TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: Vikram Singh *Department: Geography*

Subject/Course: Statistical Methods in Geography(601) *Programme:* B.A. Honours

Semester: . 6th Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Type of data and descriptive Statistics: visual descriptive methods such as histograms, ogives. Numerical descriptive Statics: measure of Central Tendency and partition values	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Measure of dispersion: Quartile deviation, Mean deviation, Standard deviation , Measure of Inequality: Lorenz Curve	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Continuous Probability Distributions and Models , Properties of Normal Distribution, Inferential Statistics: confidence Intervals and Hypothesis Testing	April 1st , 2nd, 3rd & 4th Week
4.	Sampling its type and its application in Geographical Studies. & Remaining days Revision of Whole Syllabus	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: Vikram Singh *Department: Geography*

Subject/Course: Morphometric Analysis (403A+ B) *Programme:* B.A. Honours

Semester: . 4th Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Methods of relief representation: (i) Hachure (ii) Hill Shading Methods of relief representation: (iii)Morphographic Method (iv) Spot Height (v) Bench Mark (vi) Form Lines (vii)Contours	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Representation of topographic features by contours (i) Conical hill (ii) Plateau (iii) Convex slope(iv) Concave Slope (v) Escarpment (vi) Cliff (vii) Valley (viii) Water Fall (ix) Gorge (x) U-shaped valley	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Profiles: Serial, Superimposed, Projected, Composite, Longitudinal	April 1st , 2nd, 3rd & 4th Week
4.	Delineation of drainage basin, Basin parameters: stream number and order, drainage density and frequency.	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: Vikram Singh *Department: Geography*

Subject/Course: Field Survey in Geography *Programme:* B.A. Honours

(Theory) 603-A + B) Theory & Practical

Semester: . 6th Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1. & 2	Topographical Sheets-1:50,000 and 1:25,000 Socio-economic Information on Toposheets , Sources of Demographic and Socio-economic Data of Villages , Census data for the Socio-economic Study of Village/Towns	Feb1st , 2nd, 3rd ,4th & 5th Week
3	Cadastral maps for Field mapping of Village/towns. Field mapping of the Features of Landuse and Land Quality.	March 1st , 2nd, 3rd ,4th & 5th Week
4	Use of Structured Questionnaires for Socio-economic Survey. Analysis of Collected Socio-economic Data.	April 1st , 2nd, 3rd & 4th Week
	Report Writing	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: Vikram Singh *Department: Geography*

Subject/Course: Economic Geography(402) *Programme:* B.A. Honours

Semester: . 4th Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1 & 2	Nature, scope and relationships of economic geography with economics and other branches of social sciences. Classification of economic activities and their impact on environment Types, basis and classification of world natural resources. Conservation and utilization of natural resources.	Feb1st , 2nd, 3rd ,4th & 5th Week
2	Basis and classification of world agricultural types with special reference to Intensive Subsistence Agriculture, Mediterranean agriculture, Dairy farming and Plantation Agriculture. World production and distribution of energy resources: coal, petroleum and natural gas.	March 1st , 2nd, 3rd ,4th & 5th Week
3	Classification of industries and basis of location and development of iron and steel industry and cotton textile industry, Major industrial complexes of the world.	April 1st , 2nd, 3rd & 4th Week
4	Geographical factors in the development of trade, Major Ocean trade routes of world. & Revision of Syllabus	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: Vikram Singh *Department: Geography*

Subject/Course: M.D.C Envernmantal Geography *Programme:* B.A./B.S.C/B.Com(B)

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Nature and Scope of Environmental Geography. Determinants of Environment	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Concept of Ecology and ecosystem. Trophic structure and energy flow.	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Environmental pollution: Meaning causes and impacts of Air, Water and Land pollution	April 1st , 2nd, 3rd & 4th Week
4.	Mitigating efforts of Environmental degradation: Stockholm conference, earth summit and Kyoto protocol.	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher:Dr.REENA *Department: Geography*

