



**Rayat Shikshan Sanstha's
KARMAVEER BHAURAO PATIL COLLEGE,
VASHI,**

AUTONOMOUS COLLEGE

Sector-15- A, Vashi, Navi Mumbai -400 703

NAAC Grade "A+" with CGPA 3.53

Revised Syllabus

Program: F. Y. B.A.

Course: Geography

Semester: I and II

(As per NEP-2020 with effect from the academic year 2023-24)

Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College, Vashi
 (Autonomous College)
Department of Geography
FYBA Geography

Course No.	Course Title	Course Type	Course Code	CIE Marks	SEE Marks	Total	Credit Points
Semester I							
1	Fundamentals of Physical Geography	Major	GEO101	40	60	100	4
2	Fundamentals of Physical Geography	Minor	GEO101	40	60	100	4
3	Introduction to Geography	OE	GEO102	40	60	100	4
4	Practical's in Physical Geography-I	VSC	GEO103	-	-	50	2
5	Introduction to GIS and GPS	SEC	GEO104	-	-	50	2
TOTAL CREDIT							16
Semester II							
1	Introduction to Human Geography	Major	GEO151	40	60	100	4
2	Introduction to Human Geography	Minor	GEO151	40	60	100	4
3	Environmental Science	OE	GEO152	40	60	100	4
4	Practicals in Human Geography	VSC	GEO153	-	-	50	2
5	Travel & Tourism Management	SEC	GEO154	20	30	50	2
TOTAL CREDIT							16
GRANT TOTAL OF CREDIT FOR FIRST YEAR							32

Syllabus for Approval

Name & Sign of the BOS Members: _____
: _____
: _____
: _____
: _____
: _____

Date: _____

Preamble of the Syllabus:

Discipline Specific Course (DSC)
Major
FUNDAMENTALS OF PHYSICAL GEOGRAPHY

Course Objective:

1. To introduce the students to the basic concepts in Geomorphology.
2. To acquaint the students with the utility and applications of Geomorphology in different areas and environment.
3. To make the students aware of the need of protection and conservation of different landforms.

Course Outcome:

Modules at a Glance

Unit No.	Unit	Unit Wise Weightage of Marks (in %)
1	Introduction of Physical Geography	15
2	Lithosphere	15
3	Diastrophic Movements	15
4	Rocks, Weathering and Erosion	15

F.Y.B.A. Geography		
FUNDAMENTALS OF PHYSICAL GEOGRAPHY		
(Discipline Specific Course (DSC) (Major + Minor))		
SEMESTER-I	COURSE CODE: GEO101	Credit-04

Units	Learning Point	Lectures
Unit-I Introduction of Physical Geography		
1.1	Meaning, Nature & Scope.	15
1.2	Importance of Physical Geography	
1.3	Earth Measurements, Size and Shape, Radius, Circumference, Latitude and Parallels, Longitudes & Meridians, Concept of Local Time, & Standard Time, Time Zone & International Date Line	
Unit-II Lithosphere		
2.1	Interior of the Earth- Structure and Composition	15
2.2	Origin of Continents and Ocean basins i. Wegener's Continental Drift Theory ii. Theory of Plate Tectonics	
Unit-III Diastrophic Movements		
3.1	Meaning of Folding and Faulting	15
3.2	Volcanism and Earthquake, Causes & Distribution of Earthquakes in India	
Unit-IV Rocks, Weathering and Erosion		
4.1	Rocks – Properties and Classification of rocks on the basis of formation	15
4.2	Meaning & Types of Weathering	
4.3	Agents of Erosion and Deposition (River, Sea waves & Wind)	
4.4	Field Visit and Report	

Reference books:

1. **Conserva H. T.** 2004: Illustrated Dictionary of Physical Geography, Author House, USA.
2. **Christopherson, R.W.** 2000, Geo-systems, Prentice Hall, INC. USA. Hamblin, W.K., 1989. The Earth's Dynamic Systems, Macmillan Publishing Company, New York.
3. **Gabler, R.E., Peterson, J.F. and Trapasso, L.M.**, 2007: Essentials of Physical Geography (8th Edition), Thomson, Brooks/Cole, USA.
4. **Garrette, N.**, 2000: Advance Geography, Oxford University Press.
5. **Goudie, A.**, 1984: The Nature of Environment: An Advanced Physical Geography, Basil Blackwell Publishers, Oxford
6. **Husain, M.**, 2001. Fundamentals of Physical Geography, Rawat Publication, Jaipur.
7. **Kale, V.S. and Gupta, A.**, 2001. Introduction to Geomorphology, Orient Longman, Calcutta.
8. **Monkhouse, F.J.**, 1996. Principles of Physical Geography, Hodder and Stoughton, London.
9. **Robinson, H.**, 1969. Morphology and Landscape, University Tutorial Press Ltd, London.
10. **Siddhartha, K.**, 2001. The Earth's Dynamic Surface, Kisalaya Publications Pvt. Ltd, New Delhi.
11. **Strahler, A.A. and Strahler, A. N.**, 2002. Physical Geography: Science and Systems of the Human Environment, John Wiley & Sons, New York., Allahabad

