

**University of Pune**  
**Ph. D Course Work in Geography**  
**2010- 11**

**Ph.D. Geog : 101 Research Methodology in Geography (5 credits)**

Unit- I : Introduction to research in geography : Geographic Research – Procedure of Scientific research – Deductive and Inductive approach, Geography as Spatial Science- concepts and models in geography, evolution of contemporary geographic thoughts and concepts, logical and scientific thinking in geography, systems approach in geography and overview of recent research trends in geography.

Unit - II : Research methodology in geography : Defining of the research problem, purpose and Hypothesis, Literature Review Process, types of literature material – understanding major trends, patterns and gaps in literature, research design – research question and appropriate methods, acquisition of research data and sampling – different sources of data and methods of data collection, survey research , Questionnaire design and experimental studies and techniques in Geography – processing and analysis of data.

Unit – III : Writing of Research Report : Format and arrangement of the text, presentation of data and results, references

**Books :**

1. Montello Daniel R. and Sutton Paul C. (2006) – Introduction to scientific research Methods of Geography. By Saga Publication
2. Kothari , C. R. (2004) – Research Methodology -Methods and techniques, New Age.
3. Mishra, H.N. and Sing, V.P. (1998)- research Methodology in Geography, Rawat Publication
4. Clifford, N. Fresh S, Valentine, G. (2010) - Key Methods in Geography , Saga Publication
5. Gregory , K. J. (2000) – The changing Nature of Physical Geography, Arnold, London
6. Gomez basil and Jones, III John Paul (editor) (2010) – Research Methods in geography : A Critical, Wiley – Blackwell
7. Harvey, David (1971) – Explanation in Geography, Edward Arnold , London
8. Chorley, R. J. and P. Haggett(ed) (1967) – Models in Geography , Methuen

**Ph. D. Geog : 102 Advances in Geography – I (5 credits)**

Climatology : Climatology & Meteorology, Basic principles of climatology, atmosphere, stability & instability of atmosphere, climatic classification, cyclones, anticyclones ,Climate change, Monsoons, weather hazards and techniques in climatology.

Geomorphology : Paradigms in Geomorphology, concepts, Approaches and modes in Geomorphology and techniques in Geomorphology

**Ph. D. Geog : 103 : Advances in Geography – II (5 credits)**

Economic Geography : Pre capitalist world, the rise and spread of capitalism, resources and Development, Globalizations, theories and strategies of development  
Agricultural regionalization, Agricultural Productivity, Land use surveys, Land classification, models in Agricultural Geography, food security, Transport Network models, Industrial location  
Theories of industries

Settlement and Population Geography: Paradigms in Population and Settlement Geography, Concepts, approaches and modes in Population and settlement Geography, Techniques / measures in population and settlement Geography.

**Ph. D Geog: 104 : Comprehensive Exam**

Students registered in a Ph.D program must complete the course work within 6 months of beginning the program, the candidate's supervisory committee will examine the student's knowledge in the area(s) of Geography related to the student's research. Students will submit a comprehensive research proposal which will form the basis for the oral examination. This course will be handled by Guide/ Supervisor of the student. Concerned teacher will assign topics for review and seminar other than the topic of Ph. D. Student will have to submit the review and seminar write-up to HOD/ Coordinator which will be assessed by expert. This will be followed by presentation and will be assessed by group of teachers.