

LESSON PLAN

Name of the Associate Professor: Dr. Manoj Kumar

Class: MSc. (Geography) III Semester

Subject: Introduction to Remote Sensing (Theory).

Subject Lesson Plan: Odd Semester (from July, 2023 to December, 2023).

Unit-I :Chapter – 1	Weekly Dates
Over view on Remote Sensing	24 to30 July
Remote Sensing - Definition & Scope	01 to05, August
EMR Characteristics	7 to12, August
Remote Sensing Regions and Bands	14 to19, August
Types of Remote Sensing	21 to 26, August
Unit-I : Chapter – 2	Weekly Dates
Aerial Photographs Typesand Time, Scale and Resolution of AP	28August to 2September
Geometric properties of Single VAP & Stereoscopy	4 to 9, September
Stereoscopy Parallax and Relief Displacement	11 to 16, September
Unit-II : Chapter – 3	18 to 23, September
Satellite Imagery and attributes	25 to 30, September
Orbital Characteristics of RS Satellites	3 to 7, October
Characteristics of RS Sensors & Indian Remote Sensing	9 to 14, October
Seminar –cum-assignment	16 to 21, October
Unit-II Chapter – 4	
Image Processing Techniques: Visual & Digital	23 to 28, October
Image Interpretation: Visual & Digital	30 October to 4 November
Application of RS in Resource Management	6 to 9, November
Application of RS in Agriculture & Urban management	17 to 24November
Problems Solution	25 November to till Exam

Dr. Manoj Kumar

Associate Professor of Geography

Lesson Plan

Name of the Assistant/Associate Professor: **Dr. Asha Lata**

Class and Section: **Hons. Geography 3rd Sem. Paper: Hydrology and Oceanography**

Subject Lesson Plan: **18 Weeks (from July 2023 to December. 2023)**

Week 1	
Unit (A): Introduction	
The objective and relevance of the course:	
	Introduction: Meaning and Definition of Oceanography
	Nature of ocean floor: continental shelf
	Continental slope deep ocean basin and trenches,
	Bottom topography of the Atlantic Ocean.
	Bottom topography of the Atlantic Ocean.
Week 2	
Unit (A) Part- 1.	
	Bottom topography of the Pacific.
	Bottom topography of the Indian Oceans.
	Salinity: sources, controlling factors and distribution of salinity.
	Salinity: controlling factors
	Salinity: distribution of salinity.....
Week 2 Unit-II Part-2	
	Temperature of oceans: Process of heating and cooling, heat budget of oceans, distribution of temperature on oceans.
	Temperature of oceans: Process of heating and cooling,
	Heat budget of oceans.....
	Distribution of temperature on oceans....Pacific Ocean.....
	Distribution of temperature on oceans: Atlantic Ocean.....
	Indian Ocean.....
Week 4 Unit –II	
	Test.....
	Ocean currents : Meaning, concept and types, origin and factors affecting ocean currents,
Unit –II Part-3	
	Ocean currents : Meaning, concept and types, origin and factors affecting ocean currents,
Week 5	
	currents of Atlantic.....
	currents of Pacific
	currents of Indian ocean.....
	currents of Atlantic, Pacific and Indian ocean.....
Week 6 Unit III	
	The world hydrological cycle and its sub cycles, human impact on hydrological cycle.
	The world hydrological cycle and its sub cycles.....
	Human impact on hydrological cycle.....
	Test
Week 7	
	Precipitation types, intensity and duration of rainfall, geographic and seasonal distribution of rainfall.
	Precipitation types.....
	Intensity and duration of rainfall.....
	Geographic and seasonal distribution of rainfall.....
	Test.....
Week 8 Unit –IV	
	Problems of Water Resource management in India (i) water logging (ii) ground water (iii) flood (iv) draught.
	Problems of Water Resource management in India

	Problems of Water Resource management in India (i) water logging
	Problems of Water Resource management in India (ii) ground water.....
Week 9	Problems of Water Resource management in India (iii) flood
	Problems of Water Resource management in India (iv) draught.....
Week 10	Assignment Day.....
	Test.....
Week 11 Unit –IV	Conservation practices and planning for the development of water resources.
	Conservation practices and planning
	Test.....
	Assignment.....
	Revision....
	Revision.....
Week 12	Revision.....
	Test.....
	Conservation practices and planning for the development of water resources.....
	Assignment.....
	Test.....
Week 13	Assignment Day
Week 14	Revision....
Week 15	Revision....
Week 16	Revision.....
	Test
Week 17	Test.....
	Revision.....

Lesson Plan

Name of the Teacher: **Dr. Asha Lata** Class: **Hons. Geography 3rd Sem. Paper: Genral Cartography (Theory and Practical)**

Subject Lesson Plan: **18 Weeks (from July 2023 to December. 2023)**

Week 1	
Unit (A): Introduction :The objective and relevance of the course:	
Representation of climatic data: Graphs and Diagram	
Week 2 Unit (A) Part- 1.	
Line and Bar Graph, Rainfall deviation diagram.	
Week 2 Unit- II Part-2	
Climograph, Hydergraph, Ergograph	
Week 4 Unit –II Part-3	
Isometric and Isopleths	
Week 5	
Representation of socioeconomic data by Diagram Types and Properties of diagram.	
Week 6 Unit III	
Representation of socioeconomic data by Diagram One Dimensional Diagram: Bar Diagram, Simple Bar,	
Week 7	
Representation of socioeconomic data by Diagram Multiple Bar and Comparative Bar	
Week 8 Unit –IV	
Representation of socioeconomic data by Diagram Two dimensional diagram: Pie diagram, Proportional Circle	
Week 9	
Representation of socioeconomic data by Diagram Two dimensional diagram: Pie diagram, Proportional Circle	
Week 10	
Representation of socioeconomic data by Diagram Three Dimensional Diagram: Sphere, Cube	
Week 11 Unit –IV	
Distribution Maps and Diagram: Concept and Definition	
Week 12	
Distribution Maps and Diagram: Types of Distributional Methods....	
Week 13	
Distribution Maps and Diagram: Choropleth Method and its Types	
Week 14	
Distribution Maps and Diagram Dot Method: Concept types and properties of dot method.	
Week 15	Revision....
	Assignment Presentations
Week 16	Revision.....
	Assignment
Week 17	Test.....
	Revision.....

