

SYLLABUS OF Ph.D. COURSEWORK



DEPARTMENT OF EDUCATION
KAZI NAZRUL UNIVERSITY
ASANSOL, WEST BENGAL, INDIA

Syllabus for Ph.D. Course Work

Course PHDEDCC101: Advanced Research Methodology in Education

Marks: 100

Learning Outcomes:

After going through the course the students will be able to

- know various methods of educational research.
- carry out review of related literature
- know the process of data collection in educational research
- acquire competencies for analyzing the collected data in educational research
- Write the report of the research work

Unit – I: Introduction to Educational Research:

1. **Educational Research:** Concept, Understanding, Objectives, and Ethics
2. **Research Method:** Experimental, Descriptive, Historical, Analytical, Survey, Normative – Survey.
3. **Research Problems:** Identification, Formulation and Statement.
4. **Research Question:** Hypotheses, and Variables – Concepts and types.

Unit – II: Review of Related Studies and Methodology:

1. **Review of Related Studies:** Needs, Significance and Procedure.
2. **Sample and Sampling:** Population, Sample and Methods of Sampling (Probability and Non-probability), Sampling Design.
3. **Tools and Techniques of Research:** Process of Construction, Estimation of Reliability and Validity and Administration of Tools.

Unit – III: Analysis of Data: Quantitative and Qualitative Method

1. **Research Design:** Types and Implications
2. **Descriptive Statistics** – Different Approaches.
3. **Inferential Statistics** – Different Approaches.

4. **Correlation Statistics** – Different Approaches.
5. **Factor Analysis** – Different Approaches.
6. **Logical and Descriptive Analysis.**

Unit – IV: Research Report:

1. Writing of Research Proposal.
2. Writing of Research Report.
3. Reference Style.
4. Bibliography Style.
5. Appendices.

Note: Subject related to Research and Publication Ethics (RPE) is discussed and included as the part of research methodology.

Suggested Readings

- Aggarwal, Y.P. (1998).***Statistical Methods*, New Delhi: Sterling Publishers Pvt. Ltd.
- Anfara, Vincent & Mertz Norma T. (2006).***Theoretical Frameworks in Qualitative Research*. SAGE Publication.
- Best J.W. and Kahn, J. V. (2006).***Research in Education*, 9th Ed. New Delhi: Pearson Education Inc.
- Borg, W.R. and Gall, M.D. (1983).***Educational Research – An Introduction*, New York, Longman, Inc.
- Creswell, J.W. (2002).***Educational Research Planning, Conducting and Evaluating Quantitative and Qualitative Research*. New Jersey: Merrill Prentice Hall.
- Creswell, J. W. (2007).***Qualitative Inquiry and Research Design: Choosing Among Five Approaches*. SAGE Publication.
- Denzin, N.K. and Lincoln, Y.S. (eds.) (1994).***Handbook of Qualitative Research*, Thousands Oaks, CA: Sage.
- Elhance, D.N. (1975).***Practical Problems in Statistics*. Allahabad: Kitab Mahal.
- Ellis, L. (1994).***Research Methods in Social Sciences*. Madison: Brown and Benchmark.
- Ferguson, G. A. (1959).***Statistical Analysis in Psychology and Education*, New York: McGraw-Hill Book Company.
- Garrett, H.E. (1981).***Statistic in Psychology and Education*, Bombay Vakils Feffer and Simons Ltd., India.
- Grbich, Carol (2006).***Qualitative Data Analysis: An Introduction*. SAGE Publication.
- Gupta, S. P. (1996).***Statistical Methods*, New Delhi: Sultan Chand & Sons.
- Hadin. C. (1987).***Research Design: Strategies and Choices in the Design of Social Research*. London: Allen and Unwin.
- Hamburg, M. (1979).***Basic Statistics: A Modern Approach*, (2nd Ed.). New York: Harcourt Brace.
- Healey, J.F. (2002).***Statistics: Tool for Social Research*, (6th ed.), Australia: Wadsworth.
- Johnson, P.O (1961).***Statistical Methods in Research*, New Jersey: Prentice Hall.
- Kaul, L. (1984).***Methodology of Educational Research*, New Delhi: Vikas Publications.
- Keevis, J. (1988).***Educational Research Methodology: An International Handbook*, Oxford: Pergamon.