Generic Elective Course (GE)
INTRODUCTION TO GEOGRAPHY

Course Objective:

1.

Course Outcome:

- A. Identify the major themes and investigative concepts of geographical study.
- B. Demonstrate basic factual knowledge of locational and theoretical concepts.
- C. Explain the interaction between human and physical geography.

Modules at a Glance

Unit No.	Unit	Unit Wise Weightage of Marks (in %)
1	Introduction to Geography	15
2	The Globe	15
3	Geomorphic Processes	15
4	Natural Disasters	15

F.Y.B.A. Geography		
INTRODUCTION TO GEOGRAPHY		
Other Elective Course (OE)		
SEMESTER-I	COURSE CODE: GEO102	Credit-04

Units	Learning Point	Lectures
Unit-I Introduction to Geography		
1.1	Definition and importance of Geography	15
1.2	Nature and scope of Geography	
1.3	Branches of Geography	
1.4	Relationship of Geography with other discipline	
Unit-II The Globe		
2.1	Concept based on rotation of earth	15
2.2	Seasons	
2.3	Concept of longitude, latitude and international date line	
2.4	Time zones	
Unit-III Geomorphic Processes		
3.1	Rocks and their types	15
3.2	Earthquakes: Causes and Distribution	
3.3	Volcanoes : Causes and Distribution	
3.4	Weathering and Erosion	
Unit-IV Disasters Management and Mitigation		
4.1	Earthquakes and Landslides	15
4.2	Flood and Tsunami	
4.3	Forest Fire	

VOCATIONAL SKILL COURSE (VSC) PRACTICALS IN PHYSICAL GEOGRAPHY

Course Outcome:

1. Students will get acquainted with basics of maps.
2. Students will understand map scales and its types.
3. Students will acquire skills of drawing various map projections with their advantages and limitations.
4. The students would develop the skills of representing geographical, meaning thereby spatial and temporal, data.

Modules at a Glance

Unit No.	Unit	Unit Wise Weightage of Marks (in %)
1	Maps	12
2	Map Projections	12
3	Relief representation	06

F.Y.B.A. Geography
PRACTICALS IN PHYSICAL GEOGRAPHY
Vocational Skill Course (VSC)

SEMESTER-I

COURSE CODE: GEO103

Credit-02

Units	Learning Point	Lectures
Unit-I Maps		
1.1	Definition, Elements of maps (scale, direction, map projection, conventional signs and symbols, legend), Types of maps, Uses of maps	12
1.2	Definition, Types- Verbal Scale (VS), Representative Fraction (RF), Graphical Scale	
1.3	Conversion of scale- VS into RF and RF into VS (Minimum 2exampleseach), Exercise on simple graphical scale (Minimum 2exercisess)	
1.4	Reading distances on a map	
Unit-II Map Projections		
2.1	Definition and Classification of Map Projection	12
2.2	Construction and study of the following projections I. Zenithal projections - Zenithal polar gnomonic projection II. Conical projections- Simple conical projection with two Standard parallel III. Cylindrical projections - Cylindrical equal area projection (Note:-construction of above map projections with properties and uses, for relevant group one example from each hemisphere)	
Unit-III Relief representation		
3.1	Methods of Representation of Relief features - Contours diagrams – hills, plateaus, mesa, cliff, V-shaped valley, waterfall, escarpment, spur, U-shaped valley, Hanging Valley, Volcano	06

Reference books:

