Polba Mahavidyalaya

<u>Departmental Lesson Plan 2021 – 2022</u>

Name of the Department: Geography

Name of the Programme: B.A. /B.Sc. (Honours/ General)

Name of the Course: (Subject): B.A. /B.Sc. Geography [Honours/ General]

Period of the Lesson Plan: 1st July 2021 – 30th June 2022

| Academic Period | Class. | | Topic to be covere | ed | No of Lectures | Name of the | Internal Assessment |
|--------------------|------------|------------|--------------------------------|------------------------------------|-------------------|-------------|------------------------|
| | | | Unit | Topic | /Practic | Teachers | |
| July 2021 - | SEM- | CC1: | Unit 1: | Earth's tectonic and structural | 60 | BD | |
| January | | GEOTECTONI | Geotectonics | evolution with reference to | | | |
| 2022 | | CS AND | | geological time scale | | | 3rd Week of |
| | | GEOMORPHO | | Earth's interior with special | | BD | December |
| | | LOGY | | reference to seismology. | | DD | |
| | | | | Concept of Isostasy : Theories of | 1 | BD | 1 |
| | | | | Airy and Pratt | | ВВ | |
| | | | | Plate Tectonics: Processes at | | RH | |
| | | | | constructive, conservative, | | | |
| | | | | destructive boundariesand | | | |
| | | | | hotspots: resulting landforms | | | |
| | | | <u>Unit II</u> | Degradational processes: | | AB |] |
| | | | Geomorphology | Weathering, mass wasting and | | | |
| | | | resultant landforms | _ | | _ | |
| | | | Models of landscape evolution: | | MB | | |
| | | | | Views of Davis, Penck, and Hack | _ | | - |
| | | | | Slope Development: Concept of Wood | | MB | |
| | | | | Development of river network | | MB | |
| | | | | and landforms on uniclinal and | | | |
| | | | | folded structures | | | |
| | | | | Types of rocks, mineralogical | | RH | 1 |
| | | | | composition of igneous rocks; | | | |
| | | | | Landforms on igneous rockswith | | | |
| | | | | special reference to Granite and | | | |
| | | | | Basalt | | | |
| | | | | Karst landforms: Surface and | | RH | |
| | | | | sub-surface | | | |
| | | | | Glacial and fluvio-glacial | | RH | |
| | | | processes and landforms | | | _ | |
| | | | | Aeolian and fluvio-aeolian | | RH | |
| | 1 | CC2: | Theory | processes and landforms | 60 | | 3rd Week of |
| | 1 | | i neor y | Maps: Classification and Types. | UU | RH | December |
| | CARTOGRAPH | | Components of a Map | | | December | |

