

Lesson plan

2022- 23

GIS

M.sc semester 3rd

Madhu kumari

August

GIS: Definition and scope; Components and Elements; Geographic framework: Geoid and Spheroid. Coordinate projection system: Definition and need, Implications of spherical and planar coordinate systems and their transformations in GIS:

September

Geographic Entities: Point, line and Polygon; Data Types: Raster and Vector: Data formats: Spatial and non-spatial; Sources of data input; Generation of Geo-data bases; Data base management system; Spatial topology.

October

Spatial Analysis: Overlay, Neighborhood and Proximity: Integration of raster and vector data; GIS and Map Production; GIS and Cartography; Bertin's visual variables

November

Fundamentals of Global Positioning System (GPS): Concept and Principles; GPS Segment: Space, Control and User; GPS devices: handheld and differential GPS; GPS system: NAVSTAR, GALILIO and GAGAN, Applications of GPS

Lesson Plan

Name of Assistant Professor: Madhu Kumari

Class: M.Sc (P)

Session – 2022-23

Paper: Oceanography (Geography)

Month-January

Nature and scope of oceanography. Wegener drift hypothesis

Test and revision

Month-February

Sea floor spreading and plate tectonic Features of ocean basin Configuration of ocean floor Indian Atlantic Pacific Ocean

Test and Revision

Month-March

Current of Pacific, Atlantic, Indian Ocean Physical properties of sea water Ocean food

Test and Revision

Month-April

Mineral and energy sources, Sea level change Evidence and impact sea level change EEZ, UNCLOS.

Test and Revision

Lesson Plan

Name: Madhu

Class and session: B.A 3rd sem (2022-23)

July
Weather and Climate; Origin, Composition and Structure of Atmosphere. Test and revision
August
Insolation, Global Heat Budget, Horizontal and Vertical Distribution of Temperature, inversion of Temperature. Atmospheric Pressure-Measurement and Distribution, Pressure.
September
Belts, Planetary winds, Monsoon, Jet Stream EL NINO-La Nina Phenomenon and Local winds. Humidity-Measurement and Variables, Elevation, Condensation, forms and types and distribution, hydrological cycle. Test and Revision
October
Configuration of oceanic floors and surface relief of Pacific, Atlantic and Indian oceans; Temperature and salinity of oceans. Test and Revision
November
Tides, Waves and Oceanic currents; Circulation in Pacific, Atlantic and Indian oceans; Oceanic resources. Test and Revision

Signature

Lesson plan

Name of Assistant/Associate Professor- Madhu Kumari

Class - B.A. 4th Sem

Subject- Geography

Paper 203: Human Geography

Session- 2022-2023

Months	Contents
January	Nature and scope of Human Geography, Branches and Approaches Division of Mankind, concept of men environment relation
February	Human adaptation to the environment: Eskimos, Bushmans, Gonds Meaning, nature and components of resources, Classification and Distribution of Resources Utilization and conservation of Resources
March	Distribution and density of world population, population growth, fertility and mortality patterns. Concept of over, under and optimum population Population theories: Malthus, Ricardo and Marx.
April	Rural settlements: Meaning, classification and types. Urban settlements: Origin, classification and functions of towns. Population pressure, Environmental Degradation,

Madhu Kumari

Department of Geography

GCW, Narnaul

Lesson plan

Name of Assistant/Associate Professor – Shweta

Class - B.A. 6th Sem

Subject- Geography

Paper GEO 303: INTRODUCTION TO REMOTE SENSING, GIS & QUANTITATIVE METHODS

Session- 2022-23

Months	Content
January	Introduction of Aerial photograph
February	Elements of aerial photograph Introduction to remote sensing Type of imagery and their application Introduction to GIS
March	Application of GIS Measure of Central tendency mean median mode Measure of dispersion Range , Quartil deviation, mean deviation, standard deviation, cofficient of variation
April	Range Quartil deviation Test and revision

Shweta

Extension Lecturer

Deptt. of Geography

Government College for Women, Narnaul

Lesson Plan

Name of Extension Lecturer: Shweta

Class: M.Sc. Geography (P), 1ST Sem

Paper: Climatology

Session: 2022-2023

MONTHS	TOPICS
SEPTEMBER	<p>Climatology; meaning, definition and scope; definition of Weather and climate: Climatology and meteorology. Atmosphere: Origin</p>
OCTOBER	<p>Atmosphere: Composition and Structure. Insolation: Solar radiation and terrestrial radiation; latitudinal and seasonal variations, effects of atmosphere: greenhouse effect, heat budget and latitudinal heat balance. Temperature: Processes of heat energy transfer, heating and cooling of atmosphere, horizontal and vertical distribution, inversion of temperature. Atmospheric pressure: measurement and its distribution pattern- vertical, horizontal and seasonal variations. General circulation: planetary, geostrophic, subtropical, westerlies and polar winds, tricellular meridional circulation</p>

NOVEMBER	<p>Walker circulation- ENSO and La Nina; circulation pattern in vertical and horizontal planes. Origin of monsoon and jet streams.</p> <p>Atmospheric moisture: sources of atmospheric moisture; types and distribution of humidity and evaporation.</p> <p>Condensation: conditions, forms and types. Precipitation: process, form, types and distribution. Atmospheric equilibrium: stability and instability, adiabatic process of temperature change, lapse rate: dry and wet adiabatic rate.</p> <p>Tests and assignment.</p>
DECEMBER	<p>Air masses: definition, characteristics, modification classification. Fronts: frontogenesis, frontolysis and classification. Atmospheric disturbances: extra tropical and tropical cyclones, their origin and associated weather, thunderstorms, tornadoes and waterspouts. Climatic classification: Bases of climatic classification by Koppen and Thornthwaite.</p>
JANUARY	<p>Climate changes – Evidences; Theories of Climate change- Atmospheric Dust Hypothesis, Carbon Dioxide Theory and Astronomic Theory of Climate Change.</p> <p>Revision</p>

