



Deccan Education Society's

Fergusson College (Autonomous) Pune

**Learning Outcomes-Based
Curriculum**

for 3 years

B.A

Programme as

per guidelines

of

NEP-2020

for

S. Y. B. A.

(Geography General)

With effect from Academic Year

2024-2025

Program Specific Outcomes (PSOs) of Department of Geography

(As per the revised curriculum under NEP2020)

PSO1	Academic competence: i) Demonstrate in-depth knowledge and understanding about the fundamental concepts, principles, and theories in various fields of Geography.
PSO2	Personal and Professional Competence: i) Recognizes and understands the various processes in branches of Physical and Human Geography.
PSO3	ii) Evaluate different theories in Physical and Human Geography with various examples.
PSO4	Research Competence: i) Apply new techniques in learning and evaluation such as computer application in presentations and in studies.
PSO5	ii) Develops various skills relates to Practical Geography like map making & reading, diagrams and Model making, etc.
PSO6	iii) Solve local human and physical problems with application of their geographical knowledge and understanding.
PSO7	Environment and Sustainability: i) Understand the impact of the natural and human activities on environment and demonstrate the knowledge and need for sustainable development.
PSO8	Entrepreneurial and Social competence: i) Demonstrates true values of leadership, co-operation, hard work, teamwork, etc. during the field works, surveys and field visits.

Program Structure

Department of Geography

B.A. Geography General

Semester	Paper Code	Paper Title	Credits
III	GEO-211	Fundamentals of Climatology	4
	GEO-220	Contemporary Geopolitics	2
IV	GEO-261	Fundamentals of Oceanography	4
	GEO-270	Geography of India	2

Teaching and Evaluation (Only for FORMAL education courses)

Course Credits	No. of Hours per Semester Theory/Practical	No. of Hours per Week Theory / Practical	Maximum Marks	CE 40 %	ESE 60%
2	30	2	50	20	30
4	60	4	100	40	60

Eligibility: As per the rules and regulations of Savitribai Phule Pune University (SPPU)

S. Y.B.A. Semester III		
Title of the Course and Course Code	GEO-211 (Minor): Fundamentals of Climatology	Number of Credits : 04
Course Outcomes (COs) On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Define the nature & scope of Climatology & meteorology.	1
CO2	Understand & explains the distribution of humidity & precipitation.	2, 3
CO3	Identify and distinguish the various types of air masses.	1, 4
CO4	Arrange and explain the stages of cyclone development.	4
CO5	Analyze and distinguish different problems of Indian monsoon & agriculture.	2, 4

Sr. No.	Unit	Subunits	No. of Lectures
1	Introduction to Climatology	<ol style="list-style-type: none"> 1. Definition, meaning, nature and scope of Climatology 2. Climatology and Meteorology 3. Weather and climate. 4. Composition and structure of the atmosphere 5. Heat budget of the Earth. 6. Distribution of temperature and factors affecting them 7. Temperature Inversion 	16
2	Mechanisms in Atmosphere	<ol style="list-style-type: none"> 1. Atmospheric pressure and distribution 2. Type of winds 3. Humidity 4. Precipitation 	16
3	Atmospheric Circulations	<ol style="list-style-type: none"> 1. Air masses and Fronts 2. Cyclones- tropical and temperate Anticyclones 	14
4	Applied Climatology	<ol style="list-style-type: none"> 1. Climate Change 2. Weather Forecasting 3. Variability of Monsoon & Agriculture 4. Cyclone: Warning, Mitigation & Management in India Weather Maps: Interpretation 	14

