

LESSON PLAN 2023-24 (Even Semester)

Class: BA 4th Semester

Name of Paper: Human Geography (20 UGEO 401)

Name of Practical: Chain and Tape, Plane Table & Prismatic Compass Survey

Name of Faculty: Dr. V. S. Phogat

Month	Week	Theory's Topic	Practical's Topic
Jan 2024	Week 3 rd	Human Geography: Definition, Nature, Scope,	Chain and Tape Survey:
	Week 4 th	Approaches, Major Branches,	Plan Preparation;
Feb 2024	Week 1 st	Contemporary Relevance.	Fixing of Chains;
	Week 2 nd	Human Races: Classification and Distribution; Class Test 1st Unit	Methods: Open Traverse,
	Week 3 rd	Human adaptation to the environment 1. Cold Region–Eskimo. 2. Hot Region: Bushman	Methods: Close Traverse,
	Week 4 th	Human adaptation to the environment 3. Plateau–Gonds. 4. Mountains–Gujjars.	Methods: Triangulation.
Mar 2024	Week 1 st	Distribution of Population, Class Test 2nd Unit	Plane Table Survey: Plan Preparation,
	Week 2 nd	Factor Affecting the Distribution of Population;	Methods: Radiation
	Week 3 rd	Population Resource Regions and Growth of Population;	Methods: Intersection;
	Week 4 th	Human Migration: Causes and Consequences. Class Test 3rd Unit	Methods: Two Point and Three
April 2024	Week 1 st	Human Settlement: Origin, Growth	Point Problems; Error Correction
	Week 2 nd	Human Settlement: Distributional Pattern of Rural Settlements.	Prismatic Compass Survey: Method,
	Week 3 rd	Human Settlement: Distributional Pattern of Urban Settlements.	Correction of Bearing, Removal of Error
	Week 4 th	Functions and Characteristics of Rural & Urban Settlements and their Problems. Revision and Class Test 4th Unit	File Checking

LESSON PLAN (2023-2024)

(March 2024 to May 2024)

M.N.S. Govt. College Bhiwani

Name of Associate Professor – Dr. V. S. Phogat

Class – M.Sc. (Geography) 2nd Semester

Subject- 19 GEO 204 Population and Settlement Geography

SR. No.	Month	Week Wise 2024	Topics
1.	Feb.	2 nd Week	Evolution of Population Geography, Scope and content of population geography, Sources of data and Nature of data.
2	Feb.	3 rd Week	World population distribution and growth with respect to stages of demographic transition. Population growth, distribution and trend with respect to India at sub-national level.
3	Feb.	4 th Week	Population Structure Age-sex structure, Overall sex ratio, child sex ratio, sex ratio at birth, elderly sex ratio and their temporal trend and spatial pattern in India,
4	March	1 st Week	Phenomenon of ageing population. Population Dynamics: Fertility, mortality and migration- Basic measures, spatial and temporal trends. Socio-cultural (Literacy and education, religious composition; rural-urban residence).
5.	March	2 nd Week	Settlement Geography Definition and Scope of settlement geography. Locational Aspects- Site, Situation, Characteristics (Size, Pattern, Shape, Functions),
6.	March	3 rd Week	Distribution – Density, Spatial Distribution Pattern and Methods of Analysis of Distribution.
7.	March	4 th Week	Settlement Types and Functions Settlements Types based on Site, Situation, Population size and functions
8.	April	1 st Week	Spatial and Temporal trends in size and growth of settlements with special reference to India, Functions of Settlements- Rural/ Urban Distribution.
9.	April	2 nd Week	Empirical and theoretical models explaining the functional classification of towns & villages; functional classification of urban centres, functional typology of villages, functional landscape, functional structure of towns in India
10.	April	3 rd Week	Test and Presentation
11.	April	4 th Week	revision

LESSON PLAN (2023-2024)

(March 2024 to May 2024)

M.N.S. Govt. College Bhiwani

Name of Associate Professor – **Dr. V. S. Phogat**

Class – **M.Sc. (Geography) 4th Semester**

Subject- **19 GEO 407 Settlement Geography**

SR. No.	Month	Weak Wise 2024	Topics
1.	Feb.	2 nd Week	Evolution, size and growth of human settlements: Theories of evolution of settlements;
2	Feb.	3 rd Week	size, distribution, spatial and temporal trends in size and growth of settlements. Distribution Pattern: Spatial distribution pattern of settlements: Theoretical models and empirical findings.
3	Feb.	4 th Week	Settlement Structure: Physical (characteristics of internal structure and external form, theories explaining internal morphological structure of cities;
4	March	1 st Week	Empirical and theoretical models explaining the functional classification of towns & villages; functional classification of urban centres, functional typology of villages, functions and scope, functional structure of towns in India
5.	March	2 nd Week	Land use (principles and theories of land use in urban and rural setting: house types and building materials, environmental, socio-economic/cultural factors influencing the dynamics of settlement structure.
6.	March	3 rd Week	Settlement Hierarchy: theories of Christaller and Losch and their application to settlement hierarchy, factors contributing to hierarchy, Central Place theory: measurement of centrality and hierarchy.
7.	March	4 th Week	Hierarchy of settlements in India – an empirical exercise. Issues, perspectives and policies on Population and Human Settlements. Interface between human settlements and environment.
8.	April	1 st Week	Issues, perspectives and policies on Population and Human Settlements.
9.	April	2 nd Week	Interface between human settlements and environment.
10.	April	3 rd Week	Test and Presentation
11.	April	4 th Week	revision

