B)  Scale
Map Projections   50 Marks
Weather Instruments

Practical - II (B)  Scale
Map Projections   35 Marks
Weather Instruments and
Weather Map
Journal & Viva    15 Marks

100 Marks
HUMAN GEOGRAPHY

SEMESTER - V : PAPER -11

COURSE CONTENTS :-

Unit-1 :

Human Geography : Meaning and scope, its relation with other branches of Geography.
Man and Environment : Man as a Geographical factor, Determinism and Possibility.

Unit-2 :


Unit-3 :

Ethnic Distribution : Meaning of Race, Physiological Characteristics, Brief Study of Racial Classification and Distribution of main types of races., Indian Major Types of Tribes.

Unit-4 :

Development of Culture : Gradual Emancipation of the man from the control of nature Technology and Civilization Importance of Tools and Techniques.

Human Habitation : Human dwellings types of dwelling and their characteristics, location, Settlement Patterns and Urban community.
SUGGESTED READINGS :-

(1)

(2) डॉ. जितेन्द्र प्रसाद सकसेना : मानव भूगोल : लक्ष्मी नारायण अग्रवाल : आगरा - ३

(3) डॉ. राजकुमार गुर्जर & डॉ. बी. सी. जाट : मानव भूगोल

(4) Perpillon A. V. : Human Geography (Long Mans)

(5) Huntington - E : Principles of human Geography

(6) Vidal De-La Blanche : Principles of Human Geography (Cinstable)
PRINCIPALS OF ECONOMIC GEOGRAPHY - PART - I

SEMESTER - V : PAPER - 12

Course Contents :

Unit-1 :

Meaning, Nature and scope of Economic Geography.
Physical Controls of Economic activities :
Location, Relief Mineral resources Soils, Climate Vegetation and Animals.

Units-2 :

The human factor : Density and Distribution of population and its Geographical controls Man as a producer and consumer.

Unit-3 :

Classification of Economic Activities : Types of Activities Primary, Secondary and Tertiary.

Unit-4 :

Agriculture : Subsistence and Commercial farming, Mixed farming, Plantation Agriculture and Dairy farming.

SUGGESTED READINGS :-

(1)

(2) Cooper E. H. Economic Geography (Uni Tutorial Press)

(3) Arunachalam B. Economic and commercial Geography. (A.R. Sheth & Co. Bombay)

(4) Thowman : The Geography of Economic Activities.

(5) ड. बी. सी. जाह : आर्थिक पृष्ठभूमि पृष्ठभूमि प्रविष्टि - जयपुर
SOIL GEOGRAPHY

SEMESTER - V : PAPER - 13

Course Contents :-

Unit-1 :
Nature Scope and Significance of soil Geography Its Relationship with Pedology.
Soil factors - Parent material Organic Climatic Toporgraphic, Spatio Temporal Demensions

Unit-2 :
Process of Soil Formantation and Soil Development Physical, Biotic and Chemical Prosess, Compostion of Soils.
Soil Profile Development, Podzolization laterisation, calcification, gleezation.

Unit-3 :
Phyiscal properties of soil Moerphology, Texture, Structure, water, air, Temperature and other properties of soil chemicals Properties, soil and soil reaction, Biologic Process.

Unit-4 :
Classification of soils, Their Characteritics and world patterns
Soil Erosion, and Causes deradation and conservation of soil, Soils of India.

Suggested readings :


11. डॉ. धर्मेन्द्रसिंह — ग्राम विज्ञान — हिमालय प्रबंधन, उदयपुर.

12. 

13.
ENVIRONMENTAL GEOGRAPHY

SEMESTER - V : PAPER - 14

Course Content:

Unit-1

Concept of the Environment and Definition, Components, and Types of Environment.

Unit-2

Man Environmental Inter-Relation, Determinism, Possibilism, Symbiosis between man and Environment.
Ecosystems - Meaning and Definition, Principles of Ecology Types Functioning and productivity of Ecosystems, Conservation.

Unit-3

Environmental Hazards - Types, Introduction of Disaster Management.
Environmental Degradation - Types, Degradation by Human Activities.

Unit-4

Environmental Pollution - Types of pollution sources, Environmental Awareness and Education Awareness, Environmental Policy, Remedial Measures Legislation.
SUGGESTED READING:

1. डॉ. सचिन सिंह - पर्यावरण पृथ्वी - प्रयाग पुस्तक भवन, इलाहाबाद.
4. Bleton C - Natural Hazards and globla change - Tc Journal - 1989
GEOGRAPHY OF MANUFACTURING

SEMESTER - V : PAPER - 15

COURSE CONTENT :

Unit-1 :

Nature, Scope and Recent Developments Elements and Factors of localization of Manufacturing Industries, Centralization and Decentralization of Industrial Enterprise.