Lesson Plan B.A. 5th Semester Geography

Economic Geography

Paper Code (GEOG 301)

Teacher's Name: Surender Kumar Chopra

Sr.No.	Month	Topic
1	01/8/2023 to 05/8/2023	Definition, Nature, Scope and Approaches of Economic Geography.
2	07/8/2023 to 12/8/2023	Relationship of Economic Geography with Economics and other branches of Social Sciences.
3	14/8/2023 to 19/8/2023	Main concept of Economic Geography, Resources concept and classification
4	21/8/2023 to 26/8/2023	Resource and Conservation
5	28/8/2023 to 02/9/2023	Factors affecting location of economic activity with special reference to agriculture and Industries.
6		Ist Assignment
7	04/9/2023 to 09/9/2023	Von Thunen's Theory of Agricultural Location
8	11/9/2023 to 16/9/2023	Weber's Theory of Industrial Location
9		2 nd Assignment
10	18/9/2023 to 23/9/2023	Subsistence and Commercial agriculture (Rice and Wheat)
11		Class Test
12	25/9/2023 to 30/9/2023	Subsistence and Commercial agriculture (Cotton and Sugarcane)
13	03/10/2023 to 07/10/2023	Subsistence and Commercial agriculture (Tea, Coffee and Rubber)
14	9/10/2023 to 14/10/2023	Manufacturing Industries (Cotton textile, Iron and Steel)
15	16/10/2023 to 21/10/2023	Concept of manufacturing regions, Special economic zones and technology parks.
16	23/10/2023 to 28/10/2023	World transportation: trans-continental railways.
17	30/10/2023 to 04/11/2023	Sea routes, Geo-economic factors in their development.
18	06/11/2023 to 09/11/2023	WTO and International Trade, Pattern and trends:
19	17/11/2023 to 18/11/2023	Major trade blocks.
20	23/11/2023 to 25/12/2023	Effects of Globalization on developing countries
21	25/11/2023 Onward	Revision

Surender Kumar
Associate Professor

Lesson Plan B.A. 5th Semester Geography

Economic Geography

Paper Code (GEOG 301)

Teacher's Name : Rajender Singh Sevda / Surender Kumar Chopra

Sr.No.	Month	Topic
1	01/8/2023 to 05/8/2023	Definition, Nature, Scope and Approaches of Economic Geography.
2	07/8/2023 to 12/8/2023	Relationship of Economic Geography with Economics and other branches of Social Sciences.
3	14/8/2023 to 19/8/2023	Main concept of Economic Geography, Resources concept and classification
4	21/8/2023 to 26/8/2023	Resource and Conservation
5	28/8/2023 to 02/9/2023	Factors affecting location of economic activity with special reference to agriculture and Industries.
6		Ist Assignment
7	04/9/2023 to 09/9/2023	Von Thunen's Theory of Agricultural Location
8	11/9/2023 to 16/9/2023	Weber's Theory of Industrial Location
9		2 nd Assignment
10	18/9/2023 to 23/9/2023	Subsistence and Commercial agriculture (Rice and Wheat)
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16	23/10/2023 to 28/10/2023	World transportation: trans-continental railways.
17	30/10/2023 to 04/11/2023	Sea routes, Geo-economic factors in their development.
18	06/11/2023 to 09/11/2023	WTO and International Trade, Pattern and trends:
19	17/11/2023 to 18/11/2023	Major trade blocks.
20	23/11/2023 to 25/12/2023	Effects of Globalization on developing countries
21	25/11/2023 Onward	Revision

Rajender Singh
Associate Professor

Lesson Plan for Odd Sem. 2022-2023

Name of Associate Professor: Balwan Singh
Class and Section: M. Sc. Geography 3rd Sem.
Subject: Geography and Ecosystem
Paper Code: Paper Code: GEOG-301

Week No.	Dated	Topic to be Taught
1	1-5 Aug.	Concept of Ecosystem; Types, components and function of ecosystem.
2	7-12 Aug.	Energy flow in ecosystem: food chain, food web
3	14 - 19 Aug.	Trophic levels, ecological production and ecological pyramids.
4	21 – 26 Aug.	Biogeochemical cycles: Hydrological, carbon, oxygen and nitrogen cycles
5	28 Aug.- 2 Sept.	Biome: Scheme of Classification: factors affecting the distribution of biomes: Tropical evergreen rain forest biome
6	4 - 9 Sept.	Savana biome, Monsoon biome, Temperate biome
7	11 – 16 Sept.	Marine biome, Ecosystem approach and its relevance in geography
8	18 – 23 Sept.	Man-environment relationship, Classification of resources
9	25 – 30 Sept.	Use and ecological imbalance with reference to soils, forests and energy resources
10	3 – 7 Oct.	Biodiversity and conservation
11	9 – 14 Oct.	Preservation and conservation of ecosystem through resource management.
12	16 – 21 Oct.	Problems of pollution: concept of air, water, and noise pollution.
13	23 – 28 Oct.	Environment legislation The Stockholm Conference, the Earth Summit, Kyoto Protocol
14	30 Oct. - 4 Nov.	Copenhagen Conference, Environmental laws in India (the Wild Life Act, Water Act
15	6 – 9 Nov.	Forest Act, Environment Protection Act and National Environment Tribunal Act).
16	17 -18 Nov.	Revise
17	23 - 28Nov.	Revise
18	20 – 24 Nov.	Test
19	25 Nov. onward	Test

BALWAN SINGH
Associate Professor of Geography

Lesson Plan for Odd Semester 2023

Name of Associate Professor: Balwan Singh
Class and Section: B.A. Geography 3rd Sem/ Sec-B
Subject: Physical Geography-II (Theory)
Paper Code: GEOG 201

Week No.	Dated	Topic to be Taught
1	1-5 Aug.	Weather and Climate.
2	7-12 Aug.	Origin, Composition of atmosphere, Structure of atmosphere.
3	14 - 19 Aug.	Insolation, Global heat budget, Horizontal and Vertical distribution of temperature, Inversion of temperature.
4	21 – 26 Aug.	Atmospheric Pressure- measurement and distribution, Pressure belts and Planetary winds.
5	28 Aug.- 2 Sept.	Monsoon, Jet Streams EL NINO- La Nina Phenomenon and Local winds.
6	4 - 9 Sept.	Humidity- measurement and variables, Evaporation, Condensation, Precipitation forms and types and distribution, Hydrological cycle.
7	11 – 16 Sept.	Air masses- Concept and classification.
8	18 – 23 Sept.	Weather disturbances- Tropical and extra-tropical cyclones.
9	25 – 30 Sept.	Fronts- Type and characteristics.
10	2 – 7 Oct.	Climate classification by Koeppen.
11	9 – 14 Oct.	Climatic change and global warming.
12	16 – 21 Oct.	Configuration of oceanic floors and Surface relief of Pacific Ocean.
13	23 – 28 Oct.	Surface relief of Atlantic Ocean. Surface relief of Indian Ocean.
14	30 Oct. - 4 Nov.	Temperature and salinity of oceans.
15	6 – 9 Nov.	Tides, Waves and oceanic currents.
16	17 -18 Nov.	Circulation in Pacific, Atlantic and Indian Oceans.
17	20 – 25 Nov.	Oceanic resources.

