

Ahmednagar Jilha Maratha Vidya Prasarak Samaj's
New Arts, Commerce, and Science College, Ahmednagar
(Autonomous)
(Affiliated to Savitribai Phule Pune University, Pune)



National Education Policy (NEP)
Choice Based Credit System (CBCS)

Programme Skeleton and Syllabus of
Geography (Minor) - II Year

Implemented from
Academic Year 2023-24

**New Arts, Commerce and Science College, Ahmednagar
(Autonomous)**

Board of Studies in Geography

Sr. No.	Name	Designation
1.	Dr.Anand P. Pandit	Chairman
2.	Prof. Bhagwan N. Kumbhar	Member
3.	Dr. Yogesh G. Kadam	Member
4.	Professor Dr. Sachin J. Deore	Academic Council Nominee
5.	Dr.Pandurang P. Chaudhari	Academic Council Nominee
6.	Prof. Sandip N. Deshmukh	Vice-Chancellor Nominee
7.	Dr. Asaram S. Jadhav	Alumni
8.	Mr. Vinit T. Bitla	Industry Expert
9.	Dr.Satish D.Kulakrni	Member (co-opt)
10.	Dr. Digambar D. Ahire	Member (co-opt)

1. Prologue/ Introduction of the programme:

Students enrolled in the program will complete a curriculum that exposes and train students in a full range of essential skills and abilities. They will have the opportunity to master the geographical knowledge. The discipline of geography is mainly concerned with changes in spatial attributes from a temporal perspective. This programme in geography is tailored to meet the student's specific educational and professional goals in mind. It focuses on spatial studies, qualitative as well as quantitative, and emphasizes the human-environment relationship. During the first year of the programme, students study the fundamental knowledge related to the subject of geography. It covers the Basics of Geography, the Fundamentals of the Earth and the Representation of Geographical Data using various techniques. In the second year, more emphasis is given to specific areas of the subject including Atmosphere, Hydrosphere, Population and Settlements. In the third year, students will study the Geography of Maharashtra and India which will help them understand our country and state and also help them for preparation for various competitive examinations. After completing the course, the students will be adequately prepared for professional careers in geography and allied disciplines like GIS and Remote Sensing. The syllabus tries to give equal importance to the two main branches of Geography: Physical and Human. The principal goal of the syllabus is to enable the students to acquire adequate geographical knowledge to secure jobs at the end of the undergraduate programme.

2. Programme Outcomes (POs)

After completion of this programme students will

1. Understand the Basics of Geography, Fundamentals of the Earth.
2. Able to draw map projections and represent geographical data through various techniques.
3. Well aware about Physical and Human aspects of the Earth.
4. Understand population dynamics, population theories and the population composition of India and the world.
5. Able to use various cartographic techniques on given data.

Distribution: B.Sc. Geography including Minor and OE and other courses.

	Type of Courses	III Yr	IV Yrs (Honours)	IV Yrs Research
Major Marathi	Discipline-Specific Courses (DSC)	46	74	66
	Discipline Specific Elective (DSE)	08	16	16
	Skill Enhancement Courses (SEC)	06	06	06
	Vocational Skill Courses (VSC)	08	08	08
	On-Job Training (OJT)	04	08	04
	Field Project (FP)	04	04	04
	Community Engagement and Service (CEP)	02	02	02
	Research project	00	00	12
	Research Methodology	00	04	04
	Indian Knowledge System	02	02	02
	Total (I, II and III Year)	80	124	124
Minor	Minor	20	20	20
Other Courses	Open Elective (OE)/ Multidisciplinary Courses	12	12	12
	Co-Curricular Courses	08	08	08
	Ability Enhancement Courses	08	08	08
	Value Education Courses	04	04	04
	Total	132	176	176

Programme Framework (Courses and Credits): B.Sc. Geography (Minor)