Signature

Lesson plan

Name of Assistant/Associate Professor - Shweta

Class - B.A. 5th Sem

Subject- Geography

Paper 301: Economic Geography

Session- 2022-23

Months	Content
July	Nature and Scope of Economic Geography Branches of Economic Geography Importance of Economic Geography
August	Classification of Economic Activities World Natural Resources Assignment Test
September	Utilization and Conservation of Natural Resources Biotic and Abiotic Resources Agriculture Resources Test Revision
October	Minerals Resources Iron, Coal, Petroleum and Natural Gas Resources Manufacturing Industries Test Revision
November	Transport and Communication International trade Assignment Revision

Shweta

Extension Lecturer

Deptt. of Geography

Government College for Women, Narnaul

Signature

Lesson Plan

Name of Extension Lecturer: Shweta

Class: M.Sc(F) Geography

Paper: Geography and Disaster Management

Session: 2022-2023

January

Definition and nature of disasters; Basic concepts: Hazards and Disaster, Classification/Types of Hazards/Disasters;

February

Disaster management: meaning, concept, principal, scope, objectives and approaches, elements of disaster management; Geography and Disaster. Major disaster of world and India. Tectonic Disasters: Volcano, Earthquake, Tsunami and Landslides;. Hydrological Disaster: Floods and Droughts; Climatic Disasters: Cyclones and Heavy precipitation;

March

Human induced Disasters: Industrial and Transport Disaster; Wars and Terrorism induced Disaster. Disaster Mitigation: Hazard assessment, Vulnerability assessment and affecting factors, risk assessment and affecting factors, protective measures and public information Disaster Preparedness: Disaster plan, Damage inspection, repair and recovery procedures, communication And control centres, disaster forecasting, warning and prediction.

April

Disaster relief: rapid damage assessment, search and rescue operations, Evacuation and shelter, food and medical supply, mass media coverage, relief aid; significance of reconstruction planning, Economic and social rehabilitation; Impact of disaster on society and economic; Disaster Management Policies and mechanism in India; Remote sensing and GIS in disaster management planning.

Signature

Lesson Plan

Name of Extension Lecturer-Shubh Lata

Paper: Introduction to Remote sensing, GIS & Quantitative methods.

Semster-6 th

Session-2022-23

Months

January

Introduction to Aerial Photograph: their advantages and types, Elements of Aerial photo interpretation.

February

Introduction to remote sensing: electro-magnetic spectrum, stages in remote sensing, type of remote sensing, satellite orbits-geostationary and near polar. Application of remote sensing in various fields such as agriculture, environment and resource mapping.

March

Introduction to geographical information system: Definition, purpose, advantages and software and hardware requirements. Application of GIS in various field of geography.

April

Measure of central tendency: mean, medium and mode. Measure of dispersion: Range, quartile deviation and mean deviation, standard deviation, coefficient of variation.

May

REVISION, Test and Problem solution.

Shubh Lata

Lesson plan

Name of Extension Lecturer –Shubh Lata

Paper: Economic Geography (Sem-5th)

Session-2022 to 23

Months

July

Nature and scope and relationship of economic geography with economics and other branches of social sciences. Classification of economic activities and their impact on environment.

August

World natural resource: Types, bases and classification. Conservation and utilization of natural resources.

September

Spatial distribution of food (rice and wheat), commercial (cotton and sugarcane) and plantation crops (tea, rubber and coffee). Classification of mineral resources (ferrous and non-ferrous), distribution and production of coal, iron ore, petroleum and natural gas.

October

Classification of industries, World distribution and production of iron and steel and textile industry, major industrial complexes of the world.

November

Transport, Communication and trade: geographical factors in their development, major modes of water, land and air transport, recent trends in international trade.

December

Revision and test and problem solution.

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Lesson Plan

Name of Extension Lecture-Shubh Lata

Paper-Regional development planning with special reference to India

Class-M.sc Final, Sem-3rd

Session-2022-23

Months	Topic
August	Concept in Development and regional studies: regional and spatial disparities, Method of regional delineation, types of planning region, balanced regional development
September	Development theories: Trickle down theory(Hirschman), Growth pole model(Parroxx), Cumulative causation model(Myrdal), Core-periphery theory(Friedman); Recent divergence and convergence theories: Kuznets curve, dependency theory, Bio regionalism, eco feminism, deep ecology, sustainable development
October	Need for planning region; characteristics of planning region; planning process-sectoral, temporal and spatial dimension; short term and long term perspective of planning; planning for a region's development

November	Multi –regional planning in national contexts; sectoral-spatial development with special reference to agricultural and industrial development in India; decentralization and development, state, civil society and market in the neo-liberal economic framework; globalization.
December	Regional planning in India: Regional imbalances/disparities-cause and consequences; measurement of regional planning and programmes: backward area development, tribal area development, Hilly area development, arid/desert area development, flood and drought prone areas development and coastal area development.

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Lesson Plan

Name of Extension Lecture-Shubh Lata

Paper- Geographical Thoughts.

Class-M.sc Final, Sem-2nd

Session-2022-23

Months

January

Classification of Knowledge and place of geography in the realm of knowledge, Geography as a science and its relationship with other science. Significance of space, place and location in geography. Explanation in geography: Methodological and philosophical settings.

February

Development of geographical knowledge during ancient(Greek and Roman) and medieval (Arab) periods, Foundation of modern geography-Varenius, Kant ,Humboldt and Ritter.

