



RPS Degree College, Balana (Mahendergarh)

Lesson Plan

2020-21(Odd Semester)

Class and Section: M.Sc. 1st Sem. Geography

Subject: Climatology

Name of the Faculty : Mrs. Nachita Kumari

Lecture	Topics
1	Introduction to Syllabus, Scheme of Exam & Learning Objectives/Outcomes
2	Test to Check the Learning Level of the Students
3	Meaning and definition
4	Scope of climatology
5	Definition of weather and climate
6	Climatology and Meteorology
7	Atmosphere
8	Origin of atmosphere
9	Composition of atmosphere
10	Structure of atmosphere
11	Insolation
12	Solar radiation
13	Terrestrial radiation
14	Latitudinal and seasonal variation
15	effect of atmosphere
16	Green House effect
17	Heat Budget
18	Latitudinal heat balance
19	Temperature
20	Process of heat energy transfer
21	Heating and cooling of atmosphere
22	Horizontal distribution of temperature
23	Vertical distribution of temperature
24	Inversion of temperature
25	Atmospheric pressure
26	Measurement and its distribution pattern
27	Vertical variation
28	Horizontal variation
29	seasonal variation
30	General Circulation
31	Planetary winds
32	Geostrophic winds
33	Subtropical winds
34	Westerlies winds

35	Polar winds
36	Trycellular meridional circulation
37	Walker circulation
38	ENSO
39	La-Nina
40	Circulation pattern in vertial plains
41	Circulation pattern in horizontal plains
42	Origion of monsoon
43	Jet streams
44	Atmospheric moisture
45	source of atmospheric moisture
46	Type of humidity
47	Distribution of humidity
48	Evaporation
49	Condensation
50	Condition , forms and types
51	Precipitation
52	Process ,forms and types
53	Distribution of precipitation
54	Atmospheric equalibrium
55	Stability and instability
56	Adiabatic process of temperature change
57	Air masses: defination , characteristics
58	Classification of air masses
59	Fronts origion and classification
60	Atmospheric disturbances
61	Tropical cyclones
62	Thunderstorms, tornedows, Waterspots
63	Cliamtic classification Koppen
64	Thornthwaite
65	Climate change- Evidences and causes
66	Theory of climate change- Dust hypo
67	Carbon di- theory
68	Astronomic theory of climate change
69	Lab Work: Climograph
70	Lab Work: Rainfall deviation diagrams
71	Lab Work: Heathergraph
72	Lab Work: Isopleths
73	Lab Work: Study of weather instruments
74	Lab Work: Elements of weather
75	Lab Work: Interpretation of Indian weather map
76	Lab Work: Construction of water budget diagram.



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2020-21(Odd Semester)

Class and Section: M.Sc. 1st

Subject: Geomorphology

Name of the Faculty : Mr. Anil Kumar

Lecture	Topics
1	Introduction to Syllabus, Scheme of Exam & Learning Objectives/Outcomes
2	Test to Check the Learning Level of the Students
3	Nature and scope of geomorphology
4	Relation with other sciences
5	Development of geomorphology
6	Uniformitarianism
7	Geological structure and landforms
8	Monocyclic
9	Multicyclic
10	Polygenetic landscapes
11	C-14 and Pollen
12	Earth spheres
13	Rock types
14	Continental drift theory
15	Plate tectonics
16	Distribution of plates
17	Endogenetic process
18	Faulting, Folding
19	Earthquake : causes and classification
20	Intensity and magnitude
21	Volcanism: causes and classification
22	Gegographic distribution
23	Exogenetic process
24	Weathering and its types
25	Soil formation
26	Mass wasting
27	Hill slope analysis
28	Fluvial landforms
29	Glacial landforms
30	Aeolian landforms
31	Karst landforms
32	Applied geomorphology
33	Environmental management
34	Ground water studies

35	Dam construction
36	Urban development



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Lesson Plan

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Class and Section: M.Sc. 1st Sem Geography

Subject: Advance Geography of India

Name of the Faculty : Mr. Rahul Sharma

Lecture	Topics
1	Introduction to Syllabus, Scheme of Exam & Learning Objectives/Outcomes
2	Test to Check the Learning Level of the Students
3	Space relationship of India with neighbouring countries
4	Physiographic regions
5	Drainage system and watershed
6	Climate
7	Mechanism of Monsoon
8	Rainfall Patterns
9	Climatic Regions
10	Natural Vegetation
11	Soil types and their distribution
12	Agriculture and Resources
13	Major characteristics and problems of agriculture
14	Agricultural regions
15	Agro- climatic regions
16	Green revolution and its impact of Indian agriculture
17	Dry farming and its significance
18	Livestock resources
19	White revolution
20	Non- convectional energy resources
21	Mineral resources coal and petroleum
22	Industry, Transport , communication and Trade
23	Evolution of industries
24	Locational factors of textile industry
25	Iron and Steel industries
26	Automobile industries
27	Industrial regions of India
28	Road , railways and pipeline networks
29	Role of transport in regional development
30	Regional development and planning
31	Experience of regional planning in India
32	Integrated rural development programmes
33	Planning for backward areas
34	Desert, Drought and hill and tribal area development