LESSON PLAN 2023-24 (Even Semester)

Class: BA 4th Semester

Name of Paper: Human Geography (20 UGEO 401)

Name of Practical: Chain and Tape, Plane Table & Prismatic Compass Survey

Name of Faculty: Dr. J. S. Duhan

Month	Week	Theory's Topic	Practical's Topic
Jan 2024	Week 3 rd	Human Geography: Definition, Nature, Scope,	Chain and Tape Survey:
	Week 4 th	Approaches, Major Branches,	Plan Preparation;
Feb 2024	Week 1 st	Contemporary Relevance.	Fixing of Chains;
	Week 2 nd	Human Races: Classification and Distribution; Class Test 1st Unit	Methods: Open Traverse,
	Week 3 rd	Human adaptation to the environment 1. Cold Region–Eskimo. 2. Hot Region: Bushman	Methods: Close Traverse,
	Week 4 th	Human adaptation to the environment 3. Plateau–Gonds. 4. Mountains–Gujjars.	Methods: Triangulation.
	Mar 2024	Week 1 st	Distribution of Population, Class Test 2nd Unit
	Week 2 nd	Factor Affecting the Distribution of Population;	Methods: Radiation
	Week 3 rd	Population Resource Regions and Growth of Population;	Methods: Intersection;
	Week 4 th	Human Migration: Causes and Consequences. Class Test 3rd Unit	Methods: Two Point and Three
April 2024	Week 1 st	Human Settlement: Origin, Growth	Point Problems; Error Correction
	Week 2 nd	Human Settlement: Distributional Pattern of Rural Settlements.	Prismatic Compass Survey: Method,
	Week 3 rd	Human Settlement: Distributional Pattern of Urban Settlements.	Correction of Bearing, Removal of Error
	Week 4 th	Functions and Characteristics of Rural & Urban Settlements and their Problems. Revision and Class Test 4th Unit	File Checking

LESSON PLAN (2023-2024)

(March 2024 to April 2024)

M.N.S. Govt. College Bhiwani

Name of Associate Professor – Dr. J.S. Duhan

Class – M.Sc. (Geography) 2nd Semester

Subject- 19 GEO 205 Physical & Socio Economic Landscapes (Theory)

SR. No.	Month	Week Wise 2024	Topics
1.	Feb.	2 nd Week	Earth surface processes and associated landforms.
2	Feb.	3 rd Week	Geomorphic structure, processes and landscape evolutions, dynamic equilibrium, and topographic response to tectonic activities and climatic forcing, morphogenetic region, Topographical and Terrain analysis with field mapping , analysis of remotely sensed data and numerical models..
3	Feb.	4 th Week	Landscape Mapping Analysis Landscape Analysis with Maps & Aerial Photos, Geomorphological mapping, Field mapping, Field surveying techniques
4	March	1 st Week	Identification of facies and genies of landforms, Stratigraphy, Sediment texture, structure, Particle morphology, Fabric analysis: General considerations;
5.	March	2 nd Week	Clast macrofabrics and microstructural description, Clast mesofabrics and Laboratory analysis.
6.	March	3 rd Week	Formation of Research Design Significance of Field work in Geography; Identification of Research Problem and Formulation of Research Design in geography;
7.	March	4 th Week	Types and Sources of Data: Characteristics of primary and secondary data; Types of Questionnaires and their formulation.
8.	April	1 st Week	Research Design & Report Writing Selection of sample household; Preparation of field Questionnaire, Field sample survey design & preparation of Locational maps.
9.	April	2 nd Week	Collection of demographic and socio-economic data from the field; Retrieval and analysis of data collected from field; Format of field project report writing; Data entry: coding and Tabulation, Planned report writing and Ethics of report writing
10.	April	3 rd Week	Test and Presentation
11.	April	4 th Week	revision

LESSON PLAN (2023-2024)

(March 2024 to April 2024)

M.N.S. Govt. College Bhiwani

Name of Associate Professor – Dr. J.S. Duhan

Class – M.Sc. (Geography) 4th Semester

Subject- 19 GEO 404 Biogeography

SR. No.	Month	Weak Wise 2024	Topics
1.	Feb.	2 nd Week	Nature, scope and significance of biogeography
2	Feb.	3 rd Week	Basic ecological principles: Bio-energy cycles in territorial ecosystem (Carbon and Nitrogen), energy flow, trophic levels and food web, Origin of fauna and flora.
3	Feb.	4 th Week	Biomes of the World Major biomes of the world: forests, grasslands and deserts, Distribution of plant life on the earth and its relation to soil, climate and human activities
4	March	1 st Week	Geographical distribution of animals on the earth and its relation to vegetation types, climate and human activities.
5.	March	2 nd Week	Communities and Ecosystems Communities: Nature of communities and ecosystems: bio-diversities;
6.	March	3 rd Week	human induced community change; habitat decay and conservation of biotic resources, Ecosystem services and its significance
7.	March	4 th Week	Environmental Hazards and Ecological Consequences Environmental hazards, Ecological consequences,
8.	April	1 st Week	human perception and adjustment with respect to flood, drought and earthquake, Bio-Reserves of India,
9.	April	2 nd Week	National forest and wild life policy of India.
10.	April	3 rd Week	Test and Presentation
11.	April	4 th Week	revision

