

**UNIVERSITY OF MUMBAI**



**Syllabus for the F.Y.B.Sc.**

**Program: B.Sc.**

**Course : Geography**

(Credit Based Semester and Grading System with  
effect from the academic year 2011–2012)

**F.Y.B.Sc. Geography Syllabus**  
**Restructured for Credit Based and Grading System**  
**To be implemented from the Academic year 2011-2012**

**SEMESTER I**

<b>Course Code</b>	<b>UNIT</b>	<b>Credits</b>	<b>L / Week</b>
<b>USGR101</b>	<b>I</b>	<b>2</b>	<b>1</b>
	<b>II</b>		<b>1</b>
	<b>III</b>		<b>1</b>
<b>USGR102</b>	<b>I</b>	<b>2</b>	<b>1</b>
	<b>II</b>		<b>1</b>
	<b>III</b>		<b>1</b>
<b>USGRP1</b>		<b>2</b>	<b>6</b>

**SEMESTER II**

<b>Course Code</b>	<b>UNIT</b>	<b>Credits</b>	<b>L / Week</b>
<b>USGR201</b>	<b>I</b>	<b>2</b>	<b>1</b>
	<b>II</b>		<b>1</b>
	<b>III</b>		<b>1</b>
<b>USGR202</b>	<b>I</b>	<b>2</b>	<b>1</b>
	<b>II</b>		<b>1</b>
	<b>III</b>		<b>1</b>
<b>USGRP2</b>		<b>2</b>	<b>6</b>

**F.Y.B.Sc. Geography Syllabus modified for Credit System  
To be implemented from the Academic year 2011-2012**

**Semester I**

**Course Code : USGR101**

**Introduction to Geography**

**(2 Credits)**

**Unit : I**

**(15 Lectures)**

Early beginnings of Geography: observations and description - Location and patterns –  
Need for explanation: scientific approach - Association, causation and model building -  
Evolution of systematic geography : development of physical geography - Impact of  
physical sciences and specialization - Evolution of branches and sub-branches.

**Unit : II**

**(15 Lectures)**

Approach to physical geography through application of scientific concepts - Understanding  
volcanism and seismicity - Formation of minerals and rocks – Rocks and landforms -  
Tectonic landforms : folding and faulting. Concept of soil as medium to plant growth -  
Factors and processes affecting soil formation - Broad distribution of zonal soils - Soil  
Properties in relation to agriculture - Soil Profile.

**Unit – III:**

**(15 Lectures)**

Introduction to atmosphere : its evolution and changing composition – Present composition  
of dry atmosphere - role of moisture - Relative humidity and concepts of dew point and  
condensation - Forms of condensation and precipitation - concepts of weather and climate.

**Course Code : USGR102**

**Fundamentals of Human Geography**

**(2 Credits)**

**Unit : I**

**(15 Lectures)**

**Human Geography** : Nature & scope, Branches, Importance, Major contributors to Human Geography  
Changes in the Man – Environment relationship: a historical perspective.

**Unit : II**

**(15 Lectures)**

**Population Geography** World: Factors affecting growth & distribution of population  
Demographic Transition Model, Demographic Characteristics: Sex Ratio, Literacy Rate, Occupational Structure, Life Expectancy, Rural-Urban composition, Age and Sex Pyramid  
Concepts of under, optimum and over population, their consequences & examples  
**Migration** Definition –Types-Scale ,Causes and consequences of migration –challenges & measures

**Unit – III:**

**(15 Lectures)**

World: Distribution of Race, Languages, Religions, Tribe, Caste, Folk culture and Gender issues. Concept of social well being – Indicators & measurement of social well being; examples.