Unit-2 :

Horizontal, Vertical and Diagonal linkages of modern Industries.
Theories and Models of industrial location weber.

Unit-3 :

Distribution and Spatial pattern of Manufacturing Industries Iron and Steel, Energy goods and Automobiles, Textiles, Chemical, Petro Chemicals, Major Manufacturing Regions of world and India.

Unit-4 :

Environmental degradation caused by manufacturing Industries and Industrial hazards.
Impact of Manufacturing industries on economic development with special reference to India Special economic Zones.

Suggested readings :


5. डॉ. श्री मती प्रमीला कुमार : औद्योगिक भूगोल मध्य प्रदेश प्रंद अकादमी, भोपाल.
ELEMENTS OF CARTOGRAPHY - II (A)

SEMESTER - V : PAPER -16:

COURSE CONTAIN :

1. Two Particles each of three duration.
2. The Course shall be covering three practical sessions per week. Each practical session shall of two periods each period of 1(one) hours.

Unit-1

1. Map projections General Principales, Classificiation Drawing graticules on the following Projections by graphyical and manthematical methods.
   1. Zenithal Groups - Gnomonic, Sterographic and Orthoeraphic (Equatorial Case)
   2. Conical Groups - Bonne's and polyconic Projections.
   4. Cylindrical Group - Mercator

Unit-2

Enlargment and Reduction of Maps- Graphical and Pantographic methods - Idea of photographic device.

Unit-3

Exercise on contor maps : To find out slopes and gradients profile along the curved lenes.

Marking routes and Intervisibility.
Unit-4

Remote sensing and Geographical Information system (GIS). Aerial Photograph and Imagery.

Note:

Candidate shall record their particular working the journal and the journal duly certified by the proffeccer in charge and with certificate should be produced at the time of examination. Candidates who have no journal or completed the practical should not be apperer at the Examination.

2. There shall be two practicals session each of three hours duration.

3. Distribution of Marks for Practical Exam:

   Practical - I(A) Projections
   Enlargement and
   Reduction 50 Marks
   Remote sensing and GIS.

   Practical - I Projections
   Enlargement and
   Reduction 35 Marks
   Remote sensing and GIS.
   Journal 10 Marks
   Viva 05 Marks
   **100 Marks**
SETTLEMENT GEOGRAPHY

SEMESTER - VI : PAPER - 17

COURSE CONTAIN:

Unit-1
Nature, Scope and development of Settlement Geography
Definition of Urban and Rural Settlement: Merits and
Demerits.
Settlement Types and Pattern

Unit-2
Settlement Site and Structure: - Internal Morphology, External
form, Filed Patterns, Functions, Types of Houses.

Unit-3
Spatial Organization: Size, Spacing and Hierarchy of
Settlements, Emergence and Characteristics of Urban
Settlements.

Unit-4
- Settlement: Environment Relationship Global and Regional
  Pattern, Policies and Programes.
- Salient Features of Human Settlements in India.

Suggested Readings :

   New Delhi.
2. Chisholm : M. Rural Settlement and land use, Hutchiaison,
   (Marathi)
   Analysis, Pergaman Press, London.
   Book - Board, Chandigath.
   Delhi-1987.
   Bombay, 1968
   Banaras Hindu University, Department of
   Geography, Varanasi
10. Turner Roy : India's urban Future Oxford University Press
    Bombay, 1962.
11. माजिद हूसेन : मानव अधिवास, रावत प्रकाशन, जयपुर.
PRINCIPAL OF ECONOMIC GEOGRAPHY - PART II

SEMESTER - VI : PAPER - 18

COURSE CONTENTS:

Unit-1:
Energy Resources: Coal Petroleum Natural gas, Hydro-Power, Atomic Power, and other Natural Power Resources.

Unit-2:
Mining activities & Distribution of Important Mineral Resources - Iron, Bauxite, Manganese.

Unit-3:

Unit-4
Transportation and Trade: Means (Land Railways and water) and Economic Significance of transportation, Types of Trade, Bases of International Trade, Balance of Trade.

SUGGESTED READINGS:


2. Deshpande C.D.: Shehre Continental Prakshan Pune 1983 (Marathi)


4. Zimmerman: World Resources and Industries (Harper)
5. R. N. Chauhan: Basic Principals of Economic Geography
(ABD Publishers, Jaipur (India))

6. R. N. Chauhan: Industrial Geography (ABD Publishers)

7. डॉ. नी. सी. जाट: आर्थिक भूगोल, पंतसील प्रकाशन
   - जयपुर.

