

COURSE DETAILS

Master's Degree

20505 Foundation of Teaching Profession

(6 credits)

Objectives

1. To acquire knowledge regarding philosophies, concepts, educational theories, culture and educational context.
2. To acquire knowledge regarding concepts and educational management strategies to enhance sustainable development.
3. To acquire knowledge regarding fundamental psychology, developmental psychology educational psychology to practically apply for learning management for learners.
4. To acquire knowledge regarding Thai and international educational management system, policies, educational development plan and quality assurance in education.
5. To enable analysis regarding tendency of Thai educational management for sustainable development.
6. To acquire knowledge and understanding of responsibility, workload, teacher's way of life, teacher profession and knowledge management regarding teaching profession.
7. To enable usage of English and Thai language for meaning communication and search of knowledge including culture for being a teacher and peaceful coexistence.
8. To enable usage of information technology for communication.
9. To enable quality provision regarding learning activity management and continually develop quality learning.
10. To enable activity provision to assess quality of learning activity management.

Course Description

Concepts, philosophies, educational theories and culture, educational context, concept and educational management strategies to enhance sustainable development, international educational management system, tendency of Thai educational management, policies and educational development plan, principles, concepts, guidelines regarding educational quality management, quality assurance in education, fundamental psychology, developmental psychology, and educational psychology.

Importance of teaching profession, development of teaching profession, responsibility, roles, workload, teacher's way of life and teacher profession, and knowledge management on teaching profession.

Teacher competency on usage of Thai and English language for meaning communication and search of knowledge including Thai culture for teacher profession and peaceful coexistence, usage of technology for communication.

20506 Curriculum Development and Instructional Media**(6 credits)*****Objectives***

1. To acquire knowledge of definition of curriculum, the kind of curriculum.
2. To acquire knowledge of curriculum theories, principles and concept in curriculum development; curriculum design, curriculum evaluation.
3. To acquire knowledge of curriculum implementation, curriculum administration, supervision instruction.
4. To analysis trend of curriculum design that involve the problem condition and the changing.
5. To analysis curriculum; curriculum development, including academic project; activities to develop learners, guidance and assistance services for learners.
6. To acquire knowledge guidance psychology and counsellor to support the potential of student learning.
7. To acquire knowledge of principle concept in media design and media evaluation.
8. To proceed the design and implementation include evaluate the media innovation technology information for learning.
9. To proceed using technology information for communication.

Course Description

Definition, importance .the kind of curriculum concept of curriculum theories, the pattern of curriculum development Principle and concept in curriculum development curriculum design involve the problem condition and the changing; curriculum synthesis; curriculum implementation; curriculum administration and instructional supervision; evaluation, improvement and curriculum development; using the evaluation to improve the curriculum; national curriculum and school curriculum subject curriculum; curriculum for specific groups; development of academic project; activities to develop learners; guidance and assistance services for learners; guidance psychology and counsellor; principle concept in innovation design; evaluation innovation.

20507 Learning Management Science**(6 credits)*****Objectives***

1. To acquire knowledge and understanding of learning psychology, learning theories, instructional theories, instructional systems, types of learning management, learning management in response to individual difference of learners;
2. To enable students to design learning patterns and management plan for the learner-centered learning;
3. To acquire skills necessary for organizing learning activities;
4. To enable students to produce, select and employ instructional media and innovation to enhance learning suitable with lessons;
5. To enable students to measure and evaluate learning outcomes with ability to make use of learning outcomes for further instructional development;

6. To enable students to provide learners with counseling services and classroom management;
7. To enable students to give advices and helps to learners and manage the classroom.

Course Description

Instructional psychology, learning theories, teaching theories, instructional system, inclusive learning, diversity of learning, learning management in response to individual difference and appropriate with learners ages, learning design and planning management for the learner-centered learning, skills necessary for organizing learning activities, production and development of instructional media and innovation for learning promotion, instructional operation according to learning management plan, measurement and evaluation of learning outcomes, application of evaluation results to classify learners' learning level and instructional development, application of psychological knowledge and knowledge concerned to assist learners and classroom management.

20508 Evaluation and Research for Instruction Development (6 credits)

Objectives

1. To acquire knowledge and understanding of concepts and key principles of educational measurement and evaluation;
2. To enable students to construct and use measurement and evaluation instrument in knowledge, skills and process as well as desired characteristics;
3. To enable students to evaluate results from practical part, from real situation and from portfolio;
4. To enable students to make use of evaluation results for learning and further curriculum development;
5. To acquire knowledge and understanding of concepts and key principles of educational research;
6. To enable students to synthesize educational research work;
7. To enable students to make use of research results for instructional development;
8. To enable students to conduct a research for instructional development;
9. To enable students to analyze data in accordance with the research problems;
10. To enable students to apply research findings for instructional.

Course Description

Concepts, principles and methods of educational measurement and evaluation, construction and application of measurement and evaluation instrument in knowledge, skills and process and desired characteristics, evaluation from practical part, real situation and from portfolio, judgment of learning outcomes and report of learning outcomes, application of evaluation results for curriculum improvement and development, instruction development, learning development, program evaluation development and development of activities organized for learners.

Fundamental knowledge regarding educational research, research design and writing a research project, research instrument and data collection, statistics for research, synthesis of research work, research in classroom and application of research process for solutions to instruction and learners development.

20509 Teachership

(6 credits)

Objectives

1. To acquire knowledge and understanding regarding teacher work conditions, cultivating the spirituality of teachers, ethics characteristics and professional standards of teachers, Including laws relating to teachers and the teaching profession.
2. To acquire knowledge regarding the characteristics of good teachers, management, classroom management, human relations in an organization, has leadership skills in social skills, communication and corporate culture, knowledge management to be a guideline for teacher professional development.
3. To enable students to apply professional knowledge in learning management practices regarding operational planning and problem solving in teaching and learning management.
4. To enable students to think systematically, think critically, synthesize, have the skills to search for knowledge, action planning solving learners problems, being a person of learning, knowledgeable in subject matter and teaching strategies for learners to create new ways.
5. To enable students to apply management knowledge, human relations, teamwork in teaching and learning management.
6. To enable students to have teacher qualifications, awareness of morality and ethics, ethics of the teaching profession, good governance, honesty, public consciousness and sacrifice for society.
7. To enable students to act as a good teacher role model, academic leadership and professional development of teachers.

Course Description

Teacher work conditions, cultivating the spirituality of teachers, personality development and characteristics of good teachers, human relations leadership, management, working with others, social skills, corporate culture, communication in organization, strengthening awareness of morality and ethics, ethics of the teaching profession, good governance, honesty, public consciousness and sacrifice for society, professional standards of teachers and laws relating to teachers and the teaching profession, development of good attitudes toward teaching profession, think systematically, think critically, synthesize, action planning solving learners problems, knowledge management regarding teaching profession, skills for knowledge acquisition, being a person of learning, academic leadership and professional development, including the ability to apply professional knowledge and management to develop skills and competency in learning management that is consistent with society and learners.

20596 Teacher Profession Practicum**(6 credits)*****Objectives***

The purpose of professional experience training consists of the purpose of professional practice while studying, the purpose of teaching practice in educational institutions, and the purpose of the intensive seminar, teacher professional experience training.

