।। सा विद्या या विमुक्तये ।।
स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
"ज्ञानतीर्थ" परिसर, विष्णुपूरी, नांदेड - ४३१६०६ (महाराष्ट्र)
SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED
"Dnyanteerth", Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)
Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade
25 1994 - 2019 SILVER JUBILEE YEAR

ACADEMIC (1-BOARD OF STUDIES) SECTION

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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९–२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, **दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३–२०१९** च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या **संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे** खालील विषयांचे **C.B.C.S. (Choice Based Credit System) Pattern** नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९–२० पासून लागू करण्यात येत आहेत.

१) एम.ए.–प्रथम वर्ष–इंग्रजी
२) एम.ए.–प्रथम वर्ष–हिंदी
३) एम.ए.–प्रथम वर्ष–मराठी
४) एम.ए.–प्रथम वर्ष–संस्कृत
५) एम.ए.–प्रथम वर्ष–उर्दू
६) एम.ए.–प्रथम वर्ष–अर्थशास्त्र
७) एम.ए.–प्रथम वर्ष–भूगोल
८) एम.ए.–प्रथम वर्ष–इतिहास
९) एम.ए.–प्रथम वर्ष–तत्त्वज्ञान
१०) एम.ए.–प्रथम वर्ष–राज्यशास्त्र
११) एम.ए.–प्रथम वर्ष–मानसशास्त्र
१२) एम.ए.–प्रथम वर्ष–लोकप्रशासन
१३) एम.ए.–प्रथम वर्ष–समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या **www.srtmun.ac.in** या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

'ज्ञानतीर्थ' परिसर,
विष्णुपुरी, नांदेड – ४३१ ६०६.
जा.क्र.: शैक्षणिक–०१/परिपत्रक/पदव्युत्तर–सीबीसीएस अभ्यासक्रम/२०१९–२०/**६७**
दिनांक : १७.०६.२०१९.

स्वाक्षरित/–
उपकुलसचिव
शैक्षणिक (१–अभ्यासमंडळ) विभाग

प्रत माहिती व पुढील कार्यवाहीस्तव :

१) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
२) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वामी रामानंद तीर्थ
मराठवाडा विद्यापीठ,नांदेड.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

SYLLABUS

GEOGRAPHY

M.A./M.Sc. FIRST YEAR

SEMESTER PATTERN

(Choice Based Credit System)

With Effect From June 2019

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Semester Pattern Choice Based Credit System (CBCS) Course Structure
M. A./M.Sc. First Year
Subject-Geography
***With effect from*: June, 2019**

Semester-I

Paper No.	Title of the Paper	Periods per week	Total No. of Periods	Marks			Credits	Duration of Examination
				CA	ESE	Total		
I	Geomorphology	4	50	25	75	100	4	3 Hour
II	Climatology	4	50	25	75	100	4	3 Hour
III	Economic Geography Or Geography of Environment	4	50	25	75	100	4	3 Hour
IV	Geography Practical	6	70	25	75	100	4	4 Hour
	Total	**18**	**220**	**100**	**300**	**400**	**16**	

Semester-II

Paper No.	Title of the Paper	Periods per week	Total No. of Periods	Marks			Credits	Duration of Examination
				CA	ESE	Total		
V	Oceanography	4	50	25	75	100	4	3 Hour
VI	Settlement Geography	4	50	25	75	100	4	3 Hour
VII	Political Geography Or Geography of India	4	50	25	75	100	4	3 Hour
VIII	Geography Practical	6	70	25	75	100	4	4 Hour
	Total	**18**	**220**	**100**	**300**	**400**	**16**	

Note :

1. Continuous Assessment (25 marks) will be as follows
   a. Two tests of 5 mark each. = 10 Marks
   b. Home assignment = 10 Marks
   c. Seminar = 05 Marks
2. Total periods for each theory paper shall be 50 per semester.
3. Total periods for each practical paper shall be 70 per semester
4. Strength of students for each practical batch shall not be more than twelve (12)
5. Six periods for practical per batch per week
6. Submission of certified journal and field report is compulsory without which students will not be allowed to appear for practical examination.