Balwan Singh
Associate Professor of Geography
Govt. College, Hisar

Lesson Plan for Odd Semester 2023

Name of Associate Professor: Dr. Kuldeep Singh

Class and Section: M. Sc. Geography 3rd Sem.

Subject: Urban Geography

Paper Code: GEOG-303(1)

Week No.	Dated	Topic to be Taught
1	1-5 Aug.	Urban Geography: nature, scope and concepts
2	7-12 Aug.	Origin and evolution of towns
3	14 - 19 Aug.	Factors of urban growth
4	21 – 26 Aug.	Economic base of cities: concept and employment ratio
5	28 Aug.- 2 Sept.	Functional classification of cities: concepts and scheme of classification
6	4 - 9 Sept.	Rural Urban Fringe: structural characteristics and its development
7	11 – 16 Sept.	City and region: concepts of influence and dominance
8	18 – 23 Sept.	methods of delimitation of area of Influence and area of dominance.
9	25 – 30 Sept.	Urban morphology and land use structure: city core, commercial
10	3 – 7 Oct.	Urban morphology and landuse structure: industrial and residential areas.
11	9 – 14 Oct.	Models of city structure: concentric zone model by E.W.Burgess
12	16 – 21 Oct.	Sector model by Homer Hoyt and multiple nuclei model by Harris and Ullman
13	23 – 28 Oct.	Central place theory of Christaller and Losch
14	30 Oct. - 4 Nov.	Rank size rule and Law of primate city
15	6 – 9 Nov.	Social area analysis
16	17 -18 Nov.	Revise
17	23 - 28Nov.	Revise
18	20 – 24 Nov.	Test
19	25 Nov. onward	Test

Dr. KULDEEP SINGH
Associate Professor of Geography
Govt. College, Hisar

POPULATION GEOGRAPHY
NAME OF THE ASSO./ASSIST.PROFESSOR: Dr.KULDEEP SINGH/
Dr. KUMARI SAROJ
GOVT. P.G. COLLEGE, HISAR
LESSON PLAN 2023-24(B.A IST Hon.)

01-08-2023 to 05-08-2023	Nature ,Scope and Contents of Population Geography
07-08-2023 to 12-08-2023	Sources of Data ;Census Sample Surveys and Civil Registration System
14-08-2023 to 19-08-2023	Concepts, Determinants and World Regional Pattern of Following attributes: Distribution and Density
21-08-2023 to 26-08-2023	Concepts, Determinants and World Regional Pattern of Following attributes: Vital Events: Fertility and Mortality
28-08-2023 to 02-09-2023	Concepts, Determinants and World Regional Pattern of Following attributes: Migration and Growth
04-09-2023 to 09-09-2023	Composition of Population; Determinants and World Regional Pattern of the following: Age and Sex Composition
11-09-2023 to 16-09-2023	Composition of Population; Determinants and World Regional Pattern of the following :Rural and Urban Composition
18-09-2023 to 23-09-2023	Composition of Population; Determinants and World Regional Pattern of the following: Economic Composition
25-09-2023 to 30-09-2023	Population Problems in developed and developing countries
02-10-2023 to 07-10-2023	Population Policies in developed and developing countries
09-10-2023 to 14-10-2023	Population problems and policies in India since independence
16-10-2023 to 21-10-2023	Revision
23-10-2023 to 28-10-2023	Revision
30-10-2023 to 04-11-2023	Revision
06-11-2023 to 09-11-2023	Revision
17-11-2023 to 18-11-2023	Test
20-11-2023 to 25-11-2023	Test

GOVT. P.G. COLLEGE, HISAR
LESSON PLAN 2023-24(B.A III Hon) 5th sem
Evolution of Geographical Thought
NAME OF THE ASSIST.PROFESSOR
Dr. KUMARI SAROJ

01-08-2023 to 05-08-2023	Nature of Geography and Place of Geography among Sciences
07-08-2023 to 12-08-2023	Relation of Geography with natural and social sciences.
14-08-2023 to 19-08-2023	Contribution of Greeks
21-08-2023 to 26-08-2023	Contribution of Roman
28-08-2023 to 02-09-2023	Contribution of Arab
04-09-2023 to 09-09-2023	Contribution of Indian Scholars
11-09-2023 to 16-09-2023	Contribution of Geographer:Bernhards Varenius,,Immunal Kant
18-09-2023 to 23-09-2023	Contribution of Geographer:Hombolt ,Carl Ritter
25-09-2023 to 30-09-2023	Scheafer &Hartshorne
02-10-2023 to 07-10-2023	Environment Determinism and posibilism
09-10-2023 to 14-10-2023	Dualism in Geography: Physical vs Human,
16-10-2023 to 21-10-2023	Dualism in Geography: Systematic vs Regional , Quantitative & Qualitative
23-10-2023 to 28-10-2023	Quantitative Revolution and Development of Geography as spatial science
30-10-2023 to 04-11-2023	Perspectives in Geography :Positivism,Behaviouralism
06-11-2023 to 09-11-2023	Perspectives in Geography Humanism Postmodernism
17-11-2023 to 18-11-2023	Revise
20-22-2023 to 25-11-2023	Revise

Lesson Plan for Odd Semester 2023

Name of Associate Professor: Dr. Surender Kumar
Class and Section: B.A. Geography 3rd Sem/ Sec-B
Subject: Physical Geography-II (Theory)
Paper Code: GEOG 201

