

## Syllabus for Ph.D. Course work in Geography (2017-18)

### Paper – II Geography – elective (15 C)

There are two papers: each with 15 credits. Total credit: 15 X2 = 30

I credit = Five lecture of 1 hour each.

C= credit; L = Lecture

**Paper - I**      Research Methodology, Computer Fundamentals, Statistical tools and techniques  
in Geography (15 C)

**Paper – II**    Geography – elective (15 C)

### Paper - I : Research Methodology, Computer Fundamentals, Statistical tools and techniques in Geography (15 C)

A	Research Methodology : An overview; explanation in Geography Defining Research Problem' Procedure of Scientific Research Formulation Hypothesis; Research design	
B	Sources of data in Geography Methods of data collection: observation, schedule, questionnaire and interview, Processing of data: Processing, editing, coding and classification and tabulation; Sampling, sampling methods and size of the sample.	
C	Analysis of data: measurement of Central Tendency, dispersion and relationship; probability Measurement in research, measurement scale, sources of error in measurement, important scaling techniques: Quantitative techniques: Correlation: Rank order Correlation, Product Movement Correlation;	
D	Running mean; describing point patterns: Mean Centre, Nearest Neighbour Analysis, Line Pattern: Detour Index and Shape index, Tests: 't' Test' 'F' Test, Chi square Test; Rank Size Rule; Lorenz Curve; Functional Classification of towns; Centrality index for central place; Crop Combination Region, Agricultural Efficiency; Gravity and Potential Models: Linear Regression.	
E	Interpretation and preparation of Research Report: Meaning and techniques of interpretation, steps, layout and type of reports;	
F	Computer application: computer fundamentals, Microsoft office (word, excel and Power Point), internet, Computer cartography, Remote sensing and GIS application.	

**Paper – II - Elective (15 C)**

A1	Geomorphology	
A2	Population Geography	
A3	Social Geography	
A4	Settlement Geography ( Rural and Urban)	
A5	Agriculture Geography	
A6	Resource Geography	
A7	Regional Development and Planning	
A8	Remote Sensing and GIS	
B	Review writing-Topic of review relevant to the proposed Ph. D. work	
C	Writing of research proposal, statement of problem, objective, hypothesis, and plan of the thesis.	
D	Thesis writing, Formats of report writing, Formats of Publications in research Journals; Bibliography	
E	Seminar presentation; Preparation of Research Paper	

**Scheme of examination for the pre-Ph.D. course work for Geography**

Scheme of examination for the pre-Ph.D. course work for Geography		
	Examination scheme	
1	The question paper will be of 100 marks	
2	There will be five questions. All the five questions shall be compulsory.	
3	The pattern of the question paper shall be as follows:	
	Q. 1 Objective questions of multiple choice type (40 questions to be answered) covering contents of both papers equally.	40
	Q.2. Short answers type questions ( in about 50-100 words)	10
	Q.3. Shorts notes (in about 200-250 words)	10
	Q.4. Preparation of any suitable research proposal	20
	Q. 5. Preparation of any research paper	20
4	The answer papers will be assessed independently by two examiners.	
5	The candidate must obtain 50% or more marks to qualify in the course work	