| I = ~ | T | 1 | T | T | T |
|-------------------|----------------|--|----|------|-------------------------|
| IC | | Concept of Scales: Plain, | | В | |
| TECHNIQUES AND | | Comparative, Diagonal and | | D | |
| GEOLOGICAL | | Vernier | | | |
| MAP STUDY | | Coordinate Systems: Polar and | | A | |
| | | Rectangular. Concept of Geoid | | В | |
| | | and Spheroid. Map | | | |
| | | Projections: Classification, | | | |
| | | Properties and Uses. Concept | | | |
| | | and Significance of | | | |
| | | UTM Projection | | | |
| | | Concept of Generating Globe, | | _ | |
| | | Grids: Angular and Linear | | A | |
| | | _ | | В | |
| | | Systems of Measurement | | | - |
| | | Survey of India Topographical | | A | |
| | | Maps: Reference scheme of Old | | В | |
| | | and Open series | | | - |
| | | Delineation of Drainage Basin | | M | |
| | | from Survey of India | | В | |
| | | Topographical Map. Concept of | | | |
| | | Relief, Slope and Stream Order. | | | |
| | | Types of rocks and minerals. | | RH | |
| | | Characteristics of Granite, | | | |
| | | Basalt, Dolerite, Pegmatite, | | | |
| | | Gneiss, Shale, Sandstone, Slate, | | | |
| | | Marble, Quartzite, Quartz, | | | |
| | | Feldspar, Mica, Limestone, | | | |
| | | Calcite, Bauxite, Magnetite, | | | |
| | | Hematite, Galena | | | |
| | | Concept of Bedding Plane, | | M | |
| | | Unconformity and Non- | | В | |
| | | conformity, thickness of Bed, | | Ь | |
| | | Dip, Throw, Hade, heave | | | |
| | Practical | Construction of Scales: Plain, | | В | |
| | | Comparative, Diagonal and | | | |
| | | Vernier | | D | |
| | | Construction of Projections: | | A | |
| | | Polar Zenithal Stereographic, | | В | |
| | | Simple Conic with twoStandard Parallels, Bonne's and | | | |
| | | Mercator's | | | |
| | | Construction and Interpretation | 1 | AB | 1 |
| | | of Relief Profiles (Superimposed, | | | |
| | | Projected and Composite), | | | |
| | | Preparation of Relative Relief | | | |
| | | Map, Slope map (Wentworth), and Stream Ordering (Strahler) | | | |
| | | on a Drainage Basin. | | | |
| | | Geological Map (Problems | 1 | MB | 1 |
| | | related to Horizontal, Uniclinal, | | 141D | |
| | | Folded and Faulted structure); | | | |
| | | Drawing of Geological section | | | |
| | | and Interpretation of the Map. | | | |
| | <u>Unit 1:</u> | Nature, composition and layering | 60 | BD | 2 nd Week of |
| | | of the atmosphere, | | | December |

| SEM- | CC5: | Elements of the | Insolation: controlling factors. | | BD | |
|------|---------------------------|-------------------------------|--|----|-----|-------------------------------------|
| III | CLIMATOLOG | Atmosphere | Heat budget of the atmosphere. | | | |
| | Y | | Temperature: horizontal and | | BD | 1 |
| | | | vertical distribution. Inversion of | | | |
| | | | temperature: types, causes and consequences. | | | |
| | | | Greenhouse effect and | | RH | 1 |
| | | | importance of ozone layer | | | |
| | | <u>Unit II</u> Atmospheric | Condensation: Processes and | | MB | |
| | | Phenomena, | forms. Mechanism of precipitation: Bergeron- | | | |
| | | Climate | Findeisen theory, collision and | | | |
| | | Change and Climatic | coalescence. Forms of | | | |
| | | Classification | precipitation. Air mass: Typology, origin, | | MB | - |
| | | | characteristics and modification. | | MID | |
| | | | Fronts: warm and cold; | | MB | |
| | | | frontogenesis and frontolysis. | | MD | 4 |
| | | | Weather: stability and instability; barotropic and baroclinic | | MB | |
| | | | conditions. | | | |
| | | | Circulation in the atmosphere: | | RH | |
| | | | Planetary winds, jet stream and | | | |
| | | | monsoons Tropical and mid-latitude | | RH | - |
| | | | cyclones | | | |
| | | | Evidences and causes of climate change | | AB | |
| | | | Climatic classification after Köppen, Thornthwaite (1948) | | AB | |
| | CC6: | Unit-1:Theory | Importance and significance of Statistics in Geography. Discrete | 60 | AB | 2 nd Week of December |
| | STATISTICAL METHODS IN | | and continuous data, population | | | December |
| | METHODS IN GEOGRAPHY | | and samples, scales of | | | |
| | GEOGRAIII | | measurement (nominal, ordinal, interval and ratio), sourcesof data | | | |
| | | | Collection of data and formation of statistical tables | | AB | |
| | | | Sampling: Need, types, and | | MB | |
| | | | significance and methods of random sampling | | | |
| | | | Distribution: frequency, | | МВ | 1 |
| | | | cumulative frequency | | | |
| | | Unit-2:Theory | Central tendency: Mean, median, mode, partition values | | RH | |
| | | | Measures of dispersion range, mean deviation, standard | | RH | |
| | | | deviation, coefficient of variation | | | _[|
| | | | Association and correlation: Rank correlation, product | | RH | |
| | | | moment correlation | | DY | 4 |
| | | | Linear Regression and time series analysis | | RH | |
| | | Practical | Construction of data matrix with | | BD |] |
| | | | each row representing an aerial unit (districts / blocks /mouzas / | | | |