Course Description

Professional experience training consists of professional practice while studying, School Teaching Practices 1, School Teaching Practices 2, and Teacher Experience Seminar, that all for enhance professional teaching.

20597 Graduate Diploma Professional Experience in**Curriculum and Instruction****(6 credits)*****Objectives***

1. To acquire knowledge and understanding of teacher's code of conduct, standard criteria for teacher profession and laws related to education;
2. To acquire knowledge and understanding of management of organization culture, internal communication in organization and knowledge management;
3. To enable students to apply teaching profession knowledge to actual practice in learning management;
4. To possess good personality with teacher characteristics, awareness of morality, ethics and behave according to teaching professional code of conducts;
5. To acquire ability in system thinking with analyzing, synthesizing thought, work planning and solutions to instructional management;
6. To enable students to apply management, administration, human relations, team work knowledge to instructional management;
7. To possess leadership, learning individual, academic leadership and teaching profession development.

Course Description

Application of teaching profession knowledge and management in developing skills and learning competency in accord with society and learners context, personality development and good teacher characteristics, human relations, administration management, team work, social skills, organization culture, internal communication, promotion of awareness in morality, ethics and teaching professional code of conduct, standard criteria of teacher profession, educational laws, development of good attitudes toward teacher profession, system thinking, analytical thinking, operation planning, solving learners' problems, learning management, skills in search of knowledge, leadership, knowledge management, learning individual, academic leadership and development of teacher profession.

20794 Independent Study (Curriculum and Instruction)**(6 credits)*****Objectives***

1. Apply concepts, theories, and methods studied from various courses to conduct an independent study in the form of research, synthesis/analysis of research, academic written work, or educational innovation.
2. Design an independent study on the topic and type of study according to students' interest.
3. Write an independent study report.
4. Present and defend an independent study.
5. Consider ethical issues when conducting a study.

Course Description

Selecting an independent study problem, forming a topic and identifying type of research based on students' interest, namely research, synthesis/analysis of research, academic written work, and educational innovation. Reviewing concepts, theories, and methods from related literature; designing and carrying out the study according to the selected type of work; writing an independent study report, and presenting the study results, all of which are conducted in accordance with research ethics.

20795 Thesis (Curriculum and Instruction)**(12 credits)**

Objectives: Upon completion of the course, students should

1. To be able to select research problems for a thesis.
2. To be able to survey and analyze literature related to the thesis.
3. To be able to design research for the thesis.
4. To gain knowledge and skill in writing and presenting the thesis proposal.
5. To be able to develop quantitative research tools.
6. To be able to develop qualitative research tools.
7. To be able to collect, analyze, and present data for the thesis.
8. To be able to present and defend the thesis examination.
9. To be able to write the complete thesis report.
10. To be able to write the research report for publication.

Course Description

Selection of the research problem; survey and analysis of relevant literature; research design; writing and presenting a thesis proposal; tool development for thesis research, both quantitative and qualitative research; data collection; thesis data presentation; thesis presentation and examination defending; writing the complete thesis report; writing the research report for publication.

20796 Graduate Experiences in Curriculum and Instruction**(6 credit)*****Objectives***

1. To transfer knowledge and experience relating to learning experience management and school administrative management in actual situation for exchange of learning.
2. To acquire a proper personality and a good attitude towards educational studies profession.
3. To enable showing the behavior of being a professional education leader.
4. To acquire human relations and ability of team work.
5. To acquire skills in solving problems efficiently in educational studies profession.
6. To acquire professional problem solving skills Including promoting morality and ethics as a high-level professional.

Course Description

Analysis of curriculum, management of learning experience and school administrative management in actual situation, self-development for proper personality with good attitudes toward profession, promotion and development of human relations and team work, development of skills in solving professional problems, promotion of morality and ethics as being an individual in high-level profession.

21701 Research in Curriculum and Instruction**(6 credits)*****Objectives***

1. To enable students to analyze and synthesize concepts and theories of curriculum and instruction for research purposes.
2. To enable students to determine to research questions and set the scope and details of a research project.
3. To enable students to design and carry out a research project in the field of curriculum and instruction.
4. To enable students to analyze data in accordance with the research problems.
5. To enable students to apply research results in instructional development and in conducting further research.
6. With the ethics of researchers.

Course Description

The course covers the fundamentals of research in curriculum and instructional; defining a research problems; reviewing the literature; designing a research project, consisting of choosing the research population and sample, data collection methods, designing and testing the quality of data collection tools, descriptive statistics, inferential statistics to test differences and find relationships, and nonparametric statistics. Students will learn about the characteristics of descriptive research, experimental research, qualitative research, evaluation research, research projects, research reports, evaluation of research studies, dissemination of research studies, and application of research findings for instructional development.

22740 Principles and Concepts in Early Childhood Education**(6 credits)*****Objectives***

1. To explain, analyze, synthesize the educational philosophy, principles, concepts, theories and developmental psychology and learning and models in early childhood education management as well as to integrate universal principles to develop early childhood education management models suitable for Thai social conditions.
2. To apply the knowledge of early childhood education and related knowledge to use in providing experiences in accordance with the national policies and objectives in managing early childhood education effectively.
3. To explain, analyze, synthesize problems and various factors influential to early childhood education management, as well as find appropriate solutions.
4. To apply knowledge of innovation and technology in early childhood education as a tool for effective early childhood education management.
5. To explain and propose guidelines for child advocacy.
6. To propose guidelines for parents and communities to participate in early childhood education management.
7. To analyze, synthesize the concepts and principles of measurement and evaluation and use the research process for child development and provision of experiences at the early childhood education level.

Course Description

Early childhood education, educational philosophy, principles, concepts, evolution of early childhood education and the model of early childhood education management in Thailand and abroad, policies and objectives in early childhood education management, theories of developmental psychology and learning, problems, and factors influencing early childhood education management, innovation and technology in early childhood education, analysis of early childhood education model suitable for the Thai social context, child advocacy, parents and communities and early childhood education, assessment in early childhood education, basic concepts and scope of research in early childhood education, research related to learning of early childhood, innovation and technology, providing experiences in the early childhood education level, research to develop the potential of early childhood and providing experiences in early childhood education.

**22741 Seminar in Curriculum and Learning Management
in Early Childhood Education**
(6 credits)***Objectives***

1. To describe, analyze and synthesize curriculum theories, instruction theories, factors affecting curriculum development, curriculum design as well as learning management in early childhood education for applying in curriculum development and learning management in early childhood education.

2. To integrate international knowledge with innovation technology and local indigenous wisdom for curriculum development, application, evaluation, and improvement of early childhood education curriculum.
3. To analyze current circumstance and problems of early childhood education curriculum development, suggesting solution and develop appropriately with social and cultural context as well.
4. To have good leadership and followers, be a literate person, and apply new body of knowledge, innovation and technology for curriculum development and learning management in early childhood education.
5. To create network and cooperation with parents and communities to develop the quality of early childhood education.
6. To acquire, share points of view in key issues of curriculum development and learning management emerged in and out of the country.

Course Description

Curriculum theories and instruction theories, factors influential curriculum development and learning management in early childhood education, curriculum design and learning management in early childhood education, school curriculum implementation, innovation and technology used for learner's development and learning management in early childhood education, use of early childhood education curriculum for evaluation and curriculum improvement, integration of international knowledge with innovation, technology and local indigenous wisdom.