Question Paper Model and Scheme of Marking

Subject: **GEOGRAPHY**

M. A. First Year (Semester I and II) **Theory (Paper I, II, III, and V, VI,VII)**

(w. e. f. June 2019)

Marks: 75

Q.1 Descriptive type question **(20)**

OR

Descriptive type question

Q.2 Descriptive type question **(20)**

OR

Descriptive type question

Q.3 Write short answer on ***any two*** of the following **(20)**

a) Short answer

b) Short answer

c) Short answer

d) Short answer

Q.4 Write a short note on ***any two*** of the following **(15)**

a) Short note

b) Short note

c) Short note

d) Short note

Question Paper Model and Scheme of Marking

Subject: **GEOGRAPHY**

M. A. First Year (Semester I) **Practical (Paper IV)**

(w. e. f. June 2019)

Marks: 75

Q.1. a) Calculate the slope in degree, gradient, mills and percentage	02
b) Draw Profile	08
c) Method of Slope Analyses	10
Q.2.Interpretation of Topographical Map (any two feature)	10
Q.3. a) Prismatic compass Survey	08
b) Dumpy Level Survey	08
c) Bowditch's Method	08
Q.4. a) Measuring of the height using Abney level	06
b) Field Visit Report	05
Q.5 .Journal and Viva	10

Question Paper Model and Scheme of Marking

Subject: **GEOGRAPHY**

M. A. First Year (Semester II) **Practical (Paper VIII)**

(w. e. f. June 2019)

Marks: 75

Q.1. a) Drawing of Isoline/ Ergograph/ Climatograh **(any one)** 10

b) Draw Star Diagram/ Wind Rose/ Octogonal Wind Rose/ Rainfall Dispersion **(any one)** 05

Q.2. a) Interpret the Indian Daily Weather Report 10

b) Prepare weather station model 05

Q.3. a)Graphical Presentation of Frequency 05

b) Methods of Measuring Deviation 10

c) Methods of Measuring Correlation 10

Q.4 Tour Report 10

Q.5 .Journal and Viva-voce 10

M.A. / M.Sc. FIRST YEAR
SEMESTER-I
PAPER-I
GEOMORPHOLOGY

Marks: 100 **Credit: 04** **Period: 50**

Salient Features

1. The aim of this course is to introduce the students with the fundamentals of geomorphology.

Utility

1. To help students to know the evolutionary stages of the earth. To geomorphologic imprints on the earth through structure, process and stage during different geological time scale.

Learning Objectives

1. To provide in depth knowledge about geomorphology
2. To prepare students for various competitive examinations
3. To nurture scientific and research approach among the students

Pre-requisites

1. Books, Maps, Globe, Models
2. ICT, Field Visit

Unit-I Introduction **08 Periods**

A. Definition, Nature and Scope of Geomorphology

B. Fundamental Concepts in Geomorphology

Unit-II Earth Movements **08 Periods**

A. Epeirogenic Process-Causes and Effects

B. Orogenic Process- Causes and Effects

Unit-III Theories **08 Periods**

A. Wegner's Continental Drift Theory

B. Isostasy Theory

C. Plate Tectonics Theory

D. Concept of Cycle of Erosion

Unit-IV Exogenic Processes **08 Periods**

A. Causes, Types and Classification of Weathering and Mass Movement

B. Concept of Slope Evolution,

   1. Slope Decline Theory- W. M. Davis
   2. Parallel Retreat Theory - L.C. King
   3. Slope Replacement Theory – W. Penck

Unit-V Geomorphic Processes and Resulting Landforms **10 Periods**

A. Fluvial B. Arid C. Glacial

D. Coastal

Unit-VI Application of Geomorphology to Human Activities **08 Periods**

A. Settlements B. Transport C. Mining

Suggested Readings

1.	Chorley, R.J.	:	Spatial Analysis in Geomorphology
2.	Cooke, R.U. and Doomkamp, J.C.	:	Geomorphology in Environmental Management an Introduction
3.	Dury, G.H.	:	The Face of the Earth
4.	Fairbridge R.W.	:	Encyclopedia of Geomorphology
5.	Goudie A.	:	The Nature of the Environment
6.	Gamer, H.P.	:	The Origin of Landscape
7.	Mitchell, C.W.	:	Terrain Evaluation
8.	Ollier, C.D.	:	Weathering
9.	Pitty, A.F.	:	Introduction to Geomorphology
10.	Stoddart, D.R.	:	Process and Form in Geomorphology
11.	Skinner, B.J. & Porter, S.C.	:	The Dynamic Earth
12.	Sparks, B.W.	:	Geomorphology
13.	Sharma, H.S.	:	Perspectives in Geomorphology
14.	Singh, S.	:	Geomorphology
15.	Thombury, W.D.	:	Principles of Geomorphology

M.A. / M.Sc. FIRST YEAR
SEMESTER-I
PAPER-II
CLIMATOLOGY

Marks: 100 **Credit: 04** **Period: 50**

Salient Features

1. The aim of this course is to introduce the students with fundamentals of climatology.

Utility

1. To understand the climate since the formation of the earth and changes those have occurred over a period of time, and to predict climate changes.

