Modules of Classes and Examinations, 2020-21

B.A / B.Sc. (Honours) In Geography

Semester-I

Hiralal Bhakat College, Nalhati

Core Course 1 Geotectonics and Geomorphology

- Total 75 Marks
- 60 Marks for Semester-end-Examination[#] (will be organized by University)
- 10+5=15 Marks for Internal Assessment (will be organized by College in general and Department in Particular)
- 10 Marks for Assignment
- 5 Marks for Attendence

  Attendence: 50% & above but below 60% - 2 Marks
  Attendence: 60% & above but below 75% - 3 Marks
  Attendence: 75% & above but below 90% - 4 Marks
  Attendence: 90% & Above - 5 Marks

Internal Assessment	**Component 1 (C_1)**	**Component 2 (C_2)**
Weightage	5 Marks	5 Marks
Number of Questions	1	1
Date	6.10.2020	6.10.2020
Time	12-12.30 pm	12-12.30 pm
Syllabus	1. Earth's techtonic and structural evolution with reference to geological time scale. 2. Earth's interior with special reference to Seismology. 3. Concept of Isostasy: Theories of Airy and Pratt. 4. Degradational Process: Weathering, Mass Wasting and resultant landforms.	1. Earth's techtonic and structural evolutionwith reference to geological time scale . 2. Earth's interior with special reference to seismology. 3. Concept of Isostacy: Theories and Airy and Pratt. 4. Degradational Process: Weathering, Mass Wasting and resultant Landforms. 5. Slope Development: Concept of Wood. 6. Plate Tectonics: Processes at constructive, conservative, destructive boundaries and hotspots: resulting landforms. 7. Development of river network and landforms on uniclinal and folded structures

		8. Models of landscape evolution: Views of Davis, Penck, and Hack
Name of Teacher(s)	IM, RIS, ND, BM, CG, BS, SG	IM, RIS, ND, BM, CG, BS, SG
Number of Classes	64 (Tentative)	128 (Tentative)

#Component 3 (C_3)

- Whole Syllabus of CC 1

- 60Marks for Semester-end-Examination (will be organized by University)
- Answer 10 questions out of 15 carrying 02 marks each = 10 x 02 = 20 marks
- Answer 04 questions out of 06 carrying 05 marks each = 04 x 05 = 20 marks
- Answer 02 questions out of 04 carrying 10 marks each = 02 x 10 = 20 marks

Core Course 2 Cartographic Techniques and Geological map study

- Total 75 Marks
- 40 Marks(Theory) + 20 Marks (Practical) for Semester-end-Examination# (will be organized by University)
- 10+5=15 Marks for Internal Assessment (will be organized by College in general and Department in Particular)
- 10 Marks for Assignment
- 5 Marks for Attendence

  Attendence: 50% & above but below 60% - 2 Marks
  Attendence: 60% & above but below 75% - 3 Marks
  Attendence: 75% & above but below 90% - 4 Marks
  Attendence: 90% & Above - 5 Marks

Internal Assessment	**Component 1 (C_1)**	**Component 2 (C_2)**
Weightage	5 Marks	5 Marks
Number of Questions	1	1
Date	6.10.2020	6.10.2020
Time	12-12.30 pm	12-12.30 pm
Syllabus	1. Maps: Classification and Types. Components of a Map 2. Concept of Scales: Plain, Comparative, Diagonal and Vernier 3. Coordinate Systems: Polar	1. Maps: Classification and Types. Components of a Map 2. Concept of Scales: Plain, Comparative, Diagonal and Vernier

	and Rectangular. Concept of Geoid and Spheroid. Map Projections: Classification, Properties and Uses. Concept and Significance of UTM Projection 4. Concept of Generating Globe, Grids: Angular and Linear Systems of Measurement	3. Coordinate Systems: Polar and Rectangular. Concept of Geoid and Spheroid.Map Projections: Classification, Properties and Uses. Concept and Significance of UTM Projection. 4. Concept of Generating Globe, Grids: Angular and Linear Systems of Measurement 5. Construction of Scales: Plain, Comparative, Diagonal and Vernier 6. Concept of Generating Globe, Grids: Angular and Linear Systems of Measurement 7. 7. Construction of Projections: Polar Zenithal Stereographic, Simple Conic with two Standard Parallels, Bonne's and Mercator's
Name of Teacher(s)	IM, RIS, ND, BM, CG, BS, SG	IM, RIS, ND, BM, CG, BS, SG
Number of Classes	64 (Tentative)	128 (Tentative)

