



**डॉ. बी.आर. अम्बेडकर सामाजिक विज्ञान विश्वविद्यालय**  
**Dr. B.R. Ambedkar University of Social Sciences**  
(State University established by the Government of Madhya Pradesh)

**Faculty of Social Sciences and Management Studies**



**Syllabus for Ph. D. Course Work**

**(UGC Regulations 2009/2016)**

in

**GEOGRAPHY**

**2018**



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## **Syllabus for Ph.D. Course Work**

### **Geography**

#### **Scheme of Examination of Pre-Ph.D. (Course Work) Examination**

<b>Paper No.</b>	<b>Code</b>	<b>Title of the Papers</b>	<b>Credits</b>
Paper I	GEO 711	Research Methodology	3+1
Paper II	GEO 712	Review of Literature	3+0
Paper III	GEO 713	Computer Application	3+0
Paper IV	GEO 714	Geography Advance Paper	3+0
Paper V		Viva-Voce	3+0



## **Syllabus for Ph.D. Course Work**

### **Geography**

#### **Paper- III Research Methodology (GEO - 711)**

**3+1**

##### **Unit-I**

Problems of Geographical Research, Identification of Problems of regional and systematic Geography. Nature and source of data to be used, Hypothesis, Models.

##### **Unit- II**

Preparation of Research project and report writing, Cartographic representation of agricultural, Transport, marketing and industrial data.

Selected techniques of spatial analysis, Methods of measurement of concentration and dispersion of economic activities.

##### **Unit - III**

Nearest neighbour analysis with examples, Regional interaction analysis, Gravity potential, Methods of delimiting regions - Resource Regions, Economic, Industrial, Agricultural and Planning regions.

##### **Unit- IV**

Regional population analysis - Population projection, Population Migration Projection, Network analysis with examples. Delimiting urban and market spheres of influence.

##### **Unit-V**

Techniques of Map analysis. Basics of Remote Sensing and G.I.S.. Morphometric analysis - drainage, slope analysis, Integrated area development planning.

##### **Books Recommended:**

1. David, Unwin : Introductory Spatial Analysis, Methuen, London, 1981.
2. Gregory, S. : Statistical Methods and the Geographer, Longman, London, 1978.
3. Mahmood, A. : Statistical Methods in Geographical Studies, Delhi, 1978.
4. Maruice, Yeats : An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York.
5. Peter Haggett, Andrew: Location Methods Vol. I and II Edward Arnold, London, D. Cliff & Allan Frey 1977.



**Syllabus for Ph.D. Course Work**  
**Geography**

**Paper-II: Review of Published Research in the Relevant Field**  
**(Review of Literature) (GEO - 712)**

**3+0**

**Unit 1**

**Understanding Review of literature:** Relevance, Approach and Applications; Developing an outline for the literature review; Formulate key questions for a review.

**Unit 2**

**Organizing a literature search:** Identify which literature bases to search; Developing the theoretical basis for the Research Question; Searching for, locating and organizing relevant professional literature

**Unit 3**

**Conducting the Review:** Abstract relevant information from appropriate studies in a systematic manner; Critically reviewing the literature; Rate the scientific quality of each study and the level of evidence for each question;

**Unit 4**

**Synthesizing the Review:** Create evidence tables and summary tables; Interpret the pattern of evidence in terms of strength and consistency; Summarize the studies' findings.

**Unit 5**

**Writing the review:** Writing a first draft; Writing references and citations; Obtaining, giving, and making productive use of feedback; the redrafting process; Professional formatting.



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## **Syllabus for Ph.D. Course Work**

### **Geography**

#### **Paper- III Computer Application (GEO - 713)**

**3+0**

##### **Unit 1**

Basic knowledge of application software's in MS- Office with focus on MS-Word- its features and applications related to presentation of text in decent format and saving the same for further use. The practical knowledge of this software should enable the candidate to type and prepare the thesis in a presentable format.

##### **Unit 2**

MS-Excel- construction of worksheet and inserting data according to its characteristics, use of statistical tools and their presentation in the form of charts and graphs.

##### **Unit 3**

MS- Power point – create power point presentation on a topic related to the theme of thesis and use of different presentation techniques.

##### **Unit 4**

Use of SPSS – method of preparing data sheet and entering data according to its characteristics , use of various statistical tools on SPSS.

##### **Unit 5**

Use of Internet for research work and exploring various websites and search engines for collecting quality literature review and secondary data etc. related to thesis work.



## **Syllabus for Ph.D. Course Work**

### **Geography**

#### **Paper- IV Geography Advance Course (GEO - 714)**

**3+0**

##### **Unit - 1**

**Geomorphology** : Fundamental concepts; Factors controlling landform development, Endogenetic and Exogenetic forces; Denudation process, weathering and erosion; Geosynclines, mountain building, continental drift and plate tectonics; Concept of geomorphic cycle; Landforms associated with fluvial, glacial, arid, coastal and karst cycles, Slope forms and processes, Environmental and Applied Geomorphology.

##### **Unit - II**

**Climatology** : Composition and structure of the atmosphere; Heat budget of the earth; Distribution of temperature; Atmospheric pressure and general circulation of winds; Monsoon and jet stream; Stability and instability of the atmosphere, Air-masses, Fronts, temperate and tropical cyclones; Types and distribution of precipitation, Classification of world climates; Koppen's and Thornthwaite's schemes, Hydrological Cycle; Global warming.

##### **Unit - III**

**Oceanography** : Origin of Ocean basins; Bottom relief of Indian, Atlantic and Pacific Oceans; Ocean deposits; Coral reefs; Temperature and salinity of the oceans; Density of sea water; Tides and ocean currents; Sea-level changes.

**Bio-Geography** : Physical factors influencing world distribution of plants and animals; forms and functions of ecosystem : Forest, grassland, marine and mountain ecosystem; Bio-diversity and its depletion through natural and man induced causes; Conservation and management of ecosystems; Environmental hazards and problems of pollution; Ozone depletion.

##### **Unit - IV**

**History of Geographic Thought** : General character of Geographic knowledge during the ancient and medieval period; Foundations of Modern Geography, Contribution of German, French, British and American schools; Conceptual and methodological developments during the 20th century; Changing paradigms; man and Environment, Determinism and possibilism; Areal



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differentiation and spatial organization; Quantitative revolution; Impact of positivism, humanism, radicalism and behaviouralism in Geography.

#### **Unit - V**

**Population Geography** : Nature, Scope, Subject matter and recent trends; Patterns of world distribution, growth and density of population; Policy issues Patterns and processes of migration, Demographic transition; Population-resource regions.

**Settlement Geography** : Site, situation, types, size, spacing and internal morphology of rural and urban settlements; Ecological processes of urban growth; Urban fringe; City-region; Settlement system; Primate city; Rank-size rule, Settlement hierarchy, Christaller's Central Place theory; August Losch's theory of market centres.

### **Syllabus for Ph.D. Course Work**

#### **Geography**

#### **Paper V**

#### **Comprehensive Viva-Voce**

**3+0**