M.N.S GOVT. COLLEGE, BHIWAN

LESSON PLAN 2024-25 (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: D.r J.S. Duhan			
Month	**Week**	**Theory's Topic**	**Practical's Topic**
Jan 2025	Week 1st	Human Geography: Definition, Nature, Scope,	Chain and Tape Survey:
	Week 2nd	Approaches, Major Branches,	Plan Preparation;
	Week 3rd	Contemporary Relevance.	Fixing of Chains;
	Week 4th	Human Races: Classification and Distribution; **Class Test 1st Unit**	Methods: Open Traverse,
Feb 2025	Week 1st	Human adaptation to the environment 1. Cold Region–Eskimo	Methods: Close Traverse,
	Week 2nd	Human adaptation to the environment 2. Hot Region: Bushman	Methods: Close Traverse,
	Week 3rd	Human adaptation to the environment 3. Plateau–Gonds.	Methods: Triangulation.
	Week 4th	Human adaptation to the environment 4. Mountains–Gujjars. **Class Test 2nd Unit**	Methods: Triangulation.
Mar 2025	Week 1st	Distribution of Population,	Plane Table Survey: Plan Preparation,
	Week 2nd	Factor Affecting the Distribution of Population;	Methods: Radiation
	Week 3rd	Population Resource Regions and Growth of Population;	Methods: Intersection;
	Week 4th	Human Migration: Causes and Consequences. **Class Test 3rd Unit**	Methods: Two Point and Three
April 2025	Week 1st	Human Settlement: Origin, Growth	Point Problems; Error Correction
	Week 2nd	Human Settlement: Distributional Pattern of Rural Settlements.	Prismatic Compass Survey: Method,
	Week 3rd	Human Settlement: Distributional Pattern of Urban Settlements.	Correction of Bearing, Removal of Error
	Week 4th	Functions and Characteristics of Rural & Urban Settlements and their Problems. **Revision and Class Test 4th Unit**	**File Checking**

Lesson Plan: M.Sc Geog. 4th Sem.

Sub: GEO 205 ~~Physical & Socio-Economic Landscape (Theory)~~ Biogeography.

Sr.No.	week/Month	UNIT/Topic/chapter to be covered
1.	1 Jan to 4 Jan	Familiar with Syllabus
2.	6 Jan to 11 Jan.	Nature, Scope & Significance of Biogeography.
3.	13 Jan to 18 Jan.	Basic ecological Principles.
4.	20 Jan to 25 Jan	Bio Energy cycles in Territorial ecosystems (carbon & Nitrogen cycles)
5.	27 Jan to 1 Feb.	Energy Flow, Trophic Levels & Food web.
6.	3 Feb to 8 Feb	Origin of Fauna & Flora.
7.	10 Feb to 15 Feb.	Major Biomes of the world: Forest, Grassland & Deserts
8.	17 Feb to 22 Feb	Distribution of Plant Life on the earth and its relation to Soil, climate & human activities.
9.	24 Feb to 1 March	Geographical distribution of animals on the earth & its relation to veg. types, climate & human activities.
10.	3 March to 8 March	Communities: Nature of communities & ecosystem: Biodiversities.
11.	17 March to 22 March	Human induced community change; habitat decay and conservation of Biotic Resources
12.	24 March to 29 March	Ecosystem Services & its significance
13.	31 March to 5 April	Environmental hazards, Ecological consequences.
14	7 April to 12 April	Human Perception & adjustment with respect to flood
15	14 April to 19 April	Drought & Earthquake.
16	21 April to 26 April	Bio-Reserves in India
17.	28 April to 30 April	National Forest & wild life Policy of India.

Lesson Plan: M.Sc. Geography 2nd Sem.

