Pt. Ravishankar Shukla University, Raipur  
SOS in Geography  
Five Year Integrated Course  
Syllabus  
B.A. Honours Geography

The B.A Honours course in Geography shall comprise of six semesters. There will be four courses in addition to the courses at B.A. general level, to be taught at the Honours level in V and VI semester. The arrangement of the courses and marks will be as follows.

<table>
<thead>
<tr>
<th>I Semester</th>
<th>Max. Marks</th>
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<tbody>
<tr>
<td>102. Paper – II – Elements of Geomorphology 50</td>
<td></td>
</tr>
<tr>
<td>103. Practical-I 50</td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>II Semester</th>
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<tbody>
<tr>
<td>Code 201.</td>
<td>Paper-III- Human Geography 50</td>
</tr>
<tr>
<td>202. Paper-IV- Dynamic Geomorphology 50</td>
<td></td>
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<tr>
<td>203 Practical-II 50</td>
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<thead>
<tr>
<th>III Semester</th>
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<tbody>
<tr>
<td>Code 301.</td>
<td>Paper-V- Climatology 50</td>
</tr>
<tr>
<td>302. Paper-VI-Geography of North America 50</td>
<td></td>
</tr>
<tr>
<td>303 Practical- III 50</td>
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</tbody>
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<table>
<thead>
<tr>
<th>IV Semester</th>
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<tbody>
<tr>
<td>Code 401.</td>
<td>Paper VII- Oceanography 50</td>
</tr>
<tr>
<td>402. Paper VIII-Geography of Asia 50</td>
<td></td>
</tr>
<tr>
<td>403. Practical- IV 50</td>
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</tbody>
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<thead>
<tr>
<th>V Semester</th>
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<tbody>
<tr>
<td>Code 501.</td>
<td>Paper-IX- Geography of Resources 100</td>
</tr>
<tr>
<td>502. Paper-X – Geography of India 100</td>
<td></td>
</tr>
<tr>
<td>503. Paper-XI – Population Geography 100</td>
<td></td>
</tr>
<tr>
<td>504. Paper-XII- Urban Geography 100</td>
<td></td>
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<tr>
<td>505. Practical V 50</td>
<td></td>
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</tbody>
</table>
### VI Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Paper</th>
<th>Marks</th>
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</thead>
<tbody>
<tr>
<td>601.</td>
<td>Paper-XIII-Geography of Environment</td>
<td>100</td>
</tr>
<tr>
<td>602.</td>
<td>Paper-XIV-Geography of Chhattisgarh</td>
<td>100</td>
</tr>
<tr>
<td>603.</td>
<td>Paper-XV-Economic Geography</td>
<td>100</td>
</tr>
<tr>
<td>604.</td>
<td>Paper-XVI-Geographical Information System</td>
<td>100</td>
</tr>
<tr>
<td>605.</td>
<td>Practical VI</td>
<td>50</td>
</tr>
</tbody>
</table>

1. Each theory paper shall be of three hours duration.
2. Candidates will be required to pass separately in theory and practical examination in each semester.
3. Each theory paper is divided into five units.
   (a) In the Practical examination, the following shall be the allotment of time and Marks -.
   (i) Lab work & Field work (survey) - 40 marks up to 3 hours & 2 hours
   (ii) Practical Record and viva-voce - 10 marks
(b) The external and internal examiners shall jointly submit marks.
(c) The candidates shall present at the time of the Practical examination their Practical records, regularly signed by the teachers concerned.
SEMESTER- I

PAPER- I
FUNDAMENTALS OF GEOGRAPHY
(Code-101)  
M.M. 50

UNIT- I  The nature of geography, objectives and scope.
UNIT-II  Place of geography in the classification of sciences. Geography and other disciplines.
UNIT-III  Geography as the study of environment, man-environment relationship, ecology and ecosystems.
UNIT- IV  Environmental determinism, possibilism, neo-determinism.