Subject/Course: Remote Sensing, GIS and Quantative Methods *Programme: B.A (Y)*

Semester: . 6th Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Introduction to Aerial Photograph :- (Generalities,Definition and History of Aerial Photograph , Bases of Aerial Photograph, Classification of Aerial Photograph, Identification of Aerial Photograph,Aerial camera and its types, Elements of Aerial Photograph , Introduction, Image Interpretation, Bases principal of aerial photograph,	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	: Introduction to Remote Sensing :- General Introduction, Meaning of Remote Sensing, Process of Remote Sensing , Stages of Remote Sensing, Electromagnetic Spectrum ,Application of imageries in agriculture, Environment, Resource Mapping Introduction of GIS : Meaning, Defination and Concept of GIS, ,Purposes of GIS, Elements of GIS, Data Model, Data structure, Error in GIS, Advantages of GIS, Hardware &Software, Components of GIS ,Application of GIS in various fields of Geography ,	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Measure of Central Tendency Concept of Central Tendency, Definition of average(Mean), median,Mode Measure of Dispersion :Range, Quartile deviation and Mean deviation, Standard Deviation	April 1st , 2nd, 3rd & 4th Week
4.	Co-efficient of variation;- Calculation of Co-efficient of variation in Individual series Discrete series, continuous series, Merits and demerits of Co-efficient of variation	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: Dr.REENA *Department: Geography*

Subject/Course: Soil Geography (605) *Programme:* B.A. Honours

Semester: . 6th Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Definition, nature, scope and significance of soil geography; relationship of soil geography and pedology	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Soil Forming Factors: parent material, climate, topographic organic and their spatial temporal dimensions., Soil Processes: Eluviations, Humification, Classification, salinization, podzolisation Soil profile: Development and Characteristics of soil profile., Physical properties of soils: tenure, structure, colour, porosity and permeability	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Chemical Properties of soils: soil reaction, Factors of controlling soil reaction, Humus, soil clays, Soils and Environment problems: Soil erosion, degradation and conservation; methods to improve the physical qualities of soil.	April 1st , 2nd, 3rd & 4th Week
4.	Soil Survey: Modern techniques of soil survey, soil mapping sustainable development of soil resources with reference to India	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: Dr.REENA *Department: Geography*

Subject/Course: M.D.C Envernmantal Geography *Programme:* B.A./B.S.C/B.Com.Th. (A)

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1	Nature and Scope of Environmental Geography. Determinants of Environment	Feb1st , 2nd, 3rd ,4th & 5th Week
2	Concept of Ecology and ecosystem. Trophic structure and energy flow.	March 1st , 2nd, 3rd ,4th & 5th Week
3	Environmental pollution: Meaning causes and impacts of Air, Water and Land pollution	April 1st , 2nd, 3rd & 4th Week
4	Mitigating efforts of Environmental degradation: Stockholm conference, earth summit and Kyoto protocol.	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher:Dr. REENA *Department: Geography*

Subject/Course: M.D.C Envernmantal Geography *Programme:* B.A./B.S.C/B.Com.PR (A)

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Make inventory of natural vegetation of neighborhood environment (2 exercise).	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Make inventory of wild animals of neighborhood environment (2 exercise)	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Classification and mapping of area under forest in Haryana (1 exercise) Trend in cattle population of Haryana (1 exercise)	April 1st , 2nd, 3rd & 4th Week
4.	Mapping National Parks and sanctuaries of India (2 exercise)	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher:Dr. REENA *Department: Geography*

Subject/Course: SEC Computer Aided Cartography *Programme:* B.A. (Section A & B) *Th.*

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Nature and Scope of cartography Recent advancement in cartography	Feb
2.	Types and characteristics of statistical diagrams a. One dimensional diagram (bar and line) b. Two dimensional diagram (rectangular, square and circle) Three dimensional diagram (sphere, cube)	March
3.	Types and characteristics of Maps c. Chorochromatic maps d. Choroschematic maps e. Choropleth maps f. Dot maps Isopleths maps	April
4.	Introduction to Computer Aided Cartography g. Introduction to Q-GIS h. Characteristics, Advantage and Disadvantages of Raster and Vector Data i. Characteristics and uses of Point, Line and Polygon Elements of Maps	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher:Dr. REENA *Department: Geography*

Subject/Course:Fundamental of Physical Geography *Programme:* B.A(Section B)Pr.