Academic seminar process regarding current environment, problems, trends including new body of knowledge, innovation in curriculum development and domestic and international learning management, analysis of components for learning management, classroom management, parental participation, development of leadership and network for learning exchange leading to educational quality in early childhood education both curriculum development and learning management in early childhood education.

22742 Management of Early Childhood Educational Institution

(6 credits)

Objectives

1. To explain, analyze, synthesize the principles and processes of management in early childhood educational institution.
2. To explain the necessary skills for administrators of early childhood educational institution and apply them appropriately to the circumstances.
3. To explain, analyze, synthesize missions in management of early childhood educational institution.
4. To propose guidelines for managing academic work and academic support work at the early childhood education level.
5. To apply appropriate innovation and technology in management of early childhood educational institution.

6. To propose guidelines for educational management for preschool children with special characteristics.
7. To behave according to professional ethics.

Course Description

Principles and processes in management of early childhood educational institution, necessary skills for administrators in early childhood educational institution, strategic planning, conflicts administration, information management and knowledge management, mission in management of early childhood educational institution, management of academic work and academic support work, innovation and technology for management of early childhood educational institution, educational management for preschool children with special characteristics, quality assurance, educational institution administrators and personnel development, morality and professional ethics of the early childhood educational institution administrators.

22744 Provision of Experience for Preschool Children

(6 credits)

Objectives

1. To explain scopes of provision of experience for preschool children development.
2. To explain and analyze development, learning, and behavior of preschool children.
3. To explain and apply principles and provision of experience methods for preschool children development.
4. To explain, analyze, and synthesize provision of experience on sufficiency economy philosophy and apply it for preschool children development.
5. To provide experiences and assess preschool children appropriately.

Course Description

Development, learning, and behaviors of preschool children; scopes of provision of experience for preschool children development; key factors influential over provision of experience for preschool children; principles and experience provision methods for preschool children development; provision of experience on sufficiency economy philosophy for preschool children; assessment of preschool children; roles of people involved with provision of experience for developing preschool children; provision of experience in physical, emotional, social, cognitive, language, science, mathematics, social studies, art, music and movement.

22745 Seminar in Curriculum and Instruction

(6 credits)

Objectives

1. To analyze and synthesize of curriculum theories, instruction theories and factors affecting curriculum development and ability to design curriculum and instructional activities with Efficiency.
2. To enable students to integrate international knowledge with innovation, technology and local indigenous wisdom for curriculum development, application and curriculum improvement.
3. To implement knowledge of curriculum and instruction for self-career development.

Course Description

Curriculum and Instruction theories, foundation and factors influential over Curriculum and Instruction development, Curriculum design, process for organizing Instructional activities, Curriculum implementation for educational institution, integration of international knowledge with innovation, technology and local indigenous wisdom, process for academic seminar regarding current circumstance problems and trends in curriculum and Instructional development, development of leadership and learning network leading to educational quality.

22746 Foundations and Methodologies of Thai Language Instruction (6 credits)***Objectives***

1. To develop curriculum for Thai subject in school.
2. To analyze language instruction theories, system management for Thai Language learning pattern and techniques in Thai language instruction for design learning and manage Thai language instruction.
3. To explain the different learning instruction for learners who have different needs.
4. To manage instruction by using media, innovation, technology, information, local wisdom and learning resources.
5. To design measurement and evaluation in Thai language instruction.
6. To research about Thai language instruction.
7. To analyze Thai teacher characteristic for self improvement.

Course Description

Curriculum development, language instruction theories, system management for language learning design of language learning ;pattern and technique in Thai language instruction management for special learners media innovation information technology local wisdom and learning resources, teaching Thai language as a second language learning measurement and evaluation methodologies of Thai language instruction.

22747 Development of Language Skills (6 credits)***Objectives***

1. To analyze development guidelines of teachers' language skills continuously.
2. To analyze development guidelines of learners' language skills continuously.
3. To organize instructional activities for improvement and development of learners' language skills.
4. To explain concept principle and design instrument for evaluation of language capacity.

Course Description

Nature of language and language usage for communication, psychological theories related to learning and teaching language, continued development of listening, viewing, speaking, reading and writing skills with efficiency, developing thinking skill for developing language skills instructional management for development of listening, viewing, speaking, reading and writing skills, development and evaluation of language capacity for communication.

22748 Folk Literature**(6 credits)*****Objectives***

1. To analyse characteristics, formats of folk literature.
2. To complain relationships of folk literature in localities of various regions as well as relationships with society.
3. To synthesize status of folk literature.
4. To recommend guidelines to preserve and promote folk literature.
5. To apply folk literature as media for learning and instruction.

Course Description

Definition and importance of folk literature, analysis of characteristic type and content of folk literature from different regions, relationships of regional folk literatures, relationships of folk literatures in regions, relationships of regional folk literatures with society and local indigenous wisdom, analysis study and comparative study of folk literature, study status of folk literature, guidelines to preserve and promote folk literature and application of folk literature for instructional media.

22749 Provision of Learning Experience in Thai Language**(6 credits)*****Objectives***

1. To analyze learning standards and Thai language knowledge as foundation for activity design and learning experience in Thai language.
2. To design instructional pattern and provision of learning experience in listening, viewing, reading, writing, principles of literature language usage.
3. To produce learning media that suitable for learners.

Course Description

Analysis of learning standards of Thai language, study of content and provision of learning experience in Thai language regarding listening, viewing, reading, writing, principles of literature language usage suitable for learners of each level, learning management to integrate learning content and production of learning media for learners.

22750 Foundations and Methodologies of Mathematics Instruction**(6 credits)*****Objectives***

1. To analyze philosophy, nature and structure of mathematics, learning psychology and essential contents of mathematics.
2. To analyze activity pattern for learning mathematics and design activity for learner-centered learning pattern that promote skills and mathematics process.
3. To apply measurement and evaluation in mathematics process for potential development of mathematics learners.
4. To explain concepts and research scope of mathematics studies and research on instruction, learning, and innovation and instructional technology in mathematics instruction.

5. To practically apply research to develop potential of learners and mathematics instruction.

Course Description

Analysis of philosophies, nature and structure of mathematics, learning psychology in mathematics, foundations regarding algebra, geometry and analysis, activity pattern for learning mathematics, design activity for learner-centered learning pattern, organizing instructional activities for mathematics potential development in solving problems, reasoning, linking, communicating, presenting and creative thinking, organizing instructional activities for learners with special mathematics capability, measurement and evaluation of mathematics, basic concepts and scope of research on mathematics studies, instructional research, learning of innovation and instructional technology in mathematics instruction, research for development of learners' potential and development of mathematics instruction.

22751 Applied Mathematics

(6 credits)

Objectives

1. To analyze key concepts and methods for applied mathematics regarding the number of abstract algebra theory, graph theory, linear models and non-linear models, calculus, statistics and probability, and other important mathematics.
2. To apply numbering theory, abstract algebra, graph theory, linear models and non-linear models, calculus, statistics, probability and other important mathematics.

Course Description

Analysis of key concepts, methods for applied mathematics regarding analysis of important concepts, methods of applied mathematics concerning analysis of major concepts, application methods of mathematics regarding number theory, abstract algebra, graph theory, linear models and non-linear models, calculus, statistics and probability, and other important mathematics to construct mathematical model for solving problems and other applications.

