

Institute of Infrastructure, Technology, Research And Management (IITRAM)

Syllabus for Written Test **PhD Admission Autumn Semester (2023-24)**

Department of Humanities and Social Sciences (HSS)

Part-I

Research Methodology

- Definition of research
- Concepts and types of research
- Ethics in Research including Plagiarism
- Qualities of a competent Researcher
- Purpose and Scope of Research
- Steps in conducting research
- Selection of Research problem
- Literature review
- Defining research Problem
- Hypothesis and its type
- Functions of Hypothesis
- Sampling techniques
- Measurement and Scaling techniques
- Data collection techniques and methods
- Analysis of Quantitative and Qualitative Data (including Basic Statistical parameters)
- Citation and Reference Styles
- Research report and thesis writing

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Part-II

ECONOMICS:

- A) **Microeconomics:** 1. Demand and Supply Analysis 2. Theory of Production and Cost 3. Welfare Economics
- B) **Macroeconomics:** 1. Measuring value of Economic Activity (National Income Accounting). 2. Theory of employment, Consumption, Output, Inflation, Money and Finance 3. Financial and Capital Market 4. Economic Growth and Development 5. International Economics 7. Balance of Payments 8. Global Institutions
- C) **Public Finance:** 1. Theories of taxation, Theories of public expenditure and Theory of public debt management. 2. Environmental Economics 4. State, Market and Planning
- D) **Indian Economy:** 1. History of development and planning. 2. Budgeting and Fiscal Policy 3. Poverty, Unemployment and Human Development 4. Agriculture and Rural Development Strategies. 5. Foreign trade and Foreign Investment
- E) **Research Methodology, Basic Statistics, Econometrics, Logical Reasoning and Data Interpretation:** 1. Primary and Secondary Research. 2. Techniques of data Collection-Qualitative and Quantitative. 3. Presentation and analysis. 4. Econometric and Statistical tools for social research.
- F) **Current Affairs related to Infrastructure development in India.**

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