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Identification and basic characteristics of rock: granite, basalt, limestone, shale, sandstone, slate, phyllite, schist, quartzite (2 exercise).	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Extraction of physiographic information from Survey of India 1:50000 topographical maps of mountain, plateau and plain regions (2 exercises).	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Preparation of climograph, hythergraph and hyetograph (3 exercises).	April 1st , 2nd, 3rd & 4th Week
4.	Interpretation of a daily weather map of India: Pre-Monsoon, Monsoon and Post-Monsoon (2 exercises).	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: RITU RANI *Department: Geography*

Subject/Course:Fundamental of Physical Geography *Programme:* B.A.Honours (Th.)

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Interior of the earth, geological time scale, rocks and their types. Theory of isostasy, continental drift and plate tectonic.	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Degradational processes: weathering, mass wasting and resultant landforms.Landforms generated by following geomorphic agents: river, under-ground water, wind and glacier.	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Weather and climate: Atmosphere-composition and structure. Atmospheric temperature, pressure and moisture: measurement and distribution.	April 1st , 2nd, 3rd & 4th Week
4.	Surface configuration of ocean floors: surface relief of the Pacific, Atlantic and Indian Ocean. Circulation of oceanic waters: current of the Pacific, Atlantic and Indian Ocean.	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: RITU RANI *Department: Geography*

Subject/Course:Fundamental of Physical Geography *Programme:* B.A.Honours (Pr.)

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Identification and basic characteristics of rock: granite, basalt, limestone, shale, sandstone, slate, phyllite, schist, quartzite (2 exercise).	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Extraction of physiographic information from Survey of India 1:50000 topographical maps of mountain, plateau and plain regions (2 exercises).	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Preparation of climograph, hythergraph and hyetograph (3 exercises).	April 1st , 2nd, 3rd & 4th Week
4.	Interpretation of a daily weather map of India: Pre-Monsoon, Monsoon and Post-Monsoon (2 exercises).	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: RITU RANI *Department: Geography*

Subject/Course:Skill in Cartography (201) *Programme:* B.A.Honours (Pr.)

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Graphical representation of scales (2 exercises)	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Construction of thematic maps (3 exercises)	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Representation of data by one, two and three-dimensional diagrams (3 exercises)	April 1st , 2nd, 3rd & 4th Week
4.	*Revision of Syllabus*	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: RITU RANI *Department: Geography*

Subject/Course:Human Geography of India (Minor202) *Programme:* B.A.Hon.(Hist.) Th.

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Population of India: Growth and its measures. Population of India: Distribution of Density	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Population composition: Sex ratio, literacy rate, work force. Ethnic composition of India: Language and religion.	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Energy resources of India: Production and distribution of Coal, Petroleum, hydropower and solar power. Industrial Resources of India: Iron-ore, Cotton and Sugarcane	April 1st , 2nd, 3rd & 4th Week
4.	Industrial development of India: Iron and steel, sugar and textile. Transportation in India: Road, Railways, Waterways.	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: RITU RANI *Department: Geography*

Subject/Course:Human Geography of India (Minor202) *Programme:* B.S.C (Th.)

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Population of India: Growth and its measures. Population of India: Distribution of Density	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Population composition: Sex ratio, literacy rate, work force. Ethnic composition of India: Language and religion.	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Energy resources of India: Production and distribution of Coal, Petroleum, hydropower and solar power. Industrial Resources of India: Iron-ore, Cotton and Sugarcane	April 1st , 2nd, 3rd & 4th Week
4.	Industrial development of India: Iron and steel, sugar and textile. Transportation in India: Road, Railways, Waterways.	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: RITU RANI *Department: Geography*

Subject/Course:Human Geography of India (Minor202) *Programme:* B.A.Hon.(Hist.) Pr.

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Age and sex pyramid of Indian population (1 exercise). State wise distribution and composition of working population in India (2 exercises).	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Map the scheduled tribe population distribution in India (1 exercises). Distribution of scheduled caste population (1 exercise).	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Composition of the major religions in India (1 exercise). Distribution of literacy –rural - urban and male-female (2 exercises).	April 1st , 2nd, 3rd & 4th Week
4.	*Revision & checking of Practical*	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher:RITU RANI *Department: Geography*

Subject/Course:Fundamental of Physical Geography *Programme:* B.A(Section A & B)Pr.