Learning Objectives

1. To provide in depth knowledge about climatology
2. To prepare students for various competitive examinations
3. To nurture scientific and research approach among the students

Pre-requisites

1. Books, Maps, Globe, Models
2. ICT

Unit-I Introduction and Insolation **10 Periods**

A. Nature and Scope of Climatology and its Relationship with Meteorology. Composition and Structure of the Atmosphere
B. Insolation, Heat Balance of the Earth. Vertical and Horizontal Distribution of Temperature

Unit-II Atmospheric pressure and Winds **10 Periods**

A. Atmospheric Pressure. Vertical and Horizontal Distribution of Pressure, Pressure Belts.
B. Planetary Winds, Periodic Winds, Local Winds and Monsoons

Unit-III Atmospheric moisture and precipitation **10 Periods**

A. Atmospheric Moisture: Humidity, Evaporation, Condensation, Precipitation Formation and Types.
B. Acid Rain, World Pattern of Precipitation

Unit-IV Air Mass and Cyclones **10 Periods**

A. Concept of Air Mass and Classification, Frontogenesis and Frontolysis
B. Temperate and Tropical Cyclones and Anticyclones
C. Ocean Atmospheric Interaction – El Nino, Southern Oscillation and La Nina

Unit-V Climate Classification and Environmental Issues **10 Periods**

A. Koppen's and Thornthwaite's Classification of Climate of the World.
B. Global Warming Causes and Environmental Impacts.
C. Applied Climatology and Urban Climate

Suggested Readings:

1)	Barry, R.G. and Chorley P.J.	:	Atmosphere, Weather and Climate
2)	Critchfield, J.H.	:	General Climatology
3)	Das P.K.	:	Monsoons
4)	Fein, J.S. and Stephens, P.N.	:	Monsoons
5)	India Met. Dept.	:	Climatological Tables of Observatories in India
6)	Lal, D.S.	:	Climatology
7)	Lydolph, P.E.	:	The Climate of the Earth
8)	Menon, P.A.	:	Our Weather
9)	Peterson, S.	:	Introduction to Meteorology
10)	Robinson, P.J. and Henderson S.	:	Contemporary Climatology
11)	Thompson, R.D. and Perry	:	Applied Climatology, Principles and Practice

M.A. / M.Sc. FIRST YEAR
SEMESTER-I
PAPER-III
ECONOMIC GEOGRAPHY

Marks: 100 **Credit: 04** **Period: 50**

Salient Features

1. The aim of this course is to introduce the students with fundamentals of economic geography.

Utility

1. To study the distribution of natural resources and their impact on location economic activities. Resource utilization and economic development in northern and southern countries of the world.

Learning Objectives

1. To provide in depth knowledge about economic geography
2. To prepare students for various competitive examinations
3. To nurture scientific and research approach among the students

Pre-requisites

1. Books, Maps, Globe, Models
2. ICT

Unit-I Introduction and Location of Economic Activities **10 Periods**

A. Definition, Nature and Scope of Economic Geography. Relation of Economic Geography With Economics and Other Branches of Social Sciences.
B. Location of Economic Activities and Spatial Organization of Economics. Classification of Economies: Sectors of Economy-Primary, Secondary and Tertiary.

Unit-II Energy Resources **10 Periods**

A. Factors of Location of Economic Activities: Physical, Social, Economic and Cultural.
B. Distribution of Energy Resources in the World
    1. Coal
    2. Petroleum
    3. Natural Gas
C. World Energy Crises in Developed and Developing Countries

Unit-III Industrial Location Theories and Industries **10 Periods**

A. Classification of Industries
B. Theories of Industrial Location-
    1. Alfred Weber,
    2. August Losch
    3. Walter Isard
C. Case Studies of Selected Industries in the World with Special Reference to India-
    1. Iron and Steel,
    2. Cotton
    3. Chemical

Unit-IV Modes of transportation and spatial interaction **10 Periods**

- **A.** Modes of Transportation and Transport Cost
- **B.** Theories and Models of Spatial Interaction (Edward Ullman and M. E. Hurst) Measures and Indices of Connectivity and Accessibility;
- **C.** Spatial Flow Models: Gravity Model and its Variants,

Unit-V Globalization, Green Revolution And Indian Economy **10 Periods**

A. Economic Development of India, Regional Disparities in India
B. Impact of Green Revolution on Indian Economy.
C. Globalization and Indian Economy and its Impact on Environment.

