

DEPARTMENT OF ECONOMICS

Ph.D. (Economics)

Scheme and instruction for Ph.D. (Economics) examination effective from the academic year 2020-21

The structure of the course work is as under:

- There will be total four compulsory papers in course work for research programme.
- Each paper will have a weight of 4 credits.

Papers						
Course Code	Course Title	Number of Credits	L*	P*	T*	Internal Marks + External Marks =Marks:100 (Total Credit:4)
ECOC-1	Research Methodology	4 Credits	3	1	0	30+70=100 (Total Credit:4)
ECOC-2	Review of Literature	4 Credits	3	1	0	30+70=100 (Total Credit:4)
ECOC-3	Advances in Economic Theory	4 Credits	3	1	0	30+70=100 (Total Credit:4)
ECOC-4	Research Publication and ethics	4 Credits	3	1	0	30+70=100 (Total Credit:4)

L* LECTURE, P* PRACTICAL, T* TUTORIALS

Paper:- ECOC-1: Research Methodology

Total Marks: 100 (Total Credit: 4)

External Marks:70

Time : 03 Hours

Internal Marks :30

Objective: To equip the scholars with the research methodological aspects of conducting a research especially in the field of Economics.

Unit I: Understanding Research

Introduction to Research, Philosophical Foundation in Research- Epistemology, Positivism, Empiricism and Interpretivism, Types of Research, Steps in Research Process, Selection of Issues of Research in Social Sciences with Special Reference to Economics.

Unit II: Sampling and Survey Data

Sampling and Survey Data: Population and sample, Census Enquiry and Sampling, Purposive and non-Purposive Sampling, Sample Size, Sampling Procedure: SRS (WR and WOR), Stratified, Systematic, Repeated Systematic, Cluster and Multi Stage cluster, Quota Sampling and Sequential Sampling, Sample Weights and Choice of Sampling Design.

Indian Statistical System: CSO, NSSO etc.

Unit III: Applied Econometrics

Dynamic Econometrics Model; Distributed lag Models; Autoregressive Models ; Instrumental Variable estimation; Simultaneous equations models ; Panel data fixed effects model; Random effects model.

Unit IV: Research Results Reporting, Referencing Techniques and Plagiarism

Report Writing, Types of Research Reports, Structure of a Research Report, Presentation of Tabular Data and Figures.

Preparing Bibliography, Foot Notes and Annexure etc.

Recent updated American Psychological Association (APA7) and Harvard Style of Reference Writing.

Note: The examiner is required to set nine questions in all. The first question will be compulsory consisting of seven short questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each unit. The students will be

required to attempt five questions in all selecting one question from each unit in addition to compulsory Question No.1. All questions shall carry equal marks.

Suggested Readings:

1. Anderson, Sweeny and Williams (2014); *Statistics for Business and Economics*, 7th ed., Cengage Learning.
2. Carroll, Jude (2010); *A Handbook for Deterring Plagiarism in Higher Education*, Oxford Centre for Staff and Learning Development.
3. Cvetkovic, Vibiana Bowman (2010); *Stop Plagiarism: A Guide to Understanding and Prevention*, Neal-Schuman Publishers.
4. Diana Ridley (2008); *The Literature Review: A Step by Step guide for Students*, Sage Publication.
5. Donald R Cooper, Pamela S Schindler & J K Sharma (2013); *Business Research Methods*, 11th ed., McgrawHill.
6. Enders, A. (2014); *Applied Econometric Time Series*, 3rd ed, Wiley.
7. Greene, W.H. (2012); *Econometric Analysis*, 7th ed., Pearson Education Inc.
8. Gujarati, D; Porter, D. C. & Gunasekar, S. (2015); *Basic Econometrics*, MacgrawHill.
9. J Jonker, & B J W Pennink (2009); *The Essence of Research Methodology*, Springer Publishing Company.
10. Kate Turbrian; *A Manual for Writers of Research Papers, Theses and Dissertation*, University of Chicago.
11. Maddala and Lahiri (2011); *Introduction to Econometrics*, 4th ed., Wiley
12. Nicholas Walliman (2011); *Research Methods: The Basics*; Routledge..
13. *The Little Book of Plagiarism: What it is and how to avoid it*; University of Sterling,
(website: <http://www.stir.ac.uk/media/services/registry/quality/BookofPlagiarism.pdf>)
14. Uma Sekaran and Roger Bougie (2016); *Business Research Methods for Business: A Skill-Building Approach*, 6th ed., Wiley.
15. William G Zigmund, Berry J. Bubbin, Jon C Carr & Mitch Griffin (2013); *Business Research Methods*; 9th ed., Cengage Learning.

Paper:- ECOC-2: Review of Literature

Total Marks: 100(Total Credit: 4)

External Marks:70

Time : 03 Hours

Internal Marks :30

Internal Marks on the basis of critical understanding of review of literature for given topic by Supervisor is **70**

Seminar on critical understanding of review of literature on given topic for **External Assessment Marks is 30**

Time Period for Review of Literature will be decided by supervisor

Objective: Students would be given exercises in review of literature from various fields of economics and then would be required to submit reports in a prescribed format duly covering the objectives, methodologies and main results of the studies reviewed. The report would be prepared under the supervision of a teacher from the department and submitted after his/her formal approval.

Paper:- ECOC-3: Advances in Economic Theory

Total Marks: 100(Total Credit: 4)

External Marks:70

Time : 03 Hours

Internal Marks :30

Objective: To develop the scholars to understand and identify recent economic theories and policy developments.