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1	Identification and basic characteristics of rock: granite, basalt, limestone, shale, sandstone, slate, phyllite, schist, quartzite (2 exercise).	Feb1st , 2nd, 3rd ,4th & 5th Week
2	Extraction of physiographic information from Survey of India 1:50000 topographical maps of mountain, plateau and plain regions (2 exercises).	March 1st , 2nd, 3rd ,4th & 5th Week
3	Preparation of climograph, hythergraph and hyetograph (3 exercises).	April 1st , 2nd, 3rd & 4th Week
4	Interpretation of a daily weather map of India: Pre-Monsoon, Monsoon and Post-Monsoon (2 exercises).	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher:PUNAM RANI *Department: Geography*

Subject/Course:Fundamental of Physical Geography *Programme:* B.A.Section A & B (Th.)

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1	Interior of the earth, geological time scale, rocks and their types. Theory of isostasy, continental drift and plate tectonic.	Feb1st , 2nd, 3rd ,4th & 5th Week
2	Degradational processes: weathering, mass wasting and resultant landforms.Landforms generated by following geomorphic agents: river, under-ground water, wind and glacier.	March 1st , 2nd, 3rd ,4th & 5th Week
3	Weather and climate: Atmosphere-composition and structure. Atmospheric temperature, pressure and moisture: measurement and distribution.	April 1st , 2nd, 3rd & 4th Week
4	Surface configuration of ocean floors: surface relief of the Pacific, Atlantic and Indian Ocean. Circulation of oceanic waters: current of the Pacific, Atlantic and Indian Ocean.	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher:PUNAM RANI *Department: Geography*

Subject/Course:Fundamental of Physical Geography *Programme:* B.A(Section A)Pr.

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1	Identification and basic characteristics of rock: granite, basalt, limestone, shale, sandstone, slate, phyllite, schist, quartzite (2 exercise).	Feb1st , 2nd, 3rd ,4th & 5th Week
2	Extraction of physiographic information from Survey of India 1:50000 topographical maps of mountain, plateau and plain regions (2 exercises).	March 1st , 2nd, 3rd ,4th & 5th Week
3	Preparation of climograph, hythergraph and hyetograph (3 exercises).	April 1st , 2nd, 3rd & 4th Week
4	Interpretation of a daily weather map of India: Pre-Monsoon, Monsoon and Post-Monsoon (2 exercises).	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: PUNAM RANI *Department: Geography*

Subject/Course:Skill in Cartogrophy(201) *Programme:* B.A.Honours

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Nature and scope of cartography, historical and recent development. Drawing instruments: properties and characteristics; drawing techniques.	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Scale: types, significance and applications. Maps: classification, characteristics, significance and limitations.	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Basic concepts of surveying and survey equipment's, coordinate system and map: magnetic and true north, polar and rectangular. Techniques of map enlargement and reduction; map producing agencies in India (GSI, SOI, FSI, NATMO, NBBSLUP, NRSC, AISSLUP and IMD).	April 1st , 2nd, 3rd & 4th Week
4.	Methods and representation of climatic data. Methods and representation of socio-economic data.	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: PUNAM RANI *Department: Geography*

Subject/Course: M.D.C Environmental Geography *Programme:* B.A./B.S.C/B.Com.PR (B)

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Make inventory of natural vegetation of neighborhood environment (2 exercise).	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Make inventory of wild animals of neighborhood environment (2 exercise)	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Classification and mapping of area under forest in Haryana (1 exercise) Trend in cattle population of Haryana (1 exercise)	April 1st , 2nd, 3rd & 4th Week
4.	Mapping National Parks and sanctuaries of India (2 exercise)	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: PUNAM RANI *Department: Geography*

Subject/Course: SEC Computer Aided Cartography *Programme:* B.A. (Section A & B)Pr.

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1	Introduction to MS Excel One Dimensional Diagrams in MS Excel (2 Exercises)	Feb
2	Two Dimensional Diagrams in MS Excel (2 Exercise) Scatter Plot in MS Excel (1 Exercise)	March
3	Making of Shape file in Q-GIS (3 exercise) Digitization of Map in Q-GIS (1 exercise)	April
4	Composition of Map in Q-GIS (2 exercise)	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: PUNAM RANI *Department: Geography*

Subject/Course: SEC Computer Aided Cartography *Programme:* B.A. (Section A & B)Pr.

