

**Syllabus and Scheme of Ph.D Course Work in Economics**  
**w.e.f. 2023-2024**

**Max. Marks: 100**  
**External Examination: 70**  
**Internal Assessment: 30**

<b>Course Code</b>	<b>Name of Course</b>		<b>Credit</b>
PHECO-C-701	Research Methodology	Core	04
PHECO-C-702	Logic and Scientific Approaches in Economics		04
PHECO-E-701	Development Theory and Programmes of Rural Development	Subject Elective ( Any one)	04
PHECO-E-702	Agricultural Development & Policy		
PHECO-E-703	International Economics		
RPE-04	Research and Publication Ethics	Core	02

## **PH.D (Economics) PHECO-C-701 Research Methodology**

Max. Marks: 100  
External Examination: 70  
Internal Assessment: 30  
Time: 3 Hours

### **UNIT-I**

Social Science Research: Nature, scope and objectivities. The bridge between concepts and facts, Formulation of a research problem and research design.

Sampling design: Concepts of populations, census and sample surveys.

Types of Sampling: Simple random sampling, stratified random sampling, systematic sampling, cluster sampling, multistage sampling, Quota sampling.

### **UNIT-II**

Data collection: Primary and secondary data, methods of collecting primary data, sources of secondary data, framing the questionnaire/schedule, guidelines for successful interviewing, case study method.

Data base of Indian Economy: Sources, Nature, and their limitations.

### **UNIT-III**

Regression Analysis: Regression analysis involving upto two explanatory variables; specification of single equation model; ordinary least square estimators and its properties.

### **UNIT-IV**

Significance tests of estimates and confidence intervals.

Time series analysis: Linear and non-linear trends (different type of growth curves)

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**Note 2:** For end term examination, the examiner is required to set nine questions in all. The first question will be compulsory consisting of seven short-answer questions (2 marks each) covering the entire syllabus. In addition, eight more questions will be set unit-wise comprising two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit including the compulsory question.

All questions carry equal marks.

- Chiang A.C. (1984), *Fundamental Methods of Mathematical Economics*, McGraw Hill Book Company, New York.
- Gujrati D.N. (1995), *Basic Econometrics*, McGraw Hill Book Company, New York.
- Gupta S.C. (2007), *Fundamental of Statistics*
- Hadley G. (1961), *Linear Algebra*, Addison Wesley, Reading, Mass USA.
- Moser S.C. and Kalton G. (1986), *Survey Methods in Social Investigation*, Gower Publishing Company, Hants, England.

**Ph. D. (Economics)**  
**PHECO-C-702 Logic and Scientific Approaches in Economics**

Max. Marks: 100  
External Examination: 70  
Internal Assessment: 30  
Time: 3 Hours

**UNIT-I**

Proposition: Definition; Logical relation between categorical proposition; quality, quantity and distribution; The traditional square of opposition; Symbolism and diagrams for categorical propositions.

Syllogism: Definition, rules for testing validity of categorical syllogism; Venn diagram technique for testing syllogism.

**UNIT-II**

Fallacies: Meaning; fallacies of relevance; fallacies of ambiguity.

Hypothesis and Scientific Method: Characteristics & stages of scientific method, self-corrective nature of science; The value of science; scientific and unscientific explanation; evaluation of scientific explanation; elements of scientific method.

**UNIT-III**

Empiricist Approach: Mill's Methods of Scientific Explanation. Hypothetics – Deductive Model of Scientific Explanation. Covering Law of Model of Explanation; Symmetry Thesis.

**UNIT-IV**

Methodology of Science: Views of Kuhn; Popper and Lakatos

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- Blaug, Mark (1980), "The Methodology of Economics, Cambridge.
- Copi, I.M. and Carl Cohen (1990), "Introduction to Logic" Macmillan Publishing Company.
- Cohen, M.R. and E. Nagel (1984), "An introduction to Logic and Scientific Method" Allied Publishers.
- Caldwell, B.J. (1994), "Beyond Positivism", Routledge.
- Friedman, M. (1953), "An Essay in Positive Economics:", University of Chicago Press.
- Hutchison, T.W. (1938), "The Significance and Basic Postulates of Economic Theory", London Macmillan.
- Kuhn, T. (1970), "The Structure of Scientific Revolutions", University of Chicago Press.
- Lakatos, I. (1978), "The Methodology of Scientific Research Programmes", Worrall and Currie (eds), Cambridge University Press.
- Popper, K. (1965), "Conjectures and Refutations The Growth of Scientific Knowledge", New York.
- Robbins, L. (1935), "An Essay on the Nature and Significance of economic Science" 2<sup>nd</sup> edition (London; Macmillan).
- Samuelson, P. (1965), "Foundations of Economic Analysis", 2<sup>nd</sup> edition, New York.

## **PHECO-E-701 Development Theory and Programmes of Rural Development**

Max. Marks: 100  
External Examination: 70  
Internal Assessment: 30  
Time: 3 Hours

### **UNIT-I**

The Study of Economic Development, The development gap and the measurement of poverty, Why growth rate differs between countries?

Dualism, Centre - periphery models and the process of cumulative causation.

### **UNIT-II**

Challenges of development in developing countries, Sustainable and inclusive growth and the choice of techniques.