March

Concept of modern geography-Chorology, landscapes, Areal differentiation, environmental determinism and Possibilism, Dichotomy and dualism in geography: Physical vs human geography and systematic vs regional geography.

April

Quantitative revolution and emergence of theoretical geography, Positivist, Explanations in geography-laws, theories, models, inductive and deductive logic.

May

Behavioral and Humanistic perspective in geography, Social relevance in geography-welfare, radical and feminist perspectives, postmodernism and geography.

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LESSON PLAN

M.SC.-GEOGRAPHY

SESSION : 2022-23

(SEMESTER-I)

SUBJECT – LAB COURSE-I (INTERPRETATION OF TOPOGRAPHICAL SHEETS)**TEACHER'S NAME : SUNITA**

MONTHS	TOPIC
AUGUST TO SEPTEMBER	I) INTRODUCTION TO TOPOGRAPHICAL SHEETS USES & IMPORTANCE OF TOPOGRAPHICAL SHEETS; DEVELOPMENT OF TOPOGRAPHICAL MAPPING IN INDIA. PRELIMINARY INFORMATION ON TOPOGRAPHICAL SHEETS PUBLICATION AVAILABILITY & PROCUREMENT OF TOPOGRAPHICAL SHEETS OF INDIA. RESTRICTED & UNRESTRICTED TOPOGRAPHICAL SHEETS IN INDIA.
	II) INDEX NUMBERING & NOMENCLATURE OF TOPOGRAPHICAL SHEETS OF INDIA.
	III) INTRODUCTION TO CONVENTIONAL SIGNS USED ON TOPOGRAPHICAL SHEETS IN INDIA.
OCTOBER TO NOVEMBER	IV) INTERPRETATION OF NATURAL FEATURES (REUEF, DRAINAGE & VEGETATION)
	V) DRAWING OF SERIAL, SUPERIMPOSED PROJECTED & COMPOSITE PROFILES
	VI) INTERPRETATION OF CULTURAL FEATURES (HUMAN, SETTLEMENTS, LAND-USE, MEANS OF IRRIGATION MEANS OF TRANSPORT).

LESSON PLAN

M.SC.-GEOGRAPHY

SESSION : 2022-23

(SEMESTER-II)

**SUBJECT – LAB COURSE-2 (COMPUTER BASED DATA
MANAGEMENT & GEOGRAPHY)****TEACHER'S NAME : SUNITA**

MONTHS	TOPIC
JANUARY TO FEBRUARY	I) INTRODUCTION TO COMPUTER SYSTEM & MS OFFICE
	II) ENTERING & MANAGING DATA USING SPREADSHEETS
	III) REPRESENTATION OF GEOSPATIAL DATA
	A) LINE GRAPH (SINGLE & POLYGRAPH)
	B) BAR GRAPH (SIMPLE, COMPOUND & MULTIPLE)
	C) PIE CHARTS
	D) X, Y SCATTER PLOTS
E) TREND LINE	
MARCH TO APRIL	I) INTRODUCTION TO DATA ANALYSIS PROGRAM
	II) ENTERING & MANAGING DATA IN PROGRAM
	III) ANALYSIS OF DATA USING DIFFERENT STATISTICAL METHODS IN PROGRAM
	IV) PRE PREPARATION & INTERPRETATION OF SIMPLE & MULTIPLE CORRELATION REGRESSION MATRIX IN SEPSIS
	V) PREPARATION OF DISTRIBUTION MAPS
	A) CHOROPLETH MAPS – MONOVARIATE & BIVARIATE
	B) DOT METHOD
	VI) MISCELLANEOUS DIAGRAMS & GRAPHS
	A) CARTOGRAMS
B) ACCESSIBILITY MAPS	

LESSON PLAN

M.SC.-GEOGRAPHY

SESSION : 2022-23

(SEMESTER-III)

SUBJECT – ENVIRONMENTAL GEOGRAPHY

TEACHER'S NAME : SUNITA

DATE	MONTHS	TOPIC
21 TO 26	AUGUST	ENVIRONMENTAL GEOGRAPHY : MEANING & SCOPE, PRINCIPLES OF ECOLOGY; HUMAN ECOLOGICAL ADAPTATIONS : INFLUENCE OF MAN ON ECOLOGY & ENVIRONMENT GLOBAL & REGIONAL ECOLOGICAL CHANGES & IMBALANCES
28 TO 2	SEPTEMBER	CONCEPT OF ENVIRONMENT; COMPONENTS OF ENVIRONMENT – ABIOTIC TYPES OF ENVIRONMENT, BIODIVERSITY & BIOSPHERE RESERVE.
4 TO 9	SEPTEMBER	ECOSYSTEM : CONCEPT, TYPES, COMPONENTS & FUNCTION; ENERGY FLOW IN ECOSYSTEM; FOOD CHAIN, FOOD WEB, TROPHIC LEVELS; ECOLOGICAL PRODUCTION & ECOLOGICAL PYRAMIDS.
11 TO 16	SEPTEMBER	BIOGEOCHEMICAL CYCLES; HYDROLOGICAL. CARBON OXYGEN & NITROGEN CYCLES. ECOSYSTEM – THEIR MANAGEMENT & CONSERVATION.

CONTD.....P/2..

