

# SYLLABUS FOR AUTONOMOUS COURSES IN GEOGRAPHY

## BACHELOR OF ARTS

### SEMESTER I

**Paper Title: Introduction to Geography (THEORY)**

**Paper Code: GEG- I.C 1**

**Name of Faculty: Dr. Nandkumar Sawant**

**Marks: 75**

**Credits: 3**

**Duration: 45 lectures of 1 hour each**

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**Course Objectives:** This introductory paper is intended to acquaint the students with distinctiveness of Geography as a field of learning. The philosophy of the subject is to be taught in order to develop a keen interest in the subject and to pursue it for higher studies.

**Learning outcomes:** At the end of this course students are expected to have a holistic understanding of fundamental concepts of geography and thereby be able to analyze the interrelationships among them.

UNIT NO.	COURSE CONTENT	TEACHING PERIODS	Marks
I	<b>Introduction of Geography</b> Definition, Meaning, nature and scope of geography; Major divisions of geography (General v/s Regional, Physical v/s Human Geography), Interdisciplinary approach, Concepts of Geographical Thought (Determinism, Possibilism, Neo-determinism), Recent trends in Geography, Careers in Geography. Major themes in Geography – location, region process, space and time.	15	25
II	<b>Introduction to Geosphere: I</b> <b>Atmosphere:</b> Meaning & Definitions- Composition & Structure of Atmosphere, Elements of Weather & Climate and their inter-relation. <b>Biosphere &amp; Nanosphere</b> Structure, significance, Man induced environment change- Climate change.	15	25
III	<b>Introduction to Geosphere: II</b> <b>Lithosphere:</b> Evolution of Earth, Geological Time scale.- Orders of Relief (I, II, III), oceans and continents, classification of mountains, plateau and plains, ocean relief. Hypsometric curve, bathymetric curve. <b>Hydrosphere:</b> Hydrological Cycle-Definition, Evaporation, Factors affecting evaporation, Evapo-transpiration, Humidity & It's Types , Forms of Condensation, Forms of Precipitation, Types of Rainfall. Spatial distribution of water on earth.	15	25

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## **BACHELOR OF ARTS**

### **SEMESTER I**

#### **REFERENCES**

1. Dikshit R.D (2004): The Arts, Science of Geography, Integrated Readings Prentice Hall of India, New Delhi
2. Lal . D. S. (2007) : Climatology, Pushtak mahal, Allahabad
3. Goh Cheng Leong (2003): Certificate Physical and Human Geography, Oxford university press, New Delhi
4. Das Gupta and Kapoor (2013): Principles of Physical Geography, S. Chand & Company Pvt. Ltd.
5. Singh Savindra (2005) : Environmental Geography, Prayag Pustak Bhavan, Allahabad

# SYLLABUS FOR AUTONOMOUS COURSES IN GEOGRAPHY

## BACHELOR OF ARTS

### SEMESTER I

**Paper Title: Measurement Systems in Geography (Practical)**

**Paper Code: GEG- I.C 1**

**Name of Faculty: Dr. Nandkumar N. Sawant**

**Marks: 25**

**Credits: 01**

**Duration: 15 sessions of 2 hours each**

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**Course Objectives:** The course aims to develop skills of map reading and understanding. It also encourages students to understand and correlate the different measurement systems which are essential to understand the geographical concepts.

**Learning outcome:** After the completion of this course students are expected to be familiar with the basic cartographical skills such as basic elements of map and map reading. Besides, they will be acquainted with the cartographic techniques such as area measurements, time calculation, which will help in learning advanced techniques as they progress.

Unit	Title	Practical sessions	Marks
I	Scales and its types: Verbal Statement. Representative Fraction. Linear scale- Simple and comparative- time and distance Calculation of area by square method. Identification of location and extension based on latitude and longitudes. Finding directions. Calculation of time based on longitude	10	15
II	Types and Elements of map- Title. Scale. Legend, Direction, Signs and symbols. Grid reference system.	05	05
III	Journal		5
		15	25

#### References

1. Campbell, J.(2004) Introductory Cartography, Prentice Hall, Inc Englewood
2. Misra, R.P. and Ramesh, A., (2005): Fundamentals of Cartography, Concept Pub. Co., New Delhi
3. Monkhouse, I.J. and Wilkinson, H.R., (2009): Maps and Diagram, B.I. Publication, New Delhi
4. R. P Mishra. (2014) Fundamentals of Cartography, Concept Pub. Co., New Delhi
5. Gopal Singh. (2014), : Map Work and Practical Geography, 4<sup>th</sup> Edition, Sterling Book House Mumbai

# SYLLABUS FOR AUTONOMOUS COURSES IN GEOGRAPHY

## BACHELOR OF ARTS

### SEMESTER I

**Paper Title: FUNDAMENTALS OF PHYSICAL GEOGRAPHY (THEORY)**

**Paper Code: GEG- I.C 2**

**Name of Faculty: Mrs. Anagha Bicholcar**

**Marks: 75**

**Credits: 3**

**Duration: 45 lectures of 1 hour each**

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**Course Objectives:** The course aims to introduce fundamental concepts of physical geography. The course focuses of various spheres of the earth and their related concepts.

