Meeting of the Committee notified Vide Memo No. 21178-84/21 dated-04-10-2021 is being held today, The following members are present.

1. Dean, Faculty of Science, LNMU, Darbhanga — Member
2. Dean, Faculty of Humanities, LNMU, Darbhanga — Member
3. Dean, Faculty of Social science, LNMU, Darbhanga — Member
4. Dean, Faculty of Commerce, LNMU, Darbhanga — Member
5. Dr. Avni Ranjan Singh, Dept. of Economics, C. M. College, DBG — Member
6. Controller of Examination — Convenor

Agenda : To devise uniform standard/model for Ph.D Course work Examinations including syllabus in the light of Ph.D. Regulation notified by Governor's Secretariat BSU-512010-2684/GS(I) dated- 21.09.17 by BSU (Regulation) 05/2010-3230 GS (I) dated 18.12.2018.

Resolution: The Regulation was discussed and deliberated. The Committee unanimously resolved the following.

(1) The Ph.D. Course work examinations shall comprise two papers, each of 100 marks.

(2) Each paper shall be of 2 hours duration and shall consist of 3 parts:

PART-A

(a) Objective/ Multiple choice questions- (5 in numbers each carrying 2 marks).

PART-B.

(b) Short questions 5 in number of which 3 to be answered and each will carry 10 marks.

PART-C

(c) 3 Long answer questions to be set, out of which two are to be answered and each will carry 30 marks.

(3) Regarding Conduct of the syllabus for Ph.D. Course work, it was resolved-

(a) The First-Paper shall be common to all faculties and will consist of courses on Research Methodology, Quantitative Methods, Computer Applications and other Techniques/Methods.

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(b) The second paper will include subject specific Research Methods/Techniques/Reviewing the Literature, Developing Bibliography and References.

(4) The Committee further resolved that Dr. Avni Ranjan Singh, Head Dept. of Economics, C. M. College, Darbhanga be authorised to frame detailed contents of Paper I.

(5) The University departments be authorised to develop the course contents of Paper-II of the subjects concerned.

(6) It was also resolved that the uniform pattern of Ph.D. course work examination shall be effective from PAT-2021 onwards.

(7) Each answer book of a particular subject would be evaluated by three examiners (one for Part-A, one for Part-B and one for Part-C). Another (4th examiner) would be for transcription and totalling of the marks awarded. All the four examiners will be paid equal remuneration per answer book at the rate fixed by the Examination Board.

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Paper-I

Research Methodology

Full Marks: 100

Duration of Examination: 2 Hours

Questions shall consist of 3 parts:

Part-A : Short Questions (06 in number of which 04 to be answered, each carrying 10 marks) = 40

Part-B : Long Answer Question (04 to be asked of which 02 to be answered, eachcarrying 30 marks) = 60

1. Introduction to Research: What is Research; Why is Research Conducted; Stages in Research; Changing Nature and Expanding Scope of Research; Why Research Methodology.

2. Introduction to Major Research Methods: Natural Observation; Historical Research; Ethnographic Research; Cross-Sectional Study; Longitudinal Study; Cohort Study; Case Study; Correlational Research; Action Research; Quantitative and Qualitative Research; theoretical research, applied research and empirical research; Experimental Research: Cause and Effect Relationships, Hypothesis in Experiments, Principles of Experimentation, Classification of Experiments, Experimental Design, Requirements of a Good Experiment; Reasoning in Research : Introduction to Logical Terms; Evidences; Inductive and Deductive Reasoning; Fallacious Reasoning; Formal and Informal Fallacies; Common Fallacies.

3. Research Design: Study designs in quantitative research; Study designs in qualitative research; Other commonly used philosophy-guided designs; Choice of Variables; Constructing hypotheses, Mechanisms and Design for Data Collection; Collection of Primary Data: Observation, Interview, questionnaire and schedule Sample Surveys and Designed Experiments, Estimation without Sampling, Methods of data collection in qualitative research; Collection of Secondary Data; Data Integration; Using Publications and the Library; Using Academic Databases: Search Engines, Citation Indexes and Citation Analysis, Government of India Initiatives for
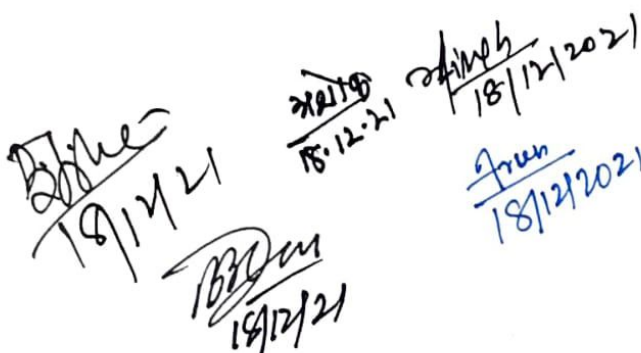
Knowledge Management- INFLIBNET: e-ShodhSindhu, Shodhganga, ShodhGangotri, and N-List Projects.

