



## DEPARTMENT OF GEOGRAPHY PRESIDENCY UNIVERSITY

### Detailed Syllabus for the Doctoral Coursework in Geography (To be completed in one semester)

**Module Name:** *Research Framework and Research Publication Ethics*

**Paper Type:** Theory

**Course No.:** GEOGC1

**Total Marks:** 25+25=50 (Semester Examination 17½+17½ and Internal Assessment- 7½+7½)

**Credit:** 2 Credit Hours/week for Research Framework and 2 credits hours/week for Research Publication Ethics

**Module Evaluation: Semester Examination (35 marks):** Written examination of 2 hours duration will be held at semester end.

**Question Pattern** - Four Long-answer type questions each of 10 marks (may be split into two parts, one carrying 2 marks at most) will be set for answering any two and five semi-long answer type questions, each of 5 marks will be set for answering any three.

**Internal Assessment (15 marks):** Mode of Internal Assessment (through viva-voce / class presentation / group discussion / written examination / assignment or any other method) will be notified for chosen topic(s) during the Course.

#### **Unit I - Research Basics**

Concept of Research: Meaning and objectives of research, Research process

Problem Identification: Knowing and choosing the field

Problem Identification: Professional experience, Inference from theory, Indicative literature, Technological and social changes

Problem Formulation: Definition and statement of the problem

Problem Evaluation: Feasibility of undertaking research on concerned problem, originality and significance of the problem,

Ability of the researcher to probe the problem

#### **Unit II - Framing the Research**

Identifying Research Questions

Hypothesis Building: Importance of an Hypothesis; Hypothesis Formulation: Richness of background knowledge, Deductive reasoning,

Use of analogies in hypothesis formulation; Criteria of a usable hypothesis, Hypothesis Statements, Hypothesis Testing

Doing a Literature Review - Basic guidelines, Types of and Sources of Bibliographic Information

Citation, Bibliographic Management and Style of Referencing; Preparation of Foot notes, End notes, Glossary, Abbreviations and

Acronyms

#### **Unit III - Research Publications Ethics [2 credits]**

Ethical Issues in Research Publications

Meaning and seriousness of Plagiarism; Types of Plagiarism

Plagiarism Checking Tools and Preventing Plagiarism

UGC Guidelines on Research Ethics



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#### Detailed Syllabus for First Semester of the Doctoral Coursework in Geography

**Module Name:** *Research Methods*

**Paper Type:** Theory

**Course No.:** GEOGC2

**Total Marks: 50** (Semester Examination - 35 and Internal Assessment - 15)

**Credit:** 4 Credit Hours / week (4 x 16 teaching weeks = 64 credit hours per semester)

Figures in [ ] indicate number of credit hours allocated for the topic

**Module Evaluation: Semester Examination (35 marks):** Written examination of 2 hours duration will be held at semester end.

**Question Pattern** - Four Long-answer type questions each of 10 marks (may be split into two parts, one carrying 2 marks at most) will be set for answering any two and five semi-long answer type questions, each of 5 marks will be set for answering any three.

**Internal Assessment (15 marks):** Mode of Internal Assessment (through viva-voce / class presentation / group discussion / written examination / assignment or any other method) will be notified for chosen topic(s) during the Course.

#### Unit I - Quantitative Aspects

Types of data and their sources and limitations

Collection of Primary Data - Concept of Questionnaire Survey

Sampling Techniques - Qualitative and Quantitative Variables

Multivariate Regression, PCA, ANOVA, Statistical Hypothesis Testing

Using Statistical Softwares

#### Unit II - Qualitative Aspects

Qualitative Approach to Inquiry: Phenomenological Research

Idea of Triangulation in Qualitative Research

Quantification in Qualitative Research

Grounded Theory

Project in handling Qualitative Analytic Software



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#### Detailed Syllabus for First Semester of the Doctoral Coursework in Geography

**Module Name:** *Research Tools*

**Paper Type:** Sessional

**Course No.:** GEOGC3

**Total Marks:** 50 (Semester Examination - 35 and Internal Assessment - 15)

**Credit:** 4 Credit Hours / week (4 x 16 teaching weeks = 64 credit hours per semester)

Figures in [ ] indicate number of credit hours allocated for the topic

**Module Evaluation: Semester Examination (35 marks):** Written examination of 2 hours duration will be held at semester end.