8. Dr. Indira Singh: Industrial Geography of India.

Dr. Satnam Singh: Industrial Geography of India.

11. D. G. Gatade: Industrial Geography of India
AGRICULTURE GEOGRAPHY

SEMESTER VI : PAPER - 19

COURCE CONTAIN

Unit-1 Concept, Meaning and Scope of Agricultural Geography. Origin and Development of Agriculture.

Unit-2 Factors Affecting Agriculture Physical, Economic, Social etc. Agriculture Methods and System.

Unit-3 Types of crops and - Wheat, Rice, Maize, Sugarcane, Tea, Coffee, Cotton, Rubber, Agricultural Regions.

Unit-4 Models - Von thumen's Location, Agricultural Problems and prospects Developmental Policies

SUGGESTED READINGS -

1. खृषि भूगोल : प्रमोला कुमार एवम, श्रीकमल शर्मा मध्यप्रदेश ग्रंथ अकादमी, भोपाल

2. खृषि भूगोल : डा. ची. एम. शर्मा, साहित्य भवन, आगरा

3. खृषि भूगोल - लेखली सायमन, मध्यप्रदेश हिंदी ग्रंथ अकादमी, रविन्द्रनाथ ठाकुर मार्ग, भोपाल - ४६२००३


6. Hussain M. : Agriculture Geography Ravat Publication

GEOGRAPHY OF RESOURCES

SEMESTER - VI : PAPER - 20

COURSE CONTAIN

Unit-1:
Definition Nature and Scope of Geography of Resources, Classification of Resources.

Unit-2:
Water Resource - Inland and Oceanic
Forest and Wiled Life Resources - Types, Distribution

Unit-3

Unit-4
Live stock resources and marine resource
Conservation of Resources and utilization, Major Resources. Soil, Forest, Water, Mineral etc.
Resource Policy

SUGGESTED READINGS :-

2. Simmons L. G. - The Ecology of Natural resources, Edward Amolo, London.
4. Zimmermans ; World resources and Industries Harper.
TRANSPORTATION GEOGRAPHY

SEMESTER - VI : PAPER - 21

COURSE CONTAIN

Unit-1 :

Transportation - Meaning and Importance of Transportation as
Tertiary activity,
Methods of study and characteristics of Geography.

Unit-2 :

- Factors affecting the Development of transportation :

Unit-3 :

Means of Transportation : Land - Road, Railway and Pipelines
Regional Density and Distribution of Transportation.

Unit-4 :

- Air Transportation - Regional Density and Distribution.
- Role of Technology in the Development of Transportation and
  Transport & Regional Development.

SUGGESTED READINGS :

1.


3. Moonis Raza & Yash Aggarwal : Transport Geography of India
   Concept Publicationing Company, New Delhi.

5. H & Bamford C. G. : Geography of transport Robinson
   Macdonald and Evans

7. Seaby K. R. The Geography of Air Transport: Hutchinson University

8. Couper A.D. The Geography of Sea Transport: Hutchinson University
ELEMENTS OF CARTOGRAPHY - II (B)

SEMESTER - VI : PAPER - 22

COURSE CONTAIN:

Note:

1. Two Practicals each of three duration.
2. The Course shall be covering three practical sessions per week, each practical session shall of two periods, each period 1(one) hours.

Unit-1

- Diagramatic Representation of statistical Data using population, agriculture, industry and transportation data:
  (a) Points - Dots, Proportional circles and circle, spheres.
  (b) Line Isopleths and flow lines
  (c) Areas - Choropleth
  (d) Line and Bargraph
  (e) Climograph, Hythergraph, windrose diagram, Block and Pictorial diagram.

Unit-2

- Surveying - Importance of field survey - scope and purpose, principles and application of selected survey instruments.
  1. Chain and tap Survey.
  2. Plane Table Survey.
  3. Prismatic Compass
Unit-3

Field work and field Report, Collect topo shoots of the area - 1 : 50000 Scale Visit the area and Identify the Settlements, Land use features of the region (Educational Excursion is Compulsory)

Note:

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2. There shall be two practicals session each of three hours duration.

3. Suggested Readings

Practical - II(B) Qualitative and Quantative data
Surveying 50 Marks

Practical - II (B) Qualitative and
Quantative data 35 Marks
Surveying
Journal and viva 15 Marks

100 Marks