LESSON PLAN 2023-24 (Even Semester)			
Class: BA 2 nd Semester			
Name of Paper: Economic Geography (20 UGEO 201)			
Name of Practical: Statistical Techniques & Representation of Socio-Economic Data			
Name of Faculty: Dr. Dharmvir Singh Jakhar			
Month	Week	Theory's Topic	Practical's Topic
Feb 2024	Week 1st	Nature and Scope of Economic Geography; Relation of Economic Geography with other Branches of Social Sciences.	Statistical Techniques
	Week 2nd	Location and Spatial Organization of Economic Activities. Class Test 1st Unit	Measures of Central Tendency: Mean
	Week 3rd	Classification of Economic Activity; Primary, Secondary and Tertiary.	Median, Mode;
	Week 4th	Models In Geography: Von-Thunen's Model of Agricultural Location	Measures of Dispersion: Range
March 2024	Week 1st	Edward Ullman's Model of Spatial Interaction. Class Test 2nd Unit	Mean Deviation, Quartile Deviation
	Week 2nd	World Natural Resources: Its Types, Utilization and Conservation.	Standard Deviation
	Week 3rd	Spatial Distribution of Food Crops (Rice)	Socio-Economic Data: Types of Data
	Week 4th	Spatial Distribution of Food Crops (Wheat). Class Test 3rd Unit	Sources of Socio-Economic Data: Primary
	Week 5th	Commercial Crops (Cotton) with Special Reference to India.	Sources of Socio-Economic Data: Secondary.
April 2024	Week 1st	Commercial Crops (Sugarcane) with Special Reference to India.	Representation of Socio-Economic Data:
	Week 2nd	Trade and Transport: Main Features of International Trade; Transport Cost.	Simple Line Graph
	Week 3rd	Accessibility and Connectivity.	Simple Bar Graph
	Week 4th	Major Oceanic Routes of the World. Revision. Class Test 4th Unit	Simple Pie Chart, File Checking

LESSON PLAN (2023-2024)

(March 2024 to April 2024)

M.N.S. Govt. College Bhiwani

Name of Associate Professor – Dr. Dharmvir Singh Jakhar

Class – M.Sc. (Geography) 4th Semester

Subject- 19 GEO 402 Geography of Haryana

SR. No.	Month	Weak Wise 2024	Topics
1.	Feb.	2 nd Week	Haryana: Physiography: Relief characteristics and physiographical divisions,
2	Feb.	3 rd Week	Drainage systems and their significance, Chronology and Palaeo Channel of Sarasvati River and its association with Vedic Civilisation, Climatic regions of state, Soil and vegetation, forest regions , characteristics and conservation.
3	Feb.	4 th Week	People and Society History of the State, Vedic Civilisation, Geography of Vedas & Puranas Growth of Population, distribution of Demographic attributes: sex-ratio, literacy rate and work force participation.
4	March	1 st Week	Population problems and policies, Human Resources: Potential and Prospects, Contemporary issues related to gender Ratio and women empowerment.
5.	March	2 nd Week	Agriculture: Agro-climatic Region, Traditional agriculture system, Cropping Pattern, Green Revolution and Agricultural development in Haryana and problems related to agriculture.
6.	March	3 rd Week	Irrigation: Types of irrigation, Major irrigation projects: Bhakra Nangal, Agriculture Potential and Management, Prospects and Potential of Agro-processing Industries,
7.	March	4 th Week	Storage and Marketing of Agriculture Products, Contemporary issues related to agriculture and farmer sustainability.
8.	April	1 st Week	Resource and Economy Trend and Pattern of Urbanisation, Contemporary Issues and Challenges in Urban Areas, Distribution of Natural and Human Resources,
9.	April	2 nd Week	Transport System and Growth, Manufacturing and Service hubs, knowledge economy Any Case Study of Automobile and Information and Technology Hub
10.	April	3 rd Week	Test and Presentation
11.	April	4 th Week	revision

LESSON PLAN (2023-2024)

(March 2024 to May 2024) w.e.f.: 17/03/2024

M.N.S. Govt. College Bhiwani

Name of Assistant Professor – **MR. AMARJEET**

Class – **M.Sc. (Geography) 4th Semester**

Subject – **19 GEO 409: Principal of GIS and Navigation System (Theory)**

SR. No.	Month	Weak Wise 2024	Topics
1.	Feb.	2 nd Week	GIS: Definition and Applications; Components and Elements of GIS; Development of GIS technology
2	Feb.	3 rd Week	Geographic objects: point, line and area; analog and digital maps; theoretical models
3	Feb.	4 th Week	Framework for GIS, representation of geographic data-base
4	March	1 st Week	Coordinate systems and map projections.
5.	March	2 nd Week	Data Input, Storage and Editing: Nature of geographic data: Spatial and Attribute Data,
6.	March	3 rd Week	Concept of vector and raster based models; data input devices: Digitization
7.	March	4 th Week	External data bases; storage and manipulation of GIS data bases.
8.	April	1 st Week	GIS and Spatial Analysis: Neighbourhood analysis; Proximity analysis and buffers;
9.	April	2 nd Week	Overlays Analysis – raster and vector based overlay and their applications; Presentation of GIS output. Different GNSS Systems in Operation;
10.	April	3 rd Week	How a GNSS system works; Sources of error in a GNSS system,
11.	April	4 th Week	Introduction to GIS: Concepts of Projection, datum and spheroid, mean sea level, orthometric height, Geoid models; Formats of storing GIS Data,
12	May	1 st Week	Geographical Mapping with hand-held GPS, data downloading and visualization, import GPS data in Google Earth.
13	May	2 nd Week	Test and Presentation

