

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

CHOICE BASED CREDIT SYSTEM

Syllabus For

B.Sc. Part - I

Geography

SEMESTER I AND II

(Syllabus to be implemented from June, 2018 onwards.)

Bachelor of Science Part – I
GEOGRAPHY

1. TITLE: Physical Geography and Human Geography

- 1) Paper – I (Semester – I) i) DSC 19 A - Physical Geography Paper
ii) DSC 20 A - Physical Geography Paper
2) Paper – II (Semester – II) i) DSC 20 B - Human Geography
ii) DSC 20 B - Human Geography

Optional Subjects under the Faculty of Science.

2. YEAR OF IMPLEMENTATION:

Revised Syllabus will be implemented from June, 2017 onwards.

3. PREAMBLE:

The Geography students of B. Sc. Part-I can better understand all latest concepts in Physical Geography and Human Geography in brief but in adequate manner.

4. GENERAL OBJECTIVES OF THE PAPER:

The objective of this course is to introduce the latest concepts in Physical Geography and Human Geography, Specifically in Atmosphere, Lithosphere, Fluvial Cycle, Hydrosphere, Human races, Population growth, Characteristics of Population and Settlements.

5. DURATION:

The course shall be a full time course.

6. PATTERN:

Pattern of Examination will be Semester for Theory.

7. ELIGIBILITY FOR ADMISSION:

As per eligibility criteria prescribed for each course and the merit list in qualifying examination.

8. MEDIUM OF INSTRUCTION:

The medium of instruction shall be in English.

9. STRUCTURE OF COURSE:

FIRST YEAR (No. of Papers- I & II)

Sr. No.	Subject or Paper	Marks
1	Physical Geography	100
2	Human Geography	100
Practical (Pattern of Examination will be ANNUAL.)		50

10. SCHEME OF TEACHING:

The scheme of teaching and examination should be given as applicable to the course / paper concerned.

Sr. No.	Subject or Paper	Teaching Scheme (Credits / Week)			
		Credits	Theory	Practical	Total
1	Physical Geography	04	04	--	04
2	Human Geography	04	04	--	04
Practical (Pattern of Examination will be ANNUAL.)		02	--	02	02

11. SCHEME OF EXAMINATION:

Question Paper will be set in the view of the / in accordance with the entire Syllabus and preferably covering each unit of syllabi of each semester.

12. STANDARD OF PASSING:

As per Prescribed rules and regulation for each degree / programme.

B. Sc. Part – I Semester I
(w.e.f. June, 2017)
DSC- 19 A : Physical Geography- I
Marks :50 Credits: 02

Title of the Unit	No. of Lecture	No. of Credits
Unit I Introduction to Physical Geography and Atmosphere	15	(1)

- 1.1 Definition and Scope of Physical Geography
- 1.2 Branches of Physical Geography
- 1.3 Recent Trends in Physical Geography
- 1.4 Importance of Physical Geography
- 1.5 Composition and Structure of Atmosphere. Weather and Climate

Unit II Insolation , Temperature , Atmospheric Pressure and Indian Monsoon	15	(1)
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- 2.1 Insolation: Definition, Factors affecting on distribution of Insolation, World Distribution of Insolation, Heat Balance of the Earth.
- 2.2 Temperature: Factors Controlling Temperature, Distribution of Temperature – Horizontal and Vertical.
- 2.3 Pressure: Definition, Vertical and Horizontal Distribution, Pressure Belts, Shifting of Pressure Belts.
- 2.4 Indian Monsoon: Indian Monsoon and – Tibet Plateau, Jet Stream and El-Nino.
- 2.5 Seasons in India: Summer, Rainy and winter.

DSC- 20 A: Physical Geography- II
Marks : 50 Credits: 02

Unit I Lithosphere and Earth's Movements	15	(1)
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- 1.1 Interior of the Earth: Structure of the Earth's interior, Density and Temperature in the interior of the Earth.
- 1.2 Rocks: Definition, Classification of Rocks, Igneous rock, Sedimentary rocks and Metamorphic Rocks (Characteristics, Classification and Landforms)
- 1.3 Endogenetic forces, diastrophic forces and movements: Folds and Faults
- 1.4 Wegener's Theory of Continental Drift.