DATE	MONTHS	TOPIC
19 TO 23	SEPTEMBER	ECOLOGICAL REGIONS OF INDIA. ENVIRONMENTAL DEGRADATION – MEANING, TYPES, CAUSES, MANAGEMENT AND CONSERVATION ENVIRONMENTAL POLLUTION – MEANING, TYPES, SOURCES, CAUSES & EFFECTS OF ENVIRONMENTAL POLLUTION WITH SPECIAL REFERENCE TO AIR POLLUTION & WATER POLLUTION.
25 TO 30	SEPTEMBER	ENVIRONMENTAL HAZARDS; EARTH-QUAKES VOLCANOES, TSUNAMIS, FLOODS, DROUGHTS FAMINES – DISTRIBUTION, CAUSES, CONSEQUENCES & MEASURES; GLOBAL WARMING & CLIMATE CHANGE.
2 TO 7	OCTOBER	GREENHOUSE EFFECT, OZONE DEPLETION
9 TO 14	OCTOBER	ACID RAIN : URBAN SMOG CLASS-TEST
16 TO 21	OCTOBER	ENVIRONMENTAL EDUCATION & LEGISLATION; ENVIRONMENT IMPACT ASSESSMENT (EIA).
23 TO 28	OCTOBER	GLOBAL SUMMITS & AGENCIES OF ENVIRONMENTAL CONSERVATION.
30 TO 4	NOVEMBER	ENVIRONMENTAL ISSUES & POLICIES IN INDIA; NATIONAL ENVIRONMENTAL POLICY – 2006 OF INDIA.
6 TO 11	NOVEMBER	REVISION & CLASS TEST UNIT-I
13 TO 18	NOVEMBER	REVISION & CLASS TEST UNIT-I
20 TO 25	NOVEMBER	REVISION & CLASS TEST UNIT-I

LESSON PLAN

B.A. (R-17, SEC-B)

SESSION : 2022-23

(SEMESTER-II)

SUBJECT – PHYSICAL GEOGRAPHY & PRACTICAL GEOGRAPHY

TEACHER'S NAME : SUNITA

DATE	MONTHS	TOPIC
5 TO 20	JANUARY	DEFINITION, NATURE, SCOPE & FIELDS OF PHYSICAL GEOGRAPHY
22 TO 27	JANUARY	INTERIOR STRUCTURE OF THE EARTH
29 JAN. TO 3	FEBRUARY	GEOLOGICAL TIME SCALE & ROCKS
5 TO 10	FEBRUARY	EARTH MOVEMENTS : FOLDS & FAULTS, ORGANIC
12 TO 17	FEBRUARY	EPEIROGENIC, EARTHQUAKES
19 TO 24	FEBRUARY	VOLCANOES, THEORY & ISOSTASY
26 FEB TO 2	MARCH	WEGNER'S THEORY OF CONTINENTAL DRIFT & PLATE TECTONIC THEORY.
4 TO 9	MARCH	WEATHERING : PROCESSES, CAUSES & IT TYPES
11 TO 16	MARCH	MASS – MOVEMENTS; CAUSES, ITS TYPES & IMPACTS
18 TO 23	MARCH	CONCEPT OF CYCLE OF EROSION : CYCLE
25 TO 30	MARCH	CYCLE OF EROSION BY W.M. DAVIS
1 TO 6	APRIL	CYCLE OF EROSION BY PENCK
8 TO 13	APRIL	PROCESS & LAND FORMS OF WIND, RIVER
15 TO 20	APRIL	UNDERGROUND WATER, GLACIERS
22 TO 27	APRIL	SEA WAVES
29 APR TO 4	MAY	REVISION UNIT-I & CLASS TEST
6 TO 11	MAY	REVISION UNIT-II & CLASS TEST
13 TO 18	MAY	REVISION UNIT-III & CLASS TEST
20 TO 25	MAY	REVISION UNIT-IV & CLASS TEST

LESSON PLAN

M.SC.-GEOGRAPHY

SESSION : 2022-23

(SEMESTER-I)

SUBJECT – GEOMORPHOLOGY

TEACHER'S NAME : SUNITA

DATE	MONTHS	TOPIC
15 TO 20	JANUARY	DEFINITION, NATURE, SCOPE & FUNDAMENTAL CONCEPTS – UNIFORMITARIANISM, GEOLOGICAL STRUCTURE & LANDFORMS, MONOCYCLIC.
22 TO 27	JANUARY	MULTICYCLIC & POLYGENETIC EVOLUTION OF LANDSCAPES, CLIMATOGENETIC GEOMORPHOLOGY, CONCEPTS OF THRESHOLD, FREQUENCY, THERMOLUMINESCENCE, C-14 & POLLEN IN GEOMORPHOLOGICAL STUDIES.
29 JAN TO 3	FEBRUARY	INTRODUCTION TO THE FOUR SPHERES OF EARTH & ROCK TYPES. CONTINENTAL DRIFT THEORY & ITS BASIC CONSIDERATIONS, PLATE TECTONICS – PLATE MARGINS & BOUNDARIES, MOVEMENT & DISTRIBUTION OF PLATES, TECTONIC ACTIVITIES ALONG THE BOUNDARIES.
5 TO 10	FEBRUARY	ENDOGENETIC PROCESS – FAULTING, FOLDING & THEIR GEOMORPHIC EXPRESSIONS. EARTHQUAKE – CAUSES, CLASSIFICATIONS INTENSITY & MAGNITUDE, GEOGRAPHICAL DISTRIBUTION. VOLCANISM.

CONTD.....P/2..