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Introduction to MS Excel One Dimensional Diagrams in MS Excel (2 Exercises)	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Two Dimensional Diagrams in MS Excel (2 Exercise) Scatter Plot in MS Excel (1 Exercise)	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Making of Shape file in Q-GIS (3 exercise) Digitization of Map in Q-GIS (1 exercise)	April 1st , 2nd, 3rd & 4th Week
4.	Composition of Map in Q-GIS (2 exercise)	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: RAVI KUMAR *Department: Geography*

Subject/Course: SEC Computer Aided Cartography *Programme:* B.A./B.S.C /Hon. (Section B & C)Pr.

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Introduction to MS Excel One Dimensional Diagrams in MS Excel (2 Exercises)	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Two Dimensional Diagrams in MS Excel (2 Exercise) Scatter Plot in MS Excel (1 Exercise)	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Making of Shape file in Q-GIS (3 exercise) Digitization of Map in Q-GIS (1 exercise)	April 1st , 2nd, 3rd & 4th Week
4.	Composition of Map in Q-GIS (2 exercise)	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: RAVI KUMAR *Department: Geography*

Subject/Course: SEC Computer Aided Cartography *Programme:* B.A.B.SC,HONS (Sect B&C) *Th.*

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1	Nature and Scope of cartography Recent advancement in cartography	Feb-March 1st and 2nd
2	Types and characteristics of statistical diagrams j. One dimensional diagram (bar and line) k. Two dimensional diagram (rectangular, square and circle) Three dimensional diagram (sphere, cube)	March 3rd ,4th
3	Types and characteristics of Maps l. Chorochromatic maps m. Choroschematic maps n. Choropleth maps o. Dot maps Isopleths maps	April 1st , 2nd, 3rd & 4th week
4	Introduction to Computer Aided Cartography p. Introduction to Q-GIS q. Characteristics, Advantage and Disadvantages of Raster and Vector Data r. Characteristics and uses of Point, Line and Polygon Elements of Maps	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: RAVI KUMAR *Department: Geography*

Subject/Course: SEC Computer Aided Cartography *Programme:* B.A.B.SC,HON(Sect B&C) *Th.*

Semester: . 2nd Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1	Nature and Scope of cartography Recent advancement in cartography	Feb-March 1st and 2nd
2	Types and characteristics of statistical diagrams s. One dimensional diagram (bar and line) t. Two dimensional diagram (rectangular, square and circle) Three dimensional diagram (sphere, cube)	March 3rd ,4th
3	Types and characteristics of Maps u. Chorochromatic maps v. Choroschematic maps w. Choropleth maps x. Dot maps Isopleths maps	April 1st , 2nd, 3rd & 4th week
4	Introduction to Computer Aided Cartography y. Introduction to Q-GIS z. Characteristics, Advantage and Disadvantages of Raster and Vector Data aa. Characteristics and uses of Point, Line and Polygon Elements of Map	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: VARUN KUMAR *Department: Geography*

Subject/Course: : Paper 203 Human Geography *Programme:* B.A.(Sect B) *Th.*

Semester: . 4TH Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1	Nature and scope of Human Geography, Branches of Human Geography, Approaches to the study of Human Geography. Division of Mankind: Spatial distribution of race and tribes of India; concept of men- environment relation: A historical approach	Feb1st , 2nd, 3rd ,4th & 5th
2	Human adaptation to the environment (i) Cold region – Eskimo (ii) Hot region- Bushman (iii) Plateau – Gonds (iv) Mountains – Gujjar Meaning, nature and components of resources; Classification of resources – renewal and non- renewable : biotic and aboitic Resources , recyclable and non recyclable	March 1st , 2nd, 3rd ,4th & 5th
3	Distribution, utilization and conservation of biotic (flora and fauna) and aboitic (water, minerals and energy) resources .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 1st , 2nd, 3rd & 4th
4	Rural settlements: Meaning, classification and types. Urban settlements: Origin, classification and functions of towns. Population pressure, resource use and environment degradation; sustainable development, concept of deforestation, soil erosion, air and water pollution	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: VARUN KUMAR *Department: Geography*

Subject/Course: Regional Development and Planning(602) *Programme:* B.A.,HONS *Th.*