LESSON PLAN (2023-2024)

(March 2024 to May 2024)

M.N.S. Govt. College Bhiwani

Name of Assistant Professor – **MR. AMARJEET**

Class – **M.Sc. (Geography) 4th Semester**

Subject – **19 GEO 401 Regional Developments and Planning**

SR. No.	Month	Weak Wise 2024	Topics
1.	Feb.	2 nd Week	Planning Region: Characteristics and need; Planning Process- Sectoral, Temporal and Spatial dimensions;
2	Feb.	3 rd Week	Short-term and Long-term Perspective of Planning; Planning for a Region's development and Multi-regional planning in National Context;
3	Feb.	4 th Week	Sectoral-spatial development with special reference to agricultural and industrial development in India
4	March	1 st Week	Decentralization and development; State, civil society and market in the Neo-liberal economic framework; Globalization.
5.	March	2 nd Week	Regional Planning in India: Regional Imbalances/Disparities- Causes and Consequences
6.	March	3 rd Week	Measurements of Regional Disparities; Planning Policies for Regional Development;
7.	March	4 th Week	National Capital Region, study of regional development planning and programmes:.
8.	April	1 st Week	Backward area development,
9.	April	2 nd Week	Tribal area development, Hilly area development,
10.	April	3 rd Week	Arid/Desert area development,
11.	April	4 th Week	Flood and drought prone areas development and coastal area development
12	May	1 st Week	Test and Presentation
13	May	2 nd Week	Revision

Lesson Plan Session 2023-2024

Subject:- Geography

Teacher Name: - Ashok Kumar

Sr	Week Starting on	B.A. 5 th Sem. Geomorphology	M.Sc. 1 st Sem. Economic Geography
1	24.07.2023 To 28.07.2023	Nature and scope of geomorphology. Fundamental Concepts.	
2	19.08.23 To 23.08.23	Fundamental Concepts. Plate Tectonics.	
3	28.08.23 To 29.08.23	Theory of Isostasy-Pratt & Airy.	
4	04.09.23 To 06.09.23	-do-	
5	11.09.23 To 13.09.23	Geological time scale.	
6	18.09.23 To 20.09.23	The Earth Interior. Endogenetic Forces.	Economic Geography- Definition,nature ,scope and approaches.
7	25.09.23 To 27.09.23	Folds and Faults.	Relationship of economic geography with economics and other branches of social sciences.
8	03.10.23 09.10.23 10.10.23	Associated topography of faults & folds	World Economies-bases of classification. pattern ,and characteristics of developed and developing economies of world.
9	23.10.23 25.10.23	Volcanoes and Earthquakes.	Functional Classification of economic Activities-Primary, Secondary Tertiary, Knowledge and Quaternary.
10	30.10.23 31.10.23	Exogenetic forces- Weathering and Mass Wasting.	World production and distribution of energy resources- coal and petroleum.
11	06.11.23 To 08.11.23	Erosional & depositional landforms associated with Fluvial Processes, Aeolian & Glacial .	World production & distribution of mineral resources- iron ore & bauxite. Network structure and economic activities.
12	20.11.23 To 22.11.23	-do- Unit Test-1 st Cycle of Erosion –Davis & Penck.	Impact of transport on economic activities.Classification of industries-resource based &footloose industries.
13	28.11.23 29.11.23	Application of geomorphology. Natural Hazards(Landslides,Floods, Earthquakes & Tsunami)	Theories of industrial laocation- Ullaman, Weber, Ishard & Losch
14	04.12.23 06.11.23 12.11.23 13.11.23	-do- Construction activities & regional planning.	Concept of economic growth & economic development ,globalization & pattern of economic development,emergenceof a new

			global Economy.
15	18.12.23 To 20.12.23	Revision and Unit Test- 2nd	Transitional integration & its spatial outcomes. Major regional trade blocks of the world, free trade initiatives (GATT, UNCTAD, WTO) Unit Test -1 st & 2 nd .