DATE	MONTHS	TOPIC
12 TO 17	FEBRUARY	CLASSIFICATION & GEOGRAPHICAL DISTRIBUTION EXOGENETIC PROCESS – WEATHERING CAUSES TYPE OF WEATHERING : MECHANICAL, CHEMICAL & BIOLOGICAL, ROCK WEATHERING & SOIL FORMATION.
19 TO 24	FEBRUARY	MASS WASTING & HILL SLOPES ANALYSIS – CAUSES, CLASSIFICATIONS & TYPES OF MASS MOVEMENT.
26 FEB TO 2	MARCH	SLOW & RAPID MASS MOVEMENTS : HILL SLOPE ANALYSIS; TECHNIQUES & THEORIES.
4 TO 9	MARCH	MODE & RATE OF SLOPE RETREAT GEOMORPHIC PROCESS & RESULTING LANDFORMS.
11 TO 16	MARCH	FLUVIAL, GLACIAL, AEOLIAN & KARSTS.
18 TO 23	MARCH	APPLIED GEOMORPHOLOGY : MEANING & CONCEPT
25 TO 30	MARCH	ROLE OF GEOMORPHOLOGY IN ENVIRONMENTAL MANAGEMENT OF THE ACCELERATED EROSION & SEDIMENTATION.
1 TO 6	APRIL	APPLICATION OF GEOMORPHOLOGY IN GROUND WATER STUDIES.
8 TO 13	APRIL	IN CONSTRUCTION OF LARGE DAMS & IN URBAN DEVELOPMENT.
15 TO 20	APRIL	REVISION UNIT-I & CLASS TEST
22 TO 27	APRIL	REVISION UNIT-II & CLASS TEST
29 APR TO 11	MAY	REVISION UNIT-III & CLASS TEST
13 TO 20	MAY	REVISION UNIT-IV & CLASS TEST

LESSON PLAN

M.SC.-GEOGRAPHY

SESSION : 2022-23

(SEMESTER-II)

SUBJECT – GEOG-203 (POPULATION GEOGRAPHY)

TEACHER'S NAME : SUNITA

MONTHS	TOPIC
UNIT-I JANUARY	POPULATION GEOGRAPHY : DEFINITION, NATURE & SCOPE, CONCEPTUAL FRAMEWORK & HISTORICAL DEVELOPMENT, SOURCES OF POPULATION DATA WITH PARTICULAR REFERENCE TO INDIA – CENSUS, VITAL OR CIVIL REGISTRATION SYSTEM, SAMPLE REGISTRATION SYSTEM.
UNIT-II (FEBRUARY)	POPULATION DISTRIBUTION & DENSITY, FACTORS & DETERMINANTS, POPULATION GROWTH – TRENDS & DETERMINANTS. THEORIES OF POPULATION GROWTH-PRE-MALTHUSIAN VIEWS, MALTHUS'S THEORY, VIEWS OF SOCIALIST WRITERS, OPTIMUM POPULATION THEORY, DEMOGRAPHIC TRANSITION MODEL.
UNIT-III (MARCH)	COMPONENTS OF POPULATION CHANGE : DETERMINANTS OF FERTILITY & MORTALITY, TRENDS IN INDIA, MIGRATION : MAJOR INTERNATIONAL MIGRATIONS, FEATURES OF INTERNAL MIGRATION IN INDIA, THEORIES OF MIGRATION. POPULATION COMPOSITION & CHARACTERISTICS – AGE & SEX COMPOSITION, LITERACY, MARITAL STATUS & ECONOMIC CHARACTERISTICS OF POPULATION.
UNIT-IV APRIL	POPULATION & DEVELOPMENT : POPULATION GROWTH & ECONOMIC DEVELOPMENT, POPULATION GROWTH & ENVIRONMENT QUALITY, POPULATION POLICIES OF INDIA & CHINA, POST INDEPENDENCE DEVELOPMENT REPRODUCTIVE AND CHILD HEALTH PROGRAMME.
MAY	REVISION & TEST

LESSON PLAN FOR M.Sc. (IV Sem.)

INTRODUCTION TO RESEARCH IN GEOGRAPHY

SESSION - 2022-23

TEACHER'S NAME - DR. MAMTA SIDDHARTH

DAYS/CLASS	UNIT	TOPICS	REMARKS	
1	UNIT-I JAN-2022	MEANING, OBJECTIVE, & SIGNIFICANCE OF RESEARCH		
2		TYPES OF RESEARCH		
3		TYPES OF RESEARCH & CHARACTERISTICS		
4		RESEARCH STEPS		
5		RESEARCH STEPS		
6		PROBLEMS ENCOUNTERED BY RESEARCHERS IN INDIA		
7		CLASS TEST FOR UNIT-I		CLASS TEST
8	UNIT-II	MEANING & SELECTION OF RESEARCH PROBLEM		
9		NEED FOR DEFINING A RESEARCH PROBLEM		
10		TECHNIQUES INVOLVED IN DEFINING A PROBLEM		
11		LIMITATION OF THE RESEARCH PROBLEM		
12		FORMULATION OF HYPOTHESIS: DEFINITION		
13		CHARACTERISTICS OF HYPOTHESIS		
14		TYPES OF HYPOTHESIS		
15		REVISION OF UNIT-II		REVISION
16	CLASS TEST OF UNIT-I & II	CLASS TEST		
17	UNIT-III	MEANING & NEED OF RESEARCH DESIGN		
18		FEATURES OF R.D.		
19		TYPES OF R.D. - EXPLORATORY		
20		TYPES OF R.D. - DESCRIPTIVE		
21		TYPES OF D.D. - EXPERIMENTAL		
22		RANDOM SAMPLING DESIGN		
23		NON-RANDOM SAMPLING DESIGN		
24		MERITS OF SAMPLING		
25		LIMITATION OF SAMPLING		
26		REVISION OF UNIT-III		REVISION
27	CLASS TEST OF UNIT-I, II, & III	CLASS TEST		
28	UNIT-IV	TYPES OF DATA - PRIMARY		
29		TYPES OF DATA - SECONDARY		
30		SOURCES OF DATA		
31		METHODS OF COLLECTING PRIMARY DATA		
32		OBSERVATION METHOD		
33		OBSERVATION METHOD		
34		INTERVIEW METHOD		
35		INTERVIEW METHOD		
36		QUESTIONNAIRE METHOD		
37		QUESTIONNAIRE METHOD		
		TEACHER'S SIG.	HEAD	PRINCIPAL