Sub: Physical & Socio Economic Landscapes (Theory)

S.No	Week/Month	Unit/Topic/Chapter to be covered
1.	1 Jan to 4 Jan	Familiar with syllabus.
2.	6 Jan to 11 Jan	Earth Surface Processes & Associated Landforms.
3.	13 Jan to 18 Jan	Geomorphic structure, Processes & Landscape evolutions.
4.	20 Jan to 25 Jan	Dynamic equilibrium, & Topographic response to tectonic activities & climate forcing.
5.	27 Jan to 1 Feb	Morphogenetic regions, Topographical & Terrain analysis with field mapping
6.	3 Feb to 8 Feb.	Analysis of Remotely sensed data & numerical Models
7.	10 Feb to 15 Feb	Landscape Mapping Analysis: Landscape Analysis with Maps & Aerial photos.
8.	17 Feb to 22 Feb	Geomorphological Mapping. Field mapping, Field surveying techniques.
9.	24 Feb to 1 March	Identification of facies & genesis of landforms. Stratigraphy. Sediment texture.
10	3 March to 10 March	Structure Particle morphology, Fabric analysis General consideration
11.	17 March to 22 March	clast Macrofabrics & Microstructural descriptions, clast mesofabrics & Laboratory analysis.
12.	24 March to 29 March	Formation of Research design, Significance of Field work in Geography
13	31 March to 5 April	Identification of Research Problem & Formulation of Research design in geography
14	7 April to 12 April	Types of Sources of data: characteristic of Primary & Secondary data. Types of questionnaires & their formulation
15	14 April to 19 April.	Research design & ~~Report~~ Report writing Selection of Sample household. Preparation of field Questionnaire. Field Sample Survey design & Preparation of Location map.
16.	21 April to 26 April	Collection of demographic & Socio economic data from field. Retrieval & Analysis of data collected Format of field report writing.
17	28 April to 30 April	Data entry, coding tabulation. Planned Report writing Ethics & Report writing

Paper : Physical Geography

ClassB.A.1st Sem.(2024-2025)

NameoftheTeacher:Mr. Monu Kumar

Month,Week	
August1st week	Interiorofearth,geologicaltimescale,rocksanditstypes
August2nd week	Isostasytheories,earthquakesandvolcanoes
August3rd week	Continentaldriftandplatetectonics
August4th week	Weathering,masswastingandresultantlandforms
September1st week	Landformsgeneratedbygeomorphicagents
September2nd week	Atmospherecompositionandstructure
September3rd week	Atmospherictemperature andpressure
September4th week	Moisturemeasurement anddistribution
October1st week	SurfacereliefofAtlanticocean
October 2nd week	SurfacereliefofIndianandpacificocean
October3rd week	CurrentsofAtlanticocean
October4th week	CurrentsofIndianandpacificocean

Paper : Human Geography

ClassB.A.2nd Sem.(2024-2025)

NameoftheTeacher:Mr. Monu Kumar

Month,Week	
January4thweek	Definition,natureandscopeofhumangeography
February1st week	Developmentofhumangeography,approaches,branchesandrelationwithother social sciences
February2nd week	Humanrace:meaning,classification,globaldiffusionand distribution
February3rd week	Religion:meaning,natureandclassification,evolutionandglobaldistributionof major religions in the world
February4thweek	Organizationofspace:centralplacetheory,VonThunenandWeber'smodel
March1st week	Distribution,densityandgrowthofpopulation:determinantsandworldpattern
March3rd week	Worldpatternofdevelopment:economyandpolity
March4th week	Worldpatternofmigration:streamsanddeterminants
April1st week	Revision
April2nd week	Revision

M.N.S.Govt.PGCollege,Bhiwani

(AffiliatedtoChaudharyBansiLalUniversity,Bhiwani)

