Institute of Education and Research Faculty of Education University of the Punjab, Lahore



| Program | Bachelor of Education (B.Ed.) | | | | |
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| Course Title: Research in Educatio | | tion | Course Type: Major Course of Education | | |
| Course Code: MCEd-304 | | Credit Hours: 3 | | Duration: 16 Weeks | |
| Introduction | the study of of this cours designing, of this cours designing, of developing critically, are Equal attent attitude scal and subseque build up a statistical to can be made Extensive of locating information in the electronic seconds. | This course is an introduction to educational research and methods used in the study of educational settings and institutions. One of the major purposes of this course is to familiarize students with basic methods and techniques for designing, conducting, and analysing research in education. Emphasis is on developing appropriate and researchable questions, reviewing the literature critically, and planning cogent research. Equal attention will be paid to the process of instrument development (e.g. attitude scale, questionnaire) so that valid and reliable data can be produced and subsequently analysed. The second major purpose of this course is to build up a solid knowledge base on which selection of an appropriate statistical tool from a variety of parametric and non-parametric procedures can be made. Extensive emphasis will be placed on using the most modern tools for locating information resources and for communicating and sharing research knowledge with fellow student's and other professionals. Thus tools such as e-mail, the Internet, the World Wide Web. Electronic data base, and electronic search engines are integral part of this course. | | | |
| Learning Objectives | Under research Iden Iden Iden State Revi Form Descreses Developed Defi Ana Use inform Developed | erstand a arch. tify and outify and outify and ements. iew and emulate an oribe tech arch designed eation; ne and did the Intermational elop a reserved. | discuss the major types discuss the major types discuss the conceptualize reservaluate relevant literated state the hypotheses; aniques related to samings. collection instruments discuss the concept of valinterpret statistical data | rtance and use of educational of research methodologies; earch question and problem are; pling, statistical analysis, and commonly used in research in | |

Course Content 1. Introduction to educational research 1.1 Meaning and definition of educational research 1.2 The scientific method 1.3 Purposes and features of research 1.4 Application of the scientific methods in education 2. Types of research 2.1 Basic verses applied research 2.2 Historical research 2.3 Descriptive research 2.4 Correlational research 2.5 Causal comparative research 2.6 Experimental research 2.7 Action research 2.8 Qualitative and quantitative research 3. Research problem 3.1 Selection 3.2 Sources 3.3 Characteristics/criteria 3.4 Statement 4. Review of related literature 4.1 Definition, purpose, and scope 4.2 Preparation 4.3 Sources 4.4 Abstracting 4.5 Reporting 5. Research hypothesis or questions 5.1 Definition and purpose 5.2 Characteristics 5.3 Types of hypotheses 5.4 Stating the hypothesis/question 6. Sampling 6.1 Definition and purpose 6.2 Techniques of sampling 6.3 Probability sampling techniques 6.4 Random sampling 6.5 Stratified sampling 6.6 Cluster sampling 6.7 Systematic sampling 6.8 Non-probability sampling techniques 6.9 Convenience sampling

6.10 Purposive/judgmental sampling

6.11 Snowball sampling6.12 Quota sampling

| | 7. Research instruments |
|--------------|---|
| | 7.1 Purpose of research instruments |
| | 7.2 Characteristics of research instruments |
| | 7.3 Validity |
| | 7.4 Reliability |
| | 7.5 Usability |
| | 7.6 Construction of instruments |
| | |
| | 7.7 Questionnaire |
| | 7.8 Observation scale |
| | 7.9 Rating scale |
| | 7.10 Tests (and their types) |
| | 8. Research types (detail description) |
| | 8.1 Historical research |
| | 8.2 Descriptive research |
| | 8.3 Correlational research |
| | 8.4 Causal-comparative research |
| | 8.5 Experimental research |
| | 9. Collection and analysis of data |
| | 9.1 Data collection |
| | 9.2 Scoring, coding and tabulation of data |
| | 9.3 Data analysis |
| | 9.4 Interpretation of data |
| | 10. Statistics in education |
| | 10.1 Need of statistical analysis |
| | 10.2 Levels of measurement |
| | 10.3 Descriptive statistics |
| | 10.4 Inferential statistics |
| | 10.5 Parametric tests (t-test, f-test) |
| | 10.6 Non-parametric test (x ²) |
| | 11. Writing research proposal and report |
| | 11.1 General rules for writing and typing |
| | 11.2 Formal and style |
| | 11.3 Type of research reports |
| | 11.4 Theses and dissertations |
| | 11.5 Journals article |
| | 11.6 Papers read at professional meetings |
| Text Book(s) | Creswell, J. W. (2014). Research design: Quantitative, qualitative and |
| | mixed methods approaches. London: Sage Publications. |
| | Creswell, J. W. (2012). Research design: Planning, conducting, and |
| | evaluating Quantitative, qualitative research. London: Pearson. |
| | Fraenkel, J. R., Wallen, E. N., & Hyun, H. H. (2012). How to design and |
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| | New York: Pearson |
| | evaluate research in education. New York: McGraw-Hill. Gall, M. D., Gall, J. P., & Borg, W. R. (2003). Educational research: An introduction. New York: Pearson |

| | Gay, L.R. (2012). Educational research: competencies for analysis and application. New York: Macmillan Publishing Co. Johnson, B., & Christensen, L. (2012). Educational research: Quantitative, qualitative and mixed approaches. London: Sage Publications. |
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| Suggested | Anderson, G., & Arsenault, N. (1998). Fundamental of educational research |
| Reading | (2 nd ed). London: The Falmer Press. |
| | Abell, N., Springer, D. W., & Kamata, A. (2009). Developing and validating |
| | rapid assessment instrument. New York: Oxford University Press. |
| | Babbie, E. (2010, 2007). The practice of social research. Australia: |
| | Wadsworth Cengage Learning. |
| | Cohen, L., Manion, L., & Morrison, K. (2007). Research methods in |
| | education (5 th ed.). New York: Routledge. |
| | Colton, D., & Covert, R. W. (2007). Designing and constructing instruments |
| | for social research and evaluation. United State of America: Jhon |
| | Wiley & Sons, Inc. |
| | DeMarrais, K. & Lapan, S. D. (2004). Foundations for research methods of |
| | inquiry in education and social science. London: Lawrence Erlbaum |
| | Associates Publishers. |
| | Fink, A. (2014). Conducting research literature reviews: From the internet |
| | to paper. Los Angeles: Sage Publications. |
| | McCoach, B. D., Gable, R. K., & Madura, J. P. (2013). <i>Instrument</i> |
| | development in the affective domain: School and corporate |
| | Applications. New York: Springer. |
| | Neuman, W. L. (2015). Social research methods: Qualitative and |
| | quantitative approaches. New Dehli: Pearson. |
| | Ridley, D. (2012). The literature review: A step-by-step guide for students. |
| | Los Angeles: Sage Publications. |
| | Scott, D., & Usher, R. (2011). Researching education: Data, methods and |
| | theory in educational enquiry. London: Sage. |
| Teaching/Learning | Lecture |
| Strategies | Discussion |
| | Cooperative Learning |
| | Class activities |
| Evaluation | Applied Projects Assignment/Project/Presentation 25% |
| Criteria | Assignment/Project/Presentation 25% Mid Term 35% |
| Circula | Final Term 40% |