

INTRODUCTION

The entire Ph.D coursework syllabus is spread over one semester, consisting of a total of 12 credits and framed in accordance with the latest Ph.D. ordinance of the Indira Gandhi University, Meerpur-Rewari. The evaluation pattern for both internal as well as external examinations is as per University Regulations.

**Programme Structure and Scheme of Examination
Ph.D. Course Work in Economics w.e.f. 2025-26**

Course Code	Nomenclature of the Course	Credits	Marks Distribution (Theory+ Internal Assessment)
25L8.0-ECO-101	Research Methodology	4	100 (70 Theory+30 Internal Assessment)
Subject Elective Course			
25L8.0-ECO-102 (A)	Econometrics	4	100 (70 Theory+30 Internal Assessment)
25L8.0-ECO-102 (B)	Methodology of Science and Appraisal of Economic Theory	4	100 (70 Theory+30 Internal Assessment)
25L8.0-ECO-102 (C)	Selected Issues on Indian Economy	4	100 (70 Theory+30 Internal Assessment)
25L8.0-RPE-103	Research and Publications Ethics	2	50 (40 Theory + 10 Internal Assessment)
25L8.0-ECO-104	Review of Literature and Seminar*	2	50 Marks (Internal)
Total Credits in Ph.D. Coursework		12	

*Students must review 15-20 research papers in their area of interest. Seminar in the thrust area/Research Assignment/Literature/Survey, etc., will be evaluated by DRC. In case of a dispute, the Chairperson's decision shall be final.

DRC can also recommend UGC recognized online courses (40%) as part of the credit requirements for the Ph.D. program, like MOOCs/NPTEL.

Note: The students are required to choose one elective course from the pool of the above-mentioned subjective elective courses.

Instructions for the paper-setter and candidates:

The question paper shall be divided into two sections. **Section A** shall comprise five short-answer type questions from the syllabus, carrying two marks each, which shall be compulsory. **Section B** shall comprise eight questions, having two questions from each unit and 15 marks each. The examiner may split the questions into parts (if required) and assign the marks accordingly. The students will be required to attempt four questions, selecting one from each unit. All questions will carry equal marks. The medium of instruction and examination shall be English and Hindi.

Note:

- The Courses carrying 30 marks of internal assessment shall comprise one written test (10 marks), one written assignment (10 marks), and one presentation (10 marks). The internal assessment for Research and Publication Ethics shall comprise one written assignment of 10 marks.
- Records must be maintained for at least six months after the declaration of the result.
- The syllabus and scheme of examination for the course Research and Publications Ethics will be followed and implemented in accordance with the instructions at the University level.

INDIRA GANDHI UNIVERSITY MEERPUR-REWARI

(A State University Established under State Legislature Act 29 of 2013)



DEPARTMENT OF ECONOMICS FACULTY OF SOCIAL SCIENCES

Syllabi and Scheme of Examination for Ph.D. Coursework (Economics) in accordance with the latest Ph.D. ordinance and w.e.f. the academic session 2025-26


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PH.D. COURSE WORK (ECONOMICS)
RESEARCH METHODOLOGY IN ECONOMICS
COURSE CODE: 25L8.0-ECO-101

Maximum Marks: 100
Time: 3 Hrs.

Theory Marks: 70
Internal Assessment Marks: 30
Total Credits: 04

The question paper shall be divided into two sections. **Section A** shall comprise five short-answer type questions from the syllabus, carrying two marks each, which shall be compulsory. **Section B** shall comprise eight questions, having two questions from each unit and 15 marks each. The examiner may split the questions into parts (if required) and assign the marks accordingly. The students will be required to attempt four questions, selecting one from each unit. All questions will carry equal marks.

Course Objectives

1. To introduce the nature and basic theoretical system of the methodology of Economics
2. The objective of this course is to enhance the knowledge of the students with the methodological aspects of conducting research, especially in the field of Economics.
3. To apprise the students of the advances in the field of Research Methodology
4. To develop research methodological skills for undertaking research in social sciences in general and in a discipline in particular.
5. To understand the various secondary sources of economic research
6. To teach doctoral students to explore and study in the economic research area and to prepare them to write the Ph.D. thesis.

