## SEMESTER I

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Theory Paper</th>
<th>Teaching Scheme (Hrs/Week)</th>
<th>Examination Scheme</th>
<th>Min. Passing Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Theory / Practical</td>
<td>Duration</td>
<td>External TH Marks (Univ)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hrs</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Paper – I - Core subject (History of Geographical Thoughts)</td>
<td>5</td>
<td>3</td>
<td>80</td>
</tr>
<tr>
<td>2</td>
<td>Paper - II- Core subject (Oceanography )</td>
<td>5</td>
<td>3</td>
<td>80</td>
</tr>
<tr>
<td>3</td>
<td>Paper - III- Core subject (Industrial Geography)</td>
<td>5</td>
<td>3</td>
<td>80</td>
</tr>
<tr>
<td>4</td>
<td>Paper - IV ( Practical II)</td>
<td>10</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>25</td>
<td>12</td>
</tr>
</tbody>
</table>

## SEMESTER II

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Theory Paper</th>
<th>Teaching Scheme (Hrs/Week)</th>
<th>Examination Scheme</th>
<th>Min. Passing Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Theory / Practical</td>
<td>Duration</td>
<td>External TH Marks (Univ)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hrs</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Paper - I - Core subject (Research Methodology)</td>
<td>5</td>
<td>3</td>
<td>80</td>
</tr>
<tr>
<td>2</td>
<td>Paper - II- Core subject (Geomorphology )</td>
<td>5</td>
<td>3</td>
<td>80</td>
</tr>
<tr>
<td>3</td>
<td>Paper - III- Core subject (Geography of Resources)</td>
<td>5</td>
<td>3</td>
<td>80</td>
</tr>
<tr>
<td>4</td>
<td>Paper - IV( Practical II)</td>
<td>10</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>25</td>
<td>12</td>
</tr>
</tbody>
</table>

## SEMESTER III

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Theory Paper</th>
<th>Teaching Scheme (Hrs/Week)</th>
<th>Examination Scheme</th>
<th>Min. Passing Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Theory / Practical</td>
<td>Duration</td>
<td>External TH Marks (Univ)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hrs</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Paper - I - Core subject (Geo. Of Manufacturing &amp; Transport)</td>
<td>5</td>
<td>3</td>
<td>80</td>
</tr>
<tr>
<td>2</td>
<td>Paper - II- Core subject (Agriculture Geo.)</td>
<td>5</td>
<td>3</td>
<td>80</td>
</tr>
<tr>
<td>3</td>
<td>Paper - III – Elective Subject (Population Geography) iii (Geography of tourism) iii (Bio- Geography)</td>
<td>5</td>
<td>3</td>
<td>80</td>
</tr>
<tr>
<td>4</td>
<td>Paper - IV( Practical III )</td>
<td>10</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>25</td>
<td>12</td>
</tr>
<tr>
<td>S.No.</td>
<td>Theory Paper</td>
<td>Teaching Scheme (Hrs/Week)</td>
<td>Examination Scheme</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>--------------</td>
<td>----------------------------</td>
<td>--------------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Theory / Practical</td>
<td>Duratio n Hrs</td>
<td>Max Marks</td>
</tr>
<tr>
<td>1</td>
<td>Paper - I - Core subject (Geography of Settlement)</td>
<td>5</td>
<td>3</td>
<td>80</td>
</tr>
<tr>
<td>2</td>
<td>Paper - II - Core subject (Social Geography)</td>
<td>5</td>
<td>3</td>
<td>80</td>
</tr>
<tr>
<td>3</td>
<td>Paper –III – Elective Subject- i (Regional Planning) ii (Environmental Geography) iii (Political Geography)</td>
<td>5</td>
<td>3</td>
<td>80</td>
</tr>
<tr>
<td>4</td>
<td>Paper - IV( Practical IV )</td>
<td>10</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>25</td>
<td>12</td>
<td>240</td>
</tr>
</tbody>
</table>
PATTERN OF EXAMINATION (ALL SEMESTERS)

Theory:

Three theory papers of 80 marks each and of three hours duration will be conducted at the end of each semester.