Suggested Readings

1)	Berry J.L.	:	Geography of Market Centers and Retail Distribution
2)	Chatterjee, S.P.	:	Economic Geography of Asia
3)	Chorley, R.J. and Haggett, P.	:	Network Analysis in Geography
4)	Dreze, J. and Sen, A.	:	India-Economic Development and Social Opportunity.
5)	Ecklarsley, R.	:	Markets, the State and the Environment
6)	Garnier, B.J. and Delobez:	:	A Geography of Marketing
7)	Hamilton, F.E.I.	:	Spatial Perspectives on Industrial Organization and Decision Making
8)	Hamilton, I.	:	Resources and Industry
9)	Hurst, E.	:	Transport Geography-Comments and Readings
10)	Morgan, W.B. and Munton R.J.C.	:	Agricultural Geography
11)	Pachuri, R.K.	:	Energy and Economic Development in India
12)	Robertson, D.	:	Globalization and Environment
13)	Rostow, W.W .	:	The Stages of Economic Growth
14)	Singh J. and Dhillon S.S.	:	Agricultural Geography
15)	Symons L.	:	Agricultural Geography
16)	Wheeler, J.O.	:	Economic Geography

M.A. / M.Sc. FIRST YEAR
SEMESTER-I
PAPER-III
GEOGRAPHY OF ENVIRONMENT (OR)

Marks: 100 **Credit: 04** **Period: 50**

Salient Features

1. The aim of this course is to introduce the students with fundamentals of geography of environment.

Utility

1. To understand the environment *in toto*, its significance, and ways of conservation and protection of environment.

Learning Objectives

1. To provide in depth knowledge about geography of environment
2. To prepare students for various competitive examinations
3. To nurture scientific and research approach among the students

Pre-requisites

1. Books, Maps, Globe, Models
2. ICT, Field Visit

Unit- I Introduction **10 Periods**

A. Definition, Nature and Scope of Environment Geography of Environment
B. Environment: Meaning, Nature and Components
C. Public Awareness through Institution and People in Environment

Unit- II Natural Resources **10 Periods**

A. Natural Resources and Associated Problems
B. Non- Renewable Resources
C. Renewable Resources

Unit-III Ecosystem **10 Periods**

A. Concept of an Ecosystem, Structure and Functions of Ecosystem
B. Energy Flow in the Ecosystem: Hydrological and Carbon Cycle
C. Food Chain, Food Web and Ecological Pyramid

Unit- IV Biodiversity **10 Periods**

A. Concept of Biodiversity , Importance and Types
B. Depletion of Biodiversity: Natural and Man Induced Causes
C. Hotspots of Biodiversity and Conservation of Biodiversity

Unit- V Pollution, Environmental Hazards and Environmental Policies **10 Periods**

A. Pollution: Meaning and Types- Air, Water and Soil. Causes, Effects and Remedies
B. Environmental Hazards: Global Warming, Urban Heat Island
C. Environmental Policies: Brundtland Commission, Kyoto Protocol, Sustainable Development Goals

Suggested Readings

1) Agarwal, A.et.al. : The Citizen's Fifth Report. Center for Science and Environment, New Delhi, 1998
2) Alexander John : Economic Geography, Prentice Hall & W of India Ltd. New Delhi, 1998
3) Allen J.L. : Student Atlas of Environmental Issues Dushkin Publication, 1997
4) Brown L.R. : In the Human Interest, East-West Press, New Delhi, 1976
5) Cutter,L. Renwick H.L. Rowman & Allanheld : Exploitation, Conservation& Preservation: A Geographic Perspective and Natural Resources Use, Wotowa N.J., 1985
6) Erach, Bharucha : Textbook of Environmental Studies, Universities Press (India) Pvt. Ltd. Hyderabad, 2005
7) Lal, Pranaya : Indica: A Deep Natural History of the Indian Subcontinent, Penguin Random House India, Gurgaon, 2016
8) Saxena, H. M. : Environmental Geography, Rawat Publication, Jaipur, 2008
9) Singh, Savinder : Environmental Geography, Prayag Pustak Bhandar, Allahabad, 2018

M.A. / M.Sc. FIRST YEAR
SEMESTER-I
PAPER-IV
PRACTICAL GEOGRAPHY

Marks: 100 **Credit: 04** **Period: 70**

Salient Features

1. The aim of this course is to introduce the students with basics of profile and slope analysis. Interpretation of topographical maps.