Unit-I

Introduction: Fundamentals of research methodology; The relation between theory and research; Scientific and social research; Nature, special features and different approaches of social science research; Classification of Research: pure, applied, exploratory, descriptive and explanatory; Approaches to research: quantitative, qualitative and mixed

Unit-II

Research Design: Formulation of research problem; research hypotheses; research design and methods, features of a good research design; different research designs; experimental survey: basic principles of experimental design. Review of literature & its purposes; Literature search procedure; sources of literature review.

Unit-III

Collection of Data: methods and techniques; data collection through questionnaires and schedules; Pilot Survey; field survey methodology; measurement scale in social science research; Sample size determination - sample design and sampling techniques; the case study method of research. Secondary data sources & their limitations; precautions in the use of secondary data; coverage of secondary data available from NSO, NFHS, ASI, PLFS.

Unit-IV

Data Analysis, Interpretation and Report Writing: Writing the research thesis; MS Excel in the presentation of data, report writing & data visualisation; Ways of effective PowerPoint presentation; Style of Referencing: APA, MLA and other styles; footnote & endnote; Application of MS Word in referencing, Online citation using Mendeley.


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Learning outcomes

On completion of this course, the PhD students will be able to:

1. Clarity about the fundamental methodology of social science research.
2. To provide students with preliminary concepts and training to conduct experiments in economics
3. Understand some basic concepts of research and its methodologies, and be able to identify a research problem stated in a study.
4. It enables the students to distinguish a purpose statement, a research question or hypothesis, and research objectives.
5. Help the student to select a comprehensive research approach and frame research design, observation tools and enable them to do analysis, interpretation and report writing.

Suggested Readings

- Babbie, Earl. R. (2013). *The Practice of Social Research*, Cengage Learning, Canada.
- Blaug, Mark (1994). "The Methodology of Economics." Cambridge University Press, Cambridge.
- Creswell, J.W. and Creswell, J.D. (2017). *Research design: Qualitative, quantitative, and mixed methods approaches*. Sage Publications.
- Daniel M. Hausman (2007). *The Philosophy of Economics: An Anthology*, Cambridge University Press, Cambridge.
- Friedman, Daniel and Sunder Shyam (1994). *Experimental Methods: A Primer for Economists*, Cambridge University Press.
- Goode, J. William and Hatt K. Paul. (1952). *Methods in Social Research*, McGraw-Hill Publishers, New York.
- Gupta, Santosh. 2003. "Research Methodology and Statistical Techniques." Deep and Deep Publications, New Delhi.
- John W. Creswell (2014). *Research Design: Qualitative, Quantitative and Mixed Methods Approaches*, Sage Publications, Washington, USA.
- Kate L. Turabian. (2006). *A Manual for Writers of Term Papers, Theses and Dissertations*, The University of Chicago Press, Chicago.
- Kothari, C. R. (2023). *Research Methodology*, New Age International Publishers.
- Laljain, Gobal. (1998). *Research Methodology: Methods, Tools and Techniques*, Mangal Deep Publications, Jaipur.
- Misra R.P. (1988). *Research Methodology: A Handbook*, Concept Publishers, New Delhi.
- Mukherji, Partha Nath (2000). *Methodology in Social Research*, Sage Publications, New Delhi.
- Sekaran, U. and Bougie, R. (2016). *Research Methods for Business: A Skill-Building Approach*, John Wiley & Sons.
- Thakur, Devendra (2003). *Research Methodology in Social Science*, Deep and Deep Publications, New Delhi.
- Wilkinson, Bhandarkar (2003). *Methodology and Techniques of Social Research*, Himalaya Publishing House, Bombay.
- Young, Pauline V. (1994). *Scientific Social Survey Surveys and Research*, New Delhi, Prentice Hall of India Private Limited.