Semester: . 6th Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1	Concept of Region, types of Regions, Methods of Regionalization	Feb1st , 2nd, 3rd ,4th & 5th
2	Theories of Regional Development: Hirschman and Myrdal's Theory. Regional Imbalances in development in India with spatial reference of human and Economic development	March 1st , 2nd, 3rd ,4th & 5th
3	.Concept of Planning: Spatial and Sectoral, Regional and National, Micro and Macro. Environmental Issues in Regional Planning: Planning for Sustainable Development.	April 1st , 2nd, 3rd & 4th Week
4	Features of Various Five years Plans in India. Urban Planning in India with spatial reference to National Capital Region.	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: VARUN KUMAR *Department: Geography*

Subject/Course: Map Projection Practical *Programme:* B.A. (Sect B) *Pr.*

Semester: . 4th Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1-2	Introduction to Map Projection: Meaning, Classification and importance; Characteristics of latitudes and longitudes lines(i) Simple cylindrical projection (ii) Cylindrical equal area projection. (iii) True shape or orthomorphic or Mercator's Projection.	Feb1st , 2nd, 3rd ,4th & 5th Week
3	Conical Projections: Characteristics, applications and drawing. (i) Simple conical projections with one standard parallel (ii) Simple conical projection with two standard parallel (iii) Bonne's Projection (iv) Polyconic projection. (v) International Map Projection.	March 1st , 2nd, 3rd ,4th & 5th Week
4	Zenithal Projections: Characteristics, applications and drawing. (5) (i) Polar Zenithal Equidistant Projection. (ii) Polar Zenithal Equal Area Projection (iii) Polar Zenithal Gnomonic Projection (iv) Polar Zenithal Stereographic Projection. (v) Polar Zenitha Orthographic Projection , Characteristics, applications and drawings	April 1st , 2nd, 3rd & 4th Week
5-6	(i) Sinosoidal (2) (ii) Mollweide Projections. Plane Table Survey	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: RAVI KUMAR *Department: Geography*

Subject/Course: Map Projection Practical *Programme:* B.A. (Sect A) *Pr.*

Semester: . 4th Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1-2	Introduction to Map Projection: Meaning, Classification and importance; Characteristics of latitudes and longitudes lines(i) Simple cylindrical projection (ii) Cylindrical equal area projection. (iii) True shape or orthomorphic or Mercator's Projection.	Feb1st , 2nd, 3rd &4th week
3	Conical Projections: Characteristics, applications and drawing. (i) Simple conical projections with one standard parallel (ii) Simple conical projection with two standard parallel (iii) Bonne's Projection (iv) Polyconic projection. (v) International Map Projection.	March 1st , 2nd, 3rd ,4th & 5th Week
4	Zenithal Projections: Characteristics, applications and drawing. (5) (i) Polar Zenithal Equidistant Projection. (ii) Polar Zenithal Equal Area Projection (iii) Polar Zenithal Gnomonic Projection (iv) Polar Zenithal Stereographic Projection. (v) Polar Zenitha Orthographic Projection , Characteristics, applications and drawings	April 1st , 2nd, 3rd & 4th Week
5-6	(i) Sinosoidal (2) (ii) Mollweide Projections. Plane Table Survey	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: RAVI KUMAR *Department: Geography*

Subject/Course: : Human Geography(203) *Programme:* B.A.(Sect A) *Th.*

Semester: . 4TH Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1	Nature and scope of Human Geography, Branches of Human Geography, Approaches to the study of Human Geography. Division of Mankind: Spatial distribution of race and tribes of India; concept of men- environment relation: A historical approach	Feb1st , 2nd, 3rd &4th week
2	Human adaptation to the environment (i) Cold region – Eskimo (ii) Hot region- Bushman (iii) Plateau – Gonds (iv) Mountains – Gujjar Meaning, nature and components of resources; Classification of resources – renewal and non- renewable : biotic and aboitic Resources , recyclable and non recyclable	March 1st , 2nd, 3rd ,4th & 5th
3	Distribution, utilization and conservation of biotic (flora and fauna) and aboitic (water, minerals and energy) resources .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 1st , 2nd, 3rd & 4th
4	Rural settlements: Meaning, classification and types. Urban settlements: Origin, classification and functions of towns. Population pressure, resource use and environment degradation; sustainable development, concept of deforestation, soil erosion, air and water pollution	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher: RAVI KUMAR *Department: Geography*