Utility

1. To help students to develop the skills of surveying, collection, presentation and interpretation of data.

Learning Objectives

1. To provide surveying skills, data collection, report writing, etc.
2. To prepare students for various competitive examinations
3. To nurture scientific and research temperament among the students

Pre-requisites

1. Books, Maps, Globe, Models
2. ICT

Unit-I Profile and Slope Analysis **25 Periods**

A. Profile – Serial, Superimposed, Projected, Composite
B. Slope-Methods of Measurements of Slopes
   i. Degree ii. Gradient iii. Percentage iv. Mills
C. Methods of Slope Analysis
   i. C.K. Wentworth's Method ii. G.H. Smith's Method
   iii. Robinson's Dot Method

Unit-II Interpretation of SOI Maps **15 Periods**

Interpretation of Topographical Maps of Coastal, Mountainous, Arid and Plain Regions of India and Foreign Countries.

Unit-III Surveying **15 Periods**

A. Prismatic Compass Survey-Open and Close Traverse Correction of Bearings by Bowditch's Method.
B. Dumpy Level Survey.
C. Measurement of Height by Abney Level and Indian Clinometer.

Unit-IV Field Visit and Preparation of Report **15 Periods**

Students to be taken on a field visit for one day to nearby areas.
Main objectives of field visit are:

i. To prepare contour plan by using Dumpy level.
ii. To measure height by using Abney Level and Indian clinometers
iii. To identify the landforms on the surface, while in the field. Also note the agents of erosion, transportation and deposition associated with the landforms.
iv. To prepare the report with maps, sketches, photographs etc.

Suggested Readings

1) Croxton & Cowden : Applied General Statistics
2) Hammod & Mc Gullah : Quantitative Techniques in Geography
3) Khan Z.A. : Text Book of Practical Geography
4) Mishra R.P. and Ramesh A. : Fundamentals of Cartography
5) Pal, S.K. : Statistics for Geoscientists
6) Robinson, A.H. : Elements of Cartography
7) Sarkar A.K. : Practical Geography-A Systematic Approach
8) Sing, R.L. and Dutt, P.K. : Elements of Practical Geography Kalyani Publishers, New Delhi 1979
9) Singh and Singh : Mapwork and Practical Geography
10) Sarkar, A. : Practical Geography – A Systematic Approach – Orient Longman Calcutta, 1997.

M.A. / M.Sc. FIRST YEAR
SEMESTER-II
PAPER-V
OCEANOGRAPHY

Marks: 100 **Credit: 04** **Period: 50**

Salient Features

1. The aim of this course is to introduce the students with fundamentals of Ocean geography.

Utility

1. To understand the significance of oceanography and its influence on climate change, habitation and its different dimensions.

Learning Objectives

1. To provide in depth knowledge about oceanography
2. To prepare students for various competitive examinations
3. To nurture scientific and research approach among the students

Pre-requisites

1. Books, Maps, Globe, Models
2. ICT

Unit-I Introduction and Bottom Topography of Oceans **10 Periods**

A. Definition, Nature and Scope of Oceanography
B. Nature of Ocean Floor-Continental Shelf, Continental Slope, Deep Ocean Basin and Trenches. Expansion of Ocean Floor.
C. Bottom Topography of The Atlantic, Pacific and Indian Oceans.

Unit-II Ocean Temperature and Salinity **10 Periods**

A. Physical and Chemical Properties of Sea Water, Heat and Salt Budgets of Ocean.
B. Distribution of Temperature and Salinity.