- Dent B.D., 1999. Cartography: Thematic Map Design, (Vol. 1), McGraw Hill.
- Gupta K.K and Tyagi V.C., 1992. Working with Maps, Survey of India, DST, New Delhi.
- Mishra R.P. and Ramesh A., 1989. Fundamentals of Cartography, Concept Publishing.
- Monkhouse, F.J. and Wilkinson, H.R., 1971. Maps and Diagrams. Methuen and Co. Ltd., London. K.
- Singh, R.L., 2005. Elements of Practical Geography. Kalyani Publishers, New Delhi. India.
- Ramamurthy, K., 1982. Map Interpretation, Rex Printers, Madras.
- Robinson A. ,1953. Elements of Cartography, John Wiley.
- Sharma J. P., 2010.Prayogic Bhugol, Rastogi Publishers.
- Singh R.L. and Singh R.P.B., 1999. Elements of Practical Geography, Kalyani Publishers.
- Singh R.L., 1998. ProyogicBhugolRooprekha, Kalyani Publication.
- Singh, G., 2005. Map work and practical geography. Vikas Publishing House Pvt. Ltd., New Delhi
- Singh, L.R. and Singh, R., 1973. Map work and practical geography, Central Book Allahabad
- Siddhartha, K., 2006. Geography through maps, Kisalaya Publications Pvt. Ltd, Delhi
- Singh, R.L., and Dutt, P.K., 1968. Elements of practical geography, Students' Friends, Allahabad
- Steers, J.A., 1970. An Introduction to Study of Map Projections. University of London Press Ltd., London

**Skill Enhancement Course (SEC)
INTRODUCTION TO GIS AND GPS**

Course Outcome:

On successful completion of this course, the students will be able to -

1. Comprehend knowledge about the concepts in GIS.
2. Articulate the various types of GIS data.
3. Devise GPS ground survey and map

Modules at a Glance

Unit No.	Unit	Unit Wise Weightage of Marks (in %)
1	Introduction to GIS	10
2	Data Types & Models	10
3	Global Positioning System	10

F.Y.B.A. Geography		
INTRODUCTION TO GIS AND GPS		
Skill Enhancement Course (SEC)		
SEMESTER-I	COURSE CODE: GEO104	Credit-02
Units	Name of sub units	No of Lectures
Unit – I Introduction to GIS		
1.1	Definition , Concept and application of GIS	10
1.2	History of GIS	
1.3	Objectives and Components of GIS	
Unit-II Data Types & Models		
2.1	Spatial Data – Concept, Sources; Data Models – Raster & Vector	10
2.2	Non-spatial Data – Concept, Sources; Data Models – Relational, Network, Hierarchical & Object-orientated	
Unit- III Global Positioning System		
3.1	GPS : Concept, Segments, Applications and Types of GPS	10
3.2	Factors Affecting GPS Data - Global Navigation System	
3.3	Ground Survey and Demarcation of Point, Line and Polygon Features with GPS Device – Transfer GPS Data to Computer with Software's like Easy GPS	

Reference Books:

- Burrough, P. A. and McDonnell, R. A. (2000): Principles of Geographical Information Systems, Oxford University Press, New York.
- Chang, K. T. (2008): Introduction to Geographic Information Systems, Avenue of the Americas, McGraw-Hill, New York.
- Debashis, C. and Sahoo, R. N. (2015): Fundamentals of Geographic Information System, Viva Books Private Limited.
- DeMers, M. N. (2008): Fundamentals of Geographic Information Systems, John Wiley and Sons, New Delhi.
- Heywood, I., Cornelius, S. and Carver, S. (2011): An Introduction to Geographical Information Systems, Pearson Education, New Delhi.
- Karlekar, S. (2007): Bhaugolik Mahiti Pranali (GIS), Diamond Publications, Pune.
- Korte, G. B. (2001): The GIS Book, Onward Press, Bangalore.
- Longley, P. A., Goodchild, M. F., Maguire, D. J. and Rhind, D. W. (2002): Geographical Information Systems and Science, John Wiley & Sons, Chichester.
- Lo Albert, C. P., Yeung and Albert K. W. (2002): Concepts and Techniques of Geographical Information Systems, Prentice Hall of India, New Delhi.
- Pandey, J. and Pathak D. (2015): Geographic Information System, TERI Press, The Energy and Resources Institute, New Delhi.

Discipline Specific Course (DSC)
Major
HUMAN GEOGRAPHY

Course Objective:

1. To introduce the broader aspects of the Study of Human Geography
2. To familiarize students with the Qualitative and Quantitative aspects of Human Population

Course Outcome: This course will enable students to

1. Correlate the Earth processes and Human evolution.
2. Understand the consequences of Human interference in natural processes.
3. Estimate the trends, patterns and impacts of World Population Changes
4. Application of settlement patterns in planning
5. Knowledge of Human activities and their effects

Modules at a Glance

Unit No.	Unit	Unit Wise Weightage of Marks (in %)
1	Introduction to Human Geography	12
2	Settlements	12
3	Population	12
4	Cultural Regimes	12
5	Practical Component	12