- Kendall, G.M. (1982).***Dictionary of Statistical Terms*, London: Longman,
- Kerlinger, Fred N. (1973).***Foundation of Behavioural Research*, New York: Rinehart Winston.
- Kish, L (1967).***Survey Sampling*, New York: John Wiley.
- Korin, B.P. (1977).***Introduction to Statistical Methods*, Cambridge: Intrhrop Pub.
- Kothari, C.R. (1990).***Research Methodology: Methods and Techniques* (2nd Ed.). New Delhi: Vishwa Prakashan.
- Kurtz, A. K. (1980).***Statistical Methods in Education and Psychology*. New Delhi: Narosa Publication.
- Mangal, S.K. (2008).***Statistics in Education and Psychology*. New Delhi: Prentice-Hall of India Private Limited
- McCall, R. B. (1970).***Fundamental Statistics for Psychology*, New York: Harcourt Brace Jovanovich, Inc.
- Mertens, D. M. (1998).***Research Methods in Education and Psychology - Integrating Diversity with Quantitative & Qualitative Approaches*. New Delhi: Sage.
- Moser, C.A. (1958).***Survey Methods in Social Investigation*, London: Heimann Education Book Ltd.
- Salkind, N.J. (2006).***Exploring Research* (Sixth Edition) NJ: Pearson Prentice Hall.

Course PHDEDCC102 Application of Computer in Educational Research

Marks: 100

Learning Outcomes:

After going through the course the students will be able to

- Acquire fundamental knowledge of computers, its accessories, hardware and software.
- Find out the authentic sources of information related to educational research.
- Use software applications for data analysis in educational research.
- Use software applications for writing the thesis.

Unit – I: Basic Knowledge of Computer:

1. Concept of Components of Computer (Hardware & Software).
2. Basic Knowledge of Computer Operation.
3. Basic Knowledge of Computer Application in Educational Research.

Unit – II: Internet Exploration:

1. Browsing Internet and E-mailing.
2. Internet Resources for Research Papers and Thesis.
3. Evaluating Internet Resources: Authority, Accuracy and Objectivity.

4. UGC-infonet, INFLIBNET and ERNET.

Unit – III: Formatting and Analysis of Data:

1. Creating Spreadsheet and Datasheet, Need of Spreadsheet, Creating, Opening & Saving Workbook, Editing Worksheet.
2. Introduction to Data Analysis Software Packages.
3. Data Analysis through Computer.

Unit – IV: Practical

1. Use of Computer Programming in Educational Research –
Practical works on – the preparation of papers articles monographs etc.

Suggested Readings

Babola, D. T. (1998). *Microsoft World*. New Delhi: Prentice Hall of India Pvt. Ltd.

Basandra, S. K. (2001). *Computers Today*. New Delhi: Galgotia Publishers Pvt. Ltd.

Diwan, P. (2001). *Information System Management*. New Delhi: Pentagon Press.

Dixit, M. (2003). *Internet an Introduction*. New Delhi: Tata McGraw- Hill Publishing Company Ltd.

Norton, P. (1999). *Introduction to Computers* (3rd Ed.). Glencoe, New York, Woodland Hills, California, Peoria, Illinois: McGraw-Hill.

Course PHDEDCC201 Review of Related Studies

Marks: 100 (60 for Report & 40 for Viva)

(Report on the Review of Related Studies, Published or Unpublished Thesis Papers, Published Research Papers, Books on Published Research Studies, etc.)

- Report to be prepared on the Review of Related Research Studies (Published or Unpublished Thesis Papers, Published Research Papers, Books on Published Research Studies, etc.).

Course PHDEDCC202 Advanced Area of Education (Elective)

Marks: 100 (80 Theory + 20 Internal)

*Theoretical Discussion – Concepts, Theories, Propositions and Modern Trends

(Four to be selected for each year)

- 1 Philosophical Thoughts and Ideas and its new paradigm
- 2 Psychology of instruction and learning
- 3 A developmental theories of learning
- 4 A motivational theories of learning
- 5 Contemporary problems and issues in education
- 6 Modern trends of teacher education
- 7 History of primary, secondary, higher and teacher education
- 8 Modern trends of educational technology

- 9 Inclusive education
- 10 Analysis of teaching models
- 11 Needs and approaches of guidance and counseling
- 12 Curriculum studies – recent changes
- 13 Language education, different approaches and theories
- 14 Mathematics education, such as anxiety and phobia in mathematics
- 15 Progress, problems and prospects of SSA
- 16 Education for all
- 17 Science education, outreach programme
- 18 Book review and report on the review of studies
- 19 Problems of women education
- 20 Education for backward children
- 21 Education for minority girls
- 22 Problems of abnormal children
- 23 Lifestyle education
- 24 Education for humanity
- 25 Problems in primary, secondary and higher education
- 26 Comparative education
- 27 Education under different social systems
etc

*Note: Questions of Theory Paper to be set from each Topic with equal weightage.