Fundamentals of Climatology -Reading List

1. Barry, Roger & Carleton, Andrew: Synoptic and Dynamic Climatology, Routledge, New York and London, 2001.
2. Critchfield, Howard: General Climatology, Prentice-Hall India, New Delh;1987.
3. Lutgens, Frederick & Others: The Atmosphere: An Introduction to Meteorology, Pearson, 2016
4. Lal, D. S.: Climatology, Sharda Pustak Bhawan, 2003.
5. Oliver, John & Hindore, John: Climatology: An Atmospheric Science, Prentice Hall; 2002.
6. Sarkar, Ashis: Practical Geography: A systematic Approach, 3rd Edition, Orient Black Swan, New Delhi, 2015.
7. Thompson, Russel & Perry, Allen: Applied Climatology, Psychology Press; 1997.
8. Trewartha G. T. and Horn, Lyle: An Introduction to Climate, McGraw-Hill; 1980.
9. डॉ. कार्लेकर, श्रीकांत: हवामानशास्त्र आणि सागरविज्ञान, डायमंड पब्लिकेशन्स, पुणे.
10. डॉ. कार्लेकर, श्रीकांत आणि भागवत अ. वि : प्राकृतिक भूगोलाची मूलतत्त्वे, डायमंड पब्लिकेशन्स, पुणे.

S. Y.B.A. Semester III

Title of the Course and Course Code	GEO-220 (GE/OE): Contemporary Geopolitics	Number of Credits : 02
Course Outcomes (COs) On completion of the course, the students will be able to:		Bloom's Cognitive level
CO1	Define the nature & scope of Geopolitics.	1
CO2	Understand & explains the concepts in Geopolitics.	2, 3
CO3	Identify and distinguish the various theories in geopolitics.	1, 4
CO4	Arrange and explain the strategic importance of Indian ocean.	4
CO5	Analyse and distinguish different regional organizations in the world.	2, 4

Sr. No.	Unit	Subunits	No. of Lectures
1	Introduction to Geopolitics	<ol style="list-style-type: none"> 1. Definition, Nature & Scope 2. Development of Geopolitics 3. Concepts in Geopolitics 	6
2	Strategic Theories in Geopolitics	<ol style="list-style-type: none"> 1. A. T. Mahan's Theory 2. Heartland Theory by Mackinder 3. Rimland Theory by Spykman 	12
3	Contemporary Geopolitics	<ol style="list-style-type: none"> 1. Regional Organizations <ol style="list-style-type: none"> i. NATO ii. QUAD 2. International Relations <ol style="list-style-type: none"> i. Strategic Importance of Indian Ocean ii. Emerging Super Powers iii. Geopolitics of Contemporary Wars 	12

Contemporary Geopolitics: Reading List.

1. Adhikari, Sudepta: Political Geography, Rawat Publications; 1st Edition,1997.
2. John Agnew and Luca Mascara: Making Political Geography, Rawat Publications; 2014
3. Dittmer Jason & Jo Sharp Editor: Geopolitics : An Introductory Reader, Taylor & Francis Ltd., London;2014.
4. Dodds, Klaus :Geopolitics -A Very Short Introduction, Oxford University Press,UK.;2015.
5. Dwivedi, R. L.: Fundamentals of Political Geography, Chaitanya Publishing House, Allahabad; 2004.
6. Dr. Colin Flint & Peter J. Taylor: Geopolitics, An Introductory Political Geography: World-Economy, Nation-State and Locality, Taylor & Francis Ltd., London;2012.
7. Taylor, Peter and Flint, Colin: Political Geography, 4th Edition, Pearson Education;2000.
8. Gallaher, Carlyn & Others: Key Concepts in Political Geography, SAGE Publications Ltd.
9. राजकीय भूगोल: प्रा.अ.वि.भागवत, नरेंद्र प्रकाशन,पुणे; १९७८.
10. भूराजनीती : प्रा.अ.वि.भागवत, मुरलीधर पब्लिकेशन्स,पुणे; १९९८.
11. भूराजनीती,भुयुद्धनीती व लष्करी भूगोल: प्रा.बी.डी.तोडकर. प्रतिमा पब्लिकेशन्स, अहमदनगर; २००४.

S. Y.B.A. Semester IV

Title of the Course and Course Code	GEO-261 (Minor): Fundamentals of Oceanography	Number of Credits : 04
Course Outcomes (COs) On completion of the course, the students will be able to:		Bloom's Cognitive level
C01	Describe the nature & scope of Oceanography.	1
C02	Compare & Contrast the submarine relief features of the oceans.	2
C03	Identify and distinguish the various factors affecting ocean water properties.	1, 4
C04	Arrange and explain the ocean relief features.	4
C05	Analyse and distinguish various types of coral reefs.	2, 4