Week No.	Dated	Topic to be Taught
1	1-5 Aug.	Weather and Climate.
2	7-12 Aug.	Origin, Composition of atmosphere, Structure of atmosphere.
3	14 - 19 Aug.	Insolation, Global heat budget, Horizontal and Vertical distribution of temperature, Inversion of temperature.
4	21 – 26 Aug.	Atmospheric Pressure- measurement and distribution, Pressure belts and Planetary winds.
5	28 Aug.- 2 Sept.	Monsoon, Jet Streams EL NINO- La Nina Phenomenon and Local winds.
6	4 - 9 Sept.	Humidity- measurement and variables, Evaporation, Condensation, Precipitation forms and types and distribution, Hydrological cycle.
7	11 – 16 Sept.	Air masses- Concept and classification.
8	18 – 23 Sept.	Weather disturbances- Tropical and extra-tropical cyclones.
9	25 – 30 Sept.	Fronts- Type and characteristics.
10	2 – 7 Oct.	Climate classification by Koeppen.
11	9 – 14 Oct.	Climatic change and global warming.
12	16 – 21 Oct.	Configuration of oceanic floors and Surface relief of Pacific Ocean.
13	23 – 28 Oct.	Surface relief of Atlantic Ocean. Surface relief of Indian Ocean.
14	30 Oct. - 4 Nov.	Temperature and salinity of oceans.
15	6 – 9 Nov.	Tides, Waves and oceanic currents.
16	17 -18 Nov.	Circulation in Pacific, Atlantic and Indian Oceans.
17	20 – 25 Nov.	Oceanic resources.

Dr. Surender Kumar
Associate Professor of Geography
Govt. College, Hisar

Lesson Plan

Name of Assistant: Manoj Kumar/Dr Mukesh Yadav

Class and Section: M.Sc. 3rdSemester

Paper: Field Methods in Geography (Socio-economic) (Theory)

Subject: GEOG-302 (A) Session: 2023-24

Dates	Week	Topics
1/08/2023 to 5/08/2023	1	Significance of Field work in Geography
7/08/2023 to 12/08/2023	2	Identification of Research Problem
14/08/2023 to 19/08/2023	3	Formulation of Research Design
21/08/2023 to 26/08/2023	4	Types and Sources of Data
28/08/2023 to 02/09/2023	5	Types and Sources of Data
04/09/2023 to 09/09/2023	6	Preparation of Questionnaires

ASSIGNMENT I

11/09/2023 to 16/09/2023	7	Preparation of Questionnaires
18/09/2023 to 23/09/2023	8	Sample Design
25/09/2023 to 30/09/2023	9	Collection of socio-economic data.
02/10/2023 to 07/10/2023	10	Collection of socio-economic data.

CLASS TEST

09/10/2023 to 14/10/2023	11	Retrieval and Analysis of Data
16/10/2023 to 21/10/2023	12	Retrieval and Analysis of Data
23/10/2023 to 28/10/2023	13	Format of Report Writing
30/10/2023 to 04/11/2023	14	Format of Report Writing

ASSIGNMENT II

06/11/2023 to 09/11/2023	15	REVISIONS
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Signature of Teacher

GOVERNMENT COLLEGE, HISAR
LESSON PLAN 2023-24

Name of the Associate Professor: Rajender Singh

Class: B.A Ist Sem Geog. Hons. Paper: Map and Scale (Theory) 103A

Aug. 1-5	Introduction to Cartography
Aug.7-12	Maps- Types, Uses
Aug. 14-19	Maps- Types, Uses
Aug. 21-26	Interpretation of Topographical Maps, Degree Sheets,
Aug. 28- 2 Sept.	Half Degree Sheet, One-fourth Degree Sheet,
Sept. 04-09	Index Reading of Topographical Maps
Sept. 11-16	Map's Scale,
Sept. 18-23	Types of Scale, Uses of Scales
Sept. 25-30	Conversion of Statement of Scale into R.F and vice-versa
Oct. 02-07	Scales and their functions
Oct. 09-14	Notation Scale, Representative Scale
Oct. 16-21	Notation Scale, Representative Scale
Oct. 23-28	Graphic Scale and its Construction, Plain Scale (K.M and Mile)
Oct.30- Nov.4	Diagonal Scale, Vernier Scale
Nov.06-09	Determining the Scale on a Map
Nov.17-18	Reduction and Enlargement of Maps
Nov.20-25	Reduction and Enlargement of Maps

RAJENDER SINGH
Associate Professor
Dept. of Geography

GOVERNMENT COLLEGE, HISAR
LESSON PLAN 2023-24

Name of the Assistant Professor: Mrs. PRIYA

Class: B.A IIIrd Sem Geog. Hons. Paper:Regional Geography of the World (GEGH-202)

Aug. 01-05	World major Physiographic Divisions: Mountains, Plains, Plateaus
Aug. 07-12	World major Physiographic Divisions: Mountains, Plains, Plateaus
Aug. 14-19	World major Physiographic Divisions: Mountains, Plains, Plateaus
Aug. 21-26	Major River Systems of the World and their Drainage Basin
Aug.28-Sept. 2	Major River Systems of the World and their Drainage Basin
Sept.04-09	Major River Systems of the World and their Drainage Basin
Sept.11-16	World Climate and Major Climatic Regions
Sept. 18-23	World Climate and Major Climatic Regions
Sept. 25- 30	Regional Geography of USA
Oct.02-07	Regional Geography of Brazil
Oct. 09-14	Regional Geography of China
Oct.16-21	Regional Geography of China
Oct.23-28	Regional Geography of Australia
Oct.30- Nov.04	Regional Geography of Australia
Nov. 06-09	Classification of Countries on the basis of Development: Developed and Developing Countries and their Characteristics
Nov. 17-18	Classification of Countries on the basis of Development: Developed and Developing Countries and their Characteristics
Nov. 20-25	Revision/ Discussion

PRIYA
Assistant Professor
Dept. of Geography

GOVERNMENT COLLEGE, HISAR
LESSON PLAN 2023-24

Name of the Associate Professor: Rajender Singh

Class: B.A Ist Sem Geog. Hons. Paper: Map and Scale (Theory) 103A

Aug. 1-5	Introduction to Cartography
Aug.7-12	Maps- Types, Uses
Aug. 14-19	Maps- Types, Uses
Aug. 21-26	Interpretation of Topographical Maps, Degree Sheets,
Aug. 28- 2 Sept.	Half Degree Sheet, One-fourth Degree Sheet,
Sept. 04-09	Index Reading of Topographical Maps
Sept. 11-16	Map's Scale,
Sept. 18-23	Types of Scale, Uses of Scales
Sept. 25-30	Conversion of Statement of Scale into R.F and vice-versa
Oct. 02-07	Scales and their functions
Oct. 09-14	Notation Scale, Representative Scale
Oct. 16-21	Notation Scale, Representative Scale
Oct. 23-28	Graphic Scale and its Construction, Plain Scale (K.M and Mile)
Oct.30- Nov.4	Diagonal Scale, Vernier Scale
Nov.06-09	Determining the Scale on a Map
Nov.17-18	Reduction and Enlargement of Maps
Nov.20-25	Reduction and Enlargement of Maps