<p>F.Y.B.A. Geography SEMESTER-II HUMAN GEOGRAPHY (Major) COURSE CODE: GEO151, Credit-04</p>

Units	Name of the sub Topics	No of Lectures
Unit-I Introduction to Human Geography		12
1.1	Meaning, Nature and Scope of Human Geography	
1.2	Branches of Human Geography	
1.3	Man-Environment relationship: Determinism, Possibilism, Probabilism	
Unit- II Settlements		12
2.1	Concept of Rural and Urban Settlements	
2.2	Hierarchy of Settlements	
2.3	Functional Classification of Urban Settlements (Local case study)	
2.4	Sites of Rural Settlements	
Unit- III Population		12
3.1	Factors affecting growth and distribution of population and demographic theory.	
3.2	Age and sex-pyramid, population projection and population potential.	
3.3	Migration: Types, Causes and consequences	
Unit- IV Cultural Regimes		12
4.1	Culture and its importance	
4.2	Cultural regimes (Arnold's classification) and human race.	
4.3	Language and Religion as a culture	

REFERENCES:

1. Brock and Webb (2002), The Geography of Mankind, McGraw International Book Co. London.
2. Johnson R. J. & Others (1983) : The Dictionary of Human Geography, Blackwell England
3. Singh, L. R. (2009): "Fundamentals of Human Geography", Sharda Pustak Bhavan, Allahabad
4. Hussain, M. (2011): "Human Geography", Rawat Publications, Jaipur
5. Dikshit, R. D. (1997): "Geographical Thought: A Contextual History of Ideas", PHI Learning Private Limited, Delhi
6. Singh, R. Y. (2002): "Geography of Settlements", Rawat Publications, Jaipur
7. Siddhartha, K. and Mukherjee, S. (2016): "Cities, Urbanisation and Urban Systems", Kitab Mahal, Delhi
8. Chandna, R. C. (2016): "Geography of Population: Concepts, Determinants and Patterns", Kalyani Publishers, Ludhiana
9. Bhende, A. and Kanitkar, T. (2015): "Principles of Population Studies", Himalaya Publishin House, Mumbai

10. Majid Hussain, Introduction to Human Geography.

11. Generic Elective Course (GE)
ENVIRONMENTAL SCIENCE

Course Objective:

- Enhance the ability to apply this knowledge and proficiency to find solutions relating to environmental concerns of varied dimensions of present times
- Provide with a direction and technical capability to carry on lifelong learning and show teamwork and collaborative endeavor, and decision making

Course Outcome:

1. Define the environment, Ecosystem Ecological Concepts and the role of human beings in shaping the environment.[1]
2. Understand various components of the environment and interfaces. [2]
3. Articulate attributes of natural resource and management. [3]
4. Critically examine the gap in the resource availability, use, and conservation[4]
5. Estimate biodiversity and its vital role in ecosystem function [5]

Modules at a Glance

Unit No.	Unit	Unit Wise Weightage of Marks (in %)
1	Environment and Ecosystem	20
2	Natural Resources	20
3	Biodiversity Conservation and Environmental issues	20
4	Environmental pollution and policies	20

DEPARTMENT OF GEOGRAPHY GENERIC ELECTIVE ENVIRONMENTAL SCIENCE SEMESTER: II COURSE CODE: GEO152. Credits: 04		
Units	Name of the sub Topics	No of Lectures
Unit – I Environment and Ecosystem		
1.1	Environment: Meaning, definition and its components;	15
1.2	Nature ,Scope and importance of environmental studies	
1.3	Concept of an ecosystem: Structure, Functions and Types of Ecosystem	
1.4	Important Ecological Concepts: Food Chain and food Web , Ecological Pyramid	
Unit – II Natural Resources		
2.1	Meaning and definition; Classification of resources,	15
2.2	Deforestation : Causes and impacts	
2.3	Water: use and over exploitation of surface and ground water, floods, droughts.	
2.4	Energy resources: Renewable and non-renewable energy sources, use of alternate energy source.	
Unit – III Biodiversity Conservation and Environmental issues		
3.1	Level of biological diversity: Genetic, Species, and Ecosystem Diversity;	15
3.2	Biogeographic zones of India; Biodiversity Hot Spots in India; Endangered species of India.	
3.3	Threats to biodiversity: Habitat loss, poaching of wildlife, man wildlife conflicts.	
3.4	Conservation of Biodiversity : In situ and Ex-situ conservation of biodiversity	
Unit – IV Environmental pollution and policies		
1.1	Environmental Pollution: Types, Causes, effects and controls; Air, Water, Soil and Noise pollution.	15
1.2	Global Environmental Issues: Climate change, global warming, ozone layer depletion acid rain	
1.3	Environment laws: Environment protection act; Air (Prevention and control of Pollution) Act; water (Prevention and control of pollution) act; Wildlife protection act; forest conservation act.	