Foreign assistance, debt and development.

### **UNIT-III**

MGNERGA, Mission Antyodya, National Rurban Mission (NRum)

### **UNIT-IV**

Din Dyal Antyodya Yojna, Pradhan Mantri Gram Sadak Yojna , Pradhan Mantri Awaas Yojna (Gramin), National Social Assistance Programme

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### **References**

Amin, S. (1974), *Accumulation on a World Scale: A Critique of the theory of Underdevelopment*, (New York: Monthly Review Press).

- Bardhan, P. (1993), “Economics of Development and the Development of Economics”, *Journal of Economic Perspectives*, Spring.
- Ghose, A. K. (2004), “Global Inequality and International Trade”, *Cambridge Journal of Economics*, March.
- Little, I.M.D. (1982), *Economic Development: Theory, Policies and International Relations*, (New York, basic Books).
- Thirwall, A. P. (2007), *Growth and Development with Special Reference to Developing Countries*, 8<sup>nd</sup> Edition, Palgrave Mac millan, New York.
- Thirwall, A. P. (2007), *Growth and Development with Special Reference to Developing Countries*, 8<sup>nd</sup> Edition, Palgrave Mac millan, New York.

## **PHECO-E-702 Agricultural Development & Policy**

Max. Marks: 100  
External Examination: 70  
Internal Assessment: 30  
Time: 3 Hours

### **UNIT-I**

Models and Theories of Agricultural Development: Theories of Agricultural Development - Schulzian Thesis of transforming agriculture, Mellor's Theory, Boserup's theory, Resource mobilization from the agriculture sector.

### **UNIT-II**

Issues and policies: Land issues and policy, corporate land grabbing, policies regarding seed, fertilizer, insecticides-pesticides, irrigation & water, and farm mechanization, food problems, food security and PDS

### **UNIT-III**

Agriculture credit policy and problems, policy of agriculture taxation, agriculture labour, subsidies and impacts on agriculture, agricultural marketing, public procurement vs. private procurement

### **UNIT-IV**

Trading Policies: Objectives, constraints and instruments in national food and agriculture policy, Agricultural policies in new frame work of economic policies, WTO and Indian agriculture

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### **References**

A.E.A., *Readings in the Economics of Agriculture* George Allen & Unwin Ltd., London. Chadha G.K. WTO and Indian Economics Deep & Deep Pub., New Delhi.



Heady,E.O., *Agricultural Policy under Economic Development*, Iowa State University Press,  
Ames,Iowa

Islam, Nurul(ed.), *Agricultural Policy in Developing Countries*, MacMillan New Delhi

Lekhi R.K. and Joginder Singh, *Agricultural Economics*, Kalyani Publishers Ludhiana, New Delhi.

South Wealth, H.M. and B. F. Johnston(ed.), *Agricultural Development and Economic Growth*,  
Cornell Univ. Press, Ithica, N.Y.

Soni, R.N., *Leading issues in Agricultural Economics*, Vishal Publishing Co., New Delhi.

Relevant papers Articles (last ten years)

- a) Economic & Political weekly
- b) Indian Journal of Agril. Economics
- c) Indian Journal of Agril. Marketing
- d) The Indian Economic Journal
- e) Productivity

## **PHECO-E-703 International Economics**

Max. Marks: 100  
External Examination: 70  
Internal Assessment: 30  
Time: 3 Hours

### **UNIT - I**

Theory of International Trade: The Specific Factors Model, the Heckscher-Ohlin Model, and Standard Trade Model. Trade in Services.

### **UNIT - II**

New Theories of Trade: Market Structure, Product Differentiation, Economies of Scale and Imperfect Competition. Trade and Geography.

### **UNIT - III**

Foreign Exchange Rates and Markets: Determinants of Exchange Rates; Portfolio-Balance Approach; An Asset Approach; Sluggish Price and Overshooting Exchange Rate Model. Money, Interest and Exchange Rates Relationship.

### **UNIT - IV**

International Trade Policy: Tariff and Non-Tariff Barriers; New Protectionism; Import Quotas, International Cartels, Dumping, Export Subsidies. The Political Economy of Protection and Strategic Trade Policy.

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## References

- Sodersten, Bo and Geoffrey Reed, (1994). *International Economics*, Third Edition, Macmillan Press Ltd.
- Feenstra, R. C. (2007). *Advanced International Trade*, Princeton University Press.
- Helpman H. and Paul Krugman (1989). *Trade Policy and Market Structure*, MIT Press.
- Bhagwati J. N., A. Panagariya and T. N. Srinivasan (2003). *Lectures on International Trade*, 2nd Edition, Oxford University Press, New Delhi.
- Stiglitz, Joseph E. and Andrew Charlton (2005). *Fair Trade for All: How Trade can Promote Development*, Oxford University Press, New York.
- Singh, Nirvikar and Sugata Marjit (2003). *Joint Ventures, International Investment, and Technology Transfer*, Oxford University Press, New Delhi.
- Krugman, Paul R. and Maurice Obstfeld (2002). *International Economics: Theory and Policy*, 6th Edition, Addison-Wesley,.
- Ethier, W. J. (1995). *Modern International Economics*, Norton and Company.