Unit II Fluvial Geomorphology and Hydrosphere 15 (1)

2.1 Cycle of Erosion - W. M. Davis.

2.2 Running Water or River: Major Landforms formed by Erosion, Transportation & Deposition Processes of River

2.3 Temperature of Ocean Water: Factors Affecting on Horizontal Distribution of Temperature of Ocean Water, Vertical Distribution of Temperature Ocean Water

2.4 Salinity of Ocean Water: Affecting Factors on salinity of ocean water, Distribution of salinity – Horizontal and Regional.

Reference Books

- 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 University Press, Kolkata.
- 5) Kale V.S. and Gupta A., (2001), Elements of Geomorphology, Oxford Univ. Press.
- Monkhuse, (1951), Principle of Physical Geography, Mc Graw Hill Pub – NewYork.
- 6) Pitty A. F., (1974), Introduction to Geomorphology, Methuen London.
- 7) Singh Savindra, (2000), Physical Geography, Prayag Pustak Bhavan, 20-A, University Road, Allahabad – 211002.
- 8) Steers J. A., (1964), The Unstable Earth Some Recent Views in Geography, Kalyani Publishers, New Delhi.
- 9) Swaroop Shanti, (2006), Physical Geography, King Books, Nai Sarak, Delhi – 110006.
- 10) Wooldridge S. W. and Morgan R. S., (1959), The Physical Basis of Geography and Outline of Geomorphology, Longman Green and Co. London.

B. Sc. Part – I Semester - II (w.e.f. June, 2017)

DSC-19B : Human Geography-I

Marks :50 Credits: 02

Title of the Unit	No. of Lecture	No. of Credits
Unit I Human Geography and Human Race	15	(1)
1.1 Definition and Scope of Human Geography		
1.2 Branches of Human Geography		
1.3 Recent Trends in Human Geography		
1.4 Importance of Human Geography		
1.5 Human Races – Major Racial Groups and Classification		
1.6 Religious and Ethnic Groups in the World.		
Unit II Population	15	(1)
2.1 World Growth of Population.		
2.2 Factors Affecting the Distribution of the World Population.		
2.3 Distribution of the World Population.		
2.4 Theory of Population Growth –Malthus		
2.5 Demographic Transition Theory.		

DSC-20B : Human Geography-II

Marks : 50 Credits: 02

Unit I Composition of Population and Population Migration	15	(1)
1.1 Age Composition: Factors Affecting on Age Composition, Age Composition in India.		
1.2 Sex Ratio: Factors Affecting on Sex Composition, Sex Composition in India		
1.3 Human Migration: Definition		
1.4 Types of Migration		
1.5 Causes of Migration		
1.6 Consequences of Migration		
Unit II Settlements and Location Theories	15	(1)
2.1 Types and Pattern of Settlements.		
2.2 Site and Situation of Rural Settlements.		
2.3 Urbanization and World Trend of Urbanization.		
2.4 Christaller's Central Place Theory.		
2.5 Perroux's Growth Pole Theory		

Reference Books

1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
2. Hassan, M.I. (2005) Population Geography, Rawat Publications, Jaipur
3. Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd, London.
4. Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication.
5. Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.
6. Kaushik, S.D. (2010) Manav Bhugol, Rastogi Publication, Meerut.
7. Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad.
8. Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur
9. Beaujeu Gamier : Geography of Population, Longman, London-1978
10. Clarke J.I. : Population Geography, Pergamon Press Oxford – 1972
11. Chandana R.C. : Geography of Population, Kalyani Pub. Ludhiana 1988
12. Hagget Peter : Human Geography
13. Ghosh B.N. : Fundamentals of Population Geography
14. Hussin M. : Human Geography 1994
15. Money D.S. : Human Geography
16. Perpillou A.V. : Human Geography, Longman, London- 1986
17. Robinson H. : Human Geography, 1976
18. Mishra & Puri : Indian Economy 2004
19. India- 2008 : Govt. of India
20. Hassan Mohammed I. : Population Geography, 2005
21. Bhende Asha & Kanitkar Tara : Principles of Population studies
22. Perillou A.V. : Human Geography, 1986
23. Singh, R.Y. : Geography of Settlement, 1998
24. Singh, Gopal : Mapwork & Practical Geography, 1999
25. Sawant S.B. & Athavale A.S. Population Geography, Mehata publishing house, Pune.
26. सवदी.ए.बी. आणि कोळेकर .पी.एस.व लोक संख्या भूगोल निराली प्रकाशन पुणे.
27. ताचोळे द.धो.— लोकसंख्याशास्त्र.
28. पवार,अडसुळ, फुले ,पाटील— मानवी भूगोल सप्रेम प्रकाशन कोल्हापूर.
29. डॉ प्रकाश सावंत — भूरूपशास्त्र व हवामानशास्त्र, फडके प्रकाशन