LESSON PLAN FOR M.Sc. (IV Sem)

INTRODUCTION TO RESEARCH IN GEOGRAPHY

SESSION- 2022-23

TEACHER'S NAME - DR. MAMTA SIDDHARTH



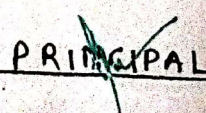
DAYS/CLASS	UNIT	TOPICS	REMARKS
38	UNIT-IV	QUESTIONNAIRE METHOD	
39		SCHEDULE METHOD	
40		SCHEDULE METHOD	
41		DIFFERENCE BETWEEN QUESTIONNAIRE & SCHEDULE	
42		REVISION UNIT IV	REVISION
43		CLASS TEST OF UNIT I, II, III & IV	CLASS
44		ASSIGNMENT TOPIC DISTRIBUTION TO STUDENT	ASSIGNMENT
45		REVISION START FROM UNIT - I	REVISION
46		REVISION	"
47		REVISION	"
48	REVISION	"	
49	ASSIGNMENT SUBMISSION	ASSIGNMENT	
50		TOPIC DISCUSSION WITH STUDENT TILL SEMESTER END IN CLASS ROOM.	DISCUSSION
		TEACHER'S SIG	HEAD
			PRINCIPAL

LESSON PLAN (Session 2022-23)

FOR
B.A. 4th Sem., Sec. B&C, (R-35 secB) (R-40 sec-C)

SUBJECT — HUMAN GEOGRAPHY

TEACHER'S NAME — DR. MAMTA SIDDHARTH

DAY / CLASS	START DATE	TOPICS	REMARKS
1	15/7/2022 UNIT-I	NATURE & SCOPE OF HUMAN GEOGRAPHY	
2		BRANCHES OF HUMAN GEOGRAPHY	
3		APPROACHES OF HUMAN GEOGRAPHY	
4		DIVISION OF MANKIND	
5		CONCEPT OF MEN-ENVIRONMENT RELATION	
6		CONCEPT OF MEN-ENVIRONMENT RELATION	
7		CONCEPT OF MEN-ENVIRONMENT RELATION	
8	UNIT-II	HUMAN ADAPTATION TO THE ENVIRONMENT	
9		ESKIMOS	
10		BUSHMANS	
11		GONDS	
12		GUTJARS	
13		MEANING NATURE OF RESOURCES	
14		COMPONENTS OF RESOURCES	
15		CLASSIFICATION OF RESOURCES	
16		CLASSIFICATION OF RESOURCES	
17		CLASSIFICATION OF RESOURCES	
18		REVISION	
19		CLASS TEST OF UNIT I & II	
20	UNIT-III	DISTRIBUTION OF WORLD POPULATION	
21		DENSITY OF WORLD POPULATION	
22		AFFECTING FACTORS	
23		POPULATION GROWTH	
24		DEMOGRAPHIC TRANSITION MODEL	
25		POPULATION PATTERNS	
26		CONCEPTS OF OPTIMUM POPULATION	
27		OVERPOPULATION & UNDERPOPULATION	
28		THEORIES OF POPULATION	
29		THEORIES OF POPULATION	
30		REVISION OF UNIT III	
31	CLASS TEST OF UNIT III	REVISION CLASS TEST	
		TEACHER SIG: 	
		HEAD GEOGRAPHY DEPTT: 	
		PRINCIPAL: 	

LESSON PLAN (SESSION 2022-23)

B.A. 4th Sem., Sec B & C (R-35 Sec B, R-40 Sec-C)

SUBJECT — HUMAN GEOGRAPHY

TEACHER'S NAME — DR. MAMTA SIDDHARTH

DAYS/CLASS	UNIT	TOPICS	REMARKS
32	UNIT IV	RURAL SETTLEMENTS	
33		ORIGIN & GROWTH OF TOWNS	
34		CLASSIFICATION AND FUNCTIONS OF TOWNS	
35		CLASSIFICATION AND FUNCTIONS OF TOWNS	
36		POPULATION PRESSURE	
37		RESOURCE USE	
38		ENVIRONMENTAL DEGRADATION	
39		ENVIRONMENTAL DEGRADATION	
40		ENVIRONMENTAL DEGRADATION	
41		SUSTAINABLE DEVELOPMENT : ELEMENTS	
42		FEATURES & OBJECTIVES	
43		SOLUTION OF ENVIRONMENTAL PROBLEMS	
44		WAYS TO ACHIEVE SUSTAINABLE DEVELOPMENT	
45		REVISION OF UNIT-IV	
46		CLASS TEST OF UNIT-IV	
47		FORMATIVE ASSESSMENT OF STUDENT & REVISION TILL SEM. END.	

REVISION
TEST
FORMATIVE ASSESSMENT
ASSIGNMENT
SUBMISSION

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GEOG. DEPT.

PRINCIPAL
G.C.W.>NNL

LESSON PLAN (Session 2022-23)

FOR

B.A. IInd year (III SEM.)