#Component 3 (C_3)

- Whole Syllabus of CC 2
- Theory (Cartographic Techniques and Geological Map Study) = 40 Marks
  Answer 05 questions out of 08 carrying 02 marks each = 05 x 02 = 10 marks
  Answer 02 questions out of 04 carrying 05 marks each = 02 x 05 = 10 marks
  Answer 02 questions out of 04 carrying 10 marks each = 02 x 10 = 20 marks
- Practical (Cartographic Techniques and Geological map study) = 20 Marks
  Laboratory Note Book: 05 Marks
  Viva- voce: 05 Marks
  Experiment: 40 Marks (This 40 marks will be transformed into 10 Marks)
- A project File (Laboratory Note Book), comprising one exercise each is to be submitted.

Modules of Classes and Examinations, 2020-21

B.A / B.Sc. (Honours) in Geography

Semester-III

Hiralal Bhakat College, Nalhati

Core Course 5 Climatology

- Total 75 Marks
- 60 Marks for Semester-end-Examination[#] (will be organized by University)
- 10+5=15 Marks for Internal Assessment (will be organized by College in general and Department in Particular)
- 10 Marks for Assignment
- 5 Marks for Attendence

  Attendence: 50% & above but below 60% - 2 Marks
  Attendence: 60% & above but below 75% - 3 Marks
  Attendence: 75% & above but below 90% - 4 Marks
  Attendence: 90% & Above - 5 Marks

Internal Assessment	**Component 1 (C_1)**	**Component 2 (C_2)**
Weightage	5 Marks	5 Marks
Number of Questions	1	1
Date	7.10.2020	7.10.2020
Time	12-12.30 pm	12-12.30 pm
Syllabus	1. Nature, composition and layering of the atmosphere, 2. Insolation: controlling factors. Heat budget of the atmosphere. 3. Temperature: horizontal and vertical distribution. Inversion of temperature: types, causes and consequences. 4. Condensation: Processes and forms. Mechanism of precipitation: Bergeron-Findeisen theory, collision and coalescence. Forms of precipitation.	1. Nature, composition and layering of the atmosphere, 2. Insolation: controlling factors. Heat budget of the atmosphere. 3. Temperature: horizontal and vertical distribution. Inversion of temperature: types, causes and consequences. 4. Greenhouse effect and importance of ozone layer 5. Condensation: Processes and forms. Mechanism of precipitation: Bergeron-Findeisen theory, collision and coalescence. Forms of precipitation. 6. Air mass: Typology, origin, characteristics and modification. 7. Fronts: warm and cold; frontogenesis and frontolysis. 8. Tropical and mid-latitude cyclones

Name of Teacher(s)	IM, RIS, ND, BM, CG, BS, SG	IM, RIS, ND, BM, CG, BS, SG
Number of Classes	64 (Tentative)	128 (Tentative)

#Component 3 (C_3)

- Whole Syllabus of CC 5

- 60 Marks for Semester-end-Examination (will be organized by University)
- Answer 10 questions out of 15 carrying 02 marks each = 10 x 02 = 20 marks
- Answer 04 questions out of 06 carrying 05 marks each = 04 x 05 = 20 marks
- Answer 02 questions out of 04 carrying 10 marks each = 02 x 10 = 20 marks