RAJENDER SINGH
Associate Professor
Dept. of Geography

GOVERNMENT COLLEGE, HISAR**LESSON PLAN 2023-24****Name of the Assistant Professor: Mrs. PRIYA****Class: M.Sc Geography 1stSem.Paper:Economic Geography (103)**

14-19 Aug.	Definition, Nature of Economic Geography, Scope and Approaches of economic geography Relationship of economic geography with economics and other branches of social sciences
21-26 Aug.	Definition, Nature of Economic Geography, Scope and Approaches of economic geography Relationship of economic geography with economics and other branches of social sciences
28 Aug.- 2Sept.	World Economies: Bases of classification, Patterns and characteristics of Developing, Developed economies of the world
4-9 Sept.	World Economies: Bases of classification, Patterns and characteristics of Developing, Developed economies of the world
11-16 Sept.	World production & distribution of energy resources: coal and petroleum, mineral resources: Iron-ore, Bauxite
18-23 Sept.	World production & distribution of energy resources: coal and petroleum, mineral resources: Iron-ore, Bauxite
25-30 Sept.	Network structure and economic activities, Impact of transport on economic activities, Edward Ullman's spatial interaction model
2-7 Oct.	Network structure and economic activities, Impact of transport on economic activities, Edward Ullman's spatial interaction model
9-14 Oct.	Location model of Weber, Christaller and Losch
16-21 Oct.	Location model of Weber, Christaller and Losch
23-28 Oct.	Concept of economic growth and development, globalization and pattern of economic development
30 Oct.-4 Nov.	Concept of economic growth and development, globalization and pattern of economic development
6-9 Nov.	Recent trends in pattern of international trade
17-18 Nov.	Recent trends in pattern of international trade
20-25 Nov	Emergence of a new global economy – transnational integration and its spatial outcomes
27 Nov.- 2Dec	Emergence of a new global economy – transnational integration and its spatial outcomes
4-9 Dec.	Major regional trade blocks of the world, free trade initiatives (GATT, UNCTAD, WTO).
11-16 Dec	Major regional trade blocks of the world, free trade initiatives (GATT, UNCTAD, WTO).
18-23 Dec	REVISION/DISCUSSION/ PRESENTATION

PRIYA
Assistant Professor
Dept. of Geography

Lesson Plan for Odd Semester 2023

Name of Associate Professor : **Dr. Raj Kumar Mehla**
Class and Section : **M.Sc. Geography 1st Semester**
Subject : **Geography of India**
Paper Code : **Geog-102**

Week No.	Dated	Topic to be Taught
1	14 - 19 Aug.	Relief characteristics and physiographical divisions
2	21 – 26 Aug.	Drainage systems and their functional significance
3	28 Aug.- 2 Sept.	Climate: characteristics, seasons and climatic regions of India as given by Trewartha and R.L.Singh
4	4 - 9 Sept.	Soil and vegetation types - their distribution, characteristics and conservation
5	11 – 16 Sept.	Characteristics of Indian agriculture
6	18 – 23 Sept.	Agricultural development in India and problems of Indian Agriculture
7	25 – 30 Sept.	Irrigation: Types of irrigation, Major irrigation projects: Bhakra Nangal and Damodar Valley Projects
8	2 – 7 Oct.	Production, distribution, status of use and conservation of Iron ore, Mica.
9	9 – 14 Oct.	Production, distribution, status of use and conservation of Manganese and Bauxite
10	16 – 21 Oct.	Production, distribution, status of use and conservation of Coal.
11	23 – 28 Oct.	Production, distribution, status of use and conservation of Petroleum, Hydropower.
12	30 Oct. - 4 Nov.	Production and distribution of iron and steel industry
13	6 – 9 Nov.	Production and distribution of Cotton textile industry Production and distribution of Automobile industry
14	17 -18 Nov.	Major industrial regions and their characteristics
15	20 – 24 Nov.	International trade: Major exports and imports.

DR. RAJKUMAR MEHLA

ASSOCIATE PROFESSOR OF GEOGRAPHY

GOVT. COLLEGE, HISAR.

Lesson Plan for Odd Semester 2023

Name of Associate Professor : **Dr. RajKumar Mehla**
Class and Section : **M.Sc. Geography 1st Semester**
Subject : **Cartographic Methods in *Geography***
(Practical)
Paper Code : **Geog-105**

Week No.	Dated	Topic to be Taught
1	14 - 19 Aug.	Introduction to Cartography, Introduction to Climatic data
2	21 – 26 Aug.	Climate data Representation by diagrams Bar Graph, Line Graph,
3	28 Aug.- 2 Sept.	Climate data Representation by diagrams Poly Graph, Rainfall deviation diagram
4	4 - 9 Sept.	Rainfall Dispersion diagram Simple, Rainfall deviation diagram Complex; Climograph by G. Taylor, Climograph by E.E. Foster
5	11 – 16 Sept.	Climograph by G. Taylor, Climograph by E.E. Foster
6	18 – 23 Sept.	Hythergraph Simple Wind rose diagram, Wind and Visibility rose diagram.
7	25 – 30 Sept.	Compound Wind rose diagram, Types and properties of diagrams
8	2 – 7 Oct.	One dimensional diagram, Representing socio-economic data Simple bar Diagram
9	9 – 14 Oct.	One dimensional diagram, Representing socio-economic data Simple bar Diagram, Comparative Bar Diagram
10	16 – 21 Oct.	Two dimensional diagrams: Pie diagram, proportional Circular Diagram
11	23 – 28 Oct.	Two dimensional diagram : Ring Diagram, Coin Diagram Three dimensional diagrams: Sphere diagram, Cube Diagram
12	30 Oct. - 4 Nov.	Distribution maps: Dot method, Choropleth – Monovariate Choropleth – bivariate; Isopleth Map
13	6 – 9 Nov.	Miscellaneous diagrams and graphs, Trend graph Simple Age and Sex pyramid Comparative Age and Sex pyramid
14	17 -18 Nov.	Miscellaneous diagrams and graphs Compound Age and Sex Pyramid,
15	20 – 24 Nov.	Flow diagram, Cartogram

DR. RAJKUMAR MEHLA

ASSOCIATE PROFESSOR OF GEOGRAPHY

GOVT. COLLEGE, HISAR.