| | | towns) and corresponding columns of relevant attributes. | | | |
|---------------------|--------------------|---|----|-----|-------------------------------------|
| | | Based on the above, a frequency | | BD | 1 |
| | | table, measures of central | | | |
| | | tendency and dispersionwould be computed and interpreted. | | | |
| | | Histograms and frequency curve | | BD | 1 |
| | | would be prepared on the dataset. | | | _ |
| | | Based on of the sample set and | | RH | |
| | | using two relevant attributes, a | | | |
| | | scatter diagram and regression | | | |
| | | line would be plotted and residual | | | |
| | | from regression would be mapped with a shortinterpretation. | | | |
| CC7: | <u>Unit 1:</u> | Geology and physiographic | 60 | MB | 2 nd Week of |
| GEOGRAPHY | Geography of India | divisions | 00 | | December |
| OF INDIA | Iliula | Climate, soil and vegetation: Characteristics and classification | | MB | |
| | | Population: Distribution, growth, structure and policy | | RH | |
| | | Distribution of population by race, caste, religion, language, | | RH | |
| | | tribes | | | |
| | | Agricultural regions, Green | | BD | 1 |
| | | revolution and its consequences | | | _ |
| | | Mineral and power resources | | BD | |
| | | distribution and utilisation of iron ore, coal, petroleum | | | |
| | | Industrial development since independence. | | AB | - |
| | | Regionalisation of India: Views of Spate and Bhatt. | | AB | |
| | <u>Unit 1:</u> | Physical perspectives: | | MB | 1 |
| | Geography of | Physiographic divisions, forest | | | |
| | West Bengal | and water resources | | DII | _ |
| | | Population: Growth, distribution and human development | | RH | |
| | | Resources: Mining, agriculture and industries | | BD | 1 |
| | | Regional Development: Darjeeling Hills and Sundarban | | AB | 1 |
| SEC- 1: COMPUTER | | Numbering Systems; Binary Arithmetic | 40 | AB | 2 nd Week of December |
| BASICS AND | | Data Computation, | | AB | 1 |
| COMPUTER | | Storing and | | | |
| APPLICATION | | Formatting in | | | |
| S | | Spreadsheets: | | | |
| | | Computation of Rank, Mean, | | | |
| | | Median, Mode, | | | |
| | | Standard Deviation, | | | |
| | | Moving Averages, | | | |
| | | Derivation of | | | |
| | | Correlation, | | | |
| | | Covariance and | | | |
| | | regression; Selection | | | |