4. Data analysis: Statistical analysis; Thematic analysis; Analysing narrative; Discourse analysis; Content analysis; Grounded Theory; Using computers in data analysis.

5. Ethics and Related Issues in Research: Concepts in Ethics in Research; Intellectual Property Rights; Scientific Values: Needed a Code of Conduct; Fraud and Misconduct in Science; Plagiarism: What is Plagiarism, Acknowledge Sources Appropriately, Paraphrasing, Direct and Indirect Quotations, Plagiarism Checking: ShodhShuddhi, UGC (Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutions) Regulations, 2018, LNMU Plagiarism Policy and Regulations-2018.

6. Writing a Research Proposal: Introduction; The research problem; Objectives of the study; Hypotheses to be tested; Study design; Measurement procedures; Analysis of data; Structure of the report; Problems and limitations.

7. The Structure of a Thesis: Thesis Vs Dissertation; Parts of a Thesis; Preliminary Pages of a Thesis: Title Pages, Certificate Pages, Acknowledgements, Table of Contents, List of Tables, List of Figures, Dedication; The Subject Proper: Introduction, Review of Literature, Materials and Methods, Results, Analysis/ Discussion, Summary/Conclusion, References, Appendixes; The Abstract; Formatting Requirements of a Thesis: Margins, Page Numbering, Design and Formatting of Chapters, Numbering the Sections, Lay-Out of Tables, Language and Style, Typeface and Fonts, Paper and Text Spacing; Thesis Editing.
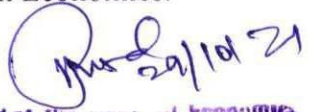
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KAMESHWARANAGAR, DARBHANGA

Ph D Coursework Paper-II

Research Methods in Economics

1. Research Methodology in Economics: Research Methodology and its Constituents; Theoretical perspectives: Positivism and post-positivism, Critical theory, Interpretivism, and Pragmatism; Approaches to Social Enquiry: quantitative, qualitative, and mixed approach; Forms of Quantitative Approach: Inferential approach, Experimental approach, Simulation approach.

2. Eight Steps in Economic Research Process: Defining Research Problem; Delineating Objectives of Research; Reviewing Literature; Formulation of Hypothesis; Research Design; Collection of Data: Source, tools, and methods; Analysis of Data; Report Writing.

3. Data Collection for Economic Research: Method of Data Collection; Tools of Data Collection; Sampling Design: Population and Sample; Non-Random Sampling; Random or Probability Sampling: Precision of Estimates – Standard Errors and Confidence Intervals, Assessment of Precision – Unknown Population Variance, Assessment of Precision–Parent Population has a Non-Normal Distribution, Determination of Sample Size; Methods of Random Sampling: Simple Random Sampling (With Replacement), Simple Random Sampling (Without Replacement), Stratified Sampling, Cluster Sampling, Sampling with Probability Proportional to Size, Multi-Stage Sampling; The Choice of an Appropriate Sampling Method.

4. Models and Modelling in Economics: Why models, Introducing Modelling Exercise; Types of Models: Probability Models, Models Based on Differential Equations, The ANOVA Model, Regression Models; Simulation – Models and Solutions. Models of Explanation in Economics: Classical Political Economy and Ricardo's Method; Robbins, Positivism and Apriorism in Economics; Hutchison and Logical Empiricism in Economics; Milton Friedman and Instrumentalism in Economics; Paul Samuelson and Operationalism; Amartya Sen on Heterogeneity of Explanation in Economics.

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Head of the Dept. of Economics
N Mithila University
Kameshwar Nagar, Darbhanga

5. Data Processing and Analysis in Economics: Data Preparation and Analysis; The Univariate Distribution; Bivariate Analysis; Multivariate Analysis; Index Construction and Scaling Methods; Inferences: Strategy of Hypothesis Testing, Sampling Distribution, Level of Significance, and region of Rejection, Parametric and Non-Parametric Tests of Significance.

6. Introduction to IBM SPSS: The IBM SPSS 20 Data View Screen; Naming and Defining Variables in Variable View; Entering Data; Doing Basic Analyses; Modifying Data Procedures.

7. The Literature Review: Importance of the Literature Review; Planning a Literature Search; Locating Relevant Literature; Managing Information; Reliability of a Source; Writing a Review. References: Importance of Referencing in Documents; Citation and Listing Systems of References; Common Documentation Styles; CSE Style: The Name-Year System; Citation of Sources in the Text; Listing References in the "References" Section; Reference Management Software.

Books Recommended:

1. Steven G. Medema, Warren J. Samuels. Foundations of Research in Economics: How Do Economists Do Economics? Edward Elgar (UK).

2. Catherine Hakim. Research Design Successful Designs for Social Economics Research. Taylor & Francis (London).

3. Adolfo Figueroa. Rules for Scientific Research in Economics: The Alpha-Beta Method. Springer International Publishing (NY).

4. Don E. Ethridge, Don Ethridge. Research Methodology in Applied Economics. Wiley (New Jersey, USA)

5. Mirjana Radović-Marković, Beatrice Avolio Alecchi. Qualitative Methods in Economics. Taylor & Francis (London).