35	Contemporary issues
36	Environmental Hazards
37	Earthquakes
38	Tsunamis
39	Flood and draught
40	causes and mitigation measures
41	Population explosion
42	Food security
43	Regional disparities in economic development
44	Linkage of rivers

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Lesson Plan

Class and Section: M.S.c Geo 1st sem

Subject: Computer Applications

Name of the Faculty : Monika

Lecture	Topics
1	Introduction to Syllabus, Scheme of Exam &
2	Test to Check the Learning Level of the Students
3	Introduction, Characteristics of computer
4	Classification of Computers
5	Applications of Computer
6	Basic component of PC
7	Hardware, Software
8	Computer Memory
9	Secondary Memory
10	Computer Peripherals
11	Output Devices
12	Internet Basics
13	Surfing the internet
14	Sending Email
15	Introduction of MS Word
16	Working with MS-Word
17	Word basic commands
18	Formatting text and documents
19	Sorting and Tables
20	Working with graphics
21	Introduction to mail merge
22	Introduction to Electronic Spreadsheet, Applications of Electronic Spreadsheet
23	Features of MS-Excel
24	Main Components of MS-Excel Application Window
25	Entering data in a Worksheet, Creating a new Blank Workbook
26	Saving a Workbook
27	Closing a workbook
28	Opening an Existing Workbook
29	Saving an existing Workbook with a different name
30	Exit from MS-Excel
31	Selecting Cells, Naming a cell or cell range
32	Editing data
33	Managing Worksheets
34	Formatting a Worksheet
35	Printing a worksheet or a workbook
36	Creating a table
37	Formatting a table
38	Creating a Chart
39	Formulas in Excel
40	Cell reference and its types

41	Establishing link among various worksheets
42	Built-in Function
43	Sum Function
44	Lower Function
45	Average Function
46	Using Macro
47	Goal Seek:What-If Analysis
48	Presentation with powerpoint
49	Powerpoint basics
50	Creating presentations the easy way
51	Working with graphics in powerpoint
52	Show time
53	Sound effects
54	Animation effects

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Lesson Plan

Class and Section: m.Sc 1st sem

Subject: Urban Geography (GEOG 109)

Name of the Faculty : Dr. Hemant Kumar



Lecture	Topic Covered
	Introduction to Syllabus, Scheme of Exam & Learning Objectives/Outcomes
1	Urban Space
2	Identification and definitions
3	Attributes of Urban space
4	Urban Geography-Definition, nature
5	Urban Geography-scope; different approaches
6	Urban Geography-Definition, nature and scope;
7	Different approaches and recent trends in Urban-I
8	Different approaches and recent trends in Urban-II
9	Assignment Work
10	Origin and evolution of urban places in Ancient time
11	Origin and evolution of urban places in Medieval era
12	Origin and evolution of urban places in Modern era
13	urban places in Post Modern era
14	Class test
15	Site of towns
16	Situations of towns
17	City and region,spatial linkage(urban rural linkage) and interactions-I
18	City and region,spatial linkage(urban rural linkage) and interactions-II
19	Rural- urban fringe,
20	sub-urbanization
21	Size and spacing of cities -central place theory-Cristaller theory
22	Rank size rule theory
23	Assignment work
24	Primate city ,basic and non basic functions,
25	functional classification of cities
26	Contribution of foreign and indian scholars
27	Revision
28	Urban morphology and land use ,models of city structure-concentric zone theory by Burgess-I
29	Urban morphology and land use ,models of city structure-concentric zone theory by Burgess-II
30	Sector model by Homer Hoyt
31	Multiple nuclei theory by Ullman and Harris

32	Social area analysis
33	Class test
34	Contemporary urban morphology in wake of globalization -global city
35	Urbanization and Urbanism,
36	Urbanization cycle
37	Trend and pattern of urbanization in world with special reference to India
38	Problem of metropolitan cities in india ,
39	Urban planning in India ,Study of master plan of Delhi and Chandigarh and
40	concept of smart city



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Class and Section: M.Sc. 1st Sem.

Subject: Cultural Geography

Name of the Faculty : Mrs. Nachita Kumari

Lecture	Topics
1	Introduction to Syllabus, Scheme of Exam & Learning Objectives/Outcomes
2	Test to Check the Learning Level of the Students
3	Meaning and Nature of cultural geography
4	Scope of cultural geography
5	The evolutionary approach in cultural geography
6	The evolution of cultural geography
7	Contribution of Otto Schluter
8	Contribution of Carl Saur
9	Themes in cultural geography
10	Cultural regions
11	Cultural areas
12	Cultural realms
13	Cultural diversities
14	Basis of cultural diversity
15	Race
16	Religion
17	language
18	Cultural diversity in the world
19	Cultural diversity and regionalisation In India
20	Role of environment in development
21	Folk culture
22	Folk culture diversity
23	Cultural adaptation and environmental perception
24	Men as modifier of earth spatial structure
25	Human races
26	Habitat and economy
27	Racial elements in India
28	Tribes of India
29	Tribes of world

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Class and Section: M.S.c Geo 1st sem

Subject: Computer Applications

Name of the Faculty : Monika

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