Suggested Readings-

PAPER- II
ELEMENTS OF GEOMORPHOLOGY
(Code- 102)
M.M. 50

UNIT- I  The nature and scope of Physical Geography; Interrelation of physical Geography with other branches of earth science. The place of geomorphology in Physical Geography.
UNIT- II  Geological time scale. Earth’s interior, Wegner’s theory of Continental Drift.
UNIT-IV  Earthquakes and volcanoes. Rocks- origin and composition of rocks.
UNIT- V  Weathering, formation of regolith and soils, rocks and relief.
Suggested Readings


PRACTICAL – I
(Code – 103)

M.M. 50
Marks 40

Scale – Plain, Time, Diagonal and Comparative. Representative Fraction. Methods of showing relief – hachures, contours; Representation of different landforms by contours, Drawing of profiles – serial, superimposed, projected and composite. Practical Record and Viva voce

Suggested Readings


7.
SEMESTER – II  
PAPER – III  
HUMAN GEOGRAPHY  
(Code – 201)  

UNIT – I  Definition and scope of Human Geography. Human Races-their characteristics and distribution.  

UNIT – II  Human adaptation to the environment; Eskimos, Bushman, Pigmy, Gond, Masai and Naga.  

UNIT – III  Growth of population; Distribution of Population, World Population pattern-physical, economic and social factors influencing spatial distribution, concept of over population, under population and optimum population.  

UNIT – IV  Migration- internal and international, Settlements-Types and patterns of settlements.  

UNIT – V  A brief historical overview of Geography as a discipline, recent trends in Geography with special reference to India.  

Suggested Readings:  

PAPER – IV
DYANAMIC GEOMORPHOLOGY
(Code – 202)

UNIT – I Geomorphic agents and processes-erosion, transportation and deposition, mass wasting.
UNIT – II Evolution of Landscape, concept of cycle of erosion.
UNIT – III Fluvial, Arid and Glacial Landscapes.
UNIT – IV Karst and Coastal Landscapes.

Suggested Readings-


PRACTICAL – II
(Code – 203)

A- CARTOGRAPHY

1. Line graph & Bar graph (Simple and Compound)
2. Circle Diagram, Pie diagram and Wind rose.

B. SURVEYING

Chain and Tape Survey.
Practical Record and Viva-voce
Suggested Readings

SEMESTER-III

PAPER – V
CLIMATOLOGY
(Code – 301)

UNIT – I Weathers and climate; definition and significance of climatology. Elements of weather and climate; their causes. Composition and structure of the atmosphere.


UNIT – III Atmospheric moisture: humidity, evaporation; and condensation; hydrological cycle; types of precipitation, world patterns of rainfall: regional and seasonal distribution. Atmospheric disturbances: tropical and temperate cyclones; thundersstorms and tornadoes.

UNIT – IV Climatic classification, basis of koppen’s classification and types-distribution characteristics and related plant and animal life.

UNIT – V Role of Climate in human life; Atmospheric pollution and global warming general causes, consequences and measures of control.

Suggested Readings

UNIT – I North America-structure, relief, climate and soils.
UNIT – III Major Crops; Agricultural belts of North America.
UNIT – IV Industries of North America (Iron & Steel, Cotton textile, Heavy Engineering Industries), Industrial Region,
UNIT – V Detailed study of the following regions of North America: California valley, New England Region, Lake Region, and Prairie Region.

Suggested Readings

11.

PRACTICAL – III
(Code – 303)

Distribution Maps: Dot, Choropleth & Isopleth
Map Projections: Definition and classification, Cylindrical projections-simple, equal area, Gall’s and Mercator’s projections.
Interpretation of Weather maps: Use of meteorological instruments.
Practical Record and viva-voce

Marks 10
Suggested Readings

6.
7.
SEMESTER – IV

PAPER – VII

OCEANOGRAPHY
(Code – 401)

M. M. 50

UNIT – I  Relevance of Oceanography in earth and atmospheric science. Definition and scope of oceanography and relationship with other discipline.