| | | | of technique and interpretation. | | | |
|------|----------------------|------------------------------|---|----------|------|-------------------------------------|
| | | | Preparation of Annoted Diagrams and its interpretation: Scatter diagram and Histogram | - | MB | |
| | | | Internet Surfing: Generation and extraction of information | | AB | |
| SEM- | CC11: RESEARCH | Unit 1: Research | Research in Geography: Meaning, types and significance | 60 | AB | 1 st Week of December |
| V | METHODOLO | Methodology | Significance of Literature review in research | | AB | |
| | GY AND FIELD WORK | | Defining research problem, objectives and hypothesis. | | RH | |
| | | | Research materials and methods Techniques of writing scientific | <u>-</u> | RH | |
| | | | reports: Preparing notes, references, bibliography (APA Style), abstract and keywords | | | |
| | | <u>Unit II</u> Field Work | Fieldwork in Geographical studies – Role and significance. | - | MB | - |
| | | | Selection of study area and objectives. Pre-field | | | |
| | | | preparations. Ethics of fieldwork Field techniques and tools: | | MB | - |
| | | | Questionnaires (open, closed, | | WID | |
| | | | structured, non-structured). | | | |
| | | | Interview with special reverence to focused group discussions | | | |
| | | | Field techniques and tools: Landscape survey using | - | RH | |
| | | | transects and quadrants, constructing a sketch, photo and video recording. | | | |
| | | | Collection of samples. | - | RH | |
| | | | Preparation of inventory from field data. Post-field tasks | | | |
| | CC12: REMOTE | Unit-1:Remote Sensing | Definition, Concepts and Principles of Remote Sensing | 60 | MB | 1st Week of December |
| | SENSING AND | | (RS): Types of Air Photo, RS satellites, sensors and platforms | | | |
| | GIS | | EMR Interaction with | | MB | - |
| | | | Atmosphere and Earth Surface, Sensor resolutions and their | | | |
| | | | applications with reference to IRS | | | |
| | | | Principles of False Colour | | AB | |
| | | | Composites (FCC) from IRS LISS-III and Landsat Images | | | |
| | | | (ETM+) data: Image Processing, | | | |
| | | | Pre-processing; Enhancement; Classification. | | | |
| | | | Principles of image interpretation for Forest, Water | | AB | |
| | | Unit-2: GIS & | and Soil Definition and Components of | - | RH | - |
| | | GNSS GIS & | Geographical Information | | IVII | |
| | | | System (GIS) and raster and | | | |
| | | | vector data structures | | | <u> </u> |

| | ı | | | | |
|-------------------|------------------------------|--|----|----------|-------------|
| | | Principles of preparing attribute tables and overlay analysis | | RH | |
| | | Principles of GNSS positioning - | | BD | |
| | | Uses and Waypoint Collection Methods | | | |
| | | Applications of Geographical | | RH | |
| | | Information System in Flood Management and Urban Sprawl | | | |
| | | | | | |
| | Practical | Georeferencing of Scanned Maps Preparation of FCC using IRS | | RH AB | - |
| | | LISS-III and/or Landsat (ETM+) | | Ab | |
| | | data Preparation of LULC Map by | | AB | 4 |
| | | Supervised Image Classification | | AD | |
| | | (Maximum Likelihood) using IRS LISS-IIIor Landsat (ETM+) data | | | |
| | | Digitisation of Point. Line and | | RH | 1 |
| | | Polygon Features and Preparation of Thematic Map | | | |
| | | (using bar, pie and choropleth | | | 1st Week of |
| D.C.P.4 | <u>Unit 1:</u> | method) | 60 | MD | - December |
| DSE1: CULTURAL | Cultural | Definition, Scope and Content of Cultural Geography | 60 | MB | |
| AND | Geography | Development of Cultural | | MB | - |
| SETTLEMENT | | Geography | | | |
| GEOGRAPHY | | Concept of Cultural Hearth, Realm; Cultural Landscape | | MB | |
| | | | 1 | MB | |
| | | Cultural Innovation and | | , AID | |
| | | Diffusion; Diffusion of Major | | | |
| | | World Religions | | | _ |
| | | Cultural Segregation, Cultural Diversity, and Acculturation | | MB | |
| | | Major Races of the World: | | | |
| | | Distribution and Characteristics | | MD | _ |
| | | Major Races of the World: Distribution and Characteristics | | MB | |
| | TI 'A TT | | | nn. | 4 |
| | <u>Unit II</u> Settlement | Scope and Content of Settlement | | BD | |
| | Geography | Geography | | BD | - |
| | | Definition and Characteristics of Rural Settlement | | | |
| | | Rural Settlements: Site and | | BD | 1 |
| | | Situation | | | |
| | | Urban Settlements:Census | | BD | |
| | | Definition, Urban Outgrowth, | | | |
| | | Urban Agglomeration | | BD | - |
| | | Urban Morphology: Classical Models of Burgess, Hoyt, Harris | | | |
| | | and Ullman | | | |
| | | Functional Classification of | | BD | |
| | *** | Cities: Harris and Nelson | 60 | | _ |
| | Unit I | | 60 | <u> </u> | |