Lesson Plan for Odd Semester 2023

Name of Associate Professor : Dr. Anil Yadav
Class and Section: M.Sc. Geography 1st Semester
Subject: Climatology (Theory)
Paper Code: Geog-101

Week No.	Dated	Topic to be Taught
1	1-5 Aug.	Admissions
2	7-12 Aug.	Admissions
3	14 - 19 Aug.	Definition of Weather and Climate.
4	21 – 26 Aug.	Climatology and Meteorology.
5	28 Aug.- 2 Sept.	Origin, Composition of Atmosphere, Structure of Atmosphere.
6	4 - 9 Sept.	Solar Radiation, Heat Budget, Temperature Distribution.
7	11 – 16 Sept.	Atmospheric Pressure and its distribution pattern.
8	18 – 23 Sept.	General circulation and Planetary Winds.
9	25 – 30 Sept.	Walker Circulation, ENSO and La Nina, Origin of Monsoons and Jet Streams.
10	2 – 7 Oct.	Atmospheric Moisture: Humidity, Evaporation, Condensation.
11	9 – 14 Oct.	Precipitation: Dynamics and types of precipitation.
12	16 – 21 Oct.	Stability and instability of atmosphere, Air masses and Fronts.
13	23 – 28 Oct.	Weather systems- Tropical and extra-tropical cyclones.
14	30 Oct. - 4 Nov.	Climate classification: Bases of classification by Koeppen, Trewartha.
15	6 – 9 Nov.	Climate classification: Bases of classification by Thornthwaite.
16	17 -18 Nov.	Climate Change- Evidences and explanations
17	20 – 25 Nov.	Global Warming and its impacts

Dr. Anil Yadav
Associate Professor of Geography
Govt. College, Hisar

Lesson Plan for Odd Semester 2023

Name of Associate Professor: Dr. Anil Yadav
Class and Section: B.A. Geography 3rd Sem/ Sec-A
Subject: Physical Geography-II (Theory)
Paper Code: GEOG 201

Week No.	Dated	Topic to be Taught
1	1-5 Aug.	Weather and Climate.
2	7-12 Aug.	Origin, Composition of atmosphere, Structure of atmosphere.
3	14 - 19 Aug.	Insolation, Global heat budget, Horizontal and Vertical distribution of temperature, Inversion of temperature.
4	21 – 26 Aug.	Atmospheric Pressure- measurement and distribution, Pressure belts and Planetary winds.
5	28 Aug.- 2 Sept.	Monsoon, Jet Streams EL NINO- La Nina Phenomenon and Local winds.
6	4 - 9 Sept.	Humidity- measurement and variables, Evaporation, Condensation, Precipitation forms and types and distribution, Hydrological cycle.
7	11 – 16 Sept.	Air masses- Concept and classification.
8	18 – 23 Sept.	Weather disturbances- Tropical and extra-tropical cyclones.
9	25 – 30 Sept.	Fronts- Type and characteristics.
10	2 – 7 Oct.	Climate classification by Koeppen.
11	9 – 14 Oct.	Climatic change and global warming.
12	16 – 21 Oct.	Configuration of oceanic floors and Surface relief of Pacific Ocean.
13	23 – 28 Oct.	Surface relief of Atlantic Ocean. Surface relief of Indian Ocean.
14	30 Oct. - 4 Nov.	Temperature and salinity of oceans.
15	6 – 9 Nov.	Tides, Waves and oceanic currents.
16	17 -18 Nov.	Circulation in Pacific, Atlantic and Indian Oceans.
17	20 – 25 Nov.	Oceanic resources.

Dr. Anil Yadav
Associate Professor of Geography
Govt. College, Hisar

Lesson Plan for Odd Semester 2023

Name of Associate Professor: Dr. Balwan singh
Class and Section: B.A. Geography 3rd Sem/ Sec-B
Subject Physical Geography-II (Theory)
Paper Code: GEOG 201

Week No.	Dated	Topic to be Taught
1	1-5 Aug.	Weather and Climate.
2	7-12 Aug.	Origin, Composition of atmosphere, Structure of atmosphere.
3	14 - 19 Aug.	Insolation, Global heat budget, Horizontal and Vertical distribution of temperature, Inversion of temperature.
4	21 – 26 Aug.	Atmospheric Pressure- measurement and distribution, Pressure belts and Planetary winds.
5	28 Aug.- 2 Sept.	Monsoon, Jet Streams EL NINO- La Nina Phenomenon and Local winds.
6	4 - 9 Sept.	Humidity- measurement and variables, Evaporation, Condensation, Precipitation forms and types and distribution, Hydrological cycle.
7	11 – 16 Sept.	Air masses- Concept and classification.
8	18 – 23 Sept.	Weather disturbances- Tropical and extra-tropical cyclones.
9	25 – 30 Sept.	Fronts- Type and characteristics.
10	2 – 7 Oct.	Climate classification by Koeppen.
11	9 – 14 Oct.	Climatic change and global warming.
12	16 – 21 Oct.	Configuration of oceanic floors and Surface relief of Pacific Ocean.
13	23 – 28 Oct.	Surface relief of Atlantic Ocean. Surface relief of Indian Ocean.
14	30 Oct. - 4 Nov.	Temperature and salinity of oceans.
15	6 – 9 Nov.	Tides, Waves and oceanic currents.
16	17 -18 Nov.	Circulation in Pacific, Atlantic and Indian Oceans.
17	20 – 25 Nov.	Oceanic resources.