22752 Mathematics for Teacher

(6 credits)

Objectives

1. To Describe about content and principles of basic mathematics regarding sets and logic, number theory, polynomials, equation and inequality, prove and application of geometry, analytic geometry, pattern, relations and functions, basic calculus, statistics and probability and other contents of important mathematics.
2. To analyze and link content and principles of basic mathematics with mathematics in school.

Course Description

Key concepts, content and principles of basic mathematics regarding sets and logic, number theory, polynomials, equation and inequality, prove and application of geometry, analytic geometry, pattern, relations and functions, basic calculus, statistics and probability and other contents of important mathematics, analysis and linkage of basic mathematics principles with mathematics in school.

22753 Provision of Learning Experience in Mathematics**(6 credits)****Objectives**

1. To analyze content that is crucial foundation on number and operations, algebra, geometry, measurement, data analysis and probability.
2. To analyze concepts, theories, instructional principles, learning standards and mathematics curriculum, including case studies, activity pattern and mathematics works that enhance learners' mathematics potentials.
3. To develop activity in learning mathematics through using solving problems process as foundation leading to insight, skills and mathematical process deeply and meaningfully.
4. To develop mathematics learning experience that links classroom mathematics with environment and situation in real life.
5. To select information and develop media, innovation and technology in mathematics instruction.
6. To develop evaluation instrument for learner's ability in knowledge, skills mathematics process, attitudes and desired characteristics and misconception diagnosis of learner.
7. To develop learner's mathematics potential by research process in classroom and ability to gather data and manage information system related to learner's mathematics potentials leading to development of learners and management of mathematics education.

Course Description

Analysis of concepts, theories, instruction principles, learning standards and mathematics curriculum, important content regarding number and algebra action, geometry, measurement, statistics and probability, skills and mathematics process, activity pattern and mathematics work that enhances knowledge, skills and mathematics process, organizing learning activities by solving problems as foundation and linking mathematics with environment and situation in real life, learning experience management leading to mathematics project, selection of information, development of media, innovation and technology, development of evaluation instrument for learner's ability in knowledge, skills and mathematics process, attitudes, desired characteristics, and misconception diagnosis of learner, research in classroom and management of information regarding learner's mathematics potential leading to development of learner's potential and development of management in mathematics education.

22754 Foundations and Methodologies of Social Studies Instruction (6 credits)**Objectives**

1. To analyze philosophies, nature, structure, content, and methodologies of social science related to learning management in social studies.
2. To develop curriculum and learning management in accordance with dynamics of social studies, or social changes, national development plan and characteristics of learners.
3. To manage social studies classroom in accordance with educational psychology.
4. To develop application of innovation, educational technology, information technology and diversity of learning resources for learning management in social studies.
5. To apply measurement and evaluation process and educational research for development of learning management and educational management in social studies.

Course Description

Philosophies, nature, structure, content and social science methods, application in learning management in social studies, curriculum development and learning management in social studies in accordance with dynamics of social studies, social changes, national development plan, characteristics of learners, administration and management in social studies classroom in line with educational psychology, development of application of innovation, educational technology, information technology and diversity of learning resources for learning management in social studies, development of measurement and evaluation process and educational research on learning management and social studies management, development of social studies teachers in accordance with the national standards.

22755 Globalization Studies (6 credits)**Objectives**

1. To analyze changes in the world, regions, countries and communities in globalization.
2. To propose guidelines for quality society in globalization.
3. To propose guidelines for development of roles, standards, and competencies of factors related to construction of quality society.
4. To develop curriculum and manage globalization learning in social studies with efficiency.

Course Description

Concepts regarding globalization, globalization process, major changes in the world, regions, countries and communities in globalization, impacts on development of human....and environment, concepts and process of building quality society in globalization, balance and major merges in globalization, sustainable development and sufficiency economy, roles, standards and competency of important factors in building quality society including curriculum development and learning management of globalization in social studies by providing learning in line with learners and globalization.

22756 Contemporary Information in Social Sciences**(6 credits)*****Objectives***

1. To analyze characteristics and types of contemporary information in social sciences.
2. To explain contemporary information resources in social sciences.
3. To explain how to manage system for contemporary information in social sciences including up-to-date information system management.
4. To apply contemporary information in social sciences with instruction fit for learner's level and local circumstance.

Course Description

Concepts regarding contemporary information in social sciences on politics, administration, economics, society, philosophy, education, culture, religious, ethics, environment, resources, population, science and technology, characteristics, types and contemporary information resources in social sciences, system management methods for contemporary information in social sciences and application of contemporary information system in social sciences with instruction, sustainable development and sufficiency economy, how to process, analyze, and synthesize contemporary information in social sciences including knowledge management in social sciences for creation of work or article with efficiency.

22757 Provision of Learning Experiences in Social Studies**(6 credits)*****Objectives***

1. To analyze and synthesize contents regarding religious, morality, ethics, citizen's duty, culture and leading life in society, economics, history, geography, and how to study contemporary sciences and content in social sciences related to learning in social studies.
2. To apply concepts, theories and principles of social studies instruction to promote social studies potential of learners.
3. To analyze and improve social studies curriculum to meet with development directions for individuals and communities.
4. To manage learning in social studies related to development of learners and situations in society.
5. To develop and apply innovation, technology, information technology and learning network for development of social studies characteristics of learners.
6. To develop leadership in management of social studies classroom as well as development of important skills in teaching profession of social studies.

Course Description

Contents concerning religion, morality, ethics, citizen's duty, culture and leading life in society, economics, history and geography, and how to study contemporary sciences and contents in social sciences related to learning in social studies, application of concepts, theories and instruction principles in social studies to promote learners' social studies potentials, analysis, management and

improvement of social studies curriculums to meet with personnel and society development in localities, learning management of social studies relating to learners' development and situation in real life, application development of innovation, technology, information technology and learning network to develop learners' social studies characteristics, leadership in administration management of social studies classroom and development of important skills in teaching profession of social studies.

22759 Biology and Chemistry for Teachers

(6 credits)

Objectives

1. To enable students to explain the major concepts of evolution, the anatomy and physiology of plants and animals, the biological, ecological and genetic diversity of life on Earth, and biotechnology;
2. To enable students to explain atoms and molecules, the major mechanisms of chemical reactions, inorganic chemistry, complex compounds, the physical and chemical properties of solids and liquids, petrochemicals, and organic chemistry;
3. To enable students to explain and analyze environmental conditions and the applications of environmental technology to solve environmental problems;
4. To enable students to analyze, synthesize and apply biological and chemical knowledge in instructional management.

Course Description

The course covers the evolution, anatomy and physiology of plants and animals, the biological, ecological and genetic diversity of life on Earth; biotechnology, atoms and molecules, the major mechanisms of chemical reactions; inorganic chemistry, complex compounds, the physical and chemical characteristics of solids and liquids; petrochemicals, organic chemistry, the environment, environmental technology; and the application of biological and chemical knowledge in instructional management.