LessonPlan

Subject: IT for Spatial Sciences		**Class:M. Sc2nd Sem**	**Teacher'sName:Sh. Monukumar**
Sr.No.	**Weak Wise 2025**	**Topic**	
1	Jan 4th Weak	Cartography: Geodesy, Photogrammetry, Remote Sensing, Geographical Information System (GIS); Information & Communication Technologies.	
2	Feb.1st 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.2nd weak	Aerial and Satellite based survey techniques (Photogrammetry, RADAR, LiDAR).	
4	Feb.3rd weak	Map as a communication system - Theory of Perception, Symbolization: Conventional signs and symbols: Quantitative, Qualitative Symbols, Use of colour; Qualitative mapping technique.	
5	Feb. 4th weak	Choroschematic and Chorochromatic; Quantitative mapping techniques: Choropleth, Isopleth.	
6	March.1st weak	Physical surveying: GPS and Total Station, DGPS and GPR.	
7	March.3rd Weak	Software: Definition and Types; Operating systems, Application programmes; Information Technology: Introduction, Applications of IT in Cartography.	
8	March. 4th 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. 1st weak	Google Earth Engine etc.; Geodata visualization and analysis: two, three, fourth dimension viewing, visualization by hyper map, Virtual images &WebGIS.	
10	April. 2nd weak	Spatial database: Survey of India, NRSC, BHUVAN, NATMO, Geological Survey of India, Census of India, National Informatics.	
11	April .3rd weak	Cadastral maps, Open street map; Foreign sources of data: USGS Earth Explorer, Earth Data Search.	
12	April 4th weak	Physical surveying: GPS and Total Station; Attribute database: Census of India, Statistical Abstracts, National Informatics Centre.	
13	May. 1st weak	Presentation & Test.	

LESSON PLAN (2024-2025)

(JAN 2025 to APRIL 2025)

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.	Jan	2nd Week	GIS: Definition and Applications; Components and Elements of GIS; Development of GIS technology
2	Jan	3rd Week	Geographic objects: point, line and area; analog and digital maps; theoretical models
3	Jan	4th Week	Framework for GIS, representation of geographic data-base
4	Feb	1st Week	Coordinate systems and map projections.
5.	Feb	2nd Week	Data Input, Storage and Editing: Nature of geographic data: Spatial and Attribute Data,
6.	Feb	3rd Week	Concept of vector and raster based models; data input devices: Digitization
7.	Feb	4th Week	External data bases; storage and manipulation of GIS data bases.
8.	March	1st Week	GIS and Spatial Analysis: Neighbourhood analysis; Proximity analysis and buffers;
9.	March	2nd Week	Overlays Analysis – raster and vector based overlay and their applications; Presentation of GIS output. Different GNSS Systems in Operation;
9.	March	3nd Week	Holi Break
10.	March	4rd Week	How a GNSS system works; Sources of error in a GNSS system,
11.	April	1th Week	Introduction to GIS: Concepts of Projection, datum and spheroid, mean sea level, orthometric height, Geoid models; Formats of storing GIS Data,
12	April	2st Week	Geographical Mapping with hand-held GPS, data downloading and visualization, import GPS data in Google Earth.
13	April	3nd Week	Test and Presentation
14	April	4rd Week	Revision

Amarjeet

01/03/2025

M.N.S GOVT. COLLEGE BHIWANI

LESSON PLAN 2024-25 (Even Semester)