Sr. No.	Year	Semester	Level	Course Type	Course Code	Title	Credits
1.	I	I	4.5	MNR-1	BS-GO101T/P	Basics of Geography	03
2.	I	II	4.5	MNR-2	BS-GO201 T/P	Fundamentals of the Earth	03
3.	II	III	5.0	MNR-3	BS-GO301 T/P	Physical Geography	03
4.	II	IV	5.0	MNR-4	BS-GO401 T/P	Human Geography	03
5.	III	V	5.5	MNR-5	BS-GO501 T/P	Surveying	04
6.	III	VI	5.5	MNR-6	BS-GO601 T/P	GIS and Remote Sensing	04
							20

New Arts, Commerce and Science College, Ahmednagar
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Syllabus
B.Sc. Geography (Minor)

Title of the Course: Physical Geography								
Year: II				Semester: III				
Course Type	Course Code	Credit Distribution		Credits	Allotted Hours	Allotted Marks		
		Theory	Practical			CIE	ESE	Total
MNR-1	BS-GO301 T/P	02	01	03	60	30	70	100

Learning Objectives:

1. To well aware about the basic concepts of Physical geography.
2. To recognize relationship between pressure belts and wind system.
3. To understand the relationship between the lithosphere, atmosphere, biosphere and hydrosphere.
4. To understand concepts related to hydrosphere.
5. To make student able to order the streams and calculate bifurcation ratio.
6. To analyse drainage basin relief.
7. To draw climatic diagrams using climatic data.

Course Outcomes (Cos)

After Completion of this course students will

1. Well aware about the basic concepts of Physical geography.
2. Recognize relationship between pressure belts and wind system.
3. Understand the relationship between the lithosphere, atmosphere, biosphere and hydrosphere.
4. Able to understand concepts related to hydrosphere.
5. Able to order the streams and calculate bifurcation ratio.
6. Able to analyse drainage basin relief.
7. Able to draw climatic diagrams using climatic data.

Detailed Syllabus:

Unit I: Introduction to Physical Geography

(08)

- a. Definitions of Physical Geography
- b. Nature and scope of Physical Geography
- c. Branches of Physical Geography

d. Earth system - Lithosphere, Atmosphere, Hydrosphere and Biosphere

Unit II: Lithosphere (08)

a. Interior of the Earth

i. Problems, Internal and External Sources

ii. Structure and Composition of Interior of the Earth

b. Wegener's Continental Drift Theory

c. Theory of Plate Tectonics

Unit III: Atmosphere (08)

a. Structure of the atmosphere

b. Distribution of Temperature

c. Heat Budget of the Earth

d. Pressure belts and wind system

e. Forms and types of Precipitation

Unit IV: Hydrosphere (06)

a. Hydrological cycle

b. General structure of ocean floor

c. Waves and Tides

Unit V: Drainage Network (02)

a. Stream ordering and Bifurcation ratio by Strahler's method

Unit VI: Drainage Basin Relief Analysis (04)

a. Absolute relief map

b. Cross Profiles

i. Drawing and description of Cross profile of any region from Toposheet

ii. Drawing and description of longitudinal profile of a Road or a River

Unit VII: Climatic Element Diagrams (02)

a. Climograph

b. Water Budget

Unit VIII: Field Visit (02)

a. One-day field Excursion for orientation of toposheets, observation and Identification of Geographical Features and Preparation of a Brief Report

Suggested Readings/Material:

