

DEPARTMENT OF ECONOMICS  
KURUKSHETRA UNIVERSITY KURUKSHETRA

**PH.D ECONOMICS COURSE WORK**  
Scheme and syllabi of Examination w.e.f. 2022-23

Paper-I	Research Methodology	4 Credit	100 marks
Paper-II:	Advances in Economic Theory and Policy	4 Credit	100 marks
Paper –III:		4 Credit	100 marks
Paper –III will comprise of the following two components:			
1.	Research & Publication ethics:	2 Credit	( 50 Marks)
2.	Seminar in thrust area/Research Assignment/Literature/ Survey, etc.	2 Credit	( 50 Marks)

**Ph.D. Course work (Economics)**

**Paper-I Research Methodology**

**Total Credit- 4**

**Max. Marks: 100**

**Time:3 Hrs.**

**Note:** Two questions will be set from each unit and the students will be required to attempt one question from each unit.

**Unit-I**

**Conceptual Foundations of research**

Economics: Inductive or Deductive Science; Methodological or Epistemological Issues in Social Research; The Scientific Approach; Conceptual Foundations of research- Concepts, Definitions, Theory , Models; Elements of Research- Research problem, Unit of Analysis, Variables, Relations, Hypothesis

***Reading List***

- *Economic Methodology A historical introduction by Harro Maas Ch.1*
- *Research Methodology for Social Sciences by Rajat Acharyya and Nandan Bhattacharya, Ch.1*
- *Research Methods in Social Sciences, by Chava Frankfort-Nachmias, David Nachmias and Jack DeWaard Chs. 1,2,3*

**Unit- II**

**Research Design**

Experimental Research Design: Classic Experimental Research Design; Causal Inferences; Components of Research Design; Design Types; Cross Sectional and Quasi Experimental Research Designs; Measurement: The Process of Measurement; Levels of Measurement; Validity and Reliability; Literature Review and Critical Reading

***Reading List***

- *Research Methods in Social Sciences, by Chava Frankfort-Nachmias, David Nachmias and Jack DeWaard Chs. 5,6,7*
- *Research Methods for Graduate Business and Social Science Students by John Adams, Hafiz T.A. Khan, Robert Raeside and David White Ch.4*

### **Unit-III**

#### **Sampling**

Sampling and Sampling Designs; Data Collection: Observational Methods, Survey Research, Questionnaire Construction- Content, Types, Format, Sequence, Pitfalls and their removal; Probability Distributions; Index Construction; Scaling Methods

#### ***Reading List***

- *Research Methods in Social Sciences, by Chava Frankfort-Nachmias, David Nachmias and Jack DeWaard, Chs. 8,9,10,11,12, 18*

### **Unit – IV**

#### **Data Analysis**

The Strategy Of Testing Hypotheses- Parametric and Non-Parametric Tests; Linear Regression with Multiple Variables; Estimation problem; Introduction to Multivariate Analysis; Factor, Cluster and Discriminant analysis; Communicating Research Results- Structure, Presentation, Bibliography, Foot Notes and Annexure

#### ***Reading List***

- *Research Methods in Social Sciences, by Chava Frankfort-Nachmias, David Nachmias and Jack DeWaard, Ch. 19*
- *Business Research Methods by Zikmund, Babin, Carr, Griffin Ch. 25*
- *Basic Econometrics by D. Gujarati*
- *A Guide to Research Methodology- An Overview of Research Problems, Tasks and Methods by Shyama Prasad Mukherjee ch.9*

## **Paper-II: Advances in Economic Theory and Policy**

**Total Credit- 4**  
**Max. Marks: 100**  
**Time:3 Hrs.**

**Note:** Two questions will be set from each unit and the students will be required to attempt one question from each unit.