Core Course 6 Statistical Methods in Geography

- Total 75 Marks
- 40 Marks(Theory) + 20 Marks (Practical) for Semester-end-Examination# (will be organized by University)
- 10+5=15 Marks for Internal Assessment (will be organized by College in general and Department in Particular)
- 10 Marks for Assignment
- 5 Marks for Attendence

  Attendence: 50% & above but below 60% - 2 Marks
  Attendence: 60% & above but below 75% - 3 Marks
  Attendence: 75% & above but below 90% - 4 Marks
  Attendence: 90% & Above - 5 Marks

Internal Assessment	**Component 1 (C_1)**	**Component 2 (C_2)**
Weightage	5 Marks	5 Marks
Number of Questions	1	1
Date	7.10.2020	7.10.2020
Time	12-12.30 pm	12-12.30 pm

Syllabus	1. Importance and significance of Statistics in Geography. Discrete and continuous data, population and samples, scales of measurement (nominal, ordinal, interval and ratio), sources of data 2. Collection of data and formation of statistical tables 3. Sampling: Need, types, and significance and methods of random sampling 4. Central tendency: Mean, median, mode, partition values	1. Collection of data and formation of statistical tables 2. Sampling: Need, types, and significance and methods of random sampling 3. Distribution: frequency, cumulative frequency 4. Central tendency: Mean, median, mode, partition values 5. Measures of dispersion range, mean deviation, standard deviation, coefficient of variation 6. Association and correlation: Rank correlation, product moment correlation 7. Linear Regression and time series analysis
Name of Teacher(s)	IM, RIS, ND, BM, CG, BS, SG	IM, RIS, ND, BM, CG, BS, SG
Number of Classes	64 (Tentative)	128 (Tentative)

#Component 3 (C_3)

- Whole Syllabus of CC 6
- Theory (Statistical Methods in Geography) = 40 Marks
  Answer 05 questions out of 08 carrying 02 marks each = 05 x 02 = 10 marks
  Answer 02 questions out of 04 carrying 05 marks each = 02 x 05 = 10 marks
  Answer 02 questions out of 04 carrying 10 marks each = 02 x 10 = 20 marks
- Practical (Statistical Methods in Geography) = 20 Marks
  Laboratory Note Book: 05 Marks
  Viva- voce: 05 Marks
  Experiment: 40 Marks (This 40 marks will be transformed into 10 Marks)
- A project File (Laboratory Note Book), comprising one exercise each is to be submitted.

Core Course 7 Geography Of India

- Total 75 Marks
- 60 Marks for Semester-end-Examination[#] (will be organized by University)
- 10+5=15 Marks for Internal Assessment (will be organized by College in general and Department in Particular)
- 10 Marks for Assignment
- 5 Marks for Attendence

  Attendence: 50% & above but below 60% - 2 Marks
  Attendence: 60% & above but below 75% - 3 Marks
  Attendence: 75% & above but below 90% - 4 Marks
  Attendence: 90% & Above - 5 Marks

Internal Assessment	**Component 1 (C_1)**	**Component 2 (C_2)**
Weightage	5 Marks	5 Marks
Number of Questions	1	1
Date	7.10.2020	7.10.2020
Time	12-12.30 pm	12-12.30 pm
Syllabus	1. Geology and physiographic divisions 2. Climate, soil and vegetation: Characteristics and classification 3. Population: Distribution, growth, structure and policy 4. Physical perspectives: Physiographic divisions, forest and water resources	1. Climate, soil and vegetation: Characteristics and classification 2. Population: Distribution, growth, structure and policy 3. Distribution of population by race, caste, religion, language, tribes 4. Agricultural regions, Green revolution and its consequences 5. Mineral and power resources distribution and utilisation of iron ore, coal, petroleum 6. Industrial development since independence. 7. Population: Growth, distribution and human development 8. Resources: Mining, agriculture and industries
Name of Teacher(s)	IM, RIS, ND, BM, CG, BS, SG	IM, RIS, ND, BM, CG, BS, SG

Number of Classes	64 (Tentative)	128 (Tentative)

#Component 3 (C_3)