**Question Pattern** - Four Long-answer type questions each of 10 marks (may be split into two parts, one carrying 2 marks at most) will be set for answering any two and five semi-long answer type questions, each of 5 marks will be set for answering any three.

**Internal Assessment (15 marks):** Mode of Internal Assessment (through viva-voce / class presentation / group discussion / written examination / assignment or any other method) will be notified for chosen topic(s) during the Course.

#### Unit I - Field Aspects

Practice of geographical observation, data collection and interpretation techniques during the field trip

Stages of fieldwork: Selecting a research setting, gaining access and presenting oneself, gathering information

Field notes: Types, coding, analysis

Types of Field Observation: Participant and Non-participant, Structured and Non-structured, Empirical and Measured

Conducting an Interview: Framework and guidelines;

Techniques of Socio-economic survey: Preparation of questionnaire, interview, focus group discussion along with master table preparation

Mode of collecting Primary Data using Instruments

- a. Fundamentals of Total Station Survey including data collection and computation
- b. Use of Eco-sounder in Large Rivers
- c. Basic Principles and Utilities of Current Meter regarding River Discharge calculation

#### Unit II - Geoinformatics Tools

Aspects of Map Design: Marginal information and Map Body Presentation - Best Practices

Spatial Analyst Tool of ArcGis 10.0

Geomorphometric Analysis in Mapinfo Professional GIS



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#### Detailed Syllabus for First Semester of the Doctoral Coursework in Geography

**Module Name:** *Research Writing*

**Paper Type:** Sessional

**Paper Code:**

**Course No.:** GEOGC4

**Total Marks:** 50 (Semester Examination - 35 and Internal Assessment - 15)

**Credit:** 4 Credit Hours / week (4 x 16 teaching weeks = 64 credit hours per semester)

Figures in [ ] indicate number of credit hours allocated for the topic

**Module Evaluation: Semester Examination (35 marks):** Written examination of 2 hours duration will be held at semester end.

**Question Pattern** - Four Long-answer type questions each of 10 marks (may be split into two parts, one carrying 2 marks at most) will be set for answering any two and five semi-long answer type questions, each of 5 marks will be set for answering any three.

**Internal Assessment (15 marks):** Mode of Internal Assessment (through viva-voce / class presentation / group discussion / written examination / assignment or any other method) will be notified for chosen topic(s) during the Course.

#### Unit I - Pursuing Geographical Enquiry

Theory of Observation - Methodological issues in geographical observation, Types of geographical enquiries

Introduction, nature, purpose and practice of geographical data collection from the field

Organisation and maintenance of a Field Book containing information, observations and findings

#### Unit II - Academic Writing and Publishing

Meaning and Types of Academic Writing

Challenges in Academic Writing; Nature of Scientific Writing - Styles and Techniques of Dissertations, Thesis, Reports and Research Papers and their Structure and Organisation

Preparation of Papers for Journals - Framing the Paper Structure; Writing the Abstract and Introduction; Organising and Presenting an Argument; Engaging in Academic Discussions and Debates and drawing Conclusions; Norms for successful submission

Dealing with Objection and Rejection

Importance of Revision (Review Reports, Response Sheets)

Norms towards Acceptance for Publication (revision, editing, proof reading and printing)

#### Unit III - Preparation of Abstract, Research Proposal, Executive Summary and Assignment

Framing a Research Proposal: Main Elements

Research Proposal Writing and Discussion Clinic