Dr. Balwan Singh
Associate Professor of Geography
Govt. College, Hisar

Lesson Plan for Odd Semester 2023

Name of Associate Professor: Dr. Anil Yadav

Class and Section: B.A. Geography 5th Sem (Honours)

Subject: Remote Sensing & G.I.S. (Practical)

Paper Code: Paper Code: GEGH 304(P)

Week No.	Dated	Topic to be Taught
1	1-5 Aug.	Basics of Aerial Photography
2	7-12 Aug.	Demarcation of Principal Point on Aerial Photograph
3	14 - 19 Aug.	Demarcation of Conjugate Principal Point
4	21 – 26 Aug.	Demarcation of Flight Line on Aerial Photograph
5	28 Aug.- 2 Sept.	Determination of Scale of Aerial Photograph
6	4 - 9 Sept.	Determination of Scale of Aerial Photograph
7	11 – 16 Sept.	Determination of Scale of Aerial Photograph
8	18 – 23 Sept.	Interpretation of Single Vertical Photograph
9	25 – 30 Sept.	Interpretation of Single Vertical Photograph
10	2 – 7 Oct.	Interpretation of Single Vertical Photograph
11	9 – 14 Oct.	Interpretation of Single Vertical Photograph
12	16 – 21 Oct.	Use of Stereoscope for Identification of Features
13	23 – 28 Oct.	Use of Stereoscope for Identification of Features
14	30 Oct. - 4 Nov.	Use of Stereoscope for Identification of Features
15	6 – 9 Nov.	Identification of Features on PAN + LISS Imagery
16	17 -18 Nov.	Identification of Features on PAN + LISS Imagery
17	23 - 28Nov.	Identification of Features on PAN + LISS Imagery
18	20 – 25 Nov.	REVISION

Dr. Anil Yadav
Associate Professor of Geography
Govt. College, Hisar

Lesson Plan

Name of Assistant: Manoj Kumar

Class and Section: B.A. III Hons. 5th Semester

Paper:503 (A) Remote Sensing and GIS (Theory)

Subject: Geography Session: 2023-24

Dates Week Topics

1/08/2023 to 5/08/2023	1	Introduction of aerial photography
7/08/2023 to 12/08/2023	2	Introduction of aerial photography
14/08/2023 to 19/08/2023	3	Elements of Aerial photo interpretation
21/08/2023 to 26/08/2023	4	Elements of Aerial photo interpretation
28/08/2023 to 02/09/2023	5	Introduction of Remote Sensing
04/09/2023 to 09/09/2023	6	Types of Satellites, Indian Remote Sensing

ASSIGNMENT I

11/09/2023 to 16/09/2023	7	Satellites and their data Product (Type of imageries).
18/09/2023 to 23/09/2023	8	Introduction to Geographical Information System
25/09/2023 to 30/09/2023	9	Purpose, Advantages, Hardware and Software Requirements.
02/10/2023 to 07/10/2023	10	Spatial and Non-Spatial Data

CLASS TEST

09/10/2023 to 14/10/2023	11	Application of Remote Sensing in Agriculture
16/10/2023 to 21/10/2023	12	Application of Remote Sensing in Environment
23/10/2023 to 28/10/2023	13	Application of Remote Sensing in Resource Management
30/10/2023 to 04/11/2023	14	Application of Geographical Information System in Urban Planning.

ASSIGNMENT II

06/11/2023 to 09/11/2023	15	Application of Geographical Information System in Regional Planning.
17/11/2023 to 18/11/2023	16	Application of Geographical Information Real time Planning.
21/11/2023 to 25/11/2023	17	REVISION

Signature of Teacher

GOVT. P.G. COLLEGE, HISAR

LESSON PLAN 2023-24

NAME OF THE ASSISTANT PROFESSOR: MS. VIJETA NEHRA

CLASS: B.A.5th SEM. Hons. (GEOGRAPHY)

01-08-2023 to 05-08-2023	Introduction, India: Location, Relief Structure- The Northern and North Eastern Mountains.
07-08-2023 to 12-08-2023	Relief Structure-The Plain of Northern India, The Peninsular Plateau, Indian Desert, The Coastal Plains, The Islands.
14-08-2023 to 19-08-2023	Drainage System and Climate: Factors Determining the Climate of India and Nature of Indian Monsoon.
21-08-2023 to 26-08-2023	Climate: The Rhythm of Seasons, Characteristics of Monsoon, Koeppen's Classification and Soils.
28-08-2023 to 02-09-2023	Natural Vegetation and Natural Hazards and Disasters.
04-09-2023 to 09-09-2023	Population: distribution, density, growth and composition.
11-09-2023 to 16-09-2023	Production and Distribution of crops: Rice, Wheat, Cotton with special reference to Haryana.
18-09-2023 to 23-09-2023	Production and Distribution of crops: Sugarcane with special reference to Haryana, Green revolution.
25-09-2023 to 30-09-2023	Energy resources: Coal, Petroleum, Hydroelectricity.
02-10-2023 to 07-10-2023	Energy resources:Solar, and Nuclear energy and Mineral resources: Iron Ore
09-10-2023 to 14-10-2023	Mineral resources: Manganese, Aluminium, and Mica.
16-10-2023 to 21-10-2023	Industries- iron and steel, cotton textile, sugar with special reference to Haryana.
23-10-2023 to 28-10-2023	industrial regions of India,
30-10-2023 to 04-11-2023	Transport and communication
06-11-2023 to 09-11-2023	Modes of transport: Road, Railway, Water.
17-11-2023 to 18-11-2023	Revise
20-22-2023 to 25-11-2023	Revise

Lesson Plan for Odd Semester 2023

Name of Associate Professor: Dr. Kuldeep Singh (KD)

Class and Section: M. Sc. Geography 3rd Sem.

Subject: Political Geography

Paper Code: Paper Code:

Week No.	Dated	Topic to be Taught
1	1-5 Aug.	Political Geography Introduction
2	7-12 Aug.	Definition Nature and Scope of Political Geography
3	14 - 19 Aug.	Approaches of Political Geography, Functional Approach and Unifies Field Theory
4	21 – 26 Aug.	State, Nation and Nation-state
5	28 Aug.- 2 Sept.	Geographic Element of the state: Physical element
6	4 - 9 Sept.	Geographic Element of the state: Human element
7	11 – 16 Sept.	Geographic Element of the state: Economic element
8	18 – 23 Sept.	Geographic Element of the state: administrative and circulatory System
9	25 – 30 Sept.	Unitary, Federal and Regional State
10	3 – 7 Oct.	Distinction between Frontier and Boundaries, Demarcation of Boundaries Classification and functions of boundaries
11	9 – 14 Oct.	Land locked states: Advantages and Disadvantages
12	16 – 21 Oct.	Core area and Capitals, their types and classifications
13	23 – 28 Oct.	Global strategic views: Mahan and sea power, Mackinder and Heartland
14	30 Oct. - 4 Nov.	Global strategic views: Spykman and Rimland; Servasky and Air Power
15	6 – 9 Nov.	The developing laws of sea: Geopolitical Significance of Indian Ocean
16	17 -18 Nov.	The developing laws of sea: Geopolitical Significance of Indian Ocean
17	23 - 28Nov.	Political Geography of India with special reference to water disputes and riparian claims
18	20 – 24 Nov.	Kashmir Problem and Indo-Pak relations
19	25 Nov. onward	Revision