- Whole Syllabus of CC 7

- 60 Marks for Semester-end-Examination (will be organized by University)
- Answer 10 questions out of 15 carrying 02 marks each = 10 x 02 = 20 marks
- Answer 04 questions out of 06 carrying 05 marks each = 04 x 05 = 20 marks
- Answer 02 questions out of 04 carrying 10 marks each = 02 x 10 = 20 marks

Skill Enhancement Course 1 Computer Basics And Computer Applications

- Total 50 Marks
- 40 Marks(Practical) for Semester-end-Examination[#] (will be organized by University) + 10 Marks for Assignment (will be organized by College in general and Department in Particular)

Internal Assessment	**Component 1 (C_1)**	**Component 2 (C_2)**
Weightage	5 Marks	5 Marks
Number of Questions	1	1
Date	7.10.2020	7.10.2020
Time	12-12.30 pm	12-12.30 pm
Syllabus	1. Numbering Systems; Binary Arithmetic 2. Data Computation, Storing and Formatting in Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and regression;	1. Numbering Systems; Binary Arithmetic Data Computation, Storing and Formatting in Spreadsheets: 2. Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and regression; Selection of technique and interpretation. 3. Preparation of Annoted Diagrams

	Selection of technique and interpretation.	and its interpretation: Scatter diagram and Histogram 4. Internet Surfing: Generation and extraction of information
Name of Teacher(s)	IM, RIS, ND, BM, CG, BS, SG	IM, RIS, ND, BM, CG, BS, SG
Number of Classes	32 (Tentative)	64 (Tentative)

#Component 3 (C_3)

- Whole Syllabus of SEC 1

- Practical (Computer Basics And Computer Applications) = 40 Marks
  Answer 03 questions out of 03 carrying 010 marks each = 03 x 10 = 30 marks
  Laboratory Note Book: 05 Marks
  Viva- voce: 05 Marks
- Internal assessment 10

Modules of Classes and Examinations, 2020-21

B.A / B.Sc. (Honours) in Geography

Semester-V

Hiralal Bhakat College, Nalhati

Core Course 11 Research Methodology & Field Work

- Total 75 Marks
- 40 Marks (Theory) + 20 Marks (Practical) for Semester-end-Examination[#] (will be organized by University)
- 10+5=15 Marks for Internal Assessment (will be organized by College in general and Department in Particular)
- 10 Marks for Assignment
- Viva- voce: 05 Marks
- 5 Marks for Attendence

  Attendence: 50% & above but below 60% - 2 Marks
  Attendence: 60% & above but below 75% - 3 Marks
  Attendence: 75% & above but below 90% - 4 Marks
  Attendence: 90% & Above - 5 Marks

Internal Assessment	**Component 1 (C_1)**	**Component 2 (C_2)**
Weightage	5 Marks	5 Marks
Number of Questions	1	1
Date	09.10.2020	09.10.2020
Time	12-12.30 pm	12-12.30 pm
Syllabus	1. Research in Geography: Meaning, types and significance 2. Significance of Literature review in research 3 Defining research problem, objectives and hypothesis. Research materials and methods 4. Techniques of writing scientific reports: Preparing notes, references, bibliography (APA Style), abstract and keywords	1. Fieldwork in Geographical studies – Role and significance. Selection of study area and objectives. Pre-field preparations. Ethics of fieldwork 2. Field techniques and tools: Questionnaires (open, closed, structured, non-structured). Interview with special reverence to focused group discussions. 3. Field techniques and tools: Landscape survey using transects and quadrants, constructing a sketch, photo and video recording. 4. Collection of samples. Preparation of inventory from field data. Post-field tasks.
Name of	IM, RIS, ND, BM, CG, BS, SG	IM, RIS, ND, BM, CG, BS, SG

Teacher(s)		
Number of Classes	64 (Tentative)	128 (Tentative)

#Component 3 (C_3)