Teacher's Signature


HOD Signature

Lesson Plan Session 2023-2024

Subject: Geography

Teacher Name: - Ashok Kumar

Sr	Week Starting on	M.SC 2 nd sem	BA 6 th sem
1	18-02-24 to 20-02-24	Agricultural geography – Definition, Nature, Scope and significance. Approaches – Commodity, Systematic and Regional.	Climatology- Nature & scope. Climate & Weather.
2	26-02-24 To 28-02-24	Origin and Dispersal of Agriculture, Gene-Centers of Agriculture. Determinants of agricultural patterns – Physical, Technological and cultural factors.	Elements of Climate, factors affecting climate.
3	04-03-24 To 06-03-24	Concepts of land capability classification, India, Land use survey and there measurement. Intensity of cropping, degree of commercialization, diversification and specialization.	Compositin & Structure of Atmosphere, atmospheric temperature- horizontal & vertical distribution.
4	11-03-24 To 13-03-24	Agricultural efficiency and productivity, crop combination and concentration. Von Thunane model of agricultural land use.	Atmospheric pressure & wind distribution, atmospheric moisture, humidity.
5	18-03-24 To 20-03-24	Unit test-1st ,Agricultural Regionalisation: Concept and criteria, Whittlesey's agricultural systems. Agricultural typology by Kostrowiki Agro-climatic zonation	Evaporation & form of condensation, types of precipitation, world pattern of rainfall.
6	01-04-24 To 03-04-24	. Concept and Agro- climatic regions of India .Agriculture regions of India . Regions of India. Agricultural regions of India, Regional imbalances in agricultural productivity in India.	Unit Test- 1 st Air masses- concept & classification
7	08-04-24 To 10-04-24	Neo-liberalization and Indian agriculture; Food Security: Concept and components, Food Security in India; Contemporary Issues: Food, nutrition and hunger, food security, drought and food security	Atmospheric disturbances, tropical cyclone
8	15-04-24 To 17-04-24	Environmental degradation, New Perspectives in Agriculture: Urban agriculture, Contract Farming, Agri-business, Sustainable Agricultural Development	Temperate cyclones & anticyclones. Climatic regions- classification of Koppen & Thornthwaite
9	22-04-24 To 24-04-24	Agriculture and climate change: Impacts and adaptation, role of irrigation.	Climate Change & global warming- evidences, causes, consequences & measures of control.
10	29-04-24 AND 30-04-24	UNIT TEST 2-AND REVISION	Unit Test-2 nd Revision.


Teacher's Signature

HOD Signature

M.N.S. Govt. PG College, Bhiwani

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

Lesson Plan

Subject: 201 Geographical Thought

Class: M. Sc 2nd Sem

Teacher's Name: Ms. Sanchit

Sr. No.	Weak Wise 2024	Topic
1	Feb. 2 nd Weak	Place of Geography in the realm of knowledge, Geography as a science and its relationship with other science.
2	Feb. 3 rd Weak	Significance of space, place and location in geography. Explanations in Geography Methodological and philosophical settings.
3	Feb. 4 th weak	Methodological and philosophical settings
4	March. 1 st weak	Development of Geographical knowledge during ancient (Greek and Roman)
5	March. 2 nd weak	medieval (Arab) periods
6	March. 3 rd weak	Foundation of Modern Geography- Varenius, Kant, Humboldt and Ritter.
7	March. 4 th weak	Holi Vacation 23 to 31 march 2024
8	April .1 st weak	environmental determinism and possibilism. Dualism in Geography: Physical vs Human Geography and Systematic v/s Regional Geography.
9	April. 2 nd weak	Quantitative Revolution and Emergence of theoretical geography. Positivist Explanations in Geography
10	April. 3 rd weak	Laws, theories, models, Inductive & deductive logic. Behavioural and Humanistic Perspectives in Geography
11	April .4 th weak	Social Relevance in Geography – Welfare, Radical and Feminist Perspectives
12	May. 1 st weak	Postmodernism and Geography.
13	May. 2 nd weak	Presentation & Test.

M.N.S. Govt. PG College, Bhiwani

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

Lesson Plan

Subject: 401 Regional
Planning and Development

Class: M. Sc 4th Sem

Teacher's Name: Ms. Sanchit

Sr. No.	Weak Wise 2024	Topic
1	Feb. 2 nd Weak	Concept of regional development
2	Feb. 3 rd Weak	concept of region, classification of region
3	Feb. 4 th weak	method of region delineation
4	March. 1 st weak	types of planning region
5	March. 2 nd weak	concept of regional planning and development.
6	March. 3 rd weak	Development Theories
7	March. 4 th weak	Holi Vacation 23 to 31 march 2024
8	April .1 st weak	Trickle-down Theory (Hirschman)
9	April. 2 nd weak	Growth Pole Model (Parroux)
10	April. 3 rd weak	Cumulative causation model (Myrdal), Core-Periphery Theory (Friedman); Recent Divergence and convergence theories
11	April .4 th weak	Kuznets curve, Dependency theory, bio-regionalism, Eco-feminism
12	May. 1 st weak	Deep ecology, sustainable development.
13	May. 2 nd weak	Presentation & Test.