**Learning outcome:** After the completion of this course students are expected to be familiar with the different spheres of the earth and the interrelation amongst them.

Unit.	Title	Lecture	Marks
I	<b>Concept and Nature:</b> Introduction to physical geography: development of physical geography. Branches of physical geography. Significance of physical geography. Nature of physical geography. Recent developments in physical geography.  <b>Layers of the Earth:</b> Lithospheric system: Interior of the earth. Layering of the earth- Mechanical layering and chemical layering. Processes of Denudation. Rocks and its types. Soil- definition and profile.	15	25
II	<b>Basic concepts of climatology:</b> Definition and scope of climatology. Aims and objectives of climatology. Heat budget. Insolation and factors affecting Insolation. Temperature inversion, its types and effects.	15	25
III	<b>Oceans:</b> The oceans: Their shape, size location and configuration. Dynamics of ocean- Tides, waves and surface currents (Indian Ocean and Atlantic Ocean). Types of marine resources.	15	25
		45	75

#### References:

1. Bloom, Arthur L., 2008: Geomorphology – A Systematic Analysis of Late Cenozoic Landforms, Prentice Hall, Engle Wood Cliff, New Jersey.
2. Ahmed, E., 2005: Geomorphology, Kalyani Publishers, New Delhi
3. Sharma, V.K., 2006: Geomorphology, Earth Surface, Process and forms, Tata McGraw Hill, New York
4. Lal.D.S , 2004: Oceanography, Prayag Pustak Bhavan, Allahabad
5. Strahler, A.N., 2005: Physical Geography, 3rd Ed., Wiley Publications
6. Singh, S. 2005: Physical Geography, Prayag Pustak Bhawan, Allahabad
7. Thornbury, W.D., 1969: Principles of Geomorphology, 2nd Ed., Wiley International Edition, Wiley Eastern Reprint, 2004

# SYLLABUS FOR AUTONOMOUS COURSES IN GEOGRAPHY

## BACHELOR OF ARTS

### SEMESTER I

8. Wooldridge, S.W. and Morgan, R.S., 2008: The Physical Basis of Geography, Longman (First published in 1937)
9. Worcestor, P.G., 2005: A Textbook of Geomorphology, Van Nostrand, 2nd Ed., East West Edition, New Delhi.
10. Chorley, Richard J., 2002: Spatial Analysis in Geomorphology, Harper and Row Publishers, New York, London.
11. Dayal, P. (2nd edition) 2006: A Textbook of Geomorphology, Shukla Book Depot, Patna
12. Sharma, H.S. (ed), 2002: Perspective in Geomorphology, Vol. I & IV, Concept, New Delhi.
13. Sharma, V.K., 2006: Geomorphology, Earth Surface Processes and Forms, Tata Mc. Graw Hill, New Delhi.
14. Sparks, B.W., 2000: Geomorphology, Longman, London, 2nd edition.

# SYLLABUS FOR AUTONOMOUS COURSES IN GEOGRAPHY

## BACHELOR OF ARTS

### SEMESTER I

**Paper Title: Practical in Physical Geography**

**Paper Code: GEG-I.C 2**

**Name of Faculty: Mrs. Anagha Bicholcar**

**Marks: 25**

**Credits: 1**

**Duration: 15 sessions of 2 hours each**

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**Course Objectives:** The course aims to develop skills of relief representation and Toposheet reading, climate data analysis and interpretation. This exercise demands a higher order skill of converting signs and symbols into words.

**Learning outcome:** After the completion of this course students are expected to be familiar with techniques of representing different relief features and interpretation of the characteristics and association with other relief features. Student will be able to analyze, interpret and represent climate data through graphs.

Unit	Title	Practical	Marks
I	Methods of Representation of Relief features – Spot Heights, Bench Marks. Contours diagrams with cross sections- gentle slope, steep slope, concave and convex slope, hills, plateaus, cliff, V-shaped valley, waterfall, Ria coast, Fiord coast. Profile Drawing from contour diagram.	10	15
II	Calculation of mean, average, range of temperature. Calculation of lapse rate and Relative Humidity.	5	05
	Journal		05

#### References

1. Chorley, Richard. J. (ed.), 2009: Water, Earth and Man, Methuen & Co., London
2. Goudie, Andrew, et al. (eds), 2001: Geomorphological Technique, George Allen & Unwin, London
3. Gregory, K.J. and Walling, D.E., 2003: Drainage Basin – Form and Process, Edward Arnold, London
4. King, C.A.M., 2006: Techniques in Geomorphology, Edward Arnold, London
5. Leopold, L.B, Wolman, M.G. and Miller, J.P., 2004: Fluvial Processes in Geomorphology, Freeman, San Francisco
6. Misra, R.P. and Ramesh, A., 2009: Fundamentals of Cartography, Concept Publishing Co., New Delhi
7. Monkhouse, F.J. and Wilkinson, H.R., 2009: Maps and Diagrams, B.I. Publications Pvt. Ltd., New Delhi
8. Singh, R.L. and Singh Rana P.B., 2008, Elements of Practical Geography, Kalyani Publishers, New Delhi