Class: BA 2nd Semester

Name of Paper: Human Geography **(B23-GEO-201)**

Name of Practical: Human Geography **(Theory) (Practical)**

Name of Faculty: Mr. Amarjeet

Month	Week	Theory's Topic	Practical's Topic
Jan 2025	Week 3rd	Definition, Nature and Scope of Human Geography. Development of Human Geography Approaches to Study Human Geography,	1. Composition of major religions of the world **(01 Exercise)**
	Week 4th	Branches of Human Geography and Relation with Other Social Sciences. **Class Test 1st Unit**	2. Methods of representing population distribution and density **(02 Excercises)**
Feb 2025	Week 1st	Human Race: Meaning, Classification of Races and their Global Diffusion and Distribution.	2. Methods of representing population distribution and density **(02 Excercises)**
	Week 2nd	Human Race: Their Global Diffusion and Distribution.	3. Flow diagram of migration streams of world population **(01 Excercise)**
	Week 3rd	Religion: Meaning, Nature and Classification.	3. Flow diagram of migration streams of world population **(01 Excercise)**
	Week 4th	Evolution and Global Distribution of Major Religions in the World. **Class Test 2nd Unit**	4. Plotting of isotims and isodapane **(02 Exercises)**
March 2025	Week 1st	Organization of Space: Central Place Theory,	4. Plotting of isotims and isodapane **(02 Exercises)**
	Week 2nd	Agricultural Location Model and Industrial Location Model.	**5.** Spatial and temporal growth of world population **(02 Exercises)**
	Week 3rd	**Holi Break**	**Holi Break**
	Week 4th	Distribution, Density and Growth of Population.	**5.** Spatial and temporal growth of world population **(02 Exercises)**
April 2025	Week 1st	Determinants and World Pattern. **Class Test 3rd Unit**	**File Checking**
	Week 2nd	World Pattern of Development: Economy and Polity	**File Checking**
	Week 3rd	World Pattern of Migration: Streams and Determinants. **Revision. Class Test 4th Unit**	**File Checking**

Amarjeet
07/03/2025

LESSON PLAN

M.N.S. Govt. College , Bhiwani

Department of Geography

Paper : Geographical Thought

Class M.sc. 2nd Sem. (2024–2025)

Name of the Teacher: Ms. Sanchit

Month , Week	
January 4th week	Place of Geography in the realm of knowledge, Geography as a science and its relationship with other science,
February 1st week	Significance of space, place and location in geography. Explanations in Geography: Methodological and philosophical settings.
February 2nd week	Development of Geographical knowledge during ancient (Greek and Roman) and medieval (Arab) periods,
February 3rd week	Foundation of Modern Geography- Varenius, Kant, Humboldt and Ritter.
February 4th week	Concepts of Modern Geography- chorology, landscapes, areal differentiation, environmental determinism and possibilism.
March 1st week	Dualism in Geography: Physical vs Human Geography and Systematic v/s Regional Geography.
March 3rd week	Quantitative Revolution and Emergence of theoretical geography, Positivist Explanations in Geography - Laws, theories, models, Inductive & deductive logic.
March 4th week	Behavioural and Humanistic Perspectives in Geography, Social Relevance in Geography – Welfare, Radical and Feminist Perspectives, Postmodernism and Geography.
April 1st week	Revision
April 2nd week	Revision

Sanchit

LESSON PLAN

M.N.S. Govt. College , Bhiwani

Department of Geography

Paper : Oceanography

Class M.sc. 3rd Sem. (2024–2025)

Name of the Teacher: Ms. Sanchit

Month , Week	
August 1st week	Definition, Nature and Scope of Oceanography; Distribution of Land and Water;
August 2nd week	Thermohaline Circulation and its association with the global climate,
August 3rd week	Origin of Ocean Basins.
August 4th week	Features of Ocean Basins; Continental Margins and Deep Oceanic Basins; Oceanic Floor Profile: Continental self, Slope, Ridge and Deeps, Abyssal Plains; Submarine Canyons;
September 1st week	Coral reefs: Types, Origin and Distribution;
September 2nd week	Configuration of Ocean Floor of Indian, Atlantic and Pacific Ocean.
September 3rd week	Ocean Currents: origin, types and dynamics; Climate change and ocean circulation,
September 4th week	Physiochemical properties of sea water: Temperature, Density, Salinity and Dissolved Gases;
October 1st week	Ocean movement: Waves, Tides; (Theory of Tides)and currents.
October 2nd week	Life in the Ocean: Bio zones; Types of Organism- Plankton, Nekton and Benthos;
October 3rd week	Ocean and livelihood; Oceans as Source of Food, Mineral and Energy Sources;
October 4th week	Oceans Deposits; Sea Level Change: Evidences and Impacts; Sustainable marine environment.