REFERENCES:

1. Erach Bharucha, 2010, Textbook of Environmental Studies, University Grant Commission,.
2. P.G. Shinde, et.al, 2018, Environmental Studies, Sheth Publisher Pvt. Ltd.
3. Savindra Singh, 2016, Environmental Geography, Pravalika Publication, Allahabad.
4. Vibbha Kumar, et.al, 2018, Environmental Studies, Himalaya Publisher Pvt. Ltd.
5. Baishakhi Dutta, et.al, 2018, Environmental Studies, Vipul's Publisher Pvt. Ltd.
6. Amrit & Chakraborti, et.al, 2018, Environmental Studies, Manan Publisher Pvt. Ltd.

**VOCATIONAL SKILL COURSE (VSC)
PRACTICALS IN HUMAN GEOGRAPHY**

Course Outcome:

Modules at a Glance

Unit No.	Unit	Unit Wise Weightage of Marks (in %)
1	Population Indices	15
2	Crop Combination & Agricultural Efficiency	15

F.Y.B.A. Geography		
PRACTICALS IN HUMAN GEOGRAPHY		
Vocational Skill Course (VSC)		
SEMESTER-II	COURSE CODE: GEO153	Credit-02
Units	Learning Point	Lectures
Unit-I Population Indices		
1.1	Age-sex pyramid, population potential and population projection.	15
1.2	Child-woman ratio	
1.3	Dependency ratio	
1.4	Infant mortality ratio	
1.5	Population growth rate	
Unit-II Crop Combination & Agricultural Efficiency		
2.1	Weaver's method	15
2.2	Bhatia 's method	

Reference Books:

- **Carter Harold** (1977): The study of Urban Geography
- **Hans Raj** (1978): Fundamentals of Demography
- **Hudson F.S.** (1976): Geography of Settlements
- **Pollard A. H. and Farhat Yusu:** Demographic Techniques
- **Yeats, M. H.** (1974). An introduction to Quantitative Analysis in Human Geography
- **Singh, J. and Dhillon** (1984): Agricultural Geography.
- **Liendsor, J. M.** (1997): Techniques in Human Geography, Routledge.

**Skill Enhancement Course (SEC)
TRAVEL AND TOURISM MANAGEMENT**

Course Outcome:

On successful completion of this course, the students will be able to -

- 1) Student will introduce to itinerary in tourism industry.
- 2) Student will learn the skill how to do planning and preparation of itinerary tour.
- 3) Tour packaging and its various types regarding advantages and disadvantages.

Modules at a Glance

Unit No.	Unit	Unit Wise Weightage of Marks (in %)
1	Introduction	10
2	Planning and preparation	10

F.Y.B.A. Geography		
TRAVEL AND TOURISM MANAGEMENT		
Skill Enhancement Course (SEC)		
SEMESTER-II	COURSE CODE: GEO154	Credit-02
Units	Name of sub units	No of Lectures
Unit – I Introduction		
1.1	Definition of Tourism & its meaning,	10
1.2	nature , scope, and importance of tourism	
1.3	Components and elements of tourism	
Unit-II Planning and preparation		
2.1	Do's and don'ts of itinerary	10
2.2	Factors to be considered while preparing an itinerary	
2.3	Steps in developing itineraries; common constraints.	

Books Recommended:

1. Bhatia A.K. (2012). The Business of Travel Agency and Tour Operation Management, New Delhi: Sterling Publishers
2. Chand, Mohinder (2007). Travel Agency Management: An Introductory Text. New Delhi: Anmol publication Pvt. Ltd.
3. Chaudhary, Manjula (2010). Tourism Marketing. New Delhi: Oxford Publication.
4. Foster, D.L. (2010). The Business of Travel Agency Operations and Administration, Singapore: McGraw Hill.
5. Gee, Chuck and Makens, Y.(2000). Professional Travel Agency Management, New York: Prentice Hall.
6. Goeldner, R. and Ritchie. B. (2010). Tourism, Principles, Practices and Philosophies, London: John Wiley & Sons.
7. Roday. S, Biwal. A and Joshi. V. (2009). Tourism Operations and Management. New Delhi: Oxford University Press.