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**PH.D. COURSE WORK (ECONOMICS)
ECONOMETRICS
COURSE CODE: 25L8.0-ECO-102 (A)**

Maximum Marks: 100

Time: 3 Hrs.

Theory Marks: 70

Internal Assessment Marks: 30

Total Credits: 04

The question paper shall be divided into two sections. **Section A** shall comprise five short-answer type questions from the syllabus, carrying two marks each, which shall be compulsory. **Section B** shall comprise eight questions, having two questions from each unit and 15 marks each. The examiner may split the questions into parts (if required) and assign the marks accordingly. The students will be required to attempt four questions, selecting one from each unit. All questions will carry equal marks.

Course Objectives

1. To provide and improve the knowledge among the PhD students with the methodological as well as empirical aspects of econometrics
2. To help the PhD students develop a way of thinking of economic relationships in quantitative terms
3. To understand the econometric relationships for meaningful research in economics.
4. To equip the students with the basic theory of econometrics and relevant applications of the methods.
5. To enable the students to use econometrics tools and methods in the research

Unit-I

Definition, Scope and methodology of Econometrics, Simple and Multiple Linear Regression Model and its estimation procedure, Properties of estimators, Gauss-Markov Theorem, Goodness of fit, test of hypothesis and confidence intervals.

Unit-II

Violation of assumptions: Meaning, Consequences, detection and remedial measures of Multicollinearity, Heteroscedasticity, and Autocorrelation. Specification bias.

Unit-III

Functional Forms: Non-Linear Models and Transformation of Variables. Dummy Variable Regression Models, Limited Dependent and Qualitative Variable Models.
Simultaneous Equation Models: Nature and Consequences of Simultaneous Equations, Identification Problem.

Unit-IV

Time Series models: Distributed lag models, Test of Stationarity, Forecasting AR, MA and ARIMA processes,
Co-integration, Time-series Estimation Models. Introduction to Panel Data: Meaning & Structure, Advantages and issues involved in using Panel Data.

Learning outcomes

On completion of this course, the PhD students will be able to:

1. Enhance their understanding and knowledge of econometrics and its applications
2. Students should be able to use econometrics to estimate an econometric model
3. Use various econometric tools and techniques in research.
4. Will enhance their capacity to use, study and interpret regression results in their research work
5. Based on the econometric analysis, they will be in a better position to give more robust policy alternatives

Suggested Readings

- D.N. Gujarati and D.C. Porter, Essentials of Econometrics, 4th Edition, McGraw-Hill International Edition, 2010
- Woolridge, J.M. (2019), Introductory Econometrics: A Modern Approach, 7th Edition, Cengage Learning.
- James H. Stock and Mark W. Watson (2019). Introduction to Econometrics, Fourth Edition, Pearson.
- Damodar Gujarati, Econometrics by Example, 2nd Edition, Palgrave Macmillan, 2014.
- Maddala, G.S. and Kajal Lahiri, Introduction to Econometrics, 4th Edition, Wiley Publication, 2009.
- A. Koutsoyiannis, Theory of Econometrics, 2nd Edition, Palgrave, 2001
- Greene, W.H., Econometrics Analysis, 8th Edition, Pearson, 2018.
- K.L. Krishna, Econometric Application in India, Oxford University Press, 1997


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PH.D. COURSE WORK (ECONOMICS)
METHODOLOGY OF SCIENCE AND APPRAISAL OF ECONOMIC THEORY
COURSE CODE: 25L8.0-ECO-102 (B)

Maximum Marks: 100
Time: 3 Hrs.

Theory Marks: 70
Internal Assessment Marks: 30
Total Credits: 04

The question paper shall be divided into two sections. **Section A** shall comprise five short-answer type questions from the syllabus, carrying two marks each, which shall be compulsory. **Section B** shall comprise eight questions, having two questions from each unit and 15 marks each. The examiner may split the questions into parts (if required) and assign the marks accordingly. The students will be required to attempt four questions, selecting one from each unit. All questions will carry equal marks.