22760 Physics and Astronomy for Teachers

(6 credits)

Objectives

1. To enable students to explain important scientific concepts concerning mechanics, dynamics, conductivity, energy, thermodynamics, heat, wavelengths, light, sound, electricity, electronics, radioactive substance, power technology, electronics technology, communications technology, materials science and nanotechnology;
2. To enable students to explain important scientific concepts concerning atmospheric science, meteorology, storms and precipitation, climatology, geology, plate tectonics, geographic maps, astronomy, the Big Bang Theory, astronomic phenomena, stars and space technology;
3. To enable students to analyze, synthesize and apply physical sciences and astronomical knowledge in instructional management.

Course Description

The course covers the major concepts in mechanics, dynamics, conductivity, energy, thermodynamics, heat, wavelengths, light, sound, electricity, electronics, radioactive substance, power technology, electronics technology, communications technology, materials science and nanotechnology. The astronomy section covers major concepts in the earth sciences and space, including atmospheric science, meteorology, storms and precipitation, climatology, geology, plate tectonics, geographic maps, astronomy, the Big Bang Theory, astronomic phenomena, stars, and space exploration technology.

22761 Provision of Learning Experiences in Sciences**(6 credits)*****Objectives***

1. To equip students with knowledge and understanding of living things and the life cycle, life and the environment, materials and their properties, light and movement, energy, the changing world, and astronomy and space;
2. To enable students to design learning activities to teach about living things and the life cycle, life and the environment, materials and their properties, light and movement, energy, the changing world, and astronomy and space.

Course Description

This course is covers learning contents and provision of learning experiences in basic science, including living things and the life cycle, life and the environment, materials and their properties, light and movement, energy, the changing world, and astronomy and space.

22762 Foundations and Methodologies of English Language Instruction**(6 credits)*****Objectives***

1. Analyze and compare the first language learning and second language learning to use in English instruction.
2. Explain principles of language, literature and language culture usage.
3. Explain, compare and link philosophies and theories related to English language instruction.
4. Analyze English language curriculum processes.
5. Select/apply various patterns of methodologies of English language instruction and evaluation to use in English instruction.
6. Explain media and learning resources of English language.
7. Explain the research work regarding curriculum, management of English language instruction.

Course Description

First language learning and second language, learning Principles of language, literature and language culture usage related to English language instruction, English language curriculum development, methodologies of English language instruction and different patterns of English language evaluation, self-reliance learning pattern, media and learning resources of English language, curriculum research and management of English language instruction.

22763 Contexts of English Language Instruction**(6 credits)*****Objectives***

1. Analyze environmental factors and psychology concerned effecting learners' language learning.
2. Explain theories of social, cultural, psychological context, variables of language users, intention of language communication and influence over pattern and methods of language usage.
3. Analyze interaction of context towards usage and understanding in message of language users, analyze and synthesize different kinds of message regarding listening, speaking, reading, writing skills and the verities of languages.
4. Analyze theories in language learning and language learning focusing on language usage for communication.
5. Analyze and apply the acquired knowledge with instructional management in classroom.

Course Description

learning theories and language learning in and outside classroom, theories, research works related to language, social context and language usage through various skills, environmental factors and psychology concerned that effect learners' language learning, interaction of contexts, impacts and influence of variables in the aspect of social, cultural context and variables of language users towards pattern and methods of language usage, types of message and knowledge and understanding of language users, experience in message analysis and synthesis.

22764 English Instructional Media Development**(6 credits)*****Objectives***

1. Evaluate and select English instructional media suitable for learning objectives and learners.
2. Apply textbooks, lessons and teaching materials to context and environment.
3. Design methods and tools to explore needs of learners and those involved in English language teaching.
4. Design and develop lessons, instructional media and instructional activities for teaching language skills that meet the needs of learners.
5. Evaluate the effectiveness of the developed lessons and instructional media in the form of research.

Course Description

Analysis of appropriate lessons and instructional media based on the curriculum for learners; selection of printed media, instructional methods, materials, and electronic media; application of textbooks, lessons and instructional materials to social and environmental context; exploration of wants, needs, and interests of learners and those involved in the use of English before developing lessons and instructional materials; analysis and application of theories of language learning and language learning in daily life, and language learner learning assistance; lessons, instructional media and instructional activities development for teaching language skills; and research design for evaluating lessons and English instructional media.

22765 Provision of Learning Experience in English Language**(6 credits)*****Objectives***

1. Design an instruction by applying concepts, theories, principles of teaching, learning standards for learning area of foreign Languages with the target learners.
2. Develop English learning activities emphasizing communication skills.
3. Describe language learning experience linking classroom English to real-life situations and environments.
4. Use information technology to select media and teaching innovation to enable learners to learn effectively.
5. Select and develop tools to measure and evaluate learner language ability appropriately.
6. Design classroom research that leads to improvement of both learners and an English language instruction system.

Course Description

Application of concepts, theories, instructional principles, learning standards and an English language curriculum, essential content of communication in real-life situations; application of knowledge and understanding of learners, instructional techniques and development of English language learning activities suitable to learners at different ages to actual/virtual situation including development of learning experience linking classroom English to real-life situations and environments; selection of data/information to develop lessons, innovation and technology in English language instruction; and development of instruments to measure and evaluate learners' abilities in terms of knowledge, understanding, skills and English usage; application of classroom research that leads to improvement of both learners and an English language instruction system.

22770 Foundations and Methodologies of Vocational and Occupational Education**(6 credits)*****Objectives***

1. Analyze the natural philosophy, structure, content and content of learners and instructors in Vocational and Occupational Education.
2. Develop learning management courses, vocational training and Occupation that corresponds to changes in society country development plan and the characteristics of learners.

3. Use educational measurement and evaluation process, research process for curriculum development and management learning through vocational education and career.
4. Analyze the guidelines for the use of internship in the workplace.

Course Description

Analyze the natural philosophy, structure, content and content of learners and instructors in Vocational and Occupational Education; develop learning management courses, vocational training and Occupation that corresponds to changes in society country development plan and the characteristics of learners; use educational measurement and evaluation process, research process for curriculum development and management Learning through vocational education and career; analyze the guidelines for the use of internship in the workplace.

22771 Provision of Learning Experiences in Vocational and Occupational Education (6 credits)

Objectives

1. Analyze the standard of learning and vocational education and occupation as a basis for designing activities and learning experiences in vocational education and career.
2. Design teaching and learning experiences in vocational education and career.
3. Develop and use educational technology innovations, information technology and a variety of learning resources to manage learning and produce learning materials for use in the provision of vocational and professional learning experiences.

Course Description

Analyze the standard of learning and vocational education and occupation as a basis for designing activities and learning experiences in vocational education and career; design teaching and learning experiences in vocational education and career; develop and use educational technology innovations, information technology and a variety of learning resources to manage learning and produce learning materials for use in the provision of vocational and professional learning experiences.

22772 Environment, Innovation, Media and Technology for Preschool Children Development (6 credits)

Objectives

1. To explain, analyze, synthesize concepts, principles, and guidelines in provision of environment, innovation, media, and technology for preschool children development.
2. To explain and purpose solutions in provision of environment correlated to cultural context.
3. To explain influential factors to environment and characteristics of good and safety environment for preschool children
4. To explain characteristics of provision of environment and to evaluate provision of appropriate environment.

5. To explain, select, develop, and evaluate innovation, media, and technology for preschool children.
6. To explain, analyze, and synthesis roles of teachers and people involved in promoting, supporting, and using innovation, media, and technology for preschool children development.