UNIT – II  Surface configuration of the ocean floor, continental shelf, continental slope, abyssal plain, mid-oceanic ridges and oceanic trenches.

UNIT – III  Relief of Atlantic, Pacific and Indian Oceans. Distribution of temperature and salinity of oceans and seas.

UNIT – IV  Circulation of oceanic waters: waves, tides and currents, currents of the Atlantic, Pacific and Indian Ocean.

UNIT – V  Ocean resources: fish, minerals, oil, transport and tourism, Ocean as storehouse of resources for the future.

Suggested Readings

12. 
13. 
UNIT – I   Structure, relief, climate and soils.
UNIT – II  Forests, Distribution and Production of Mineral and Energy Resources (Iron ore, Coal and Petroleum)
UNIT – III Major Crops; Rice Wheat, Rubber Tea, Jute.
UNIT – V   Detailed study of the following regions of Asia: Equatorial Region, Prairie Region, Hot Desert Region, and Mediterranean Coastal Region.

Suggested Readings


PRACTICAL – IV

(Code – 403)

M.M. 50

Marks 20

Statistical Methods

Measures of Dispersion Quartile: Mean deviation, standard deviation and Quartile deviation; Relative variability and co-efficient of variation.

Surveying

Marks 20

Prismatic Compass Survey: open and closed traverse, correction of bearing, calculation of interior angles.

Practical Record and viva-voce

Marks 10
Suggested Readings

SEMESTER – V
PAPER - IX
GEOGRAPHY OF RESOURCES
(Code – 501)  
M.M.100

UNIT – I  Meaning, nature and components of resources.
UNIT – II  Classification of resources: renewable and nonrenewable; biotic (forests, live-stock, fisheries, and abiotic (land water, mineral)
UNIT – III  Distribution and utilization of water mineral and energy resources, their significance and conservation. Types and distribution of forests, their significance and conservation.
UNIT – IV  Major soil types and their distribution; problems of soil erosion and soil conservation.
UNIT – V  Number, density, growth and distribution of population; population pressure and resource utilization.

Suggested Readings
UNIT – I  Physical features : Structure, Relief and Physiographic regions, Drainage, Climate (Origin and mechanism of monsoon, and regional and seasonal variation)

UNIT – II  Natural resources: Soils – types, their distribution and characteristics. Water resources (major irrigation and hydel power projects); Forests-types, distribution, economic significance and conservation.

UNIT – III  Mineral and Power resources-Iron-ore, Manganese, Copper, Coal, Petroleum and Natural gas, Non conventional sources of energy.

UNIT – IV  Cultural Features: Agriculture – Major crops, impact of green revolution and agricultural regions.


Suggested Reading

SEMESTER – V
PAPER – XI
FUNDAMENTAL OF POPULATION GEOGRAPHY
(Code – 503)

UNIT – I Definition, Nature & Scope of Population Geography; sources of data.
UNIT – II Spatial pattern of distribution – distribution, density and growth of population; determinants of work regional patterns.
UNIT – III Composition of Population: Age and Sex composition; rural-urban composition, economic composition; determinants; world regional patterns.
UNIT – IV Migration: Classification, determinants and consequences of migration; world regional patterns.

Suggested Readings

UNIT – I  Nature and scope of urban geography. Different approaches and recent trends in urban geography; attributes of urban places during ancient, medieval and modern period.

UNIT – II  Classification of urban settlements on the basis of size and function; Urban growth and theories. Central Place Theory of Christaller. Urban economic base: Basic and non-basic concept.

UNIT – III  Organization of urban space: urban morphology and landuse structure: city core, commercial, industrial and residential areas; city-region relations, morphology of urban settlements umland.

UNIT – IV  Contemporary urban issues: urban renewal, urban sprawl, slums; transportation, housing, urban infrastructure;

UNIT – V  Urban policy and planning; development of small and medium sized towns urban problems, urban landuse planning.