M.N.S. Govt. PG College, Bhiwani

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

Lesson Plan

Subject: 208 IT for Spatial Sciences		Class: M. Sc 2 nd Sem	Teacher's Name: Sh. Monu kumar
Sr. No.	Weak Wise 2024	Topic	
1	Feb. 2 nd Weak	Cartography: Geodesy, Photogrammetry, Remote Sensing, Geographical Information System (GIS); Information & Communication Technologies.	
2	Feb. 3 rd Weak	Global Positioning System(GPS) Digital Image Processing; Map as Decision Tool; Conventional Symbols & Sign Survey Instruments, Traversing, Trilateration and Triangulation; Electronic (total station).	
3	Feb. 4 th weak	Aerial and Satellite based survey techniques (Photogrammetry, RADAR, LiDAR).	
4	March. 1 st weak	Map as a communication system - Theory of Perception, Symbolization; Conventional signs and symbols: Quantitative, Qualitative Symbols, Use of colour; Qualitative mapping technique.	
5	March. 2 nd weak	Choroschematic and Chorochromatic; Quantitative mapping techniques: Choropleth, Isopleth.	
6	March. 3 rd weak	Physical surveying: GPS and Total Station, DGPS and GPR.	
7	March. 4 th weak	Holi Vacation 23 to 31.	
8	April .1 st weak	GIS, Remote Sensing and GPS; Open source software for GIS: QGIS, GoogleEarth, GIS, Remote Sensing and GPS; Open source software for GIS: QGIS, GoogleEarth.	
9	April. 2 nd weak	Google Earth Engine etc.; Geodata visualization and analysis: two, three, fourth dimension viewing, visualization by hyper map, Virtual images & WebGIS.	
10	April. 3 rd weak	Spatial database: Survey of India, NRSC, BHUVAN, NATMO, Geological Survey of India, Census of India, National Informatics.	
11	April .4 th weak	Cadastral maps, Open street map; Foreign sources of data: USGS Earth Explorer, Earth Data Search.	
12	May. 1 st weak	Physical surveying: GPS and Total Station; Attribute database: Census of India, Statistical Abstracts, National Informatics Centre.	
13	May. 2 nd weak	Presentation & Test.	

M.N.S. Govt. PG College, Bhiwani

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Lesson Plan

Subject: Economic Geography		Class: B.A 2 nd Sem	Teacher's Name: Sh. Monu kumar
Sr. No.	Weak Wise 2024	Topic	
1	Feb. 2 nd Weak	Nature and Scope of Economic Geography; Relation of Economic Geography with other Branches of Social Sciences.	
2	Feb. 3 rd Weak	Location and spatial Organization of Economic Activities.	
3	Feb. 4 th weak	Classification of Economic Activity. Primary, Secondary and Tertiary.	
4	March. 1 st weak	Models in Geography: VonThunen's Model of Agricultural Location and Edward Ullman's Model of Spatial Interaction.	
5	March. 2 nd weak	World Natural Resource.	
6	March. 3 rd weak	Resources: its Types, Utilization and Conservation	
7	March. 4 th weak	Holi Vacation 23 to 31.	
8	April .1 st weak	Commercial Crops with Special Reference to India.	
9	April. 2 nd weak	Trade and Transport: Main Features of International Trade;	
10	April. 3 rd weak	Transport Cost, Accessibility and Connectivity; Major Oceanic Routes of the World.	
11	April .4 th weak	Major Oceanic Routes of the World.	
12	May. 1 st weak	Doubt Class all syllabus.	
13	May. 2 nd weak	Presentation & Test.	

M.N.S. Govt. PG College, Bhiwani

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Lesson Plan

Subject: Economic Geography		Class: B.A 2 nd Sem	Teacher's Name: Sanchit
Sr. No.	Weak Wise 2024	Topic	
1	Feb. 2 nd Weak	Nature and Scope of Economic Geography; Relation of Economic Geography with other Branches of Social Sciences.	
2	Feb. 3 rd Weak	Location and spatial Organization of Economic Activities.	
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7	March. 4 th weak	Holi Vacation 23 to 31.	
8	April . 1 st weak	Commercial Crops with Special Reference to India.	
9	April. 2 nd weak	Trade and Transport: Main Features of International Trade;	
10	April. 3 rd weak	Transport Cost, Accessibility and Connectivity; Major Oceanic Routes of the World.	
11	April . 4 th weak	Major Oceanic Routes of the World.	
12	May. 1 st weak	Doubt Class all syllabus.	
13	May. 2 nd weak	Presentation & Test.	

Lesson Plan

Govt. P.G. College, Bhiwani

Department of Geography,

Paper: Cartography (Practical)

Class and Session: M.sc. 1th SEM, (2023-24)

(from Sept. 2023 to December 2024)

Name of the Assistant /Associate Professor: Ms. Sanchit

Sept. Week 1st

Line graph, bar graph and poly graph

Sept. Week 2nd

Rainfall deviation diagram, climograph

Sept. Week 3rd

Hythergraph, isopleth and wind rose diagram.

Sept. Week 4th

Simple bar, multiple bar and comparative bar

Oct. Week 1th

Pie diagram, proportional circle

Oct. Week 2nd

Sphere diagram, dot method

Oct. Week 3th

Choropleth, trend graph

Oct. Week 4th

Age and sex

pyramid

Nov Week 1st

Snail diagram, flow diagram

Nov. Week 2nd

Diwali vacations

Nov. Week 3rd

Cartogram

Nov. Week 4th

Accessibility maps

Lesson Plan
 Govt. P.G. College, Bhiwani
Department of Geography,
Paper: GEO 105 Cartography and Morphometric Analysis (Theory)
Class and Session: M.Sc (Geography) 1st Sem. (2023-24)
(from Sept. 2023 to December 2023)
Name of the Assistant /Associate Professor: Mr. Monu Kumar

Sept. Week 4st
Nature and scope of Cartography, Historical evolution, Development and Recent advancements in cartography.
Oct. Week 1th
Types and characteristics of distribution maps: (i) Chorochromatic (ii) Choroschematic (iii) Isopleth (iv) Choropleth (v) Dot and (vi) Diagrammatic.
Oct. Week 2nd
Types and characteristics of statistical diagrams: (i) One dimensional (bar, line), (ii) Two dimensional (circular, rectangular, square).
Oct. Week 3th
Three dimensional (block, sphere, cube) and (iv) Other diagrams (Snail, pyramid, flow diagram/cartogram). Characteristics of graph/diagrams/maps representing climatic data: (i) Rainfall deviation.
Oct. Week 4th
Arrangement, identification and interpretation of topographical sheets of India.
Nov Week 1st
Climograph (Taylor and Foster), (iii) Hythergraph, (iv) Star/Wind rose diagram (v) Isopleths (vi) Line and bar (vii) polygraph.