Course Description

Concepts, principles, and guidelines in provision of environment for preschool children development, provision of environment for preschool children development, provision of physical environment and atmosphere for preschool children, provision of classroom and outdoor environment, provision of environment correlated to cultural context, influential factors to provision of environment, roles of teachers and people involved with provision of environment, evaluating provision of environment, characteristics of good and safety environment for preschool children.

Concepts of innovation, media, and technology for preschool children development, principles and guidelines on the use of innovation, media, and technology for preschool children development.

23720 Theories and Practices in Educational Administration

(6 credits)

Objectives

1. To have knowledge about the scope and development of educational administration theory.
2. To have knowledge and understand about educational administration theory, other theories and relevant educational laws.
3. To be able to apply theories, principles and educational management processes in accordance with the macro context and social landscape.
4. To be able to analyze, synthesize and create knowledge in educational management.
5. To be able to organize organization, administrative structure and appropriate mission of the teachers and educational personnel.
6. To be able to act as a good model, a moral and professionals ethics.

Course Description

Regarding the term of administrative theories development, theories, principles, administrative processes; the study consists of system theory, organizational theory, organizational behavior, organizational development, leadership, change leadership and leadership behavior, authority and responsibility, decision making, risk management, conflict management, motivation, communication, human resource competency management in the organization, systems and processes for administration and management of modern education, contemporary management concepts, innovation and information technology for administration and learning, education system and Thai education management system, Laws related to education, good governance and honesty, morality and ethics, professional ethics, analysis and synthesis of Western and Eastern theoretical concepts related to educational administration for mission and development of educational quality.

23721 Research in Educational Administration**(6 credits)*****Objectives***

1. To acquire knowledge and understanding of concepts, types, and research methodology in educational administration.
2. To acquire knowledge and the ability in quantitative research and qualitative research.
3. To be able to apply research methodology to the development of bodies of knowledge and professional educational administration.
4. To acquire knowledge and the ability to evaluate and criticize research quality and be able to apply research to educational administration.
5. To acquire knowledge and ability to apply concepts and principles to the principles of project evaluation and project evaluation management.
6. To acquire knowledge and ability to apply concepts and principles of measurement and evaluation to the development of education quality.
7. To be able to behave as a role model with morality, ethics and research ethics.

Course Description

Regarding the concepts of research in educational administration, the process of quantitative research and qualitative research in educational administration covered with the research problem, related literature review, writing research proposals, setting objectives, formulating research hypotheses, selecting a sample group, developing research instruments, collecting data, selecting analysis procedures, summarizing research findings, writing research reports, and presenting research results.

23722 Academic and Educational Resources Administration**(6 credits)*****Objectives***

1. To have knowledge and understanding about theories, principles and concepts of academic administration, curriculum development, and instructional management in the new ways.
2. To have knowledge and ability about the improvement and evaluation of curriculum development and application of evaluation results for learner development.
3. To have knowledge and ability about instructional management and instructional enhancement.
4. To have knowledge and ability on administration to develop potential of learners and student caring and support system.
5. To have knowledge and ability about the promotion of discipline, moral, and unity of learners.
6. To have knowledge and understanding about the concepts and principles of educational resources administration.
7. To have knowledge and ability about resource mobilization for educational purposes, determine how to allocate resources and control, monitoring and evaluation of the use of educational resources.

8. To have knowledge and understanding about environment and learning resources management to promote learning management.

Course Description

Regarding the terms of theories, principles and concepts of process and techniques of academic administration for quality and excellence; academic leadership; curriculum development and school curriculum; curriculum evaluation; instructional management and supplement teaching for learning in 21st century; knowledge management; learning evaluation and measurement; extracurricular activities and student activities administration; care and support learners; supervision for teacher development; educational supervision; principles, concepts, and techniques about educational resources administration; human resources administration; administrative, financial, procurement and premises management; information technology and innovation for administration and learning; resource mobilization for educational purposes; determination how to allocate resources; control, monitoring and evaluation of the use of educational resources; and environment and learning resources management to promote learning management.

23723 Educational Policies, Planning and Quality Development (6 credits)

Objectives

1. To have knowledge and understanding about theories, principles, concepts and educational policy development process.
2. To have knowledge and ability about policies, plans, and strategies formulation and can apply policies and plans into action consistently with the context of the educational organization.
3. To have knowledge and ability to analyze data about the global changes that affect policy and educational planning.
4. To have knowledge and ability to analyze environment, social conditions, future prediction, vision creation, and strategic plan management to develop educational quality.
5. To have knowledge and ability to prepare a self-assessment report, monitor the quality assurance, and can use the quality assurance result to develop education and school.
6. To have knowledge and ability to monitor and evaluate educational quality, and can use the evaluation results to improve policy, planning, and education development project.

Course Description

Regarding the terms of theories, principles, concepts and processes of educational policy formulation; policy implementation; educational policy monitoring and improvement; the data analysis of the changing world of the 21st century in the context of political, economic, social and cultural, values, science, technology and more that impact to educational policies and plans; the analysis of environment, social conditions and future prediction of education on the national, regional, and school level; the educational organization environment analysis to create educational vision; strategic plan management of educational organization mission; planning for efficiency and effectiveness

improvement of educational administration; principles and procedures for quality assurance; internal and external quality assurance system; the educational quality assurance monitoring; the educational quality monitoring and evaluation; and the use of the evaluation results to improve educational quality.

23727 Development of Learning Management Systems (6 credits)

Objectives

1. To have knowledge and understanding about learning theory, principles and concepts of learning, learning systems, instructional curriculum, and educational supervision.
2. To have knowledge and understanding about learning management systems, the instructional supervision system, and the measurement and evaluation of learning management.
3. To have knowledge and ability on system management, and learning management in educational organizations.
4. To have ability to analyze, synthesize, and apply learning theories, principles and concepts of learning management system development, curriculum development, instruction, supervision, measurement and evaluation of learning management, and knowledge management to suit local conditions and schools.

Course Description

Regarding the terms of learning theories, principles and concepts of learning; development theory; instructional theories; instructional elements; principles and processes of the analysis and learning system development; the application of principles and learning theories; principles and theories related to the curriculum; principles and processes of the analysis and curriculum development to suit local conditions; concepts, principles and theories of educational supervision; instructional supervision; principles and processes of measurement and evaluation of learning management; the analysis, synthesis and application of learning theory; principles and concepts of learning; learning system for academic management; and knowledge management and the development of education quality to suit schools, local, and society.

23728 Innovation in Educational Administration and Leadership (6 credits)

Objectives

1. To have knowledge and understanding about administration innovation and leadership and application of administration innovation and leadership to educational administration including organization administration innovation, instructional administration innovation, and leadership innovation.
2. To have ability to apply innovations for educational administration efficiently and appropriate to the circumstances.
3. To have ability to design innovation for improving the quality of education and sustainability.

Course Description

Regarding the terms of administration innovation and leadership and application for educational administration which are organization administration innovation, instructional administration innovation, and leadership innovation, contain with the principles and concepts of educational administration innovation and leadership, learning organization, office management innovation, organizational outputs, and total organizational management process; professional learning communities for educational development; learning management and contemplative; coaching for instructional management; class management for quality of education development in the 21st century; alternative education; visionary leadership; strategic leadership; academic leadership; innovative leadership; and educational administration innovative development for sustainability.