Unit-II Ocean Circulations **10 Periods**

A. Ocean Circulation: Oceanic Currents, Factors Affecting on Oceanic Currents, Currents of Atlantic, Pacific and Indian Ocean.
B. Sea Waves, Tides and Tsunami

Unit-IV Marine Deposits and Resources **10 Periods**

A. Marine Deposits – Classification of Deposits, Coral Reefs, Coral Bleaching
B. Marine Resources: Biological Resources, Mineral Resources and Energy Resources

Unit-VI Human Intervention and Laws of Sea **10 Periods**

A. Sea Level Changes and its Impact.
B. Impact of Human on Marine Environment, Laws of Sea.

Suggested Readings:

1)	Anikouchine, W.A. and Sternberg, R.W.	:	The world Oceans: An Introduction to Oceanography
2)	Grald S.	:	General Oceanography – An Introduction
3)	Garrison T.	:	Oceanography
4)	King C.A.M.	:	Beaches and Coasts
5)	King C.A.M.	:	Oceanography and Geographers
6)	Sharma R.C. Vatel M.	:	Oceanography for Geographers
7)	Shepard, F.P.	:	Submarine Geology
8)	Thurman, H.B.	:	Introductory Oceanography
9)	Weisberg J and Howard	:	Introductory Oceanography

M.A. / M.Sc. FIRST YEAR
SEMESTER-II
PAPER-VI
SETTLEMENT GEOGRAPHY

Marks: 100 **Credit: 04** **Period: 50**

Salient Features

1. The aim of this course is to introduce the students with fundamentals of Settlement Geography.

Utility

1. To understand the process of evolution of rural and urban centre in the world and in India
2. To understand global urban trends and problems and contemporary issues in India.

Learning Objectives

1. To provide in depth knowledge about settlement geography
2. To prepare students for various competitive examinations
3. To nurture scientific and research approach among the students

Pre-requisites

1. Books, Maps, Globe, Models
2. ICT, Field Visit

Unit-I Introduction **08Periods**

A. Definition, Nature and Scope of Settlement Geography

B. Importance of the Study of Settlement Geography

C. Origin and Evaluation Settlements

Unit-II Rural Settlement in India **08Periods**

A. Types and Patterns of Rural Settlements

B. Distribution of Rural Settlement in India

C. Contemporary Problems of Rural Settlements

1. Rural-Urban Migration
2. Landuse Changes
3. Land Acquisition and Transactions

Unit-III Origin of Towns and Urbanization **08Periods**

A. Theories of Origin of Towns

1. Gordon Childe
2. Henri Pirenne

B. Processes and Characteristics of Urbanization in Developed and Developing Countries

C. Factors of Urban Growth, Trends of Urbanization, and Functions of Urban Areas

D. Urban Systems :The Law Of The Primate City and Rank Size Rule

Unit- IV Urban Concepts **08Periods**

A. Concept of Megalopolis (Megacities),Conurbation, City Region, Smart City and its Characteristics, Global Cities and Edge Cities

B. Concept of Central Business District (CBD), Hinterland, Umland and its Characteristics.

C. Changing Urban Forms : Peri-Urban Areas, Rural-Urban Fringe, Suburban Ring and Satellite Towns

Unit-V Models of Urban Land Use **10Periods**

A. Central Place Theory of Christaller and Losch.

B. Theory of Peroux and Boudeville

C. Concentric Zone Model by E.W. Burgess

D. Sector Model by Homer Hoyte

E. Multiple Nuclei Model by Harris and Ullman.

Unit-VI Morphology of Indian Cities and Urban Issues in India **08Periods**

A. Morphological Characteristics of Indian Cities.

B. Basic and Non-Basic Functions.

C. Contemporary Urban Issues of Indian Urban Centers

1. Slums
2. Urban Renewal,
3. Urban Infrastructure
4. Environmental Pollution

Suggested Readings:

1)	Alam, S.M.	:	Hyderabad, Secunderabad Twin Cities
2)	Berry B.J.L. and Horton F.F.	:	Geographic Perspectives on Urban Systems
3)	Carter H.	:	The Study of Urban Geography
4)	Chorley, R.J.O. Haggett P.	:	Models of Geography
5)	Dickinson, R.E.	:	City and Region
6)	Dwyer, D.J.	:	The City as a Center of Change in Asia
7)	Gibbs, G.P.	:	Urban Research Methods
8)	Hall, P.	:	Urban Development and Urban Geography
9)	Kundu, A.	:	Urban Development and Urban Geography
10)	Mumford, L.	:	Culture of Cities
11)	Smailes A.E.	:	The Geography of Towns
12)	Meyor and Kohn	:	Reading in Urban Geography