Whole Syllabus of CC 11

Theory (Research Methodology & Field Work) = 40

40 Marks for Semester-end-Examination (will be organized by University)

- Answer 05 questions out of 08 carrying 02 marks each = 05 x 02 = 10 marks
- Answer 02 questions out of 04 carrying 05 marks each = 02 x 05 = 10 marks
- Answer 02 questions out of 04 carrying 10 marks each = 02 x 10 = 20 marks

Practical (Research Methodology and Field Work) = 20

- Answer 02 questions out of 02 carrying 05 marks each = 05 x 02 = 10 marks
- Laboratory Note Book: 05 Marks
- Viva- voce: 05 Marks

- A project File (Laboratory Note Book), comprising one exercise each is to be submitted.

Core Course 12 Remote Sensing and GIS

- Total 75 Marks
- 40 Marks (Theory) + 20 Marks (Practical) for Semester-end-Examination# (will be organized by University)
- 10+5=15 Marks for Internal Assessment (will be organized by College in general and Department in Particular)
- 10 Marks for Assignment
- Viva- voce: 05 Marks
- 5 Marks for Attendence

  Attendence: 50% & above but below 60% - 2 Marks
  Attendence: 60% & above but below 75% - 3 Marks
  Attendence: 75% & above but below 90% - 4 Marks
  Attendence: 90% & Above - 5 Marks

Internal Assessment	Component 1 (C_1)	Component 2 (C_2)
Weightage	5 Marks	5 Marks
Number of Questions	1	1
Date	09.10.2020	09.10.2020
Time	12-12.30 pm	12-12.30 pm
Syllabus	1. Definition, Concepts and Principles of Remote Sensing (RS): Types of Air Photo, RS satellites, sensors and platforms. 2.EMR Interaction with Atmosphere and Earth Surface, Sensor resolutions and their applications with reference to IRS 3. Principles of False Colour Composites (FCC) from IRS LISS-III and Landsat Images (ETM+) data: Image Processing, Pre-processing; Enhancement; Classification.	1. Definition and Components of Geographical Information System (GIS) and raster and vector data structures 2. Principles of preparing attribute tables and overlay analysis 3. Principles of GNSS positioning - Uses and Waypoint Collection Methods 4. Applications of Geographical Information System in Flood Management and Urban Sprawl 5. Principles of image interpretation for Forest, Water and Soil
Name of Teacher(s)	IM, RIS, ND, BM, CG, BS, SG	IM, RIS, ND, BM, CG, BS, SG
Number of Classes	64 (Tentative)	128 (Tentative)

#Component 3 (C_3)

Whole Syllabus of CC 11

Theory (Remote Sensing and GIS) = 40

40 Marks for Semester-end-Examination (will be organized by University)

- Answer 05 questions out of 08 carrying 02 marks each = 05 x 02 = 10 marks
- Answer 02 questions out of 04 carrying 05 marks each = 02 x 05 = 10 marks
- Answer 02 questions out of 04 carrying 10 marks each = 02 x 10 = 20 marks

Practical (Remote Sensing and GIS) = 20

- Answer 02 questions out of 02 carrying 05 marks each = 05 x 02 = 10 marks
- Laboratory Note Book: 05 Marks
- Viva- voce: 05 Marks
-
- A project File (Laboratory Note Book), comprising one exercise each is to be submitted.

Discipline Specific Elective 1 Cultural and Settlement Geography

- Total 75 Marks
- 60 Marks for Semester-end-Examination[#] (will be organized by University)
- 10+5=15 Marks for Internal Assessment (will be organized by College in general and Department in Particular)
- 10 Marks for Assignment
- 5 Marks for Attendence

  Attendence: 50% & above but below 60% - 2 Marks
  Attendence: 60% & above but below 75% - 3 Marks
  Attendence: 75% & above but below 90% - 4 Marks
  Attendence: 90% & Above - 5 Marks