Sanchit

LESSON PLAN

M.N.S. Govt. College , Bhiwani

Department of Geography

Paper : Physical Geography

Class B.A. 1st Sem. (2024–2025)

Name of the Teacher: Ms. Sanchit

Month , Week	
August 1st week	Interior of earth, geological time scale, rocks and its types
August 2nd week	Isostasy theories, earthquakes and volcanoes
August 3rd week	Continental drift and plate tectonics
August 4th week	Weathering , mass wasting and resultant landforms
September 1st week	Landforms generated by geomorphic agents
September 2nd week	Atmosphere composition and structure
September 3rd week	Atmospheric temperature and pressure
September 4th week	Moisture measurement and distribution
October 1st week	Surface relief of Atlantic ocean
October 2nd week	Surface relief of Indian and pacific ocean
October 3rd week	Currents of Atlantic ocean
October 4th week	Currents of Indian and pacific ocean

LESSON PLAN

M.N.S. Govt. College , Bhiwani

Department of Geography

Paper : Human Geography

Class B.A. 2nd Sem. (2024–2025)

Name of the Teacher: Ms. Sanchit

Month , Week	
January 4th week	Definition, nature and scope of human geography
February 1st week	Development of human geography, approaches, branches and relation with other social sciences
February 2nd week	Human race: meaning, classification, global diffusion and distribution
February 3rd week	Religion: meaning , nature and classification, evolution and global distribution of major religions in the world
February 4th week	Organization of space: central place theory, Von Thunen and Weber's model
March 1st week	Distribution, density and growth of population: determinants and world pattern
March 3rd week	World pattern of development: economy and polity
March 4th week	World pattern of migration: streams and determinants
April 1st week	Revision
April 2nd week	Revision

LESSON PLAN (2024-25)

(January 2025 to ~~April~~, 2025)

M.N.S. Govt. College, Bhiwani

Name of Assistant Professor - Madan Sir

CLASS - M.Sc (Geography) 2nd Semester

Subject: 19GEO 202 Climatology

SR. NO.	Month	Week Wise 2024	Topics
1.	January	2nd Week	Climatology: Definition, nature and scope; climatology and Meterology, Atmosphere: composition and structure.
2.	Jan.	3rd Week	Insolation: Solar radiation and terrestrial radiation, latitudinal and seasonal variations; effects of atmosphere green house effect, heat budget and latitudinal heat balance
3.	Jan.	4th Week	Temperature: Processes of heat energy transfer, heating and cooling of atmosphere, horizontal and vertical distribution, inversion of temp.
4.	Feb.	1st Week	Atmospheric pressure: measurement and its distribution pattern-vertical, horizontal and seasonal variations.
5.	Feb.	2nd Week	General circulation: planetary, geostrophic, subtropical, westerlies and polar winds, tricellular meridional circulation, walker circulation -ENSO and La Nina;
6.	Feb	3rd Week	Circulation pattern in vertical and horizontal planes. Origin of monsoon and jet streams. Atmospheric moisture: sources of atmo moisture; types and distribution of humidity and evaporation.
7.	Feb.	4th Week	Condensation: conditions, forms and types. Precipitation: proces, form types and distribution. Atmospheric equilibrium: stability and instability.
8.	March.	1st Week	Adiabatic process of temperatur change, lapse rate: dry and wet adiabatic rate.
9.	March	2nd Week	Holi ~~H~~ Holidays
10.	March	3rd Week	Air masses: definition, characterstics, modification and classificatn. Fronts: frontogenesis, frontlysis and classification.
11.	March	4th Week	Atmospheric disturbances: extra tropical and tropical cyclones their origin and associated weather, thunderstorms, tornadoes, and waterspouts.
12.	April	1st Week	Climatic classification: Base of climatic classifaction, by Koppen and Thornthwaite, Climatic changes Evidences: Thornthwaite-Climati changes. Evidences: Theories of climate change:- Milankovitch Cycle, Atmospheric Dust hypothesis, carbondioxide theory and astronomic Theory of climate change
13.	~~May~~ April	2nd Week	Revision