Practical’s:

1) One Practical examination of 100 marks and of six hours duration of each semester will be conducted at the end of the same semester.
2) Practical examinations of all four semesters will be conducted by internal and External examiners appointed by the University.

Internal Assessment:

1) Head of the department will carry out internal assessment of the students on the basis of evaluation report from the concerned teacher/teachers, under the supervision of the principal of the college and will be done at the end of each semester.
2) Distribution of 20 marks of internal assessment is as under –
   i) Class Attendance 05 marks
   ii) Home Assignment 05 marks
   iii) Group discussion / seminar/ 10 marks

Geographical activities etc.

Pattern of Question Paper

Que 1: A) from unit I
      OR
      B) from unit II

Que 2: A) from unit III
      OR
      B) from unit IV

Que 3: A) from unit I
       B) from unit I
       OR
       C) from unit II
       D) from unit II

Que 4: A) from unit III
       B) from unit III
       OR

Marks 20

Marks 20

Marks 20

(10 mark each)

(10 mark each)
Rules and Regulation

1. There will be five periods per week for theory papers.
2. The batch of Practical class should not be exceeding 10 students.
3. The minimum passing marks of Theory paper and internal Assessment is 40
4. The minimum passing marks of Practical examination is 40
5. Marks will not be allotted to student if he found absent in study tour.

CERTIFICATE
Department of Geography

Name of College……………………………………………………………………………….

This is to certify that this practical record is the Original practical works of

Shri/ Kumari/ Smt.  ……………………………………………………………………………

Class……… Semester……….. During the academic year.

He/she has attended/ not attained the field work/ Study tour prescribed by the

Gondwana University Gadchiroli.

Signature of the teacher who taught the examinee.

1) ………………………………………

2) ………………………………………

Head of the Department
Master of Arts (Choice Based Credit System Semester Pattern)

**M. A. Geography**

**Semester - I**

Total Marks=100 Marks  
PAPER – I (Core Subject)

Semester Examination = 80 Marks  
Internal Assessment = 20 Marks

**History of Geographical Thoughts**

**Unit – I**
The field of geography, its place in the classification of sciences; geography as a social science and natural science. Selected concepts in Philosophy of geography, distributions, relationship, interaction, areal differentiation and spatial organization.

**Unit – II**

**Unit – III**
Dualism in geography; systematic and regional geography; physical and human geography; the myth and reality about dualism; Regional geography; Concept of region and regionalization and the regional method.

**Unit – IV**
Scientific explanations: routes to the scientific explanations (Inductive/Deductive); types of explanations; cognitive description; cause and effect; temporal; functional; ecological system. Laws, theories and models, the quantitative revolution.

**Suggested Reading:**
Semester - I
Marks- 100
Semester Examination=80Marks
Internal Assessment=20 Marks

OCEANOGRAPHY

Unit – I
Nature and scope of oceanography, History of oceanography. Distribution of land and water; major features of ocean basins, continental margin and deep ocean basins.

Unit – II
Physical and chemical properties of sea water: distribution of Temperature and salinity of oceans and sea. Surface currents – currents of the Atlantic, Pacific and Indian Oceans, thermohaline, waves and tides.

Unit – III
Major Marine Environment, impact of human on Marine Environment, Marine Pollution – causes, Marine Deposits and formation of coral reefs.

Unit – IV
Applied Oceanography – Marine life – factor of Marine Environment, Marine Biozones, law of the sea; exclusive economic zone, Food and Mineral resources of the sea, Oceans and world Geopolitics.

Suggested reading:


Savindra Singh: Oceanography

Lal : Oceanography


UNIT III: - Agro Based Industry- Sugar Industry, Textile industry - affecting factors, role of transportable in the industrialization, Rubber and Tea – industry

UNIT- IV :- Pattern of manufacturing in the world and India - their distribution – industrial regions.