M.A. / M.Sc. FIRST YEAR
SEMESTER-II
PAPER-VII
POLITICAL GEOGRAPHY

Marks: 100 **Credit: 04** **Period: 50**

Salient Features

1. The aim of this course is to introduce the students with fundamentals of Political Geography.

Utility

2. To understand the geopolitics, its significance, and international relations.

Learning Objectives

1. To provide in depth knowledge about political geography
2. To prepare students for various competitive examinations
3. To nurture scientific and research approach among the students

Pre-requisites

1. Books, Maps, Globe, Models
2. ICT

Unit-I Introduction **10 Periods**

A. Definition, Nature and Scope of Political Geography
B. Recent Development in Political Geography
C. Approaches to the Study of Political Geography

Unit-II Geographic Elements of State **10 Periods**

A. Geographic Elements and the State :
Physical, Cultural and Economic Elements
B. Political Geography and Environment Interface

Unit-III Themes in Political Geography **10 Periods**

A. Themes in Political Geography
State, Nation and Nation-State and Nation-Building
B. Frontiers and Boundaries, Core Areas

Unit-IV Global strategic Views **10 Periods**

A. Geopolitical significance of the Indian Ocean
B. Global Strategic Views : The Views of Mackinder, Spykman, and Mahan and Their Relevance to Contemporary World Situation.

Unit-V Political Geography of contemporary India **10 Periods**

A. Political Geography of Contemporary India with Special Reference to Changing Political Map of India.
B. Centripetal and Centrifugal Forces; Stability and Instability; Interstate Issues (Like Water Disputes and Riparian Claims) and Conflict Resolutions, Insurgency in Border States; Emergence of New State; Federal India : Unity in Diversity

Suggested Readings

1)	Alexander, L.M.	:	World Political Patterns
2)	De Blij, H.J. and Glassner, Matrin	:	Systematic Political Geography
3)	Dikshit, R.D.	:	Political Geography
4)	Sukhwal, B.L.	:	Modern Political Geography of India.
5)	Taylor, B.L.	:	Political Geography
6)	Pounds N.J.G.	:	Political Geography
7)	John, R. Short	:	An Introduction of Political Geography
8)	Moddie, A.E.	:	Geography Behind Politics
9)	Prescott, J.R.V.	:	The Geography of Frontiers and Boundaries
10)	Deshpande C.D.	:	India – A Regional Interpretation
11)	Panikkar K.M.	:	Geographical Factors in Indian History

M.A. / M.Sc. FIRST YEAR
SEMESTER-II
PAPER-VII
GEOGRAPHY OF INDIA (OR)

Marks:100 **Credit: 04** **Period: 50**

Salient Features

1. The aim of this course is to introduce the students with location and physical settings of India and to understand the significance of unity in the diversity
2. To acquaint the students with regional knowledge of India

Utility

1. To appreciate the regional diversity and to develop acclimatizing temperament among the students

Learning Objectives

1. To provide in depth knowledge about Indian geography
2. To prepare students for various competitive examinations
3. To nurture scientific and research temperament among the students