M.N.S GOVT. COLLEGE BHIWANI

LESSON PLAN 2024-25 (Even Semester)			
Class: BA 6th Semester			
Name of Paper: Climatology (20UGEO601)			
Name of Practical: Field Survey			
Name of Faculty: Mr. Madan			
Month	**Week**	**Theory's Topic**	**Practical's Topic**
Jan 2025	Week 1st	Meaning Definition of Climatology,	Physical Survey: Identify the prominent landform and earth surface process of the survey area
	Week 2nd	Nature and Scope of Climatology,	-do-
	Week 3rd	Climate and Weather	Demarcate the landform features of the selected area on a topographical sheet
	Week 4th	Elements of Climate, Factor's affecting Climate, Composition and structure of atmosphere.	-do-
Feb 2025	Week 1st	Atmospheric Temperature: Vertical and Horizontal Distribution, Atmospheric Pressure and Wind Distribution. **Class Test 1st Unit**	Identify the various soil types and their characteristics, classify the flora and fauna of the area
	Week 2nd	Atmospheric Moisture: Humidity, Evaporation and forms of Conservation.	Identify the relationship of various landforms fauna and flora with land use settlement structure and lifestyle of people.
	Week 3rd	Types of Precipitation, World Pattern of Rainfall. **Class Test 2nd Unit**	Based on all observations prepare a field survey report
	Week 4th	Air Masses: Concepts and Classification Atmospheric Disturbances	Socio economic survey: Prepare a structured questionnaire/schedule
Mar 2025	Week 1st	Tropical and Temperate Cyclones	Supplement the information by personal observations and input from stakeholder.
	Week 2nd	Anticyclones **Class Test 3rd Unit**	Based on results of the household survey prepare a field report of social economic survey
	Week 3rd	Climatic Regions;	Prepare Maps
	Week 4th	**Holi Vacations**	
April 2025	Week 1st	Classification of Koppen and Thornthwaite;	Prepare sketches
	Week 2nd	Climate changes and global warming: Evidences, Causes,	Prepare photographs
	Week 3rd	Climate changes and global warming: Consequences and measure of it's control	Prepare photographs
	Week 4th	**Revision & Class Test 4th Unit.**	Report Checking

Lession Plan Session 2024-2025

Subject:- Geography

Teacher Name: - Ashok Kumar

Sr	Week Starting on	B.A. 6th Sem. Climatology	M.Sc. 2nd Sem. Agriculture Geography
1	January -1st week	Climatology: Nature and Scope; Climate and Weather;	
2	Jan- 2nd week	Elements of Climate; Factors Affecting Climate;	
3	Jan-3rd	Elements of Climate; Factors Affecting Climate;	
4	Jan- 4th week	Atmospheric Temperature: Vertical and Horizontal Distribution.	Agricultural Geography: Definition, nature, scope and significance; Approaches: commodity, systematic, and regional
5	Feb. 1st week	Atmospheric Pressure and Wind Distribution;	Origin and dispersal of agriculture; gene-centres of agriculture;
6	Feb. 2nd week	Atmospheric Moisture: Humidity,	Determinants of agricultural patterns: physical, technological and cultural factors
7	Feb.3rd week	Forms of Condensation; Types of Precipitation;	Concepts of land capability classification (India), Land use survey and Classification (British and Indian)
	Feb. 4th week	World Patterns of Rainfall. Unit Test	, land use and cropping pattern; Agricultural concept and their measurement- (a) intensity of cropping