Human Resource Development (HRD) – concept & need for using HRD

Human Development Index

**Course Code : USGRP1**

**SEMESTER I; PRACTICAL – I**

- A) Concept of map, types of maps and map reading  
Plan of the Earth: Preparation of Simple map / Base map, Pace Survey
- B) Basic elements of map
- a) Location: Latitude, Longitude, Graticule, use of atlas
  - b) Direction : Major directions, concept of bearing, use of magnetic compass
  - c) Distance : Concept of scale, measurement of distances on the map
  - d) Conventional signs and symbols
  - e) Concept of Contour and MSL
- Different types of slopes and landforms represented by the contours,  
Contour interpolation, Drawing of cross section and profiles, intervisibility

**Skill Experiments**

- A) Field sketching - Physical and cultural features - Elevation, cross section, profiles and Three dimensional block diagrams
- B) Basic concepts of GIS, Remote Sensing and GPS

**PRACTICAL – II**

Preparation of maps & diagrams using following cartographic techniques

- a) Distribution maps
- b) Graphs
- c) Bar diagram
- d) Circle diagram
- e) Pie chart
- f) Age / Sex pyramid
- g) Flow diagrams / Flow maps /Ray diagram
- h) Calculation of Human Development Index
- i) Social survey – Interview

## Semester II

**Course Code : USGR201**  
**Introduction to Geography**

\ (2 Credits)

### **Unit : I**

**(15 Lectures)**

Rise of man as a factor affecting geographical phenomena: beginnings of human geography - Changing nature of man-environment relation: determinism, possibilism, stop and go determinism, voluntarism - Positive, normative, behavioural and welfare approaches.

### **Unit : II**

**(15 Lectures)**

Increasing human influence and ramifications in human activities: economic, social, political, cultural, historical - Initial branching - Increasing specialization and complexities: evolution of sub-branches.

### **Unit – III:**

**(15 Lectures)**

Man-environment conflict and ecological crisis - Rise of environmental geography - Increasing attention to environmental planning and management - Environmental movements - Global and national efforts to save environment

**Course Code : USGR202**

**Fundamentals of Human Geography**

**(2 Credits)**

**Unit : I**

**(15 Lectures)**

**Geography of Rural Settlement:** Rural settlements: Evolution, site, situation, types, size, spacing and morphology House types & building material used in Maharashtra and India

**Geography of Urban Settlement :** Introduction ,Urbanization – Process and Problems, Classification of Towns, Urban Landuse Models, Rural – urban fringe & sphere of urban influence

**Unit : II**

**(15 Lectures)**

**Political Geography :** Concept of state, nation & nation-state, Frontiers and boundaries: Types (Frontiers & boundaries with special reference to India & neighboring countries), Geopolitics , Global strategic views

**Unit – III:**

**(15 Lectures)**

**Geography of the Developing Countries :** Concept, characteristics of the developing countries & cities , Development problems associated with the developing countries , Impact of globalization & the role of MNCs

**Course Code : USGRP2                      Semester II;**  
**PRACTICAL – I**

**Regular experiments**

- A) Concept of Statistical diagrams - Importance of statistical diagrams in Geography,  
Difference between maps and diagrams  
(Preparation and Interpretation of diagrams)  
    Graphs - Simple, Superimposed, Band  
    Bars - Simple, Multiple, Divided  
    Proportionate Circles  
    Divided Circles (Pie diagrams)
- B) Distribution maps  
(Preparation and Interpretation of maps)  
    Simple distribution map  
    Dot map  
    Choropleth map  
    Isopleth map  
    Flow map

**Skill Experiments**

Field excursion to study the landscape

**PRACTICAL – II**

Preparation of maps & diagrams using following cartographic techniques

- a) Distribution maps
- b) Diagrams / sketches / cross-sections of house types settlement sites, patterns w.r.t.  
    SOI Toposheets: 1:50,000, 1:25,000 etc.
- c) Nearest neighbor analysis
- d) Proportionate circles / pie diagram

**Skill Experiments**

- a) Field sketching
- b) Field study of rural / urban settlement
- c) Morphology of rural settlement- Field visit



## References

### Course Code : USGR101 and USGR201

1. Husain M. : Human Geography, 2007
2. Bunnett : Physical Geography in Diagrams, Longmans, 2007
3. Goh Cheng Leong : Certificate Physical and Human Geography, Oxford, 2003
4. Strahler A.N. : Physical Geography : Science & Systems of Human Environment, 2002
5. Lal D.S. : Climatology, Pustak Bhawan, 2002
6. Singh R.L. : Elements of Practical Geography, 2007
7. Reddy Anjali : A text Book of Remote Sensing and Geographical Information System, BSP BS publications, 2001
8. Chandna, R.C. : Geography of population : concepts, Determinants and patterns, Kalyani Publishers, New Delhi, 2000
9. Hassan, M.I. : Population Geography, Rawat Publications, 2005
10. Census of India, 2001 series – I, India Provisional Population Tables, Published by
11. Registrar General & Census Commissioner, India, 2001
12. Carter Harold : The study of Urban Geography, Arnold, 1995
13. Clark J. : Population Geography, Permagon Press, New York, 1965
14. UNDP: Human Development Report, Oxford University Press, 2001
15. Deshpande C.D. : Shahare, Continental Prakashan, Pune, 1983 (Marathi)