(GEOGRAPHY)

BY: DR. MAMTA SIDDHARTH
ASST. PROFESSOR IN GEOGRAPHY
(G.C.W. NARNAUL)

DAYS/ CLASS	UNITS	DATE	TOPICS	Remark
1	I	16 Aug 2022	WEATHER & CLIMATE ; MEANING, DEFINITIONS	
2			ELEMENTS & FACTORS	
3			COMPOSITION OF THE ATMOSPHERE	
4			STRUCTURE OF THE ATMOSPHERE	
5			INSOLATION , HEAT BUDGET	
6			FACTORS AFFECTING INSOLATION	
7			DISTRIBUTION OF INSOLATION ON THE EARTH	
8			HEATING & COOLING OF THE ATMOSPHERE	
9			TEMPERATURE : FACTORS, DISTRIBUTION	
10			DERIVED FORMS , TEMPERATURE ZONES	
11			DISTRIBUTION & INVERSION OF TEMPERATURE	
12			CLASS TEST OF UNIT-I	
13	II		ATMOSPHERIC PRESSURE : EFFECT & IMPORTANCE	
14			DISTRIBUTION	
15			WINDS : FACTORS	
16			TYPES	
17			TYPES	
18			ATMOSPHERIC HUMIDITY ; MEANING, IMPORTANCE	
19			EVAPORATION , CONDENSATION , ADIABATIC TEM. CHA.	
20			CLOUDS , PRECIPITATION	
21			DISTRIBUTION OF RAINFALL IN THE WORLD	
22			CLASS TEST OF UNIT - II	
23	III		AIRMASSES : ORIGIN, CHARACTERISTICS	
24			FAVOURABLE CONDITIONS , CLASSIFICATION	
25			FRONTS : CHARACTERISTICS , TYPES	
26			CYCLONES : MEANING , TYPES	
27			ANTICYCLONES	
28			KOEPPEN'S SCHEME OF CLASSIFICATION OF CLIMATE	
29			" " " " " "	
30			CLIMATE CHANGE : CAUSES, CONSEQUENCES	
31	GLOBAL WARMING			
32	CLASS TEST OF UNIT - III	Class Test		
33	IV		FLOOR OF THE OCEAN	
34			PACIFIC OCEAN FLOOR	
35			INDIAN " "	
36			ATLANTIC " "	

DAYS/CLASS	UNITS	DATE	TOPICS	Remarks
37	IV		TEMPERATURE OF OCEANIC WATER	
38			Salinity of Oceanic Water : FACTORS	
39			DISTRIBUTION	
40			SEA WAVES : TYPES	
41			Oceanic currents	
42			" " "	
43			" " "	
44			" " "	
45			TIDES : CAUSES , IMPORTANCE	
46			Oceanic Resources	
47		Oceanic Resources		
48	FORMATIVE ASSESSMENT OF STUDENT & Revision till session end		CLASS TEST OF UNIT IV	Test
49				Assignm topics distribu - on & Assignm Submiss
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Principal

LESSON PLAN (Session 2022-23)
FOR
M. SC. GEOGRAPHY (SEMESTER-III)
AGRICULTURAL GEOGRAPHY

DR. MAMTA SIDDHARTH
(G.C.W. NARNAUL)

Days/ Class	Unit	Topics	Date
1	I 16 Aug 2022	NATURE & SCOPE OF AGRICULTURAL GEOGRAPHY	16 Aug 2022
2		SIGNIFICANCE, APPROACHES	
3		APPROACHES, ORIGIN OF AGRICULTURE	
4		DISPERSAL OF AGRICULTURE	
5		GENE-CENTRES OF AGRI.	
6		DETERMINANTS OF AGRICULTURAL PATTERNS	
7		DETERMINANTS " " "	
8		CLASS TEST OF UNIT-I " "	
9	II	CONCEPTS OF LAND CAPABILITY CLASSIFICATION	
10		BRITAIN	
11		U.S.	
12		LAND USE SURVEY & CLASSIFICATION: BRITISH	
13		INDIAN	
14		LAND USE & CROPPING PATTERN	
15		AGRICULTURAL CONCEPT & THEIR MEASUREMENT	
16		INTENSITY OF CROPPING	
17		DEGREE OF COMMERCIALIZATION	
18		DIVERSIFICATION & SPECIALIZATION	
19		AGRICULTURAL EFFICIENCY & PRODUCTIVITY	
20		CROP COMBINATION & CONCENTRATION	
21		VON THUNEN MODEL OF AGRICULTURAL LANDUSE	
22		CLASS TEST OF UNIT-II	
23		III	AGRICULTURAL REGIONALISATION; CONCEPT
24	CRITERIA		
25	WHITTLESEY'S AGRICULTURAL SYSTEMS		
26	AGRICULTURAL TYPOLOGY BY KOSTROWIKI		
27	AGRO-CLIMATIC ZONATION; CONCEPT		
28	AGRO-CLIMATIC REGION OF INDIA		
29	AGRICULTURAL REGION OF INDIA		
30	REGIONAL IMBALANCES IN AGR. PRODUCTIVITY		
31	GREEN REVOLUTION; IMPACT & CONSEQUENCES		
32	IN INDIA		
33	CLASS TEST OF UNIT-III		

DAYS/CLAS	UNIT	TOPICS
34	IV	NEO-LIBERALIZATION & INDIAN AGRI.
35		
36		FOOD SECURITY: CONCEPT & COMPONENTS
37		FOOD SECURITY IN INDIA
38		NEW PERSPECTIVES IN AGRI; URBAN AGRI.
39		CONTRACT FARMING
40		AGRI-BUSINESS.
41		SUSTAINABLE AGRICULTURAL DEVELOPMENT
		AGRICULTURE & CLIMATIC CHANGE: IMPACTS
		& ADAPTATION
42	FORMAT-IVE	Roll No. 21118079002, 1003, 1004
43	ASSESS-MENT	Roll No. 1005, 06, 07
44	OF	Roll No. 09, 10, 11
45	STUDENTS	Roll No. 12, 13, 14
46	&	Roll No. 15, 16, 17.
47	Revision	Roll No. 18, 19, 20.
48		Roll No 21, 26, 27
49		Roll No. 28, 29, 30
50		Roll No. 31, 32, 34
51		Roll No 35, 36, 37.
52		Roll No. 38, 39, 40
53		Roll No. 41, 42, 43
54		Roll No 44, 45, 46.
55		Roll No 47, 48, 50,
56		Roll No. 51, 52, 54.
57		Roll No. 55, 56, 57,
58		Roll No. 58, 59, 60
59		Roll No. 61, 62
60		REVISION
61		REVISION TIL SEM. END

