

COURSE DETAILS

Doctoral Degree

20905 Advanced Research Methodology

(6 credits)

Course Learning Outcomes: To enable students

1. Gain understanding and skills in using advanced research methodology.
2. Analyze data using both quantitative and qualitative methods.
3. Apply knowledge in advanced research methodology to conduct educational research.

Course Description

Advanced research methodology and educational research process focusing on interdisciplinary research, mixed methods research employing quantitative and qualitative methods, policy research, research design for testing interaction effects, causal relationship research, longitudinal research, evaluation research, future research, content analysis, qualitative data analysis, multivariate analysis, choosing appropriate statistics, quantitative and qualitative research synthesis, and research evaluation.

20997 Intensive Seminar on Doctoral Professional Experience in Education

(non-credit)

Course Learning Outcomes: To enable students

1. To be able to develop personality, leadership skills and problem solving ability.
2. To be able to enhance human relationship and work performance ability.
3. To have virtues, morality and professional codes of ethics.
4. To be able to develop analytical thinking, synthesize thinking and planning based on academic principles.
5. To be able to develop the skills for integration of academic knowledge theories for professional development and academic and professional leadership.

Course Description

The vision of educators; the analysis and management of educational system; self-development to have appropriate personality and good professional attitudes; the promotion and development of professional leadership; the enhancement of human relationship; the development of professional problem solving skills; and the promotion of virtues, morality and professional codes of ethics in education.

Remarks: There are evaluations of the Intensive Seminar on Doctoral Professional Experience in Education, but the evaluation results are not included in calculation of the cumulative credit hours

22995 Dissertation (Curriculum and Instruction)**(36 credits)****Course Learning Outcomes:** To enable students

1. To be able to search, review and analyze literature related to research problems in order to determine conceptual framework of research and prepare dissertation proposal.
2. To design and develop research instruments for collection of research data.
3. To design and undertake research data collection and research data analysis.
4. To prepare the research report and disseminate the research results.
5. To have virtues, morality and codes of ethics in research.

Course Description

The determination of educational problems and planning on educational research; the search, review and analysis of related literature in order to determine the conceptual framework of research for dissertation; the research design; the research sample determination; the design of measurement of variables; the development of research instruments; the design of data analysis; the establishment of research project concepts for dissertation; the construction of research instruments; the quality verification of research instruments; the data collection; the data analysis; the presentation of data analysis results; the research conclusion, discussion and recommendations; the preparation and presentation of articles for dissemination of research results; the compilation and presentation of a complete research report; the dissemination of dissertation work; and the possession of virtues, morality and codes of ethics in research.

24903 Psychometric Theory in Large Scale Assessment**(6 credits)****Course Learning Outcomes** Students are expected to:

1. Understand national and international large-scales assessment programs.
2. Understand psychometric theories related to measurement and assessment in large-scale assessments.
3. Be able to design large-scale assessment.
4. Apply knowledge in large-scale assessment to improve educational quality.

Course Description

National and international Large-scale assessments, designing large-scale assessment, psychometric theories applied to large-scale assessment, development and validation of large-scale assessment instruments, scaling and equating, differential item functioning assessment reports, computer programs for psychometric theories related to large-scale assessment, data analysis techniques for analyzing and reporting large-scale assessment data, applications of large-scale assessment results to improvement of educational quality.

24904 Seminar on Contemporary Issues in Educational Measurement and Evaluation

(6 credits)

Course Learning Outcomes Students are expected to:

1. Understand contemporary educational measurement and evaluation issues.
2. Understand contemporary educational measurement and evaluation contents.
3. Analyze and synthesize concepts, theories and principles of educational measurement and evaluation.

Course Description

Contemporary issues in educational measurement and evaluation, breakthroughs in educational measurement and evaluation, principles, concepts and theories of educational measurement and evaluation, analysis, synthesis and applications of contemporary knowledge to educational measurement and evaluation designs.

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