9	March-1st week	Air masses: Concepts and Classification;	degree of commercialization, (c) diversification and specialization, (d) agricultural efficiency and productivity,
10	March 3rd	Atmospheric Disturbances; Tropical Cyclone	crop combination and concentration; Von Thunen Model of agricultural land use
11	March 4th week	Temprate Cyclone and Anticyclone	Agricultural Regionalisation: Concept and criteria, Whittlesey's agricultural systems;
12	April -1st week	Climatic Regions; Classification of Koppen	agricultural typology by Kostrowiki; Agro-climatic zonation: Concept and agro-climatic regions of India
13	April 2nd week	Thornthwaite Classification and Climate Changes	a. Agricultural regions of India, Regional imbalances in agricultural productivity in India. Green revolution: Its impact and consequences in India.
	April-3rd week	Global Warming: Evidences, Causes, Consequences and Measure of its Control.	Neo-liberalization and Indian agriculture; Food Security: Concept and components, Food Security in India; Contemporary Issues: Food, nutrition and hunger, food security, drought
15	April-4th week	Global Warming: Evidences, Causes, Consequences and Measure of its Control. Revision	food security, food aid programmes; environmental degradation, New Perspectives in Agriculture: Urban agriculture,

			Contract Farming, Agri-business, Sustainable Agricultural Development; Agriculture and climate change: Impacts and adaptation, role of irrigation Unit Test -1st & 2nd.

Teacher's Signature

HOD Signature

Lession Plan Session 2024-2025

Subject: - Geography

Teacher Name: - Khushbu

Sr	Week Starting on	M.Sc 2nd Sem. Population and Settlement Geography
1	January -1st week	Familiar with Syllabus
2	Jan- 2nd week	Evolution of Population Geography, Scope and content of population geography
3	Jan-3rd week	Sources of data and Nature of data.
4	Jan- 4th week	World population distribution and growth with respect to stages of demographic transition.
5	Feb. 1st week	Population growth, distribution and trend with respect to India at sub-national level
6	Feb. 2nd week	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, Phenomenon of ageing population.
7	Feb.3rd week	Population Dynamics: Fertility, mortality and migration- Basic measures, spatial and temporal trends.
	Feb. 4th week	Socio-cultural (Literacy and education, religious composition; rural-urban residence).
9	March- 1st week	Definition and Scope of settlement geography. Locational Aspects- Site, Situation, Characteristics (Size, Pattern, Shape, Functions),
10	March 3rd	Distribution – Density, Spatial Distribution Pattern and Methods of Analysis of Distribution.
11	March 4th week	Settlements Types based on Site, Situation, Population size and functions.
12	April -1st week	Spatial and Temporal trends in size and growth of settlements with special reference to India
13	April 2nd week	Functions of Settlements- Rural/ Urban Distribution.
	April-3rd week	Empirical and theoretical models explaining the functional classification of towns & villages; functional classification of urban centres
15	April-4th week	Functional typology of villages, functional landscape, functional structure of towns in India.

Lession Plan Session 2024-2025

Subject: - Geography

Teacher Name: - Khushbu

Sr	Week Starting on	M.Sc 4th Sem. Settlement Geography
1	January -1st week	Familiar with Syllabus
2	Jan- 2nd week	Evolution, size and growth of human settlements
3	Jan-3rd	Theories of evolution of settlements; size, distribution, spatial and temporal trends in size and growth of settlements
4	Jan- 4th week	Distribution Pattern: Spatial distribution pattern of settlements: Theoretical models and empirical findings.
5	Feb. 1st week	Settlement Structure: Physical (characteristics of internal structure and external form, theories explaining internal morphological structure of cities
6	Feb. 2nd week	empirical and theoretical models explaining the functional classification of towns & villages; functional classification of urban centres
7	Feb.3rd week	functional typology of villages, functions and scope, functional structure of towns in India
	Feb. 4th week	Land use (principles and theories of land use in urban and rural setting:
9	March-1st week	House types and building materials, environmental, socio-economic/cultural factors influencing the dynamics of settlement structure.
10	March 3rd	House types and building materials, environmental, socio-economic/cultural factors influencing the dynamics of settlement structure.
11	March 4th week	Settlement Hierarchy: theories of Christaller and Losch and their application to settlement hierarchy,
12	April -1st week	factors contributing to hierarchy, Central Place theory: measurement of centrality and hierarchy.
13	April 2nd week	Hierarchy of settlements in India – an empirical exercise.
	April-3rd week	Issues, perspectives and policies on Population and Human Settlements.
15	April-4th week	Interface between human settlements and environment.