Selected Readings

6. Dwyer, D.J.(ed.) *The City as a Centre of Change in Asia*, University of Hong Kong Press, Hongkong, 1971.

**SEMESTER – V**
**PRACTICAL – V**
*(Code – 505)*

M.M.50

Band Graph, Hythergraph and Climograph Square root, cube-root and Vernier scales.
Map Projection: Conical Projection: one standard parallel, two standard parallels, Bonne’s Ployconic, Polar Zenithal Projections; Gnomonic, Stereographic and Orthographic.

**Suggested Reading**

7. Steers, J. A. *An Introduction to the Study of Map Projections*, Univ. of London Press.

UNIT – II Man environment interrelations with respect to population size, types of economy and technology.

UNIT – III Exploitation of natural resources and environmental hazards.

UNIT – IV Emerging environmental issues, deforestation, global warming, conservation of bio-diversity.

UNIT – V Environmental Pollution-Land, water and air pollution environmental management.

Suggested Readings


SEMESTER – VI  
PAPER – XIV  
GEOGRAPHY OF CHHATTISGARH  
(Code – 602)  
M.M.100

UNIT – I  Physical Features: Structure, Physiography, Drainage, Climate, Soils, Natural vegetation.

UNIT – II  Water resources-availability and development. Mineral and Power resources, Power projects.

UNIT – III  Cultural features:Agriculture and Industries.

UNIT – IV  Population-growth, distribution and density, social groups, literacy and sex-ratio, urbanization.

UNIT – V  Major tribes-their habitat, economy and society. Transport and Tourism.

Suggested Reading:


SEMESTER – VI  
PAPER – XV  
ECONOMIC GEOGRAPHY  
(Code – 603)  
M.M.100

UNIT – I  Definition, nature, scope and recent trends of economic geography, its relation with economics, and allied subject, Sectors of economy-primary, secondary and tertiary.

UNIT – II  Nature resources, classification-renewable and non-renewable-biotic and abiotic, Conservation of resources.

UNIT – III  Agriculture-physical, social, cultural environment influencing crop production; Spatial distribution of major food and cash crops of the world.


UNIT – V  Trade and Transport:geographical factors in their development, Major water, land and air transport. Internal and international trade.
Suggested Readings


SEMESTER – VI
PAPER – XVI
GEOGRAPHICAL INFORMATION SYSTEM & GPS
(Code – 604)

M.M.100

UNIT – I  GIS – Definition, scope and specific characteristics of Geographical Information system; its development in the world and in India. Relation of GIS with Cartography, Remote Sensing and Geography.

UNIT – II  Basic concepts and essential elements of GIS – Map concepts; geo-referencing; data types involved in GIS; types of data structures, their characteristics, and merits-demerits. Components of GIS. Methods of inputting data in GIS.

UNIT – III  Spatial H/W and S/W components of GIS. Integration of remote sensing data with GIS.

UNIT – IV  Digital terrain modeling and its application in GIS. Spatial analysis in GIS – Map overlay operations.

UNIT – V  Global Positioning System (GPS) – basic concepts and applications. Segments of GPS. Errors in GPS. GPS operations and methods. Mobile mapping systems.
Suggested Readings


SEMESTER – VI
PRACTICAL – VI
(Code – 605)
M.M.50

Study and Interpretation of Indian topographical sheets: classification and numbering system, Interpretation of topographical sheets with respect to cultural and physical features. Surveying – Plane Table Survey, Basic Principles of plane table surveying, Plane table survey including intersection and resection.

Suggested Readings

Cambridge International AS Level Geography is the first half of the Cambridge International A Level course in Geography and therefore provides a suitable foundation for the study of Geography at Cambridge International A Level and then for related courses in higher education. Depending on local university entrance requirements, the qualification may permit or assist progression directly to university courses in Geography or some other subjects. Wherever possible, learners should pursue a fully integrated course which allows them to develop their practical skills by carrying out fieldwork and geographical investigations within the Core geography topics and Advanced geography options chosen for study.