B. Sc. Part – I Practical-I (Based on paper I & II)
(w.e.f. June, 2017)
Marks : 50 (Credits: 02)

General Cartography (Practical)

Title of the Unit	No. of Credits
Unit I Map	(0.25)
1.1 Map: Definition, Elements and Types , 1.2 Maps and Globe – Similarities and Differences, 1.3 Significance and uses of Maps and Globes.	
Unit II Map Scale	(0.50)
2.1 Meaning and Definition, 2.1 Methods of Representation of scale i) Verbal ii) Numerical iii) Graphical 2.3 Scale Conversion i) Verbal to Numerical ii) Numerical to Verbal 2.4 Construction of Graphical Scale i) Simple (Plane Scale) ii) Comparative Scale iii) Time and Distance Scale iv) Diagonal Scale	
Unit III Map Projection	(0.50)
3.1 Definition and Classification of Map Projection i) Based on the methods of Construction – Perspective and Non-perspective ii) Based on Developable Surface used - Conical, Cylindrical, Zenithal, Conventional. iii) Based on Position of Tangent Surfaces – Polar, Equatorial (normal), Oblique. iv) Based on Position of view point or light –	

Gnomonic, Stereographic, Orthographic

v) Based on Preserved qualities -

- i) Equal area projection (Homolographic)
- ii) Orthographic Projection
- iii) Azimuthal Projection (True Bearing Projection)

3.2 Graphical Construction of the following Projections:

- i) Zenithal Polar Gnomonic Projection
- ii) Zenithal polar Equidistant Projection
- iii) Zenithal Polar Equal Area Projection
- iv) Cylindrical Equal –Area Projection
- v) Simple Conical Projection with one standard Parallel
- vi) Mercator's Projection
- vii) Bonne's Projection.

Unit IV Representation of Statistical Data

(0.50)

4.1 Graphs and Diagrams

i) One Dimensional Diagrams:

- a) Band Graph
- b) Climograph
- c) Hythergraph

4.2 Two Dimensional Diagrams:

- a) Proportional Circle
- b) Proportional Spheres

4.3 Three Dimensional Diagram: Cube Diagram

4.4 Distributional Diagram

- a) Choropleth Map
- b) Isopleths Map

Unit V Remote Sensing

(0.25)

5.1 Definition, Concept and history of Remote Sensing

5.2 Elements of Remote Sensing: EMR, Sensors and Platforms.

5.3 Application of Remote Sensing in Geography

5.4 Aerial photographs and Satellite imagery: Definition, types and difference between them.

5.5 Identification of Physical and cultural features from Aerial Photographs or Satellite Imagery with the help of stereoscope.

5.6 Determination of Photo Scale.

Reference Books

1. Buoygoot, J. (1964), An Introduction to Mapwork and Practical Geography. University Tutorial, London.
2. Monkhouse, F. J. and Wilkinson, H. R. (1971), Maps and Diagrams. Methuen, London.
3. Raisz, E. (1962), Principles of Cartography, McGraw Hill Book Co., Inc, New York.
4. Robinson, A.H. and Shale, R. D. (1969), Elements of Cartography. John Wiley and Sons, Inc, New York.
5. Singh, L.R. and Singh, R., (1973), Mapwork and Practical Geography. Allahabad.
6. Curran, P. (1989), Principles of Remote Sensing, Logman, London.
7. Lo C. P. and Young A. K. W., (2011), Concepts and Techniques of Geographic Information Systems, PHI Learning Private Lim., New Delhi – 110001.
8. Dickinson, G.C., (1979), Maps and Air Photographs, Arnold Publisher, New Delhi.
9. Mishra, R.P and Ramesh A., (2000), Fundamentals of Cartography. Concept Publ. Co., New Delhi.
10. Burrough, P. A. and McDonell, R., (1998), Principles of Geographical Information Systems, Oxford University Press, Oxford.

NOTE:

- i) The details of field work, seminar, Group Discussion and Oral examination be given wherever necessary.
- ii) General/Specific instructions for Laboratory safety should be given wherever necessary.