Suggested Reading:-

4. Sinha B.N. Industrial Geography of india the world press Calcutta

Sd -

B.O.S Chairman
Semester - I

Marks- 100

PAPER – IV

PRACTICAL – I

1. Preparation and interpretation of the following maps and diagrams. (20 Marks – 2 Periods)
   
   **Group A**
   
   Marks
   
   i. Equivariable
   ii. Equipluves
   iii. Frequency graph
   iv. Rainfall dispersion diagram
   v. Running mean
   vi. Wind rose and compound wind rose
   
   **Group B**
   
   Marks
   
   i. Water budget graph
   ii. Climatograph
   iii. Hythergraph
   iv. Taylor’s Climograph
   v. Compound columnar graph
   vi. Index of aridity and index of moisture

2. Study of Indian daily weather map and weather analysis. (15 Marks – 2 Periods)
   
   Study and interpretation of at least four maps of India pertaining to –
   (a) S. W. Monsoon Season
   (b) Summer season
   (c) Transition period
   (d) Cyclonic

3. Advanced techniques of spatial analysis:
   (a) **Remote sensing** (15 Marks – 2 Periods)
   
   Definition of remote sensing. Remote sensing platforms and scanners. Electromagnetic radiation and physics of remote sensing. Arial remote sensing data products - Arial
photographs, types, scales, displacement, parallax, aerial mosaics, radial line methods (graphical) (exercise).

(b) **Geographical information system** (10 Marks – 2 Periods)

4. **Excursion:** (20 Marks – 2 Periods)
Visit to any plain, plateau, hilly, coastal area, Mines, Forest, Tiger Project, National Park, Sanaturies, Dams, meteorological centre and submit a report with photographs.

5. **Viva Voce** (10 Marks)

6. **Practical Record** (10 Marks)

**Suggested Reading**


Clendinning J (1985): Principal and use of Surveying Instruments 2nd edition Blockie A


Hotine, Major M.(1935) : The re-triangulation of Great Britain Empire Survey Review


Mcmillan Co. New Delhi


Semester - II

Marks - 100

Semester Examination = 80 marks
Internal Assessment = 20 marks

PAPER – I (Core Subject)

RESEARCH METHODOLOGY

Unit - I
Meaning, origin of research, research design, Types of research methods – Formulation of research problem – Objectives and hypotheses: testing of hypotheses.

Unit - II
Characteristics of geographical data – Measurement of data: Primary and secondary data – Sources of data: traditional and modern – Data compilation. Primary data collection: census and sampling methods – Types of sampling – Spatial adaptation of sampling techniques – Data collection techniques through field work and questionnaires.

Unit - III
Data processing: classification and tabulation – Cartographic representation of data – Descriptive and inferential statistics – Functional and spatial interpretation of the results.

Unit - IV
Preparation of project report: basic heads- Introduction to the problem- Results of analysis- Summary of findings in the light of the hypotheses- Conclusion. Writing of references, Bibliography.

Suggested reading:

Mishra R.P: Research methodology

Bhandarkar: Research methodology in social science

Kothari : Research Methodology

Semester - II

Marks-100
Semester Examination=80 Marks
Internal Assessment = 20 Marks

PAPER – II (Core Subject)

GEOMORPHOLOGY

Unit - I
Nature and scope of geomorphology, Geological structures and landforms. Uniformitarianism; multicyclic and polygenetic evolution of landscape; concept of threshold; environmental change – climatic change and geocronological methods- documentary evidence, artifacts, major horizons, dendrocrnology, pollen, thermoluminescence.

Unit - II
Earth movements-epirogenic, orogenic and cymatogenic earth movements. Forces of crustal instability, isostacy, plate tectonics, seismicity, volcano city, orogenic structures with reference to the evolution of Himalayas.