| | | D. G. D. A. | 1 | T | | AD | 1st Week of |
|---------------------|------|-------------|------------------|--|----|------|-------------|
| | | DSE 2: | | Development of Population | | AB | December |
| | | POPULATION | | Geography; Relation between Population Geographyand | | | 2000111301 |
| | | GEOGRAPHY | | Demography | | | |
| | | | | Demography | - | AB | - |
| | | | | Determinants of Population | | AD | |
| | | | | Dynamics; Concept of Optimum | | | |
| | | | | Population Theories of population growth: | - | AB | _ |
| | | | | Malthusian Theory and Marxian | | 1110 | |
| | | | | Approach, Demographic | | | |
| | | | | Transition Model | | | _ |
| | | | | Distribution, Density and | | AB | |
| | | | | Growth of Population in India | | | |
| | | | | since 1951 | | | |
| | | | | | | | _ |
| | | | Unit II | Population Composition and | | RH | |
| | | | | Characteristics: Age-Sex; | | | |
| | | | | Female-Male Ratio | | RH | _ |
| | | | | Measures of Fertility and Mortality | | KII | |
| | | | | Population Composition of | | RH | |
| | | | | India: Rural and Urban, | | | |
| | | | | Occupational Structure asper | | | |
| | | | | Census of India | | | |
| | | | | Migration: Theories, Causes and | | RH | |
| | | | | Types | | | |
| | | | | Concept of Human Development | | RH | |
| | | | | Index | | | |
| | | | | Population and development: | | RH | |
| | | | | population-resource regions, | | | |
| | | | | Population policies in Selected | | RH | |
| | | | | Countries: Sweden and China | | | |
| | | | | 8.Contemporary Issues in | | | |
| | | | | Population: Health and | | | |
| | | | | Unemployment | | | |
| | | | | Population Composition and | | RH | 1 |
| | | | | Characteristics: Age-Sex; | | | |
| | | | | Female-Male Ratio | | | |
| February | SEM- | CC3: HUMAN | Unit1: Nature | Nature,scope and recent trends | 60 | RH | 3rd Week of |
| 2022 – June 2022 | 2 | GEOGRAPHY | and Principles | of Human Geography |] | | May |
| 2022 | | | | Evolution of humans, concept | | BD | |
| | | | | of race and ethnicity; Major Racial Groups of the world | | | |
| | | | | Space, society and cultural | † | BD | 1 |
| | | | | regions (language and religion) | | | |
| | | | | Concept of Culture, Cultural | 1 | BD | 1 |
| | | | | Diffusion, Convergence, | | | |
| | | | | Cultural Realms of the world | | | |
| | | | Unit II | Evolution of human societies: | 1 | AB | 1 |
| | | | Society, Demogra | Hunting and gathering, | | | |
| | | | phy and Ekistics | Pastoralnomadism, Subsistence | | | |