Sr. No.	Unit	Subunits	No. of Lectures
1	Introduction to Oceanography & Submarine Relief	<ol style="list-style-type: none"> 1. Definition, nature and scope. 2. Historical development and significance of Oceanography 3. Development of Oceanography in India 4. Hypsometric Curve & Submarine Profile 5. Reliefs of Pacific, Atlantic and Indian Oceans 	14
2	Properties of Ocean Water	Meaning, factors affecting and distribution of <ol style="list-style-type: none"> 1. Temperature 2. Density 3. Salinity 	8
3	Movements in Ocean waters	<ol style="list-style-type: none"> 1. Waves- Characteristics and types 2. Tide and its types 3. Ocean Currents-Types and effects 4. Ocean currents of Pacific, Atlantic and Indian Oceans 	14
4	Coral reefs & Ocean Deposits	<ol style="list-style-type: none"> 1. Factors affecting on Coral Reefs 2. Types of Coral Reefs Meaning & Classification of Marine Deposits	12
5	Applied Oceanography	<ol style="list-style-type: none"> 1. Sea level changes 2. Coastal Regulation Zone (CRZ) 3. Marine Pollution 4. Marine Resources: Status & Prospectus 	12

Fundamentals of Oceanography: Reading List

1. Anikouchine, William & Sternberg, Richard: The World Ocean: An Introduction to Oceanography Prentice-Hall, 1981.
2. Garrison, Tom: Oceanography: An Invitation to Marine Science, 9th Edition, Cengage Learning-NGS. 2010.
3. Pinet, Paul: Invitation to Oceanography Paperback, Jones & Bartlett Learning, 2012.
4. Kershaw, Steve & Cundy, Andy: Oceanography: An Earth Science Perspective, Psychology Press, 2000.
5. Stowe, Keith: Essentials of Ocean Science, 1st Ed., Wiley & Sons.1987.
6. Sverdrup, Keith & Others: An Introduction to the World's Oceans, 10thEdn. MacGraw-Hill. 1984.
6. Trujillo, Alan & Thruman, Harold: Essentials of Oceanography, Pearsons, 12thEdn. 2016.
7. डॉ.कार्लेकर,श्रीकांत: हवामानशास्त्र आणि सागरविज्ञान, डायमंड पब्लिकेशन्स, पुणे.
8. डॉ.कार्लेकर,श्रीकांत आणि भागवत अ. वि : प्राकृतिक भूगोलाची मूलतत्त्वे, डायमंड पब्लिकेशन्स, पुणे.

S. Y.B.A. Semester IV

Title of the Course and Course Code	GEO-270 (GE/OE): Geography of India	Number of Credits : 02
Course Outcomes (COs) On completion of the course, the students will be able to:		Bloom's Cognitive level
C01	Describe the physical setting of India.	1
C02	Understand & explains the climate & drainage in India.	2, 3
C03	Identify and distinguish the various types of soils & vegetation in India.	1, 4
C04	Arrange and explain the population growth in India.	4
C05	Analyse and distinguish different agriculture & Industry in India.	2, 4

Sr. No.	Unit	Subunits	No. of Lectures
1	Physical Setting	a. Location & Extent b. States & UTs c. International boundaries of India	8
2	Physical Aspects	a. Physiography of India b. Climate & Drainage c. Soils & Vegetation in India	12
3	Human Aspects	a. Population Growth & Distribution in India b. Transport & Communication c. Agriculture & Industry in India	12

Geography of Maharashtra: Readings

1. Aher A. B. & Others: Regional Geography of India, Prashant Publication, Jalgaon. 2015
2. Deshpande C. D.: India- A Regional Interpretation, Northern Book Centre, New Delhi. 1992
3. Farmer, B.H.: An Introduction to South Asia, Methuen, London. 1983
4. Mitra A.: Levels of Regional Development in India, Census of India, Vol. I, Part I-A (i) and (ii), New Delhi. 1967
5. Shafi, M.: Geography of South Asia, McMillan & Co., Calcutta. 2000
6. Govt. of India: The Gazetteer of India, Vol. I & III, Publication Division, New Delhi. 1965
7. Govt. of India: National Atlas of India, NATMO Publication, Calcutta.
8. Govt. of India: The Census of India, Publication Division, New Delhi. 2011