Dr. KULDEEP SINGH
Extension Lecturer of Geography
Govt. College, Hisar

Lesson Plan for Odd Semester 2023

Name of Associate Professor: Dr. Kuldeep Singh (KD)

Class and Section: B.A. Geography 5th Sem (Honours)

Subject: Political Geography

Paper Code: Paper Code:

Week No.	Dated	Topic to be Taught
1	1-5 Aug.	Political Geography Introduction
2	7-12 Aug.	Definition Nature and Scope of Political Geography
3	14 - 19 Aug.	State, Nation and Nation-state
4	21 – 26 Aug.	Concept of Nation and State,
5	28 Aug.- 2 Sept.	Attribute of states-Frontiers and Boundaries
6	4 - 9 Sept.	Global strategic views: Mahan and sea power
7	11 – 16 Sept.	Global strategic views: Mackinder and Heartland, Spykman and Rimland
8	18 – 23 Sept.	Geo politics of Climate change, world resources and Indian Ocean
9	25 – 30 Sept.	Geo politics of Climate change, world resources and Indian Ocean
10	3 – 7 Oct.	Electoral Geography: Geography of Voting, Geographic Influences on Voting pattern
11	9 – 14 Oct.	Geography of representation and Gerrymandering
12	16 – 21 Oct.	Electoral Reform in India
13	23 – 28 Oct.	Determinants of electoral behavioural
14	30 Oct. - 4 Nov.	Regional organizations of Corporation: SAARC
15	6 – 9 Nov.	Regional organizations of Corporation: ASEAN, OPEC
16	17 -18 Nov.	Regional organizations of Corporation: EU etc.
17	23 - 28Nov.	Neopolitics of world Natural Resources
18	20 – 24 Nov.	Neopolitics of world Natural Resources
19	25 Nov. onward	Revision

Dr. KULDEEP SINGH
Extension Lecturer of Geography
Govt. College, Hisar

Lesson Plan for Odd Semester 2023

Name of Assistant Professor : Neeraj
Class and Section : M.Sc. Geography 1st Semester
Subject : Statistical Methods in Geography
Paper Code : Geog-104

Week No.	Dated	Topic to be Taught
1	14 - 19 Aug.	Nature and Scope of Statistics
2	21 – 26 Aug.	Descriptive Statistics : Histograms and Graphs
3	28 Aug.- 2 Sept.	Measures of Central Tendency : mean
4	4 - 9 Sept.	median, mode
5	11 – 16 Sept.	Measures of Dispersion : Absolute measures : Range, Quartile Deviation, Mean Deviation
6	18 – 23 Sept.	Standard Deviation, Mean Deviation
7	25 – 30 Sept.	Relative measure of dispersion: coefficient of variation.
8	2 – 7 Oct.	Normal curve as a probability distribution: Its characteristics and area under curve
9	9 – 14 Oct.	Measure of inequality: (I) Location quotient (II) Lorenz curve.
10	16 – 21 Oct.	Sampling: Theory of sampling, Methods of sampling, Sampling distribution
11	23 – 28 Oct.	Chance errors in sampling, Bivariate Analysis: Scatter diagram, Assignment
12	30 Oct. - 4 Nov.	correlation analysis, Spearman's rank correlation, Karl Pearson's correlation coefficient
13	6 – 9 Nov.	Test of significance, Simple Linear Regression Model: properties of least square estimate.
14	17 -18 Nov.	Coefficient of determination, class test
15	20 – 24 Nov.	Residuals and their mapping, Basics of multivariate analysis: Correlation matrix, partial and multiple correlation.

GOVT. P.G. COLLEGE, HISAR

LESSON PLAN 2023-24

NAME OF THE ASSOCIATE PROFESSOR: Dr. Mukesh Yadav

CLASS: B.A 5th Sem (Hons) SUBJECT: GEOGRAPHY OF ECOSYSTEM

1-5 Aug.	Environmental Geography – Concept
7-12 Aug.	Environmental Geography –Scope.
14 - 19 Aug.	Human-Environment Relationships–Historical Progression
21 – 26 Aug.	Human-Environment Relationships–Adaptation
28 Aug.- 2 Sept.	Ecosystem – Concept, Structure
4 - 9 Sept.	Ecosystem –Functions. Ecosystem productivity
11 – 16 Sept.	Ecological pyramid, Flow of energy
18 – 23 Sept.	Food chain and Food web; Trophic level.
25 – 30 Sept.	Biomes and Habitat: Classification of Biomes. Tropical rainforest biome
2 – 7 Oct.	Classification of Biomes. Grassland biomes, Monsoon biome and Marine biome.
9 – 14 Oct.	Environmental Problems: Climate change, ozone depletion, air pollution and soil degradation.
16 – 21 Oct.	Environmental Programmes and Policies –National and Local levels
23 – 28 Oct.	Global Environmental concern: Stockholm conference, Earth summit
30 Oct. - 4 Nov.	Kyoto protocol and after.
6 – 9 Nov.	Revise and Test
17 -18 Nov.	Revise and Test
23 - 28Nov.	Revise and Test

GOVT. P.G. COLLEGE, HISAR

LESSON PLAN 2023-24

NAME OF THE ASSISTANT PROFESSOR: MS. SARITA DEVI

MS. VIJETA NEHRA

CLASS: B.A.1st SEM. (GEOGRAPHY)

01-08-2023 to 05-08-2023	Introduction, India: Location, Relief Structure- The Northern and North Eastern Mountains.
07-08-2023 to 12-08-2023	Relief Structure-The Plain of Northern India, The Peninsular Plateau, Indian Desert, The Coastal Plains, The Islands.
14-08-2023 to 19-08-2023	Drainage System and Climate: Factors Determining the Climate of India and Nature of Indian Monsoon.
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18-09-2023 to 23-09-2023	Production and Distribution of crops: Sugarcane with special reference to Haryana, Green revolution.
25-09-2023 to 30-09-2023	Energy resources: Coal, Petroleum, Hydroelectricity.
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09-10-2023 to 14-10-2023	Mineral resources: Manganese, Aluminium, and Mica.
16-10-2023 to 21-10-2023	Industries- iron and steel, cotton textile, sugar with special reference to Haryana.
23-10-2023 to 28-10-2023	industrial regions of India,
30-10-2023 to 04-11-2023	Transport and communication
06-11-2023 to 09-11-2023	Modes of transport: Road, Railway, Water.
17-11-2023 to 18-11-2023	Revise
20-22-2023 to 25-11-2023	Revise