



**MODIFIED CBCS CURRICULUM OF
GEOGRAPHY HONOURS PROGRAMME**

SUBJECT CODE = 05

FOR UNDER GRADUATE COURSES UNDER RANCHI UNIVERSITY



Implemented from
Academic Session 2017-2020 & 2018-2021

COURSES OF STUDY FOR **GENERIC ELECTIVE 'B. A. Hons'** PROGRAMME IN
"GEOGRAPHY"

SEMESTER I**GENERIC ELECTIVE****1 Paper**

Total 100 x 1 = 100 Marks

I. GENERIC ELECTIVE (GE 1)

(Credits: Theory-04, Practicals-02)

- All Four Generic Papers (One paper to be studied in each semester) of Geography to be studied by the Students of **Other than Geography Honours**.
- Students of **Geography Honours** must Refer Content from the **Syllabus of Opted Generic Elective Subject**.

Marks : 75 (ESE: 3Hrs) + 25 (Pr 3Hrs)=100	Pass Marks: Th ESE = 30 + Pr ESE =10
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***Instruction to Question Setter for
 End Semester Examination (ESE):***

There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

GEOMORPHOLOGY**Theory: 60 Lectures**

1. Geomorphology: Nature and Scope.
2. Earth: Interior Structure and Isostasy.
3. Earth Movements: Plate Tectonics, Types of Folds and Faults, Earthquakes and Volcanoes
4. Geomorphic Processes: Weathering, Cycle of Erosion (Davis).
5. Evolution of Landforms (Erosional and Depositional): Fluvial, Karst, Aeolian and Glacial.

Reading List

- Bloom A. L., 2003: *Geomorphology: A Systematic Analysis of Late Cenozoic Landforms*, Prentice-Hall of India, New Delhi.
- Bridges E. M., 1990: *World Geomorphology*, Cambridge University Press, Cambridge.
- Christopherson, Robert W., (2011), *Geosystems: An Introduction to Physical Geography*, 8 Ed., Macmillan Publishing Company
- Kale V. S. and Gupta A., 2001: *Introduction to Geomorphology*, Orient Longman, Hyderabad.
- Knighton A. D., 1984: *Fluvial Forms and Processes*, Edward Arnold Publishers, London.
- Richards K. S., 1982: *Rivers: Form and Processes in Alluvial Channels*, Methuen, London.
- Selby, M.J., (2005), *Earth's Changing Surface*, Indian Edition, OUP
- Skinner, Brian J. and Stephen C. Porter (2000), *The Dynamic Earth: An Introduction to physical Geology*, 4th Edition, John Wiley and Sons
- Thornbury W. D., 1968: *Principles of Geomorphology*, Wiley.
- Gautam, A (2010): *Bhautik Bhugol*, Rastogi Publications, Meerut
- Tikkaa, R N (1989): *Bhautik Bhugol ka Swaroop*, Kedarnath Ram Nath, Meerut
- Singh, S (2009): *Bhautik Bhugol ka Swaroop*, Prayag Pustak, Allahabad
- Tiwary Ram Kumar, *Bhautik bhugol*, Rajasthan Hindi Granth Academy, Jaipur

GEOGRAPHY PRACTICAL- GE 1 LAB**60 Lectures****Marks : Pr (ESE: 3Hrs) =25****Pass Marks: Pr (ESE) = 10*****Instruction to Question Setter for******End Semester Examination (ESE):***

There will be one Practical Examination of 3Hrs duration. Evaluation of Practical Examination may be as per the following guidelines:

<i>Experiment</i>	<i>= 15 marks</i>
<i>Practical record notebook</i>	<i>= 5 marks</i>
<i>Viva-voce</i>	<i>= 5 marks</i>

CARTOGRAPHIC TECHNIQUES

1. Scales – Concept and application; Graphical Construction of Plain
2. Map Projections – Classification, Properties and Uses; Graphical Construction of Polar Zenithal Stereographic Projection, Simple Conical Projection with One standard parallel and Two standard parallel, Bonne's Projections.