**23729 Information Systems and Technologies for
Educational Administration**
(6 credits)***Objectives***

1. To have knowledge and ability in information technology concepts and principles, and information systems in educational organizations.
2. To have knowledge and competency about concepts, principles, components and guidelines for organizing information technology in educational organizations.
3. To have knowledge and ability about technology systems for educational administration.
4. To have knowledge and understanding of policy, plan and strategy for the development of technology systems for educational administration into operations in educational organizations.
5. To have knowledge and capabilities in information systems, information technologies and applications to promote learning management and also have knowledge and ability in organizing and managing modern offices.
6. To have knowledge and ability in risk, security, ethics and responsibility in technologies and information in educational administration.

Course Description

Regarding the concepts and principles in information and information systems are the central of course. Students will study concepts, principles, components and guidelines for using technologies and information systems for educational management and learning. Policies, plans and strategies for developing information systems for educational management into operations in educational organizations will also investigate. The course will provide study on principles and guidelines for information systems, information technology and applications to promote learning management. Finally, risk, security, ethics and responsibility in technologies and information system in educational administration will be learn.

23787 Independent Study (Educational Administration)**(6 credits)*****Objectives***

1. To have knowledge and skills to apply theories, concepts, and methods of the subjects to study, analyze, and research on the important problems to the development of education in the field of educational administration, and/or the topics that special interest to the students.
2. To train creative thinking processes skills and rational to study and create a body of knowledge.
3. To have moral and ethics for the study and academic reference.
4. To have ability to propose academic performance verbally and media suitably.

Course Description

Regarding the terms of the selection of problems for study, analysis or research; projects writing and independent study propose; related literary analysis with regard to the study, analysis or research; data collection and information analysis; and the findings report of the study, analysis or research.

23788 Thesis (Educational Administration)**(12 credits)**

Objectives: Upon completion of the course, students should

1. To be able to select research problems for a thesis.
2. To be able to survey and analyze literature related to the thesis.
3. To be able to design research for the thesis.
4. To gain knowledge and skill in writing and presenting the thesis proposal.
5. To be able to develop quantitative research tools.
6. To be able to develop qualitative research tools.
7. To be able to collect, analyze, and present data for the thesis.
8. To be able to present and defend the thesis examination.
9. To be able to write the complete thesis report.
10. To be able to write the research report for publication.

Course Description

Selection of the research problem; survey and analysis of relevant literature; research design; writing and presenting a thesis proposal; tool development for thesis research, both quantitative and qualitative research; data collection; thesis data presentation; thesis presentation and examination defending; writing the complete thesis report; writing the research report for publication.

23796 Skills Development and Professional Experiences for**(6 credits)****Educational Leaders*****Objectives***

1. To gain an ideology of educational administrators and guidelines for the professional administrator development.
2. To acquire knowledge, ability, and leadership skills in educational organizations.

3. To have the ability and skills in curriculum management, student affairs, supervision system, evaluation, and development of education quality.
4. To be able to strengthen human relations and collaboratively work with others.
5. To be able to behave as a good model, have public consciousness and sacrifice to society, and behave according to professional codes of conduct.
6. To acquire knowledge and experiences in the professional practice of school administrators and educational administrators, as well as to be able to apply to the implementation.

Course Description

Regarding the enhancement of educational administrators' spiritual development and ideology, guidelines for the professional administrator development, the vision development of educational provision, educational leadership, organization arrangement, the development of information system, educational technology and communication, the enhancement and development of problem-solving skills and educational decision-making skills, the administration of student affairs, curriculum, a supervisory, monitoring, and follow-up system, evaluation, and the development of education quality, personality development and good attitude in educational leadership, interaction and colleague development, training and management skills development for the improvement of education quality in educational organizations, building relationships among educational institutions, communities, and localities, network management, moral and ethics enhancement, and professional codes of conduct according to the requirements of the Teachers Council of Thailand, and professional practice training for school administrators and educational administrators.

24731 Research Methods in Educational Measurement and Evaluation (6 credits)

Objectives:

1. Understand principles of educational research and research in educational measurement and evaluation.
2. Design research in educational measurement and evaluation.
3. Develop instruments for data collection.
4. Write research proposals in educational measurement and evaluation.
5. Use softwares to analyze quantitative and qualitative data.
6. Write results of quantitative and qualitative data analysis.

Course Description

Definition and types of educational research, educational research design, educational research process, research in educational measurement and evaluation, research planning, process and implementation of research in educational measurement and evaluation, determining research problem, research question, and research objective, constructing conceptual framework and hypothesis, review of literature in educational measurement and evaluation, designing research in educational measurement and evaluation, population and sample size determination, instrumentation and data collection, choosing appropriate statistics for research, descriptive and inferential statistics, correlation and regression, t-test, analysis of variance, analysis of covariance, qualitative research and

mixed methods research, programming and statistical softwares for qualitative and quantitative data analysis, writing research findings, and evaluating quality of research in educational measurement and evaluation.

24732 Theories of Educational Measurement and Evaluation, and Program Evaluation (6 credits)

Objectives:

1. Understand psychological measurement theory and its application for educational measurement and evaluation.
2. Understand classical test theory and advanced measurement theory.
3. Understand concepts of reliability, validity, and standard error of measurement.
4. Understand standards for educational and psychological assessment.
5. Understand and be able to develop classroom assessment instrument and use assessment results to improve educational quality.
6. Understand concepts of program and program evaluation.
7. Understand principles of program evaluation, evaluation model, evaluation criteria, indicators and design-making criteria.

Course Description

Definition and principle of educational measurement and evaluation, classical test theory, advanced measurement theories, applications of classical test theory and advanced measurement theories, reliability, validity, standard error of measurement, instrumentation, standards for psychological and educational testing, criterion- and normed-referenced testing, standards-based assessment, national and international educational assessment, classroom assessment, assessment for learning, formative assessment, summative assessment, definition of programs and program evaluation, evaluation criteria, evaluation design, evaluation implementation, and writing evaluation results.

24733 Seminar in Educational Measurement and Evaluation (6 credits)

Objectives:

1. Review and share current states, challenges, and new methodology of educational measurement and evaluation.
2. Understand and apply advanced educational measurement and evaluation methodology to practices.
3. Develop research topics in educational measurement and evaluation and design research strategies to investigate the proposed topics with valid and reliable findings.

Course Description

Review of challenges in education measurement and evaluation, advanced educational and evaluation methodology, dissemination of literature review, selected topics in advanced educational measurement and evaluation, educational data analysis, research design and writing research proposal.

24734 Evaluation of Policy, Program, Project and Organization (6 credits)

Objectives:

1. Understand definition and principles of policy, program, project, and organization.
2. Understand process of policy, program, project, and organization evaluation.
3. Design and evaluate policy, program, project, and organization.
4. Understand the principles of evaluation result utilization to develop policy, program, project, and organization.

Course Description

principles of policy, program, project, and organization, development of policy, program and project, principles of policy, program, project, and organization evaluation, evaluation process, analysis of policy, program, project, and organization, determining evaluation purpose, indicator and criteria, evaluation model, planning evaluation, evaluation instrument development, data analysis and presentation, writing evaluation report, evaluation unitization, readiness and needs assessment, evaluation of evaluation utilization, process evaluation, impact evaluation of policy, program, project, and organization, organizational risk evaluation, organizational effectiveness and efficiency evaluation.

