

GDC Memorial College

Bahal (Bhiwani) - 127028

NAAC Accredited Grade "B" (Second Cycle) and Recognized under
the Sections 2(f) & 12B of the UGC Act, 1956

Affiliated to Ch. Bansi Lal University, Bhiwani

Lesson Plan- January to April 2026

Name: Dr. Kousik Das Malakar

Department: Geography

Class: M.Sc.

Subject: Regional Development & Planning

Semester - IV

Subject Code: 19 GEO 401

Week 1	UNIT - 1
27-Jan-26	Introduction to the subject and its outcome & objectives
28-Jan-26	Concept of Region and Regional Development
30-Jan-26	do
31-Jan-26	Classification of Region and Method of Region Delineation
Week -2	
02-Feb-26	do
03-Feb-26	Types of Planning Region
04-Feb-26	do
06-Feb-26	Class Test
Week-3	UNIT - 2
09-Feb-26	Trickle-down Theory
10-Feb-26	do
11-Feb-26	Growth Pole Model
13-Feb-26	Cumulative causation model
14-Feb-26	do
Week-4	
16-Feb-26	do
17-Feb-26	Core-Periphery Theory
18-Feb-26	Kuznets curve & Dependency theory
20-Feb-26	
Week-5	do
23-Feb-26	Bio-regionalism and Eco-feminism
24-Feb-26	do
25-Feb-26	Deep ecology and Sustainable development
27-Feb-26	Revision
28-Feb-26	Class Test
Week-6	UNIT - 3
06-Mar-26	Characteristics and need of Planning Region
Week-7	

09-Mar-26	Short-term and Long-term Perspective of Planning
10-Mar-26	Multi-regional planning in National Context
11-Mar-26	do
13-Mar-26	Sectoral-spatial development
14-Mar-26	do
Week-8	
16-Mar-26	Decentralization and Development
17-Mar-26	Neo-liberal economic framework
18-Mar-26	do
Week-9	UNIT - 4
23-Mar-26	Regional Planning in India
24-Mar-26	do
25-Mar-26	Regional Imbalances - Causes and Consequences
27-Mar-26	do
28-Mar-26	Measurements of Regional Disparities
Week-10	
30-Mar-26	Planning Policies for Regional Development
31-Mar-26	Case Study - NCR
Week-11	
06-Apr-26	Backward area development
07-Apr-26	Tribal area development
08-Apr-26	do
10-Apr-26	Hilly area development
11-Apr-26	do
Week-12	
13-Apr-26	Arid, Flood and Drought prone area development plans
15-Apr-26	do
17-Apr-26	Revision
Week-13	
20-Apr-26	Student's Problem
21-Apr-26	Student's Problem
22-Apr-26	Class Test
24-Apr-26	Presentation of Student
25-Apr-26	Presentation of Student
Week-14	
27-Apr-26	Major Test
28-Apr-26	Revision
29-Apr-26	Revision

Signature of Faculty
Dr. Kousik Das Malakar

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Lesson Plan- January to April 2026

Name - Dr. Himanshu Grover

Department - Geography

Class - M.Sc. Geography

Subject - Geography of Haryana

Semester - 4th

Subject Code - 19 GEO 402

Week -1	UNIT-1
27.01.2026	Relief characteristics and physiographical divisions of Haryana
28.01.2026	do
29.01.2026	Drainage systems of Haryana
30.01.2026	do
Week -2	
02.02.2026	Chronology and Palaeo Channel of Sarasvati River
03.02.2026	do
04.02.2026	Climatic regions of state
05.02.2026	do
06.02.2026	Soil and vegetation of Haryana
Week-3	
09.02.2026	do
10.02.2026	Characteristics and Conservation of Forest Region in Haryana
11.02.2026	do
13.02.2026	do
14.02.2026	Class Test
Week-4	UNIT-2
16.02.2026	History of the State
17.02.2026	do
18.02.2026	do
20.02.2026	Demographic Attributes of Haryana
21.02.2026	do
Week-5	
23.02.2026	do
24.02.2026	do
25.02.2026	Population problems and Policies
26.02.2026	do
27.02.2026	Human Resources: Potential and Prospects (Haryana)
Week-6	
02.03.2026	do
03.03.2026	do
04.03.2026	Gender Ratio and Women Empowerment