Lesson Plan
Govt. P.G. College, Bhiwani
Department of Geography,
Paper: GEO 105 Cartography and Morphometric Analysis (Theory)
Class and Session: M.Sc (Geography) 1st Sem. (2023-24)
(from Sept. 2023 to November 2023)
Name of the Assistant /Associate Professor: Mr. Monu Kumar

Nov. Week 2nd
Diwali vacations
Nov. Week 3rd
Delineation of drainage basin and its geographical significance.
Nov. Week 4th
Profile: Transverse and longitudinal.
Dece.1st
Relief aspect of drainage basin: (i) area-height curve, , (ii) Altimetric frequency curve, (iii) Hypsographic curve.
Dece.2nd
(iv) Hypsometric integral curve and (v) Clinographic curve.
Dece.3rd
Development of slope and various methods of its analysis (Wentworth and Smith's method).

Lesson Plan
 Govt. P.G. College, Bhiwani
Department of Geography,
Paper: GEO 107 Morphometric Analysis (Practical)
Class and Session: M.Sc (Geography) 1st Sem. (2023-24)
(from Sept. 2023 to December 2023)
Name of the Assistant /Associate Professor: Mr. Monu Kumar

Sept. Week 4st
Interpretation of toposheets: (a) Physical features and (b) Cultural features (2).
Oct. Week 1th
Delineation of Watershed (All the exercises of morphometric shall be based on delineated watershed).
Oct. Week 2nd
Profile Analysis: Transverse and Longitudinal a. Serial Profiles (1) b. Superimposed Profiles (1) c. Composite Profiles (1) d. Projected Profiles (1) e. Longitudinal or valley Thalweg Profile (1).
Oct. Week 3th
Linear Aspects of streams: a. Relationship between stream order and stream Number (1) b. Relationship between stream order and Average stream length (1) c. Bifurcation ration (1).
Oct. Week 4th
Relief & Slope Aspect a) Area Height Curve (1) b) Altimetric frequency curve (1)
Nov Week 1st
Areal Aspects of streams: a. Drainage Frequency (1) b. Drainage Density (1).

Lesson Plan
Govt. P.G. College, Bhiwani
Department of Geography,
Paper: GEO 107 Morphometric Analysis (Practical)
Class and Session: M.Sc (Geography) 1st Sem. (2023-24)
(from Sept. 2023 to November 2023)
Name of the Assistant /Associate Professor: Mr. Monu Kumar

Nov. Week 2nd
Diwali vacations
Nov. Week 3rd
Hypsographic Curve (d) Hypsometric Integral Curve
Nov. Week 4th
Drainage network analysis: Linear and areal properties; Relationship between stream order, number and length.
Dece.1st
Relief aspect of drainage basin: (i) area-height curve, , (ii) Altimetric frequency curve, (iii) Hypsographic curve.
Dece.2nd
(iv) Hypsometric integral curve and (v) Clinographic curve.
Dece.3rd
Development of slope and various methods of its analysis (Wentworth and Smith's method).

Lesson Plan
 Govt. P.G. College, Bhiwani
 Department of Geography,
 Paper: Geography of India (Theory)
 Class and Session: M.Sc. III SEM, (2023-
 24)(from Sept. 2023 to December 2023)
 Name of the Assistant /Associate Professor: Ms. Sanchit

Sept. Week 1st
Definition, nature and scope of oceanography, distribution of land and water, thermohaline circulation
Sept. Week 2nd
Origin of ocean basins, features of ocean basins- continental margins and deep ocean basins, oceanic floor profile- continental shelf, slope, ridge and deeps, abyssal plains, submarine canyons
Sept. Week 3rd
Coral reefs- types, origin and distribution
Sept. Week 4th
Configuration of ocean floor of Indian, Atlantic and Pacific Ocean
Oct. Week 1th
Ocean currents- origin, types and dynamics, currents of Pacific, Indian and Atlantic Ocean
Oct. Week 2nd
Impact of ocean currents, climate change and ocean circulation
Oct. Week 3th
Temperature, salinity and density of ocean water
Oct. Week 4th
Waves and tides- movement in ocean water
Nov Week 1st
Life in the ocean- bio zones and types of organisms- plankton, nekton and benthos

Lesson Plan
Govt. P.G. College, Bhiwani
Department of Geography,
Paper: Geography of India (Theory)
Class and Session: B.A. 1th SEM, (2023-24)
(from Sept. 2023 to November 2023)
Name of the Assistant /Associate Professor: Mr. Monu Kumar

Nov. Week 2nd
Diwali vacations
Nov. Week 3rd
Ocean and livelihood, oceans as source of food, mineral and energy resources, ocean deposits
Nov. Week 4th
Sea level change
Sustainable marine environment
Dece.1st
revision
Dece.2nd
revision
Dece.3rd
revision