Course Objectives

1. To elaborate and analyse the methodology of science and the history of economic methodology
2. To analyse the views of various economists on the methodology of economics
3. To critically appraise the methodological aspects of the Neo-Classical Research Programme in the micro framework
4. To critically appraise the methodological aspects of the Neo-Classical Research Programme in the macro framework

Unit-I

Methodology of Science: Views of Kuhn, Popper and Lakatos, Economics- inductive or deductive science? History of economic methodology,

Unit-II

Views of Friedman, Samuelson, Robbins and Hutchison on Methodology of Economics

Unit-III

Methodological Appraisal of Neo-Classical Research Programme in Term of Growth of Knowledge Approach: Theory of Consumer's Behaviour; Theory of Firm, General equilibrium theory, Marginal productivity theory

Unit-IV

Methodological Approach of Neo-Classical Research Programme: Heckscher-Ohlin theory of international trade, Keynesian versus Monetarist; Human Capital Theory

Learning outcomes

On completion of this course, the PhD students will be able to:

1. Understand and analyse the methodology of science
2. Enhance the knowledge methodology of economics propounded by various scholars
3. Critically appraise the methodological aspects of the Neo-Classical Research Programme in the micro framework and also interpret the theories
4. Critically appraise the methodological aspects of the Neo-Classical Research Programme in macro framework, also interpret the theories



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Suggested Readings

- Blaug, Mark (1980), "The Methodology of Economics", Cambridge.
- 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" 2nd edition (London; Macmillan).


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**PH.D. COURSE WORK (ECONOMICS)
SELECTED ISSUES IN INDIAN ECONOMY
COURSE CODE: 25L8.0-ECO-102 (C)**

Maximum Marks: 100

Time: 3 Hrs.

Theory Marks: 70

Internal Assessment Marks: 30

Total

Credits:04

The question paper shall be divided into two sections. **Section A** shall comprise five short-answer type questions from the syllabus, carrying two marks each, which shall be compulsory. **Section B** shall comprise eight questions, having two questions from each unit and 15 marks each. The examiner may split the questions into parts (if required) and assign the marks accordingly. The students will be required to attempt four questions, selecting one from each unit. All questions will carry equal marks.

Course Objectives

1. To elaborate and analyse the relationship between the past and present context of the economy
2. To critically evaluate the policies adopted in various sectors of the economy
3. To understand the latest trends of the economy and policy debates
4. To enhance the comprehensive understanding of the Indian economy in domestic and global perspectives

Unit I

Role of ancient Indian economic thought in understanding modern Indian economy, Indian economy during colonial era, Debate on economic planning, its implementation and contemporary issues; Measurement and policy debate on poverty; Hunger and Malnutrition in India; social sector development and emerging issues; Status of Human Development across Indian States; Indian Perspectives on Sustainable Development Goals

Unit- II

Debate on agricultural development in India; Issues in food Security and agricultural sustainability in India; Farmers Producers Organization in India-trends, achievements and policy issues; Current state of food inflation; Policy options for making Indian agriculture more resilient; Global trade issues and Indian agriculture

Unit- III

India's public finance and fiscal reforms- issues, fiscal consolidation and debates; State of capital and money markets and new polices; Digitalisation and financial sector in India; Changing face of Indian Banking; Issues in financial inclusion and microfinance

Unit- IV

Policies and challenges in Indian industrial sector; Challenges in MSME sector; Unorganised sector and informal economy; Emerging issues in Indian service sector; Gig economy and its emerging patterns; India's foreign trade and currency related issues, India's emergence in world economy and new challenges

Learning outcomes

On completion of this course, the PhD students will be able to:

1. To provide a detailed analysis on the ancient thought and modern polices on the economy
2. Understand the impact of policies adopted in various sectors of the economy
3. To provide new policy insights for the economy and it polices
4. Comprehend the economic Scenario in domestic and global perspectives

