



Faculty of Arts, Humanities & Social Sciences

<u>SECTION – A</u>

(Common for all candidates)

Total Marks: 50

Ph.D. Entrance Examination Syllabus (Research Methodology)

Unit	Content
1	Basics of Research: Research: Meaning, Objective, Characteristics, Steps of research, Methods of research, Types of research – Descriptive vs. Analytical, Applied vs. Fundamental, Quantitative vs. Qualitative, Conceptual vs. Empirical.
2	Research Problem and Research Design: Introduction to Research Problem, Necessity of Defining the Problem, Selecting the Problem, Techniques Involved in Defining a Problem, Meaning and Types of Research Design, Important Concepts Relating to Research Design
3	Sampling Design: Census and sample survey, Implications of a Sample Design, Steps in sampling Design, Criteria of Selecting a Sampling Procedure, Characteristics of a Good Sample Design, Different Types of sample Designs, How to Select a Random Sample?, Random Sample from an Infinite Universe, Complex Random Sampling Designs
4	Data Collection and Analysis: Methods of Data Collection- Observation, Interview, Questionnaires, Schedules, Survey and Experimental. Selection of Appropriate Method for Data Collection, Different Techniques of Sampling such as Probability and Non-Probability, Basic Statistical Methods of Data Analysis such as Frequency distribution, Measures of central tendency, Measures of Dispersion, Coefficient of variation, correlation and regression.
5	Research Ethics and Morals: Environmental impacts and Ethical issues, Commercialisation, Copy right, Royalty, Intellectual property rights and Patent law, Plagiarism, Citation, Referencing style and acknowledgement.





Faculty of Arts, Humanities & Social Sciences

<u>SECTION – B</u>

Total Marks: 50

Ph.D. Entrance Examination Syllabus (Economics)

Economic Theory

A. Microeconomics

Consumer Behaviour: Utility theory, budget constraints, and consumer choice.

Production and Costs: Production functions, cost structures, and profit maximization.

Market Structures: Perfect competition, monopoly, monopolistic competition, and oligopoly.

Welfare Economics: Pareto efficiency, market failures, and welfare theorems.

B. Macroeconomics

National Income Accounting: GDP, GNP, and methods of measurement.

Economic Growth: Theories of growth (e.g., Solow model, endogenous growth). Business Cycles: Theories and policies (Keynesian, Monetarist, Real Business Cycle). Monetary and Fiscal Policy: Tools, objectives, and their impact on the economy.

Historical and Classical Economics

A. History of Economic Thought

Classical Economics: Adam Smith, David Ricardo, Thomas Malthus. Neoclassical Economics: Alfred Marshall, William Stanley Jevons. Keynesian Economics: John Maynard Keynes, the General Theory.

B. Economic Philosophies

Economic Liberalism: Free markets, individual liberty.

Socialism and Marxism: Karl Marx, Friedrich Engels, and the critique of capitalism. Development Economics: Classical theories of development and modernization.

Econometrics and Quantitative Methods

A. Statistical Methods

Descriptive Statistics: Mean, median, mode, variance, and standard deviation.

Inferential Statistics: Hypothesis testing, confidence intervals.

B. Regression Analysis

Simple and Multiple Regression: Model specification, estimation, and interpretation.

Time Series Analysis: Basic concepts, trend analysis, forecasting.

C. Quantitative Techniques

Index Numbers: Consumer Price Index (CPI), Producer Price Index (PPI). Econometric Software: Introduction to software such as STATA, R, or EViews

Development Economics

A. Theories of Development

Modernization Theory: Rostow's stages of economic growth. Dependency Theory: Dependency and world-systems theory.

B. Poverty and Inequality

Measurement and Indicators: Poverty lines, inequality indices (e.g., Gini coefficient).





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Policies: Strategies for poverty alleviation and income distribution.

C. Development Policy

Education and Health: Role in development.

Economic Planning: Strategies for economic development and planning.

Public Economics

A. Public Finance

Government Budget: Structure, principles, and budgeting process.

Taxation: Types of taxes, tax policy, and impacts.

B. Public Goods and Externalities

Characteristics: Public vs. private goods, externalities, and their effects.

Government Intervention: Policies to address market failures.

C. Welfare Economics

Social Welfare: Concepts of social welfare and justice. Redistribution Policies: Tools and impacts on inequality.

International Economics

A. International Trade

Trade Theories: Comparative advantage, Heckscher-Ohlin model.

Trade Policies: Tariffs, quotas, trade agreements.

B. International Finance

Exchange Rate Mechanisms: Fixed vs. floating exchange rates. Capital Flows and Financial Crises: Causes and management.

C. Global Institutions

Role and Functions: IMF, World Bank, WTO.

Global Economic Policies: Trade and monetary policies.

Applied Economics

A. Labor Economics

Labor Markets: Supply and demand, wage determination. Employment and Unemployment: Types and causes.

B. Health Economics

Health Care Systems: Structure, funding, and policies.

Economic Evaluation: Cost-benefit and cost-effectiveness analysis.

C. Environmental Economics

Valuation of Environmental Resources: Methods and policies.

Sustainability and Climate Change: Economic impacts and policies.