| | | | forming Industrial and | | | |
|------|---------------|------------------|---|-----|-----|--------------------------------|
| | | | farming, Industrial and urban societies | | | |
| | | | Human-environment relations | - | AB | = |
| | | | with special reference to Arctic | | AD | |
| | | | and hot desert regions | | | |
| | | | Population growth and | | RH | |
| | | | distribution, composition; demographic transition | | | |
| | | | Population–resource regions | 1 | RH | |
| | | | • | | KII | |
| | | | (Ackerman) | 1 | RH | _ |
| | | | Human, population and | | KII | |
| | | | environment relations with | | | |
| | | | special reference to | | | |
| | | | Development-environment | | | |
| | | | conflict | | DD | _ |
| | | | Social morphology and rural | | RD | |
| | | | house types in India | 1 | DD | + |
| | | | Types and patterns of rural | | RD | |
| | | | settlements | 4 | | - |
| | | | Functional Classification of | | RD | |
| | | | urban settlements | (0) | | and XX I a |
| | CC4: | Theory | Concepts of Cartograms and | 60 | RH | 3 rd Week of May |
| | CARTOGRAM | i iicoi y | Thematic Maps | 1 | | _ Iviay |
| | S, SURVEY | | Concept and utility of Isopleths | | RH | |
| | AND | | and Choropleth, | 1 | | 4 |
| | THEMATIC | | Concept, utility, and | | BD | |
| | MAPPING | | interpretation of: Climograph, | | | |
| | | | Hythergraph and Ergograph | | | |
| | | | Preparation and interpretation | | BD | |
| | | | of demographic charts and | | | |
| | | | diagrams | | | |
| | | | (Age-Sex Pyramid) | | | |
| | | | Concepts of Bearing: magnetic | | AB | |
| | | | and true, whole-circle and | | | |
| | | | reduced |] | | |
| | | | Basic concepts of surveying and | | AB | |
| | | | survey equipment: Abneys | | | |
| | | | Level, Clinometer | | | |
| | | | Basic concepts of surveying and |] | RD |] |
| | | | survey equipment: Prismatic | | | |
| | | | Compass, Dumpy Level, Transit Theodolite | | | |
| | | | | 1 | DD | + |
| | | | Interpretation of Land use and | | RD | |
| SEM- | CC9. Darianal | Unit 1: Regional | land cover maps | 60 | RD | 2 nd Week of |
| 4 | CC8: Regional | Planning | Concept and Classification of | 00 | KD | May |
| | Planning and | | Regions | 1 | DD | |
| | Development | | Types of Planning; Principles | | RD | |
| | | | and Techniques of Regional | | | |
| | | | Planning | - | RD | - |
| | | | Need for Regional Planning; | | KD | |
| | | | Multilevel Planning in India | 1 | | 4 |
| | | | Metropolitan Concept: | | RD | |
| 1 | | | Metropolis, Metropolitan | | | |

| Т | T | T | т . | 1 | _ | |
|---|---------------|------------------------|--|----|----------|-------------------------|
| | | | Areas, | | | |
| | | | Metropolitan Region | _ | | |
| | | Unit II Regional | Development: Meaning, | | BD | |
| | | <u>Development</u> | Growth versus Development Models for Regional | | BD | - |
| | | | Development: Growth Pole | | ББ | |
| | | | Model for development India | 1 | BD | = |
| | | | Concept of Regional | | BD | |
| | | | Inequality and Disparity | | | |
| | | | Human Development: | | BD | |
| | | | Significance, Indicators and | | | |
| | | | Measurement | | | |
| | | | Status of Regional Imbalances | | BD | |
| | | | in India | | | |
| | | | Strategies for Regional | | BD | |
| | | | Development in India | 4 | | _ |
| | | | NITI Aayog and its Functions | | BD | |
| | CC9: Economic | Unit 1: Concepts | Meaning and Approaches to | 60 | RH | 2 nd Week of |
| | Geography | and Approaches | Economic Geography | - | DII | May |
| | | | Concepts in Economic Geography | | RH | |
| | | | Factors Influencing Location | 1 | RH | |
| | | | of Economic Activity | | | |
| | | | Determining Factors of | | RH | |
| | | | Transport Cost | | | |
| | | <u>Unit IIEconomic</u> | Concept and Classification of | | AB | |
| | | <u>Activities</u> | Economic Activities | 4 | | _ |
| | | | Location Theories: Von | | AB | |
| | | | Thünen and Alfred Weber | | | |
| | | | Primary Activities: | | AB | |
| | | | Secondary Activities: | | AB | |
| | | | Manufacturing (Iron and Steel in India and | | | |
| | | | | | | |
| | | | Japan, Petrochemical in India | | | |
| | | | and USA) | - | AB | _ |
| | | | Tertiary Activities: Types of Trade and Services | | AB | |
| | | | Agricultural Systems: Tea | | AB | 1 |
| | | | Plantation in India and Mixed | | 112 | |
| | | | Farming | | | |
| | | | in Europe | | | |
| | | | Highways: Roles in Economic | | AB | |
| | | | Development of India since | | | |
| | | | 1990s | - | | 4 |
| | | | International Trade Blocs: | | AB | |
| | | - | WTO and OPEC | | | and |
| | CC10: | Theory | Geographers' Approach to | 60 | RD | 2 nd Week of |
| | Environmental | | Environmental Studies Changes in Paragraphian | - | DD | May |
| | Geography | | Changes in Perception | + | RD BD | |
| | | | Ecosystem: Concept, | | עע | |
| | | | Structure and Functions | 4 | DD | - |
| | | | Environmental Degradation and Pollution: Water and Air | | BD | |
| | | | Environmental Issues related to | 1 | AB | |
| | | | Agriculture | | AD | |
| | | | Urban Environmental issues | 1 | AB | 7 |
| | | | | | | |
| | | | related to Waste Management | 1 | <u> </u> | |