1. Clyton K., (1986): Earth Crust, Adus Book, London.

2. Davis W. M., (1909): Geographical Essay, Ginnia Co.

3. Dayal P., (1996): Text Book of Geomorphology, Shukla Book Depot, Patna.

4. Kale V.S. and Gupta A., (2001): Elements of Geomorphology, Oxford Univ. Press.

5. Kale V.S. and Gupta A., (2015): Introduction of Geomorphology, University Press, PVT Kolkata.
6. Monkhouse, (1951): Principle of Physical Geography, McGraw Hill Pub – New York.
7. More, Pagar & Thorat (2014): Elements of Climatology & Oceanography, (Marathi), Atharv Publication, Pune
8. Pitty A. F., (1974): Introduction to Geomorphology, Methuen London.
9. S Mukherjee (1996): Understanding Physical Geography Through Diagrams, Orient Blackswan (Pvt) Ltd
10. Singh Savindra, (2000): Physical Geography, Prayag Pustak Bhavan, 20-A, University Road, Allahabad – 211002.
11. Steers J. A., (1964): The Unstable Earth Some Recent Views in Geography, Kalyani Publishers, New Delhi.
12. Swaroop Shanti, (2006): Physical Geography, King Books, Nai Sarak, Delhi – 110006.
13. Wooldridge S. W. and Morgan R. S., (1959): The Physical Basis of Geography and Outline of Geomorphology, Longman Green and Co. London.
14. मोरे, पगार आणि थोरात (२०१९): प्राकृतिक भूगोल, निराली प्रकाशन, पुणे.
15. चव्हाण, साळुंके, नजन, सोनवणे आणि मंडलिक (२०१९): प्राकृतिक व मानवी भूगोल, प्रशांत प्रकाशन, जळगाव.
16. AsisSarkar (2015): Practical Geography, A Systematic Approach, Orient Black Swan
17. Carter, H. (1977): The study of Urban Geography, Edward Arnold, London.
18. Hans, R. (1978): Fundamentals of Demography, Surjeet, Delhi.
19. Hudson F.S. (1976): Geography of Settlements, Estover, Macdonald& Evans, England.
20. Liendsor, J.M. (1997): Techniques in Human Geography, Routledge.
21. Lloyd, P. and Dicken, B. (1972): Location in Space - A theoretical approach to economic geography, Harper and Row, New York.
22. Michael, E. and Hurse, E.(1974): Transportation Geography, McGraw-Hill, New York.
23. Pollard, A.H. and FarhatYusu, (1974): Demographic Techniques, Rushcutters Bay, N.S.W., Pergamon Press, Australia.

24. Singh, J. and Dhillon, (1984): Agricultural Geography, Tata McGraw-Hill Publishing Company Limited, New Delhi.
25. Yeats, M.H. (1974): An Introduction to Quantitative Analysis in Human Geography, McGraw-Hill, New York.

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Syllabus
B.Sc. Geography (Minor)

Title of the Course: Human Geography								
Year: II				Semester: IV				
Course Type	Course Code	Credit Distribution		Credits	Allotted Hours	Allotted Marks		
		Theory	Practical			CIE	ESE	Total
MNR-2	BS-GO401 T/P	02	01	03	60	30	70	100

Learning Objectives:

1. To make students well aware about the basic concepts of human geography.
2. To understand the Demographic Transition Theory and basic concepts related to population with special reference to India.
3. To acquaint the knowledge of types and patterns of rural settlement.
4. To recognize the concept of urbanization with special reference to Maharashtra and India.
5. To understand the types and factors affecting on agriculture and recognize the problems of Indian agriculture.
6. To Make students able to calculate population indices.
7. To Make students able to use methods on urban data.
8. To Make students able to use crop combination, diversification methods on given data.

Course Outcomes (Cos)

After Completion of this course students will

1. Well aware about the basic concepts of human geography.
2. Understand the Demographic Transition Theory and basic concepts related to population with special reference to India.
3. Acquaint the knowledge of types and patterns of rural settlement.
4. Recognize the concept of urbanization with special reference to Maharashtra and India.
5. Understand the types and factors affecting on agriculture and recognize the problems of Indian agriculture.
6. Able to calculate population indices.