Reading List

- 1. Anson R. and Ormelling F. J., 1994: *International Cartographic Association: Basic Cartographic Vol.* Pregmen Press.
- 2. Gupta K.K. and Tyagi, V. C., 1992: *Working with Map*, Survey of India, DST, New Delhi.
- 3. Mishra R.P. and Ramesh, A., 1989: *Fundamentals of Cartography*, Concept, New Delhi.
- 4. Monkhouse F. J. and Wilkinson H. R., 1973: *Maps and Diagrams*, Methuen, London.
- Rhind D. W. and Taylor D. R. F., (eds.), 1989: *Cartography: Past, Present and Future*, Elsevier, International Cartographic Association.
- Robinson A. H., 2009: *Elements of Cartography*, John Wiley and Sons, New York.
- Sharma J. P., 2010: *Prayogic Bhugol*, Rastogi Publishers, Meerut.
- Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers.
- Sarkar, A. (2015) *Practical geography: A systematic approach*. Orient Black Swan Private Ltd., New Delhi
- Singh R L & Rana P B Singh (1991) *Prayogtmak Bhugol ke Mool Tatva*, Kalyani Publishers, New Delhi
- Sharma, J P (2010) *Prayogtmak Bhugol ki Rooprekha*, Rastogi Publications, Meerut
- Singh, R L & Dutta, P K (2012) *Prayogtmak Bhugol*, Central Book Depot, Allahabad

SEMESTER II**GENERIC ELECTIVE****1 Paper****Total 100 x 1 = 100 Marks****II. GENERIC ELECTIVE (GE 2)**

(Credits: Theory-04, Practicals-02)

Marks : 75 (ESE: 3Hrs) + 25 (Pr 3Hrs)=100**Pass Marks: Th ESE = 30 + Pr ESE =10*****Instruction to Question Setter for******End Semester Examination (ESE):***

*There will be two group of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to answer.*

***Note:** There may be subdivisions in each question asked in Theory Examinations.*

HUMAN GEOGRAPHY**Theory: 60 Lectures**

1. Introduction: Defining Human Geography; Major Themes; Contemporary Relevance
2. Space and Society: Cultural Regions; Race; Religion and Language
3. Population: Population Growth and Distribution; Population Composition; Demographic Transition Theory
4. Settlements: Types of Rural Settlements; Classification of Urban Settlements.
5. Population-Resource Relationship

Reading List

- Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
- Hassan, M.I. (2005) Population Geography, Rawat Publications, Jaipur
- Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd, London.
- Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication.
- Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.
- Kaushik, S.D. (2010) Manav Bhugol, Rastogi Publication, Meerut.
- Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad.
- Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur

GEOGRAPHY PRACTICAL- GE2 LAB**60 Lectures****Marks : Pr (ESE: 3Hrs) =25****Pass Marks: Pr (ESE) = 10*****Instruction to Question Setter for******End Semester Examination (ESE):***

There will be one Practical Examination of 3Hrs duration. Evaluation of Practical Examination may be as per the following guidelines:

<i>Experiment</i>	<i>= 15 marks</i>
<i>Practical record notebook</i>	<i>= 5 marks</i>
<i>Viva-voce</i>	<i>= 5 marks</i>

PRACTICAL- THEMATIC CARTOGRAPHY

1. Diagrammatic Data Presentation – Line, Bar and Circle.
2. Thematic Mapping Techniques – Properties, Uses and Limitations; Areal Data -- Choropleth, Dot, Proportional Circles; Point Data – Isopleths.

Reading List

- Cuff J. D. and Mattson M. T., 1982: *Thematic Maps: Their Design and Production*, Methuen Young Books
- Dent B. D., Torguson J. S., and Holder T. W., 2008: *Cartography: Thematic Map Design* (6th Edition), Mcgraw-Hill Higher Education
- Gupta K. K. and Tyagi V. C., 1992: *Working with Maps*, Survey of India, DST, New Delhi.
- Kraak M.-J. and Ormeling F., 2003: *Cartography: Visualization of Geo-Spatial Data*, Prentice-Hall.
- Mishra R. P. and Ramesh A., 1989: *Fundamentals of Cartography*, Concept, New Delhi.
- Sharma J. P., 2010: *Prayogic Bhugol*, Rastogi Publishers, Meerut.
- Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers.
- Slocum T. A., McMaster R. B. and Kessler F. C., 2008: *Thematic Cartography and Geovisualization*(3rd Edition), Prentice Hall.
- Tyner J. A., 2010: *Principles of Map Design*, The Guilford Press.
- Sarkar, A. (2015) *Practical geography: A systematic approach*. Orient Black Swan Private Ltd., NewDelhi
- Singh, L R & Singh R (1977): *Manchitra or Pryaogatamek Bhugol* , Central Book, Depot, Allahabad
- Bhopal Singh R L and Dutta P K (2012) *Prayogatama Bhugol*, Central Book Depot, Allahabad.