Pre-requisites

1. Books, Maps, Globe, Models
2. ICT

Unit- I Introduction **10 Periods**

A. India in the Context of South and South-East Asia

B. Physical Regions of India

C. Drainage System of India

Unit- II Regional and Seasonal Variations of Climate **08 Periods**

A. The Indian Monsoon-Mechanism and Characteristics

B. Seasonal Weather Characteristics and Climatic Divisions.

Unit- III Natural Resources **08 Periods**

A. Soil, Vegetation, and Water resources and their Distribution

B. Mineral Resources and Their Distribution

1.Iron 2.Coal 3.Petroleum

Unit- IV Indian Population and Agriculture **10Periods**

A. Growth of Rural and Urban Population

B. Composition of Rural and Urban Population (Age and Sex Ratio)

C. Major Crop Regions

D. Green Revolution: Impact and Regional Disparity

Unit- V Development and Pattern of Transport Network 08 Periods

A. Roadways, Railways, Waterways, Airways and Pipelines.

B. Internal and External Trade, Composition and Directions

C. Industrial Regions and their Characteristics

Unit- VI Natural Calamities and Riparian Geopolitics 06Periods

A. Natural Disasters: Earthquake, Flood and Cyclones

B. Indian Riparian Geopolitics- Sindhu and Brahmaputra Rivers

Suggested Readings

1.	Deshpande, C.D.	:	India : A Regional Interpretation, Northern Book Center, New Delhi 1992.
2.	Farmer, B.H.	:	An introduction to South Asia Methuen, London, 1983.
3.	Govt. of India	:	India-References Annual 2001, Pub.Div., New Delhi, 2001.
4.	Govt. of India	:	National Atlas of India NATMO Publications, Calcutta.
5.	Govt. of India	:	The Gazetteer of India, Vol.1 & 3 Publication Division, New Delhi, 1965.
6.	Learmonth, A.T.A.	:	Man and Land of South Asia, Concept, New Delhi.
7.	Mitra, A.	:	Levels of Regional Development in India-Census of India-Vol.2 (A) (1) & (2) New Delhi, 1987.
8.	Routray, J.K.	:	Geography of Regional Disparity, Asian Institute of Technology, Bangkok, 1993.
9.	Shafi, M.	:	Geography of South Asia- Mc Millan & Co. Calcutta, 2000.
10.	Singh R.L.	:	Indian : A Regional Geography : National Geographical Society India, Varanasi, 1971.
11.	Spate, OHK & Learmonth A.T.A.	:	India & Pakistan – Land People & Economy-Methuen & Co.London, 1967
12.	Wadia, D.N.	:	Geography of India- McMillan & Co.London.
13.	Sharma T.C.	:	Economic & Commercial Geography of India – Vikas Publication House, New Delhi
१४.	डॉ. एस.टी. शेटे, डॉ. के.बी. कनकुरे व इतर	:	भारताचा भूगोल, अभिजीत प्रकाशन, लातूर.
१५.	केचे पांडुरंग	:	भारताचा भूगोल, पिंपळापुरे प्रकाशन, औरंगाबाद.

M.A. / M.Sc. FIRST YEAR
SEMESTER-II
PAPER-VIII
PRACTICAL-II

Marks: 100 **Credit: 04** **Period: 70**

Salient Features

2. The aim of this course is to introduce the students with basics of representation and interpretation of climatic data, Weather map interpretation.

Utility

2. To help students to understand the significance of quantitative data, presentation and interpretation of data.

Learning Objectives

4. To provide surveying skills, data collection, report writing, etc.
5. To prepare students for various competitive examinations
6. To nurture scientific and research temperament among the students

Pre-requisites

3. Books, Maps, Globe, Models
4. ICT

Unit-I Representation of Climatic Data **20 Periods**

A. Drawings of Isolines
B. Ergograph
C. Climatograph
D. Wind Rose, Octagonal Wind Rose, Star Diagram
E. Rainfall Dispersion Diagram

Unit-II Interpretation of Weather maps **20 Periods**

A. Interpretation of Weather Maps of India
B. Weather Station Model
C. Identification of Climatic Types According to Koppen

Unit-III Quantitative Techniques **20 Periods**

A. Graphical Presentation of Frequency
   i. Histogram ii. Frequency Polygaon iii. Ogive Curve
B. Measures of Deviation
   i. Quartile Deviation ii. Mean Deviation iii. Standard Deviation
C. Methods of Measuring Correlation
   i. Scattered Diagram Method ii. Graphic Method
   iii. Karl Pearson's Method iv. Rank Order Spearman's Method
D. i. Chi-Sqaure Test and Standard Error
   ii. Regression Equation and Regression Line

Unit-IV Field Visit and Preparation of Report **10 Periods**

Field visit and preparation of report

Students to be taken on a field visit for one day to nearby village/town/ Tourist place. Main objectives of field visit are:

i. To collect demographic / social / economic data of the households with a structured questionnaire.

ii. To prepare the report with maps, sketches and photographs

Note :

a. Total periods of each practical of 100 marks (75+25) shall be 70 per semester.
b. Strength of students for each practical batch shall not be more than twelve (12).
c. Submission of certified journal and field report is compulsory.

Suggested Readings

1) Croxton & Cowden : Applied General Statistics
2) Hammod & Mc Gullah : Quantitative Techniques in Geography
3) Khan Z.A. : Text Book of Practical Geography
4) Mishra R.P. and Ramesh A. : Fundamentals of Cartography
5) Pal, S.K. : Statistics for Geoscientists
6) Robinson, A.H. : Elements of Cartography
7) Sarkar A.K. : Practical Geography-A Systematic Approach
8) Sing, R.L. and Dutt, P.K. : Elements of Practical Geography Kalyani Publishers, New Delhi 1979
9) Singh and Singh : Mapwork and Practical Geography
10) Sarkar, A. : Practical Geography – A Systematic Approach – Orient Longman Calcutta, 1997.

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