Subject/Course: : Geography of Disaters *Programme:* B.A.Geog Hon

Semester: . 4TH Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1	Meaning, concept and classification of Hazards and Disasters. ,Major disasters of the world and disaster profile of India, Tectonic disasters: Occurrence, geographical distribution and impacts of Earthquakes, Tsunamis, Volcanic eruption and Landslides	Feb1st , 2nd, 3rd &4th week
2	Hydrological disasters: Occurrence and impact of floods and droughts in India., Climatic disasters: Tropical cyclones, Heavy Precipitation Events-Cloud Burst, Heat and cold waves, Human induced disasters: Epidemics, Industrial Disasters, Nuclear Disasters, wars and terrorism.	March 1st , 2nd, 3rd ,4th & 5th
3	Preparedness for disasters : Case Study of Cyclones and floods in India , Mitigation of disasters: Case study of droughts and earthquakes in India	April 1st , 2nd, 3rd & 4th
4	Post disaster Rehabilitation-Case Study of Tsunami in India Impacts of disasters on economy and society in India & revision	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher:Dr.KRISHAN *Department: Geography*

Subject/Course: Remote Sensing, GIS and Quantative Methods

Programme: B.A (X)Thr.

Semester: . 6th Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Introduction to Aerial Photograph :- (Generalities,Definition and History of Aerial Photograph , Bases of Aerial Photograph, Classification of Aerial Photograph, Identification of Aerial Photograph,Aerial camera and its types, Elements of Aerial Photograph , Introduction, Image Interpretation, Bases principal of aerial photograph,	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	: Introduction to Remote Sensing :- General Introduction, Meaning of Remote Sensing, Process of Remote Sensing , Stages of Remote Sensing, Electromagnetic Spectrum ,Application of imageries in agriculture, Environment, Resource Mapping Introduction of GIS : Meaning, Defination and Concept of GIS, ,Purposes of GIS, Elements of GIS, Data Model, Data structure, Error in GIS, Advantages of GIS, Hardware &Software, Components of GIS ,Application of GIS in various fields of Geography ,	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Measure of Central Tendency Concept of Central Tendency, Definition of average(Mean), median,Mode Measure of Dispersion :Range, Quartile deviation and Mean deviation, Standard Deviation	April 1st , 2nd, 3rd & 4th Week
4.	Co-efficient of variation;- Calculation of Co-efficient of variation in Individual series Discrete series, continuous series, Merits and demerits of Co-efficient of variation	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher:Dr.KRISHAN *Department: Geography*

Subject/Course: GEOGRAPHY OF SETTLEMENT(604) *Programme: B.A Geog hons*

Semester: . 6th Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Introduction: Nature and Scope of settlement geography. Basic Concepts: Rural and Urban Settlements, Hamlet, Village, Town, City, Metropolis, Megalopolis, Conurbation, and Rural-Urban Fringe	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Histogenesis of rural settlements: historical development, distribution of rural settlements. Size and spacing of rural settlements in India Rural Settlements: Types, Patterns and Determinants. Functional classification of rural settlements	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Regional Settlement Hierarchy: Central Place Theory, Rank-Size Rule, Primate City Urban Land use Models; Concentric zone model, sector model and multiple nuclei mode Urban problems: housing, poverty, water supply and sanitation	April 1st , 2nd, 3rd & 4th Week
4.	Planned Cities: A Case Study of Chandigarh – Site and Situation, Layout and Landuse, Services and Infrastructure, Problems	*May 1st & 2nd Week*

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2023-24

Name of the Teacher:Dr.KRISHAN *Department: Geography*

Subject/Course: Introduction to Remote Sensing and Field Survey Report (304)Practical *Programme: B.A (X)*

Semester: . 6th Sem.

Unit	*Name of Topic/Contents*	*Tentative Dates/Days*
1.	Demarcation of Principal Point on Aerial Photograph ,Identification of Principal point, Conjugate Principal point and Flight line,	Feb1st , 2nd, 3rd ,4th & 5th Week
2.	Determination of scale of Aerial Photographs , Interpretation of Single Vertical Photograph	March 1st , 2nd, 3rd ,4th & 5th Week
3.	Identification of features using Stereoscope Identification of features on IRS 1D LISS-III Imagery Use of Structured Questionnaires for Socio-economic Survey.	April 1st , 2nd, 3rd & 4th Week
4.	Data collection, Analysis of Collected Socio-economic Data Report writing	*May 1st & 2nd Week*