Suggested Readings

- Aggarwal, Archana (2012), India's Services Sector: Gateway to Development, Economic and Political Weekly, Vol. XLVII (26, 27)
- Anand, Rahul et.al. (2013), The fiscal and welfare impact of reforming fuel subsidies in India, IMF working paper 13/128
- Backhouse, R.E. (2004), The Ordinary Business of Life: A History of Economics from the Ancient World to the Twenty-First Century, Princeton University Press.
- Dandekar and Nilakantha Rath, Poverty in India, Indian School of Political Economy, Pune, 1971.
- Dasgupta, A.K. (1993), A History of Indian Economic Thought. Routledge.
- Deodhar, Satish Y. (2018), Indian Antecedents to Modern Economic Thought, Working paper 2018- 01-02, Indian Institute of Management, Ahmedabad, India.
- Dev, S. Mahendra (2015), India Development Report, Oxford University Press, New Delhi
- Gautam, Madhur (2016), Making Indian agriculture more resilient, Economic and political Weekly, Vol 51 (8)
- Goyal, Ashima (2014), The Oxford Handbook of Indian Economy in the 21st century, OUP
- Kannan, K.P (2015), Interrogating inclusive growth, Rutledge India
- Kapila, Uma (2015), Indian economy since independence, Academic Foundation, New Delhi
- Majumdar, Ashima and Saundariya Borbora (2013), Social Security System and the Informal Sector in India: A Review, Economic and Political Weekly, Vol. XLVIII (42)
- Narayanan, Sudha and Nicholas Gerber (2015), Social safety nets for food and nutritional security in India, Indira Gandhi Institute of Development Research, Mumbai, Working Paper No 2015/031
- Nayar, Gaurav (2014), Service sector in India's Development, Cambridge University Press
- Patnaik, Prabhat (2013), A Critique of the Welfare-Theoretic Basis of the Measurement of Poverty, Economic and Political Weekly, Vol XLVII (14)
- Prakash, B.A (2011), The Indian economy since 1991: Economic reforms and performance, Pearson, New Delhi
- Rangrajan, C and S.Mahendra Dev (2014), Counting the poor: Measurement and other issues, Working Paper No 2014/048, Indira Gandhi Institute of Development Research, Mumbai
- Ray and Gosh (2015), Reflections on India's emergence in the world economy, CDS working paper no 461
- Reddy A Amarender (2015), Growth, Structural Change and Wage Rates in Rural India , Economic and Political Weekly, Vol (2)
- Roy, Satyaki (2016), Faltering Manufacturing Growth and Employment Is 'Making' the Answer?, Economic and Political Weekly, Vol. LI (13)
- Teki, S and R.K.Mishra (2012), Microfinance and Financial Inclusion, Academic Foundation, New Delhi
- Uma Kapida (ed), Indian Economy Since Independence, Academic Foundation, New Delhi 2004.

V.K.S

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PH.D. COURSE WORK (ECONOMICS)
RESEARCH AND PUBLICATION ETHICS
COURSE CODE: 25L8.0-RPE-103

Maximum Marks: 50
Time: 3 Hrs.

Theory Marks: 40
Internal Assessment Marks: 10
Total Credits:02

Instructions for the paper setter: The examiner will set eight questions in all, covering the whole syllabus. Each question will consist of 08 marks. The students shall be asked to attempt a total of five questions in all.

Course Objectives

1. To promote and encourage ethical research and publishing.
2. To develop an understanding of publication ethics and best practices
3. To build awareness about open access publishing and responsible journal selection
4. To enhance practical skills for identifying and preventing publication misconduct
5. To introduce research databases and the evaluation of metrics

Unit- I

RPE 01: PHILOSOPHY AND ETHICS: Introduction to Philosophy: definition, nature and scope, concept, branches; Ethics: definition, moral philosophy. nature of moral judgement and reaction.