SEMESTER III**GENERIC ELECTIVE****1 Paper****Total 100 x 1 = 100 Marks****III. GENERIC ELECTIVE (GE 3)**

(Credits: Theory-04, Practicals-02)

Marks : 100 (ESE: 3Hrs) =100**Pass Marks: Th ESE = 40*****Instruction to Question Setter for******End Semester Examination (ESE):***

*There will be two group of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No.2 & 3 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of twenty marks each, out of which any four are to answer.*

***Note:** There may be subdivisions in each question asked in Theory Examinations.*

CLIMATOLOGY**Theory: 60 Lectures**

1. Atmospheric Composition and Structure – Variation with Altitude, Latitude and Season.
2. Insolation and Temperature – Factors and Distribution, Heat Budget, Temperature Inversion.
3. Atmospheric Pressure and Winds – Planetary Winds, Forces affecting Winds, General Circulation, Jet Streams.
4. Atmospheric Moisture – Evaporation, Humidity, Condensation, Fog and Clouds, Precipitation Types, Stability and Instability; Climatic Regions (Koppen)
5. Cyclones – Tropical Cyclones, Extra Tropical Cyclones, Monsoon - Origin and Mechanism.

Reading List

- Barry R. G. and Carleton A. M., 2001: *Synoptic and Dynamic Climatology*, Routledge, UK.
- Barry R. G. and Corley R. J., 1998: *Atmosphere, Weather and Climate*, Routledge, New York.
- Critchfield H. J., 1987: *General Climatology*, Prentice-Hall of India, New Delhi
- Lutgens F. K., Tarbuck E. J. and Tasa D., 2009: *The Atmosphere: An Introduction to Meteorology*, Prentice-Hall, Englewood Cliffs, New Jersey.
- Oliver J. E. and Hidore J. J., 2002: *Climatology: An Atmospheric Science*, Pearson Education, New Delhi.
- Trewartha G. T. and Horne L. H., 1980: *An Introduction to Climate*, McGraw-Hill.
- Gupta L S(2000): *Jalvayu Vigyan*, Hindi Madhyam Karyanvay Nidishalya, Delhi Vishwa Vidhyalaya, Delhi
- Lal, D S (2006): *Jalvayu Vigyan*, Prayag Pustak Bhavan, Allahabad
- Vatal, M (1986): *Bhautik Bhugol*, Central Book Depot, Allahabad
- Singh, S (2009): *Jalvayu Vigyan*, Prayag Pustak Bhawan, Allahabad

GEOGRAPHY PRACTICAL- GE3 LAB**60 Lectures****Marks : Pr (ESE: 3Hrs) =25****Pass Marks: Pr (ESE) = 10*****Instruction to Question Setter for******End Semester Examination (ESE):***

There will be one Practical Examination of 3Hrs duration. Evaluation of Practical Examination may be as per the following guidelines:

<i>Experiment</i>	<i>= 15 marks</i>
<i>Practical record notebook</i>	<i>= 5 marks</i>
<i>Viva-voce</i>	<i>= 5 marks</i>

PRACTICAL- STATISTICAL METHODS IN GEOGRAPHY

1. Tabulation and Descriptive Statistics: Frequencies (Deciles, Quartiles), Cross Tabulation,
2. Central Tendency (Mean, Median and Mode)
3. Dispersion (Standard Deviation, Variance and Coefficient of Variation) Scattered diagram, Histogram, Frequency Polygon & Frequency Curve

Class Record: Each student will submit a record containing five exercises:

1. Measures of central tendency and dispersion would be computed and interpreted for any two attributes.
2. Histograms and frequency curve would be prepared **and** interpreted for one or two variables.
3. Based on of the sample set and using two relevant attributes, a scatter and regression line would be plotted and mapped with a short interpretation.