05.03.2026	do
06.03.2026	Class Test
Week-7	UNIT-3
09.03.2026	Agro-climatic Region of Haryana
10.03.2026	do
11.03.2026	Traditional agriculture system
12.03.2026	do
13.03.2026	Agricultural development in Haryana and Problems
Week-8	
16.03.2026	do
17.03.2026	do
18.03.2026	Bhakra Nangal: Agriculture Potential and Management
19.03.2026	do
Week-9	
23.03.2026	Agro-processing Industries
24.03.2026	do
25.03.2026	Agriculture and Farmer Sustainability
27.03.2026	do
28.03.2026	Class Test
Week-10	UNIT-4
01.04.2026	Trend of Urbanisation
02.04.2026	do
03.04.2026	Pattern of Urbanisation
04.04.2026	do
Week-11	
06.04.2026	Contemporary Issues and Challenges in Urban Areas
07.04.2026	do
08.04.2026	do
09.04.2026	Distribution of Natural and Human Resources
10.04.2026	do
Week-12	
13.04.2026	do
15.04.2026	do
16.04.2026	Transport System and Growth
17.04.2026	do
18.04.2026	Manufacturing and Service Hubs
Week-13	
20.04.2026	Study of Automobile and Information and Technology Hub
21.04.2026	do
22.04.2026	do
23.04.2026	do
24.04.2026	Class Test
Week-14	

27.04.2026	Irrigation: Types of irrigation
28.04.2026	do
29.04.2026	Presentation of Student
30.04.2026	Presentation of Student

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Lesson Plan- January to April 2026

Name: Dr. Kousik Das Malakar

Department: Geography

Class: M.Sc.

Subject: Biogeography

Semester - IV

Subject Code: 19 GEO 404

Week 1	UNIT - 1
27-Jan-26	Introduction to the subject and its outcome & objectives
28-Jan-26	do
29-Jan-26	Nature, scope and significance of biogeography
Week -2	
02-Feb-26	Basic ecological principles
03-Feb-26	do
04-Feb-26	Bio-energy cycles in territorial ecosystem (Carbon)
05-Feb-26	do
Week-3	
09-Feb-26	Bio-energy cycles in territorial ecosystem (Nitrogen)
10-Feb-26	do
11-Feb-26	Energy flow
12-Feb-26	do
Week-4	
16-Feb-26	Trophic levels and Food Web
17-Feb-26	Origin of fauna and flora
18-Feb-26	do
19-Feb-26	Class Test
Week-5	UNIT - 2
23-Feb-26	Major biomes of the world
24-Feb-26	Forests
25-Feb-26	do
26-Feb-26	Grasslands
Week-6	
09-Mar-26	Deserts
10-Mar-26	Distribution of plant and its relation to Soil
11-Mar-26	do
12-Mar-26	Distribution of plant, its relation to Climate & Human Activities
Week-7	
16-Mar-26	Distribution of animals, its relation to climate & human activities
17-Mar-26	do
18-Mar-26	Distribution of animals and its relation to vegetation types

19-Mar-26	do
Week-8	UNIT - 3
23-Mar-26	Communities: Nature of communities and Ecosystems
24-Mar-26	do
25-Mar-26	Bio-diversity
Week-9	
30-Mar-26	do
31-Mar-26	Class Test
Week-10	
01-Apr-26	Conservation of biotic resources
02-Apr-26	
Week-11	
06-Apr-26	Human induced community change: Habitat Decay
07-Apr-26	do
08-Apr-26	Ecosystem services and its significance
09-Apr-26	Class Test
Week-12	UNIT-4
13-Apr-26	Environmental hazards and Ecological consequences
15-Apr-26	do
16-Apr-26	Human perception & adjustment with Flood & Drought
Week-13	
20-Apr-26	Human perception & adjustment with earthquake
21-Apr-26	Bio-Reserves of India
22-Apr-26	do
23-Apr-26	National forest and wild life policy of India
Week-14	
27-Apr-26	Student's Problem
28-Apr-26	Class Test
29-Apr-26	Presentation of Student
30-Apr-26	Presentation of Student

Signature of Faculty
Dr. Kousik Das Malakar

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Lesson Plan- January to April 2026	
Name - Priyanka Rani	Department - Geography
Class - M.Sc. Geography	Subject - Settlement Geography
Semester - 4th	Subject Code - 19 GEO 407
Week -1	UNIT-1
27.01.2026	Introduction to the subjects and its outcome & objectives
28.01.2026	Evolution, size and growth of human settlements
29.01.2026	do
30.01.2026	Theories of evolution of settlements
Week -2	
02.02.2026	do
03.02.2026	size, distribution, spatial and temporal trends in size and growth of settlements
04.02.2026	do
05.02.2026	do
06.02.2026	do
Week-3	
09.02.2026	Distribution Pattern: Spatial distribution pattern of settlements
10.02.2026	do
11.02.2026	do
13.02.2026	Theoretical models and empirical findings
14.02.2026	do
Week-4	UNIT-2
16.02.2026	characteristics of internal structure and external form
17.02.2026	do
18.02.2026	functional classification of urban centres,
20.02.2026	do
21.02.2026	functional typology of villages, functions and scope
Week-5	
23.02.2026	do
24.02.2026	do
25.02.2026	Agricultural regions of India: cropping patterns and agricultural regionalization
26.02.2026	do
27.02.2026	functional structure of towns in India
Week-6	
02.03.2026	principles and theories of land use in urban and rural setting
03.03.2026	do
04.03.2026	house types and building materials, environmental, socio-economic/cultural factors
05.03.2026	do
06.03.2026	do
Week-7	UNIT-3
09.03.2026	theories of Christaller and Losch and their application to settlement hierarchy