Paper: Statistical Methods in Geography

Class M.Sc.1st Sem.(2024-2025)

Nameofthe Teacher:Ms. Khushbu

Month,Week	
August1st week	Familiar with Syllabus
August2nd week	Geography and statistics, significance of statistics in geographical studies.
August3rd week	Descriptive statistics: tabulation and graphical representation of data.
August4th week	Measures of central tendency: mean, median and mode
September1st week	Partitioned values: Quartiles and deciles. Comparing the mean, median and mode
September2nd week	Measure of dispersion: Range, quartile deviation, mean deviation
September3rd week	standard deviation, coefficient of variation
September4th week	Measures of inequality: location quotient and Lorenz curve.
October1st week	Bivariate analysis: scatter diagram, correlation analysis
October 2nd week	Spearman's rank correlation and Karl Pearson's correlation coefficient
October3rd week	Test of significance: Chi-square test, student's T-test, F-test.
October4th week	Simple linear regression model: regression equations, construction of regression line,
November 2nd Week	computation of residuals and mapping
November 3rd Week	Basis of multivariate analysis: correlation matrix, partial and multiple correlations
November 4th Week	Measure of composite Indices (Scale Biasness weightage, Z Score and Principal Component Analysis).

Paper: Morphometric Analysis (Practical)

Class M.Sc.1st Sem.(2024-2025)

Name of the Teacher: Ms. Khushbu

Month, Week	
August1st week	Familiar with Syllabus,
August2nd week	Interpretation of toposheets: (a) Physical features and (b) Cultural features
August3rd week	Delineation of Watershed (All the exercises of morphometry shall be based on delineated watershed)
August4th week	Profile Analysis: Transverse and Longitudinal a. Serial Profiles (1) b. Superimposed Profiles (1)
September1st week	c. Composite Profiles (1) d. Projected Profiles (1) e. Longitudinal or valley Thalweg Profile (1)
September2nd week	Linear Aspects of streams: a. Relationship between stream order and stream Number (1)
September3rd week	b. Relationship between stream order and Average stream length (1) c. Bifurcation ration (1)
September4th week	Areal Aspects of streams: a. Drainage Frequency (1)
October1st week	b. Drainage Density (1)
October 2nd week	Relief & Slope Aspect a) Area Height Curve (1) b) Altimetric frequency curve (1)
October3rd week	c) Hypsographic Curve (1) d) Hypsometric Integral Curve
October4th week	e) Clinographic or clinometric curve (1)
November 2nd Week	Slope Analysis a) Wentworth's Method of Average Slope
November 3rd Week	b) G. H. Smith's Method of Relative Relief (1)
November 4th Week	Prepartion of Viva-Voice

Paper: Remote Sensing & GIS (Practical)

Class B.A. 5th Sem.(2024-2025)

Name of the Teacher:Ms. Khushbu

Month,Week	
August1st week	Familiar with Syllabus
August2nd week	Remote Sensing: Working Principles
August3rd week	Basic Characteristics of Aerial Photographs
August4th week	Interpretation of Aerial Photographs
September1st week	Identification of various features on Satellite Images
September2nd week	Interpretation of various features on Satellite Images
September3rd week	Basic Concept and Component of GIS
September4th week	GIS: Georeferencing
October1st week	GIS: Digitization
October 2nd week	GIS: Layout map
October3rd week	GIS: Map making and Choropleth Maps
October4th week	Basic Concept of GPS and their types
November 2nd Week	Mapping with GPS (Global Positing System)
November 3rd Week	Mapping with Total Station (TS)
November 4th Week	Preparation of Viva-Voice