### **UNIT- I**

#### **Advances in Microeconomic Theory**

Economics of Information; Inter-temporal Choice-Intertemporal production; Introduction to Behavioural Economics

#### **Advances in Macroeconomic Theory**

Relative Efficiency of Fiscal and Monetary Policies in an IS-LM Model; Rational Expectations and Theory of Macro Economic Policy: Lucas, Sargent and Wallace; The New Classical Critique of Micro Foundations and its Policy Implications

#### **Reading List**

- *Blanchard, O., 'Macroeconomics', 4 th Edition, Prentice Hall.*
- *Erol D'Souza.(2012), 'Macroeconomics', Pearson Education.*
- *Romer, D., (2001), 'Advanced Macroeconomics', 2nd edition, McGraw-Hill.*
- *Henderson, M. and R.E. Quandt, 'Microeconomic Theory: Mathematical Approach', McGraw Hill.*
- *Pindyck, R.S., Rubinfeld, D.L. and Mehta, P.L., (2015), 'Microeconomics', 8th edition, Prentice*
- *Hall. Varian, Hall R. (1992), 'Microeconomic Analysis' 3 rd edition, W.W. Norton & Company, New York.*

### **UNIT – II**

#### **Advances in Economic growth and Development**

History of Thought in Development Economics; Endogenous Economic Growth; Human Capital: Education and Health; Population and Development; Money, Finance and Growth; Trade and Growth; Political Economy of Growth

#### **Contemporary Issues in Indian Economy**

Poverty, Income Distribution and Justice; Migration and Demographic Transition; Land Reforms in India and their impact on Agrarian Structure; The New Economic Policy and Indian Agriculture; Nature and Problems of Rural Development in India ; Indian Industry and Structural Changes; Rural poverty alleviation and employment programmes

## **Reading List**

- Rao, Hanumantha, C.H., *Technological Change and Distribution of Gains in Indian Agriculture*, 1980.
- Ahluwalia, I.J., *Industrialisation Growth in Indian Stagnation since Mid 60's 1985*.
- Kapila, Uma (ed.) *Indian Economy Since Independence*, 1993.
- Dholkia, B.H., *Sources of Economic Growth*, 1974.
- Jalan, Bimal (ed.), *The Indian Economy Problems and Prospects*, 1975.
- Brahamanda, P.R. and Panchmukhi, V.R. (ed.) *The Development Process of the Indian Economy*, Himalaya Publishing House, Bombay, 1987.
- Dantwala, M.L., *Indian Agriculture Development since Independence*, Oxford, IBH Pub. Co., New Delhi, 1991.
- Raj Kapila and Uma Kapila, *India's Economy in the 21st Century*, 2002.
- Chelliah, R.J., (1996), 'Towards Sustainable Growth: Essays in Fiscal and Financial Sector Reforms in India', Oxford University Press.
- Ray, D., (2013), 'Development Economics', Oxford University Press.
- Todaro, M.P. and Smith, S.C., 'Economic Development', 8th edition, Pearson.
- De Janvry, A., & Sadoulet, E. (2015). *Development economics: Theory and practice*. Routledge.
- Setterfield, M. (Ed.). (2010). *Handbook of alternative theories of economic growth*. Cheltenham: Edward Elgar.

## **UNIT – III**

### **Advances in Public Economics**

Private and public provision of public goods; Developments in theory of taxation- Effects, Efficiency, Optimality; Public Choice Theory- Contributions of Bowen, Black, Buchanan, Tullock, Arrow, Tiebout, Clarke, Anthony Downs, Niskanen

### **Advances in Natural Resource Economics and Sustainable Development**

Environmental Valuation; Issues in resource economics; Environment and Development debate; Integrated environmental and economic accounting and the measurement of environmentally corrected GDP; Social forestry — rationale and benefits; Climate Change Mitigation and Coping strategies.

## **Reading List**

- Hillman, A. L. (2009). *Public Finance and Public Policy*. Cambridge University Press.
- Leach, John (2004). *A Course in Public Economics*. Cambridge University Press.
- Boadway, R. (1984). *Public Sector Economics*. Cambridge Winthrop Publishers.