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Principal

LESSON PLAN (Session 2022-23)
FOR
M. Sc. GEOGRAPHY (SEMESTER-I)
LAB COURSE - II : CLIMATOLOGY & GEOMORPHOLOGY
BY : DR. MAMTA SIDDHARTH

Days/ CLASS	Date	Unit	TOPICS	REMARKS
1	12 Sep 2022	I	Graphical Representation of climatic Data	
2			Climograph (Taylor)	
3			Climograph (Foster's)	
4			Rainfall Deviation Diagrams	
5			Hythergraph	
6			Isopleths	
7			Isopleths	
8			Study of weather instrument	
9			Elements of Weather	
10			Interpretation of Indian Weather maps	
11			Construction of water - Budget Diagram	
12			Class Test	
13			II	Morphometric Analysis of Drainage Basin
14	Basin morphometry of fluvially originated			
15	Drainage Basin			
16	stream ordering			
17	Bifurcation Ratio, Basin Perimeter, length & Area			
18	stream frequency & Drainage Density			
19	Hypsometric curve &			
20	Integral Hypsometric Curve			
21	climographic Analysis			
22	Altimetric Analysis			
23	Average slope (Wendworth's method)			
24	Relative Relief (Smith's method)			
25	class Test			
			Revision & Formative Assessment of students till session end	


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Principal

Lesson plan

Name of Assistant/Associate Professor – Dr. Sunita

Class - M.Sc. 1st Sem

Subject- Geography

Paper GEOG103: Advance Geography of India

Session- 2022-23

Month	Contents
September	Physical Setting: Space relationship of India with neighboring countries; Physiographic regions; Drainage system and watersheds; Climate: Mechanism of Indian monsoons and rainfall patterns, Climatic regions; Natural vegetation; Soil types and their distributions.
October	Dry farming and its significance; Livestock resources and white revolution. Non-conventional Energy resources, and mineral resources-coal and petroleum.
November	Regional Development and Planning: Experience of regional planning in India; Integrated rural development programmes; Planning for backward area, desert, drought prone, hill, tribal area development;
December	Contemporary Issues: Environmental hazards: earthquakes, Tsunamis, floods and droughts-causes and mitigation measures. Population explosion and food security; Regional disparities in economic development; Linkage of rivers;

Dr. Sunita

Department of Geography

GCW, Narnaul

Lesson Plan

Name of Assistant Professor: Dr. Sunita

Class and Section: B.A III rd Semester

Subject : Physical Geography-II (Geography)

Session : 2022-23

Month	Topics
August	Weather and Climate; Origin, Composition and Structure of Atmosphere. Test and revision
September	Insolation, Global Heat Budget, Horizontal and Vertical Distribution of Temperature, inversion of Temperature.
October	Atmospheric Pressure-Measurement and Distribution, Pressure Belts, Planetary winds, Monsoon, Jet Stream EL NINO-La Nina Phenomenon and Local winds.
November	Configuration of oceanic floors and surface relief of Pacific, Atlantic and Indian oceans; Temperature and salinity of oceans. Test and Revision
December	Tides, Waves and Oceanic currents; Circulation in Pacific, Atlantic and Indian oceans; Oceanic resources. Test and Revision

Dr. Sunita

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LESSON PLAN

Name of Extension Lecturer : Dr. Sunita
Class and Section : M.Sc.2nd Semester
Subject : Geography
Paper : Statistical Methods in Geography
Session : 2022-23

Month	Contents
Feb	Geography and Statistics; Significance of Statistics in Geographical Studies Nature and Characteristics Descriptive Statistics : Tabulation and Graphical Representation of Data Measures of Central Tendency : Mean, Median and Mode Partitioned Values : Quartiles and Deciles Centographic Techniques : Mean center and Median center
March	Measures of Dispersion : Absolute Measure; Range; Quartile Deviation; Mean Deviation; Standard Deviation and Standard Distance Relative Measure of Dispersion; Coefficient of Variation, Measures of Inequality; Location Quotient and Lorenz Curve; Ginni Coefficient. Bivariate Analysis : Scatter Diagram, Correlation Analysis, Spearman's Rank Correlation and Karl Pearson's Correlation Coefficient. Test of Significance : chi-square test, Student's t-test, F-test.
April	Simple Linear Regression Model : Regression Equations; Construction of Regression Lines; Computation of Residuals and Mapping; Basis of Multivariate Analysis : Correlation Matrix; Partial and Multiple Correlations Test and Revision

Dr. Sunita

Department of Geography

GCW Narnaul

Lesson plan

Name of Assistant/Associate Professor- Dr. Sunita

Class and Sections- B.A. 4th Sem

Subject- Geography

Paper 203: Human Geography

Session- 2022-23

Months	Contents
January	Nature and scope of Human Geography, Branches and Approaches Division of Mankind, concept of men environment relation Human adaptation to the environment: Eskimos, Bushmans, Gonds Meaning, nature and components of resources,
February	Classification and Distribution of Resources Utilization and conservation of Resources Distribution and density of world population, population growth, fertility and mortality patterns.
March	Concept of over, under and optimum population Population theories: Malthus, Ricardo and Marx.
April	Rural settlements: Meaning, classification and types. Urban settlements: Origin, classification and functions of towns. Population pressure, Environmental Degradation,

Dr. Sunita

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