10.03.2026	do
11.03.2026	do
12.03.2026	Central Place theory: measurement of centrality and hierarchy
13.03.2026	do
Week-8	
16.03.2026	do
17.03.2026	Hierarchy of settlements in India – an empirical exercise
18.03.2026	do
19.03.2026	do
Week-9	
23.03.2026	do
24.03.2026	Issues, perspectives and policies on Population and Human Settlements
25.03.2026	do
27.03.2026	do
28.03.2026	Class Test
Week-10	UNIT-4
01.04.2026	Issues on Population and Human Settlements
02.04.2026	do
03.04.2026	do
04.04.2026	do
Week-11	
06.04.2026	perspectives and policies on Population and Human Settlements
07.04.2026	do
08.04.2026	do
09.04.2026	do
10.04.2026	Interface between human settlements and environment.
Week-12	
13.04.2026	do
15.04.2026	do
16.04.2026	do
17.04.2026	do
18.04.2026	do
Week-13	
20.04.2026	Revision
21.04.2026	Revision
22.04.2026	Revision
23.04.2026	Revision
24.04.2026	Revision
Week-14	
27.04.2026	Presentation of Student
28.04.2026	Presentation of Student
29.04.2026	Presentation of Student
30.04.2026	Class Test

Signature of Faculty

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Lesson Plan- January to April 2026

Name - Sachin

Department - Geography

Class - M.Sc. Geography

Subject -Principles of GIS & Navigation System

Semester - 4th

Subject Code - 19 GEO 409

Week 1

UNIT - 1

27-01-2026 Introduction to the subjects and its outcome & objectives

28-01-2026 Definition and Applications OF GIS

30-01-2026 do

31-01-2026 GIS : Components and Elements

Week 2

02-02-2026 do

03-02-2026 Geographic objects: point, line and area

04-02-2026 do

06-02-2026 do

07-02-2026 Analog and Digital maps

Week 3

09-02-2026 Theoretical models and Framework for GIS

10-02-2026 do

11-02-2026 Coordinate systems and and Map projections

13-02-2026 do

14-02-2026 Class Test

Week 4

UNIT - 2

16-02-2026 Nature of geographic data: Spatial and Attribute Data

17-02-2026 do

18-02-2026 Concept of vector and raster based models

20-02-2026 do

21-02-2026 do

Week 5

23-02-2026 Raster Data

24-02-2026 do

25-02-2026 Digitization

27-02-2026 do

28-02-2026 Data Input, Storage and Editing

Week 6

02-03-2026 do

06-03-2026 Manipulation of GIS data bases

07-03-2026 Class Test

Week 7

UNIT - 3

09-03-2026 GIS and Spatial Analysis

11-03-2026	do
13-03-2026	Proximity analysis and Buffers
14-03-2026	do
Week 8	
16-03-2026	do
17-03-2026	Raster and Vector based overlay and Their applications
18-03-2026	do
20-03-2026	Presentation of GIS output
21-03-2026	do
Week 9	UNIT-4
23-03-2026	Introduction to the GNSS System
24-03-2026	do
25-03-2026	Working of GNSS system
27-03-2026	do
28-03-2026	Different GNSS Systems
Week 10	
30-03-2026	do
31-03-2026	GLONASS and GPS
01-04-2026	do
03-04-2026	NAVIC
04-04-2026	Concepts of Projection
Week 11	
06-04-2026	do
07-04-2026	Projected Coordinate System
08-04-2026	do
10-04-2026	Geographic Coordinate System
11-04-2026	do
Week 12	
13-04-2026	Datum and Spheroid
14-04-2026	do
15-04-2026	Introduction to the Google Earth
17-04-2026	do
18-04-2026	Geographical Mapping with hand-held GPS
Week 13	
20-04-2026	do
21-04-2026	Class Test
22-04-2026	Student's Problem
24-04-2026	Student's Problem
25-04-2026	Presentation of Student
Week 14	
27-04-2026	Presentation of Student
28-04-2026	Revision
29-04-2026	Revision
Signature of Faculty	