Unit- II

RPE 02: SCIENTIFIC CONDUCT: Ethics with respect to science and research; Intellectual honesty and research integrity; Scientific misconducts: Falsification, Fabrication and Plagiarism (FPP); Redundant publications: duplicate and overlapping publications, salami slicing; Selective reporting and misrepresentation of data

Unit- III

RPE 03: PUBLICATIUN ETHICS: Publication ethics: definition, introduction and importance; Best practices/ standard setting initiatives and guidelines: COPE, WAME, etc. Conflicts of interest; Publication misconduct: Definition, concept, problems that lead to unethical behaviour and vice versa, types; Violation and publication ethics, authorship and contributorship; identification of publication misconduct, complaints and appeals; Predatory publishers and journals

Unit- IV

RPE 04: OPEN ACCESS PUBLISHING: Open access publications and initiatives; SHERPA-ROMEIO online resource to check publisher copyright & self-archiving policies; Software tool for identifying predatory publications developed by SPPU; Journals Finder/journals suggestion tools, viz, JANE, Elsevier Journals Finder, Springer Journals Suggester, etc.

Unit- V

RPE 05: PUBLICATION MISCONDUCT

A. Group Discussions (2hrs.)

Subject-specific ethical issues, FFP, authorship; Conflicts of interest; Complaints and appeals: examples and fraud from India and abroad

B. Software tools (1hr.)

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

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Unit- VI

RPE 06: DATABASE AND RESEARCH METRICS

A. Database (4hrs.)

Indexing databases; Citation databases: Web of Science, Scopus, etc.

B. Research Metrics (3hrs.)

Impact factor of the journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score
Metrics: h-index, g-index, i-10 index, altmetrics

Learning Outcomes

1. At the end of the course, the students will have an awareness about understanding the philosophy of science and ethics, research integrity and publication Ethics.
2. To identify research misconduct and predatory publications.
3. To understand indexing and citation databases, open access publications, research metrics (Citations, h-index, Impact Factor, etc.).
4. To understand the usage of various plagiarism tools.

Suggested Readings

- Nicolas H. Steneck. Introduction to the Responsible Conduct of Research Office of Research Integrity, 2007. Available at: <https://ori.hhs.gov/sites/default/files/2018-04/rcrintro.pdf>
- The student's Guide to Research Ethics by Paul Oliver Open University Press, 2003.
- Responsible Conduct of Research by Adil E. Shamoo; David B. Resnik Oxford University Press, 2003.
- Ethics in Science Education, Research and Governance Edited by Kambadur Muralidhar
- Amit Ghosh Ashok Kumar Singhvi. Indian National Science Academy, 2019, ISBN: 978-81-939482-1-7. https://www.insaindia.res.in/pdf/Ethics_Book.pdf
- Anderson B.H., Dursaton, and Poole M.: Thesis and assignment writing. Wiley Eastern 1997.
- Bijomn Gustavii; How to write and illustrate scientific papers? Cambridge University Press.
- Bordens K_S. and Abbott, B.b. Research Design and Methods, Me Graw Hill, 2008
- Graziano, A.. M., and Raulin, M.L. Research Methods - A process of Inquiry. Sixth Edition, Pearson, 2007.
- Bird, A. (2006). Philosophy of Science. Routledge
- Macintyre, Alasdair (1967) A Short History of Ethics. London.
- P. Chaddah, (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized, ISBN: 978-9387480865
- National Academy of Sciences, National Academy of Engineering and Institute of Medicine (2009), On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition. National Academies Press.
- 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). (2012), Predatory publishers are corrupting open access. Nature, 489(7415). 179-179. <https://doi.org/10.1038/489179a>

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**PH.D. COURSE WORK (ECONOMICS)
REVIEW OF LITERATURE AND
SEMINAR
COURSE CODE: 25L8.0-ECO-104**

Maximum Marks: 50

Total Credits: 02

Students must review 15-20 research papers in their area of interest. Seminar in the thrust area/Research Assignment/Literature/Survey, etc, will be evaluated by DRC. In case of a dispute, the Chairperson's decision shall be final.


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