Reading List

- Berry B. J. L. and Marble D. F. (eds.): *Spatial Analysis – A Reader in Geography*.
- Ebdon D., 1977: *Statistics in Geography: A Practical Approach*.
- Hammond P. and Mc Cullagh P. S., 1978: *Quantitative Techniques in Geography: An Introduction*, Oxford University Press.
- King L. S., 1969: *Statistical Analysis in Geography*, Prentice-Hall.
- Mahmood A., 1977: *Statistical Methods in Geographical Studies*, Concept.
- Pal S. K., 1998: *Statistics for Geoscientists*, Tata McGraw Hill, New Delhi.
- Sarkar, A. (2013) *Quantitative geography: techniques and presentations*. Orient Black Swan PrivateLtd., New Delhi
- Silk J., 1979: *Statistical Concepts in Geography*, Allen and Unwin, London.
- Spiegel M. R.: *Statistics, Schaum's Outline Series*.
- Yeates M., 1974: *An Introduction to Quantitative Analysis in Human Geography*, McGraw Hill, NewYork.
- Shinha, Indira (2007) *Sankhyiki bhugol*. Discovery Publishing House, New Delhi

SEMESTER IV**GENERIC ELECTIVE****1 Paper****Total 100 x 1 = 100 Marks****IV. GENERIC ELECTIVE (GE 4)**

(Credits: Theory-04, Practicals-02)

Marks : 75 (ESE: 3Hrs) + 25 (Pr 3Hrs)=100**Pass Marks: Th ESE = 30 + Pr ESE =10*****Instruction to Question Setter for******End Semester Examination (ESE):***

There will be **two** group of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

ECONOMIC GEOGRAPHY**Theory: 60 Lectures**

1. Introduction: Concept and classification of economic activity
2. Factors Affecting location of Economic Activity with special reference to Agriculture (Von Thunen theory), Industry (Weber's theory).
3. Primary Activities: Subsistence and Commercial agriculture, forestry, fishing and mining.
4. Secondary Activities: Manufacturing (Cotton Textile, Iron and Steel- with reference to world), Concept of Manufacturing Regions, Special Economic Zones
5. Tertiary Activities: Transport, Trade and Services.

Reading List

- Alexander J. W., 1963: *Economic Geography*, Prentice-Hall Inc., Englewood Cliffs, New Jersey.
- Coe N. M., Kelly P. F. and Yeung H. W., 2007: *Economic Geography: A Contemporary Introduction*, Wiley-Blackwell.
- Hodder B. W. and Lee Roger, 1974: *Economic Geography*, Taylor and Francis.
- Combes P., Mayer T. and Thisse J. F., 2008: *Economic Geography: The Integration of Regions and Nations*, Princeton University Press.
- Wheeler J. O., 1998: *Economic Geography*, Wiley.
- Durand L., 1961: *Economic Geography*, Crowell.
- Bagchi-Sen S. and Smith H. L., 2006: *Economic Geography: Past, Present and Future*, Taylor and Francis.
- Willington D. E., 2008: *Economic Geography*, Husband Press.
- Clark, Gordon L.; Feldman, M.P. and Gertler, M.S., eds. 2000: *The Oxford*

GEOGRAPHY PRACTICAL- GE4 LAB**60 Lectures****Marks : Pr (ESE: 3Hrs) =25****Pass Marks: Pr (ESE) = 10*****Instruction to Question Setter for******End Semester Examination (ESE):***

There will be one Practical Examination of 3Hrs duration. Evaluation of Practical Examination may be as per the following guidelines:

<i>Experiment</i>	<i>= 15 marks</i>
<i>Practical record notebook</i>	<i>= 5 marks</i>
<i>Viva-voce</i>	<i>= 5 marks</i>

INSTRUMENTAL SURVEY

1. Plane Table: Radiation, Intersection Method.
2. Prismatic Compass: Open & Closed Traverse.

Reading List:

- Misra, R.P & Ramesh A: (1986): Fundamentals of Cartography, McMillan Co.New Delhi
 - Robinson A.H (1995) Elements of Cartography John Wiley & Sons USA
 - Sarkar A.K.(1997): Practical Geography :A Systematic Approach, Oriental Longman Calcutta
 - Sharma J.P.(2010): Prayogatmak Bhugol, Sahitya Bhawan
-