Lesson Plan
 Govt. P.G. College, Bhiwani
 Department of Geography,
 Paper: Fundamentals of Remote
 Sensing
 Class and Session: M.sc. III sem, (2023-24)
 (from Sept. 2023 to December 2023)

Sept. Week 1st
Definition, history and development of remote sensing, electromagnetic radiation
Sept. Week 2nd
Wavelength regions and their significance, interaction of EMR with atmosphere and surface
Sept. Week 3rd
Atmospheric windows, energy balance equation, imaging and non imaging.
Sept. Week 4th
Active and passive, types of sensors, opto-mechanical scanners, infra red scanners, scatterometer
Oct. Week 1th
Thermal properties of terrain, thermal IR environmental considerations
Oct. Week 2nd
Thermal IR and thermal scanners, microwave remote sensing concepts, back scattering, range direction, azimuth direction, incident angle, depression angle, polarization, dielectric properties, surface roughness and interpretation, speckle and reduction, application of thermal, optical and microwave remote sensing
Oct. Week 3th
Digital image, sources of image degradation, radiometric and geometric correction technique, linear and non linear correction technique
Oct. Week 4th
LUT, FCC and types of image displays, radiometric and spatial enhancement technique, contrast stretching, low pass and high pass filtering
Nov Week 1st
Edge enhancement and edge detection, gradient filters, directional and non directional filtering

Lesson Plan
Govt. P.G. College, Bhiwani
Department of Geography,
Paper: Geography of India (Theory)
Class and Session: B.A. 1th SEM, (2023-24)
(from Sept. 2023 to November 2023)
Name of the Assistant /Associate Professor: Mr. Monu Kumar

Nov. Week 2nd
Diwali vacations
Nov. Week 3rd
Pattern recognition, spectral discrimination, signature bank, parametric and non parametric classifiers
Nov. Week 4th
Supervised and unsupervised classification
Dece.1st
revision.
Dece.2nd
revision
Dece.3rd
revision

Lesson Plan

Govt. P.G. College, Bhiwani

Department of Geography,

Paper: Geography of India (Theory)

Class and Session: B.A. 1th SEM, (2023-24)

(from Sept. 2023 to December 2024)

Name of the Assistant /Associate Professor: Ms. Sanchit

Sept. Week 1st

Geographical Location, Physiography, Structure.

Sept. Week 2nd

Drainage Systems of India.

Sept. Week 3rd

Climate: Introduction, Uniformity and Diversity in the Monsoon Climate, Factors Determining the Climate of India, The Nature of Indian Monsoon, The Rhythm of Seasons, Distribution of Rainfall, Variability of Rainfall. Climatic Regions of India, Classification of Kopen &Thriwartha.

Sept. Week 4th

Soils: Introduction and Classification of Soil, Soil Profile, Soil Erosion, Soil conservation.

Oct. Week 1th

Natural Vegetation: Introduction, Type of Forests, Forest cover in India, Forest Conservation and Wild Life.

Oct. Week 2nd

Natural Hazards and Disasters: Introduction, Meaning and Types, Earthquakes, Tropical Cyclones, Floods, Drought, Landslides, Disaster Management.

Oct. Week 3th

Population: factors & Distribution of Population, Density of Population, Growth of Population, Challenges and Policy in Youth, Urban and Rural Composition.

Oct. Week 4th

**Test and
revision**

Nov Week 1st

Migration: Introduction and Types, Streams of Migration, Spatial Variation in Migration ,Causes of Migration, Consequences of Migration, Assignment and Discussion,

Lesson Plan

Govt. P.G. College, Bhiwani

Department of Geography,

Paper: Geography of India (Theory)

Class and Session: B.A. 1th SEM, (2023-24)

(from Sept. 2023 to December 2023)

Name of the Assistant /Associate Professor: Ms. Sanchit

Nov. Week 2nd

Human Settlement and Levels of Urbanisation: Introduction Rural Settlement.Urban Settlement. Growth of Towns in India, Urbanisation in India, Classification of Towns, Discussion **Land Resources and Cropping Pattern:** Introduction, Land Use & pattern , Land Use Change in India.

Nov. Week 3rd

Agricultural Land Resources and Intensity of Cropping, Cropping Season in India, Types of Farming ,Crops: Rice and Wheat, Crops: Cotton and Sugarcane, Crops: Tea.

Nov. Week 4th

Green Revolution and Problems of Indian Agriculture: Introduction, Silent Features of Green Revolution

Effect of Green Revolution, Demerits of Green Revolution, Suggestion, Problems of Indian Agriculture ,Test

Mineral and Energy Recourses: Meaning, Definition and Types.Distribution of Minerals in India, Iron Ore, Manganese, Mica Coal, Petroleum and Natural Gas, Petroleum and Natural Gas Nuclear Energy Resources.

Dece.1st

Manufacturing Industries: Introduction and Types of Industries & Factors affecting Location of Industries Iron and Steel Industries, Cotton Textiles Industry, Sugar Industry, petro-chemical industries & Industrial Regions in India.

Dece.2nd

Transport and Communication: Meaning and Importance, Land Transport, Rail Transport, Air Transport, Water Transport. Oil and Gas Pipeline, Communication Network.

Dece.3rd

International Trade: Introduction, Composition of India Import and Export, Direction of India Foreign Trade, Sea Ports as Gateways of International Trade, Air Ports, Rail Transport, Air Transport, Water Transport.