Unit 1: Advances in Microeconomic Theory

Economics of Information –Informational Assymetries, Principal-Agent Framework, Moral Hazard, Hidden Action Modeling, Adverse Selection in Markets, Efficiency wage model. Inter-temporal Choice-Inter- temporal production-Introduction to chaos theory.

Unit 2: Advances in Macroeconomic Theory

Endogenous Growth Theories, Convergence and Divergence in growth, Macroeconomic policies- fiscal policy, monetary policy and other measures.

Unit 3: Global Economy

Structural transformation (economic activity and employment) theory and evidences: Intra and inter- national scenario: World Bank Group, WTO and Regional Grouping. Recent development in global trade and investment.

Unit 4: Contemporary Issues of Indian Economies

Productivity and diversification issues in Indian Agriculture, Issues of modernization of Indian manufacturing sector: Transformation of Service sector in India: Recent development in Federal Finances in India.

Note: The examiner is required to set nine questions in all. The first question will be compulsory consisting of seven short questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each unit. The students will be

required to attempt five questions in all selecting one question from each unit in addition to compulsory Question No.1. All questions shall carry equal marks.

Suggested Readings:

Advances in Microeconomic Theory

1. Henderson, M. and R.E. Quandt, '*Microeconomic Theory: Mathematical Approach*', McGraw Hill.
2. Pindyck, R.S., Rubinfeld, D.L. and Mehta, P.L., (2015), '*Microeconomics*', 8th edition, PrenticeHall.
3. Varian, Hall R. (1992), '*Microeconomic Analysis*' 3rd edition, W.W. Norton & Company, NewYork.

Advances in Macroeconomic Theory

1. Blanchard, O., '*Macroeconomics*', 4th Edition, PrenticeHall.
2. Erol D'Souza.(2012), '*Macroeconomics*', Pearson Education.
3. Romer, D., (2001), '*Advanced Macroeconomics*', 2nd edition, McGraw-Hill.

Contemporary Issues of Economies

1. Dev, S. Mahendra, Babu, P.G. (2016), '*Development in India Micro and Macro Perspectives*', Springer.
2. Dutt and Sundharam, '*Indian Economy*', 65th edition, S.Chand.
3. Ghosh, Madhusudan (2013), '*Liberalization, Growth and Regional Disparities in India*', Springer.
4. Government of India, Ministry of Finance, "Economic Survey (latest Issue).
5. Government of India, Ministry of Finance, "Finance Commission Report (latest Issue).
6. Kapila, U. (2015), '*Indian Economy since Independence*', Academic Foundation.
7. Kapila, U. (2015), '*Indian Economy: Performance and Policies*', 16th edition, Academic Foundation.
8. Krueger A. (2003), '*Economic Policy Reforms and the Indian Economy*', Oxford University Press.
9. Mishra & Puri, (2015), '*Indian Economy*', Himalaya Publishing House.
10. Nayak, Golder and Aggarwal, (2011), '*India's Economy and Growth Essays in Honour of V K R V Rao*' Sage India.
11. Rangarajan, C., (2004), '*Select Essays on Indian Economy*', Vol.1&2, Academic Foundation.
12. Timothy Besley (2016), '*Contemporary Issues in Development Economics*', Palgrave Macmillan.
13. Venkateswar, Sita, Bandyopadhyay, Sekhar (2016), '*Globalisation and the Challenges of Development in Contemporary India*', Springer.

Paper:- ECOC-4: Research Publication and ethics

Total Marks: 100(Total Credit: 4)

External Marks:70

Time : 03 Hours

Internal Marks :30

Objective: This course has total 4 units focusing on basics of philosophy of science and ethics, research integrity, publication ethics. Hands-on-sessions are designed to identify research misconduct and predatory publications. Indexing and citation databases, open access publications, research metrics (citations, h-index, Impact Factor, etc.) and plagiarism tools will be introduced in this course.

Unit-1

• **Philosophy And Ethics**

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

• **Scientific Conduct**

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 over lapping publications, salamislicing
5. Selective reporting and misrepresentation of data

Unit-2

• **Publication Ethics (7hrs.)**

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 behaviour 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

PRACTICE

Unit-3

- **Open Access Publishing**
 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
 4. Journal finder / journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.

- **Publication misconduct**

- A. Group Discussions**

1. Subject specific ethical issues, FFP, authorship
2. Conflicts of interest
3. Complaints and appeals: examples and fraud from India and abroad

- B. Software tools**

Use of plagiarism software like Turnitin, Urkund and other open source software tools

Unit-4

- **Data Bases And Research Metrics**

- A. Databases**

1. Indexing data bases
2. Citation data bases: Web of Science, Scopus, etc.

- B. Research Metrics**

1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, CiteScore
2. Metrics: h-index, g-index, i10index, altmetrics

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Suggested Readings:

1. Bird, A. (2006). *Philosophy of science*. Routledge.
2. MacIntyre, Alasdair (1967) *A Short History of Ethics*. London.
3. P. Chaddah, (2018) *Ethics in Competitive Research: Don't get scooped; don't get plagiarized*, ISBN: 978-9387480865
4. National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). *On Being*
5. *a Scientist. 'A Guide to Responsible Conduct in Research: Third Edition'*. National Academies Press.
6. Resnik, D. B. (2011). What is ethics in research & why is it important. *National Institute of Environmental Health Sciences*, 1-10. Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>
- Beall, J. (2012). Predatory publishers are coming open access. *Nature*, 489(7415), 179—179. <https://doi.org/10.1038/489179a>
7. Indian National Science Academy (INSA), *Ethics in Science Education, Research and Governance* (2019), ISBN: 978-81-939482-1-7. <http://www.insaindiares.in/pdf/EthicsBook.pdf>