| | | | Concept and Issues related to | | RH | |
|------|--------------------------|-----------|--|----|-----------|-------------------------|
| | | | Bio-diversity | | | |
| | | | Environmental Programs and | | RH | - |
| | | | Policies on Forest and | | | |
| | | _ | Wetland: National and Global | | | 1 |
| | | Practical | Preparation of questionnaire for | | RH | |
| | | | perception survey on | | | |
| | | | environmental problems | | |] |
| | | | Environmental Impact | | BD | |
| | | | Assessment: Leopold Matrix | | | |
| | | | Quality assessment of | | RD | |
| | | | soil using field kit: pH | | | |
| | | | and NPK | | | |
| | | | Interpretation of air | | AB | |
| | | | quality using CPCB / WBPCB data | | | |
| | SEC-2: | Theory | Concept of Probability and | 40 | BD | 2 nd Week of |
| | ADVANCED | | Normal Distribution and their | | | May |
| | SPATIAL | | Geographical Applications, | | | |
| | STATISTICAL | | Skewness (Pearson's Method) | | | |
| | TECHNIQUES | | Differences between Spatial and non-Spatial data, Nearest NeighbourAnalysis | | RD, RH | |
| | | | Correlation and Regression | | RD, | 1 |
| | | | Analysis, t-test, Spearman's Rank | | RH | |
| | | | Correlation Product Moment | | | |
| | | | Correlation; Linear Regression | | | |
| | | | Time Series Analysis; Smoothing time series by Least Square | | AB | |
| | | | and/orMoving Average Method | | | |
| SEM- | CC13: EVOLUTION OF | Unit 1 | Definition,Scope and Content of Geography;Geographyas a Spatial Science | 60 | RD | 1st Week of May |
| | GEOGRAPHIC AL | | Geography in Ancient Period: Greek and Roman | | RD | |
| | THOUGHTS | | Development of Geography in Medieval period:Arabian | | RD | _ |
| | | | Development of Mapping and Knowledge about the World Regional Geography in the Age of Explorations | | RD | |
| | | | Classical Geography in19th Century:Humboldt,Ritter | | RD | - |
| | | | Quantitative Revolution and its | | RD | |
| | | Unit 2 | Critique German School of Thought | - | BD | 1 |
| | | Sint 2 | French School of Thought | 1 | BD | 1 |
| | | | American School of Thought | | BD | 1 |
| | | | Indian Contribution to | 1 | BD | 1 |
| | | | Geography | | |] |
| | | | Concept of Determinism, | | BD | |
| | | | Possibilism and Neo- | | | |
| | | <u> </u> | Determinism | | 1 | |