### Course Code : USGR102 and USGR202

1. Robinson H. (1978) : Human Geography, Macdonalds & Evans
2. Johnson R. J. & Others (1983) : The Disctionary of Human Geography, Blackwell England
3. Goodall B. (1987): The Dictionary of Human Geography, Penguin
4. Knowless R & Wareing (1983) : Economic & Social Geography Made Simple
5. Money D. C. (1962) : Introduction to Human Geography, University Tutorial Press, London
6. Leong G. C. & Morgan G. C. (1990) : Human & Economic Geography, Oxford University Press
7. Rubenstein J. M. (1989): The Cultural Landscape - An Introduction to Human Geography, McMillan Publishing company
8. Haggett P. (1975) : Geography : A Modern Synthesis, Harper & Row, London
9. French B. & Squire S. (1974) : Human & Economic Geography, Oxford University Press
10. Gillett J. (1988): Urban & Rural Geography, Longman
11. Leong G. C. (1974) : Certificate Physical & Human Geography, Oxford University Press
12. Bennett R. B. (1977) : General Geography in Diagrams, Longman London
13. Knapp, Ross & McCrae (1989): Challenge of the Human Environment, Longman, London
14. Ahirrao W. R. & Others (1992) : A Textbook of Principles of Human Geography, Nirali Prakashan
15. Cain H. R. (1975) : Human & Economic Geography, Longman
16. Chandna R. C. (1992): A Geography of Population, Kalyani Publishers, Ludhiyana
17. Manorama Yearbook (2007) : Malayala Manorama Press, Kottayam
18. Singh S. (2007) : Geography, Tata McGraw Hill
19. India Yearbook (2007) : Government of India Publications
20. Beaujeau - Garnier J. (1966) : Geography of Population, St.Martins Press, NY
21. Majid Hussain (2006): Human Geography

## Scheme of Examination:

The performance of the learners shall be evaluated into two parts. The learner's performance shall be assessed by Internal Assessment with 40% marks in the first part & by conducting the Semester End Examinations with 60% marks in the second part.

The Course having Practical training will have Practical Examination for 50 marks at the end of Semester, out of which 30 marks for the Practical task assigned at the time of examination. The 20 marks are allotted as Internal Assessment.

The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below:-

**Internal Assessment:** It is defined as the assessment of the learners on the basis of continuous evaluation as envisaged in the Credit based system by way of participation of learners in various academic and correlated activities in the given semester of the programme.

**Semester End Assessment :** It is defined as the assessment of the learners on the basis of Performance in the semester end Theory/ written/ Practical examination.

### Modality of Assessment :

**Internal Assessment - 40%** **40 marks.**

#### a) Theory **40 marks**

Sr No	Evaluation type	Marks
1	Two Assignments/Case study/Project	20
2	One class Test (multiple choice questions objective)	10
3	Active participation in routine class instructional deliveries(case studies/ seminars//presentation)	05
4	Overall conduct as a responsible student, manners, skill in articulation, leadership qualities demonstrated through organizing co-curricular activities, etc.	05

#### b) Practicals **20 marks**

Sr No	Evaluation type	Marks
1	Two best practicals	10
2	Journal	05
3	Viva	05

### B ) External examination - 60 %

**Semester End Theory Assessment - 60%** **60 marks**

- i. Duration - These examinations shall be of two hours duration.
- ii. Theory question paper pattern :-
  1. There shall be four questions each of 15 marks. On each unit there will be one question & fourth one will be based on entire syllabus.
  2. All questions shall be compulsory with internal choice within the questions. Each question will be of 20 to 23 marks with options.
  3. Questions may be sub divided into sub questions a, b, c, d & e only & the allocation of marks depends on the weightage of the topic.

**Practical External Assessment**

**30 marks**