- *Ihori, Toshihiro (2016). Principles of Public Finance. Springer.*
- *Jha, Raghendra (1998). Modern Public Economics. Routledge.*
- *Hanley, N., Shogren, J. F., & White, B. (2016). Environmental economics: in theory and practice. Macmillan international higher education.*
- *Field, B. C. (1994). Environmental economics: an introduction. McGraw-Hill Book Company (UK) Ltd.*
- *Kolstad, C. (2011). Intermediate environmental economics: International edition. OUP Catalogue.*

## UNIT – IV

### **Recent Developments in Trade Theory**

Post–Heckscher-Ohlin Theories of Trade and Intra-Industry Trade; International Factor Movements; International Trade and the Developing Countries; International Financial Markets and Instruments; The International Monetary System: Past, Present, and Future

### **Recent Developments in Financial Economics**

Hedging strategies with financial markets: forward, futures and options; Arbitrage and risk neutral pricing; The Greeks and hedging schemes; Exotic Options and hedging issues

### ***Reading List***

- *Salvatore, D., and Reed, (2013), 'International Economics' 11th edition, Wiley.*
- *Krugman, R., and Obstfeld, M., (2013), 'International Economics: Theory and Policy', Pearson Education.*
- *Appleyard, D. R. (2010). International economics. New York: McGraw-Hill/Irwin.*
- *Hull, J. C. (2014), Options, Futures and other derivatives, Pearson, 9th Ed.*
- *Hull, J. C. and White, A. (2006), Hull-White on Derivatives: A compilation of articles, Risk Books*
- *Janakiraman, S. (2011), Derivatives and Risk Management, Pearson, 1st Ed*
- *Kolb, Robert (1996). Financial Derivatives. John Wiley & Sons, USA.*

**Paper-III: Research and Publication Ethics (RPE)**

**Total Credit- 2**

**Max. Marks: 50**

**Time:1  $\frac{1}{2}$  Hrs.**

**Instruction for paper Setter:** 50 Multiple Choice Questions will be set. All questions are compulsory and of equal marks.

**Note:** Attempt all 50 questions. Each carry one mark.

**UNIT-I**

RPE 01: Philosophy and Ethics (4 hrs)

1. Introduction to Philosophy: definition, nature and scope, concept, branches
2. Ethics: Definition, moral philosophy, nature of moral judgments and reactions.

RPE 02: Scientific Conduct (4 hrs)

1. Ethics with respect to science and research
2. Intellectual honesty and research integrity
3. Scientific misconducts: Falsification, Fabrication and Plagiarism (FFP)
4. Redundant publications: duplicate and overlapping publications, salami slicing
5. Selective reporting and misrepresentation of data

**UNIT-II**

RPE 03: Publication Ethics (7 hrs)

1. Publication ethics: definition, introduction and importance
2. Best practices/standards setting initiatives and guidelines: COPE, WAME etc.
3. Conflicts of interest
4. Publication misconduct: Definition, concept, problems that lead to unethical behavior and vice versa, types
5. Violation of publication ethics, authorship and contributorship
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals

**UNIT-III**

**Practice :**

RPE 04: Open Access Publishing (4hrs)

1. Open access publications and initiatives
2. SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies

3. Software tool to identify predatory publications developed by SPPU: UGC-CARE list of journals
4. Journal finder/journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.

RPE05: Publication Misconduct (4 hrs)

1. Group discussions (2 hrs)
2. Subject specific ethical issues, FFP, authorship
3. Conflicts of interest
4. Complaints and appeals: examples and fraud from India and abroad

#### UNIT-IV

Software tools (2 hrs)

Use of reference management software like Mendeley, Zotero etc. and anti-plagiarism software like Turnitin, Urkund

RPE 06: Databases and research metrics (7 hrs)

1. Databases (4hrs)
2. Indexing databases
3. Citation databases: Web of Science, Scopus etc.
4. Research Metrics (3hrs)
5. Impact factor of journal as per Journal Citation Report, SNIP, SJR, IPP, CiteScore
6. Metrics: h-index, g-index, i-10 index, altmetrics