Unit - III
Exogenic processes: Concept of gradation, agents and processes of gradation, causes, types of weathering, mass movement, erosional and depositional processes and resultant landforms and soil formation, slope evolution, down wearing, parallel retreat and replacement models.

Unit - IV
Geomorphic processes: dynamics of fluvial, glacial, Aeolian marine and karsts processes and resulting landforms; complexities in geomorphologic processes; Erosion surfaces-techniques of identification and correlation. Application of geomorphic mapping, terrain evaluation, land capability and land suitability, classification, urban geomorphology and geomorphic hazards.

Suggested Reading:

2. Dr,V,S.Kale& Abhijit Gupta: Introduction to Geomorphism
Semester - II

Marks-100
Semester Examination=80 Marks
Internal Assessment = 20 Marks

PAPER – III (Core Subject)

Geography of Resource

Unit I :- Nature and scope of Geography of Resource, Significance of Resource, Concept of Resource, utilization of Resources; factors affecting on utilization of Resources classification of Resources.

Unit II :- Natural Resources – Renewable resources.

Land – a Resources, soil formation and composition, classification of soil, world soil distribution soil erosion, causes soil, conservation importance, water resources – distribution economic relation of man and water resources water conservation.


Unit :- Priotic Resources – ocean as a resources, Animal resources, forest Resources – use of forest resources, type of forest, forest conservation man as a resources, distribution of Human resources problems of population and resources. Agriculture Resources – factors affecting on agriculture. Type of Agriculture, major crop wheat, Rice, corn, Tea, cotton sugarcane.

Reference :

1) Economic Geography – Alexander J.
2) Economic Geography – B. Agunachalam
3) Basic of Economic Geography – Boyce, Renold, Red.
4) Economic and commercial Geography - Dasgupta.
6) Economic Geography – H. Robinson
7) Economic Geography – Jones and Darkenwald
9) Geography of Resources – Balbir Negi.
10) Geography of Resources – M.P. Karan.
11) Geography of Resources – Dr. Kaushik.
Semester - II
Marks-100

PAPER – IV

PRACTICAL – II

1. Basics of computer system: Application in geographical studies. (10 Marks – 2 Periods)
   Theoretical aspect of computer system

2. Study of topographical maps (15 Marks – 2 Periods)
   Interpretation of maps: Topographical maps.
   Aspects of Physical and Human Environment.
   (Note: - Teachers should select Topographical maps from plains, plateaus, mountains and coastal regions of India.)

3. Measurement of area by graphical methods. (10 Marks – 2 Periods)

4. Morphometric measurement (45 Marks – 4 Periods)
   (A) Graphical methods. (10 Marks)
      i) Serial profile
      ii) Superimposed profile
      iii) Projected profile
      iv) Composite profile
      v) Longitudinal profile
      vi) Transverse profile

   (B) Slope analysis by using the following methods. (15 Marks)
      i) Wentworth’s method
      ii) Raisz and Henry’s method
      iii) G. H. method

   (C) Drawing and interpretation of following graphs. (10 Marks)
      i) Hypsographic curve
      ii) Altimetric Frequency graph
      iii) Area Height Diagram

   (D) Drainage basin analysis (10 Marks)
      i) Determination of stream order
      ii) Stream length and determination of basin area
      iii) Drainage density and texture of topography

   E) Viva (10 Marks)

   (F) Practical record (10 Marks)
Suggested Readings:


Clendinning J (1985): Principal and use of Surveying Instruments 2nd edition Blockie A


Hotine, Major M. (1935): The re-triangulation of Great Britain Empire Survey Review


Mcmillan Co. New Delhi


Monkhouse F.J (1971) Maps and Diagram, Methuen


Singh, R.L. and Dutt P.K. (1968): Elements of Practical Geography, Students Friends, Allahabad
Singh and Kanojiya (1972): Map work and practical Geography central Book depot, Allahabad