7. Able to use methods on urban data

8. Able to use crop combination, diversification methods on given data.

Detailed Syllabus:

Unit I: Introduction to Human Geography (08)

- a. Definitions of Human Geography
- b. Nature and scope of Human Geography
- c. Branches of Human Geography
- d. Importance of Studying Human Geography

Unit II: Population (08)

- a. Factors affecting on distribution and density of population
- b. Concepts of Birth rate and Death rate
- c. Theory of demographic transition
- d. Composition of Indian population - Age, Gender and literacy

Unit III: Settlements (07)

- a. Types and patterns of rural Settlements
- b. Concept of Urbanization
- c. Urbanization in India and Maharashtra

Unit IV: Agriculture (07)

- a. Types of Agriculture
- b. Factors affecting on Agriculture activity
- c. Problems of Indian agriculture

Unit V: Population Indices (07)

- a. Age-sex pyramid
- b. Infant mortality rate
- b. Dependency ratio
- c. Population growth rate

Unit VI: Methods for calculation Urban data (07)

- a. Rank size rule
- b. Gravity Model

Unit VII: Crop Combination, Diversification and Agricultural Efficiency (07)

- a. Weaver's method
- b. Jasbir Singh Method
- c. Bhatia's method

Suggested Readings/Material:

1. Bhende & Kanitkar (2011): Principles of Population studies, Himalaya Publishing House.
2. Chandana R.C. (1988): Geography of Population, Kalyani Pub. Ludhiana.
3. Chandna, R.C. (2010): Population Geography, Kalyani Publisher.
4. Daniel, P.A. and Hopkinson, M.F. (1989): The Geography of Settlement, Oliver & Boyd, London.
5. Ghosh B.N. (1985): Fundamentals of Population Geography, Sterling Publishers.
6. Hassan Mohammad, (2005): Population Geography, Rawat Publication.
7. Hassan, M.I. (2005): Population Geography, Rawat Publications, Jaipur.
8. Hussain M. (2018): Human Geography, Rawat Publication.
9. Johnston R; Gregory D, Pratt G. et al. (2008): The Dictionary of Human Geography, Blackwell Publication.
10. Jordan-Bychkov et al. (2006): The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.
11. Jyotiram More and Musmade Arjun, (2015): Regional Geography of India. Diamond Publication Pune.
12. Kaushik, S.D. (2010): Manavi Bhugol, Rastogi Publication, Meerut.
13. Maurya, S.D. (2012): Manavi Bhugol, Sharda Pustak Bhawan. Allahabad.
14. Mishra & Puri (2004): Indian Economy, Himalaya Publishing House.
15. Money D.C. (1968): Introduction to Human Geography, HarperCollins Distribution Services.
16. Musmade Arjun, Sonawane Amit and Jyotiram More, (2015): Population & Settlement Geography, Diamond Publication Pune.
17. Perillouav (1986): Human Geography.
18. Perpillou A.V. (1986): Human Geography, Longman, London.
19. Robinson H. (1978): Human Geography, Macdonald & Evans ltd.
20. S. Mukherjee (1996): Understanding Physical Geography through Diagrams, Orient Black swan (Pvt) Ltd.
21. Sawant S.B. and Athavale A. S. (1994): Population Geography, Mehta publishing house, Pune.
22. Singh, Gopal (1999): Mapwork & Practical Geography.
23. Singh, R.Y. (1998): Geography of Settlement.
24. Sudeepta Adhikari (2016): Orient Black swan PVT, New Delhi.
25. Sumitra Ghosh (2015): Introduction of Settlement Geography. Orient Black swan PVT Kolkata.

26. सवदी आणि कोळेकर (२०१९): मानवी भूगोल, निराली प्रकाशन, पुणे.
27. चव्हाण, साळुंके, नजन, सोनवणे आणि मंडलिक (२०१९): प्राकृतिक व मानवी भूगोल, प्रशांत प्रकाशन, जळगाव.
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22. Michael, E. and Hurse, E.(1974): Transportation Geography, McGraw-Hill, New York.
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24. Singh, J. and Dhillon, (1984): Agricultural Geography, Tata McGraw-Hill Publishing Company Limited, New Delhi.
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