| | | | Approaches to the study of Geography:Systematic and | | BD | |
|-----|------------------|---------|--|----|----|--------------------|
| | CC14: SASTER | Unit-I | Regional Classification of hazards and disasters | 60 | RH | 1st Week of May |
| | NAGEMEN T | | Approaches to hazard study:Risk perception and vulnerability assessment. Hazard paradigms | | RH | _ I'Au |
| | | | Responses to hazards:Preparedness, trauma and aftermath. Resilience and | - | RH | _ |
| | | | capacity building Hazards mapping:Data and | | RH | |
| | - | Unit-II | techniques. Earthquake:Factors, vulnerability, consequences and management | - | AB | |
| | | | Landslide: Factors, vulnerability, consequences and management | - | AB | |
| | | | Cyclone:Factors,vulnerability, consequences and management | | AB | |
| | | | Fire:Factors,vulnerability,conse quences and management | | AB | |
| | DSE 3: SOURCE | Unit-I | Resource Geography: Its Importance and relation with other sub-disciplines | 60 | RD | 1st Week of May |
| GEO | OGRAPHY | | Resource: Concept and Classification | - | RD | |
| | | | Functional Theory of Resource | | RD | |
| | | | Problems of Resource Depletion with Special Reference to Forest, Water and Fossil Fuels | | AB | |
| | | | Resource Conservation: Principles and Methods | | AB | |
| | | | Concept of Limits to Growth' | | AB | 7 |
| | | Unit-II | Distribution and Utilisation of Metallic Mineral Resources in Indian Context: Ironore, | | BD | |
| | | | Bauxite Distribution and Utilisation of Non-Metallic Mineral Resource sin | | BD | |
| | | | Indian Context: Mica, Limestone | | | |
| | | | Distribution, Problems and Management of Energy Resource sin | - | BD | |
| | | | Indian Context: Conventional (Coal) and Non-Conventional | | | |
| | | | (Solar) Power resources and problems with reference to Petroleum | _ | RH | |
| | | | Contemporary Energy Crisis and Future Scenario | | RH | |
| | | | Sustainable Resource Development | 1 | RH | |
| | | Unit 1: | Soil: Definition, Factors of Formation | 60 | RH | 1st Week of May |

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|-------------|------------|--|------|
| DSE 4: SOIL | Soil | Development and | RH |
| AND BIO | Geography | Characteristics of an ideal Soil | |
| GEOGRAPHY | | Profile Physical and Chamical | AB |
| | | Physical and Chemical Properties of Soil with special | AB |
| | | reference to | |
| | | Texture, Structure, Organic | |
| | | , , | |
| | | Carbon and pH | A.D. |
| | | Concept of Zonal, A zonal and | AB |
| | | Intra zonal Soil; Formation and Profile | |
| | | | |
| | | Characteristics of Laterite and | |
| | | Podsol | |
| | | Classification of Soil: Russian | AB |
| | | and Indian(ICAR) | |
| | | Soil Degradation and | BD |
| | II | Management | DD. |
| | Unit 2:Bio | Definition and Scope of Bio- | BD |
| | Geography | geography, Meaning of | |
| | | Biosphere, Ecology, Ecosystem, | |
| | | Environment, Communities, | |
| | | Habitats, Niche, Ecotone and | |
| | | Biotopes | |
| | | Biosphere and Energy: Laws of | BD |
| | | Energy Exchange, Food Chain, | |
| | | Food Web and Energy Flow | |
| | | Bio-Geo Chemical Cycle: | RD |
| | | Carbon,Nitrogen | |
| | | Factors of Plant Growth: | RD |
| | | Light, Heat, Moisture, Wind, | |
| | | Soil andTopography | |
| | | Biomes-Concept and | RD |
| | | Classification; Tropical Rain | |
| | | forest &Temperate Grassland | |
| | | Threat to Biodiversity-Causes, | RD |
| | | Consequences and Conservation | |

RH- Dr. Rituparna Hajra

MB- Dr. Mohona Basu

RD- Rajesh Das

AB- Ayan Banerjee

BD- Biswajit Dhara