Internal Assessment	**Component 1 (C_1)**	**Component 2 (C_2)**
Weightage	5 Marks	5 Marks
Number of Questions	1	1
Date	09.10.2020	09.10.2020
Time	12-12.30 pm	12-12.30 pm
Syllabus	1. Definition, Scope and Content of Cultural Geography 2. Development of Cultural Geography 3. Concept of Cultural Hearth, Realm; Cultural Landscape 4. Cultural Innovation and Diffusion; Diffusion of Major World Religions 5.Cultural Segregation, Cultural Diversity, and Acculturation	1. Scope and Content of Settlement Geography 2. Definition and Characteristics of Rural Settlement 3. Rural Settlements: Site and Situation 4. Urban Settlements: Census Definition, Urban Outgrowth, Urban Agglomeration 5. Urban Morphology: Classical Models of Burgess, Hoyt, Harris and Ullman 6. Functional Classification of Cities: Harris and Nelson. 7. Major Races of the World: Distribution and Characteristics
Name of Teacher(s)	IM, RIS, ND, BM, CG, BS, SG	IM, RIS, ND, BM, CG, BS, SG
Number of Classes	64 (Tentative)	128 (Tentative)

[#]Component 3 (C_3)

- Whole Syllabus of DSE-1

- 60 Marks for Semester-end-Examination (will be organized by University)
- Answer 10 questions out of 15 carrying 02 marks each = 10 x 02 = 20 marks
- Answer 04 questions out of 06 carrying 05 marks each = 04 x 05 = 20 marks
- Answer 02 questions out of 04 carrying 10 marks each = 02 x 10 = 20 marks

Discipline Specific Elective 2 Population Geography

- Total 75 Marks
- 60 Marks for Semester-end-Examination[#] (will be organized by University)
- 10+5=15 Marks for Internal Assessment (will be organized by College in general and Department in Particular)
- 10 Marks for Assignment
- 5 Marks for Attendence

  Attendence: 50% & above but below 60% - 2 Marks
  Attendence: 60% & above but below 75% - 3 Marks
  Attendence: 75% & above but below 90% - 4 Marks
  Attendence: 90% & Above - 5 Marks

Internal Assessment	**Component 1 (C_1)**	**Component 2 (C_2)**
Weightage	5 Marks	5 Marks
Number of Questions	1	1
Date	09.10.2020	09.10.2020
Time	12-12.30 pm	12-12.30 pm
Syllabus	1. Development of Population Geography; Relation between Population Geography and Demography 2. Determinants of Population Dynamics; Concept of Optimum Population 3. Theories of population growth: Malthusian Theory and Marxian Approach, Demographic Transition Model 4.Distribution, Density and Growth of	1. Population Composition and Characteristics: Age-Sex; Female-Male Ratio 2. Measures of Fertility and Mortality 3. Population Composition of India: Rural and Urban, Occupational Structure as per Census of India 4. Migration: Theories, Causes and Types 5.Concept of Human Development Index 6. Population and development:

	Population in India since 1951	population-resource regions, 7. Population policies in Selected Countries: Sweden and China 8.Contemporary Issues in Population: Health and Unemployment
Name of Teacher(s)	IM, RIS, ND, BM, CG, BS, SG	IM, RIS, ND, BM, CG, BS, SG
Number of Classes	64 (Tentative)	128 (Tentative)

#Component 3 (C_3)

- Whole Syllabus of DSE-2

- 60 Marks for Semester-end-Examination (will be organized by University)
- Answer 10 questions out of 15 carrying 02 marks each = 10 x 02 = 20 marks
- Answer 04 questions out of 06 carrying 05 marks each = 04 x 05 = 20 marks
- Answer 02 questions out of 04 carrying 10 marks each = 02 x 10 = 20 marks

Head
Department of Geography
Hiralal Bhakat College
Nalhati, Birbhum

HEAD
DEPARTMENT OF GEOGRAPHY
HIRALAL BHAKAT COLLEGE
NALHATI, BIRBHUM

Principal / TIC
Hiralal Bhakat College.
Nalhati, Birbhum Principal / TIC
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HIRALAL BHAKAT COLLEGE
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