24735 Curriculum Evaluation and Educational Quality Assurance (6 credits)

Objectives:

1. Understand curriculum and educational quality assurance concepts.
2. Design curriculum evaluation and educational quality assurance .
3. Undertake different types of curriculum evaluation.
4. Implement educational quality assurance in varied contexts.

Course Description

Principles of curriculum, curriculum and instruction development, principle of curriculum, curriculum analysis, curriculum evaluation model, curriculum evaluation planning, determining purpose, indicator, and criteria for curriculum evaluation, instrumentation and data collection for curriculum evaluation, data analysis and presentation, writing evaluation findings, evaluation utilization, feasibility evaluation of curriculum, evaluation of evaluation utilization, monitoring and impact evaluation of curriculum, principles and theory of educational quality assurance, designing, planning, and implementing educational quality assurance, educational risk evaluation, external and internal educational quality assurance, educational quality assurance for basic, vocational and higher education levels, monitoring, and developing educational quality assurance system, utilization of curriculum evaluation, and educational quality assurance for better practices.

24736 Applied Psychometric Theories for Educational and Psychological Measurement and Assessment (6 credits)

Objectives:

1. Understand principles of psychological measurement theory for educational and psychological measurement and evaluation.
2. Understand measurement theory and scale development.

3. Understand classical test theory and its application in test development and psychological and educational test and item analysis.
4. Understand item response theories and applications in test development, and psychological and educational test and item analysis.
5. Understand generalizability theory and its applications in test development, and psychological and educational test and item analysis.
6. Use computer programs and statistical softwares to analyze data following advanced measurement models for test development and validation.
7. Know and understand norm development, grading, cut-score, test equating and differential item functioning.
8. Understand principles of reporting of educational and psychological testing.

Course Description

Principles of measurement, evaluation and psychological measurement theory, fundamental statistics for educational and psychological measurement and evaluation, scaling, factor analysis and dimensionality assessment, applications of classical test theory in test development, item and test analysis, item response theory for dichotomous and polytomous responses, multidimensional item response theory, applications of item response theories in educational and psychological measurement, item response theory-based statistical packages for item and test analysis, item bank development, computerized adaptive testing, web-based assessment, generalizability theory, g-theory-based statistical packages for test analysis, grading and cut-score, norming, test equating, differential item functioning, educational and psychological assessment report, applications of measurement theory in designing educational tests.

24793 Graduate Professional Experience in Educational Measurement and Evaluation

(6 credits)

Objectives:

1. Acquire additional knowledge and experiences that transferred earlier via distance teaching system.
2. Possess proper personality and positive attitudes towards the profession of educational evaluation.
3. Promote and develop academic leadership in educational evaluation profession.
4. Promote human relations and ability in team work.
5. Develop skills in solving problems efficiently as leader in educational evaluation.
6. Increase morality, ethics and appropriate professional code of conduct.

Course Description

Analysis and organization management, application of techniques in educational evaluation, self-development with appropriate personality and positive attitudes toward educational evaluation profession, promotion of human relations and ability in team work, development of solving problems in educational evaluation, including promotion of appropriate morality, ethics and professional code of conduct.

24794 Independent Study (Educational Measurement and Evaluation) (6 credits)***Objectives:***

Students are expected to possess skills in applying concepts, theories and methods studied from different courses to analysis study, study or research on educational evaluation in topic of interest.

Course Description

Problems selection for independent study or research, writing a project, analysis of literature review, data compilation and analysis, presentation of study or research results.

24795 Thesis (Educational Measurement and Evaluation) (6 credits)

Objectives: Upon completion of the course, students should

1. To be able to select research problems for a thesis.
2. To be able to survey and analyze literature related to the thesis.
3. To be able to design research for the thesis.
4. To gain knowledge and skill in writing and presenting the thesis proposal.
5. To be able to develop quantitative research tools.
6. To be able to develop qualitative research tools.
7. To be able to collect, analyze, and present data for the thesis.
8. To be able to present and defend the thesis examination.
9. To be able to write the complete thesis report.
10. To be able to write the research report for publication.

Course Description

Selection of the research problem; survey and analysis of relevant literature; research design; writing and presenting a thesis proposal; tool development for thesis research, both quantitative and qualitative research; data collection; thesis data presentation; thesis presentation and examination defending; writing the complete thesis report; writing the research report for publication.

25711 Concepts of Guidance & Theories in Psychological Counseling (6 credits)***Objectives***

1. To acquire knowledge and understanding of psychology for guidance, human behavior, administration and management of guidance system;
2. To acquire knowledge and understanding of theories and practical guidelines in psychological counseling;
3. To enable students to apply principles of guidance and theory in psychological counseling to guidance and counseling.

Course Description

Knowledge and understanding of psychology for guidance and counseling, human behavior, psychology for guidance, morality, ethics and guidance professional code of conduct, theory in psychological counseling for humanism group, cognitivism group and behaviorism group, skills in micro counseling, individual psychological counseling, group psychological counseling and comparison of theory in psychological counseling.

25712 Research in Guidance and Psychological Counseling (6 credits)***Objectives***

1. To acquire knowledge and understanding of research methodologies and various types of research;
2. To acquire knowledge, understanding and ability in quality evaluation of research in guidance and psychological counseling;
3. To possess researcher's code of conduct and ability to conduct a research in guidance and psychological counseling conforming with academic standards.

Course Description

Educational research methodologies, literature review for educational research, research planning and data compilation, statistic methodology for research, descriptive research, experimental research, qualitative research, researcher's code of conduct, concepts relating to research in guidance and psychological counseling, research relating to personnel positioning management services, research relating to follow-up services and evaluation of guidance and psychological counseling, research relating to instrument and activities for guidance and psychological counseling and research relating to administration, services and academic guidance and psychological counseling.

25713 Seminar in Guidance and Psychological Counseling (6 credits)***Objectives***

1. To enable students to follow up, study, analyze, criticize and synthesize social, educational problems as well as guidance and psychological counseling problems from current circumstance and related literature;
2. To enable students to increase knowledge and understanding of innovation, new concepts including trends in guidance and psychological counseling;
3. To enable students to identify development directions and/or solution with ability to search new body of knowledge in guidance and psychological counseling.

Course Description

Following up, study, analysis, criticism and synthesis of social, educational problems as well as guidance and psychological counseling problems from current circumstance and related literature, innovation and new concepts including trends in guidance and psychological counseling, identification of development directions and/or solution and ability to search new body of knowledge in guidance and psychological counseling.

25714 Development of Guidance and Psychological Counseling (6 credits)***Activities and Instruments******Objectives***

1. To acquire knowledge and understanding of principles in development of guidance and psychological counseling activities and instrument;
2. To enable students to apply knowledge in development of guidance and psychological counseling instrument to construct guidance and counseling instrument efficiently;

3. To enable students to apply knowledge relating to development of guidance and psychological counseling activities and instrument to appropriately construct guidance and counseling instrument.

Course Description

Basic principles and concepts in development of guidance and psychological counseling instrument, development of standard test, professional standard tool, personal and social standard tool, guidance and psychological counseling instrument constructible for self-use and principles of construction, development of guidance activities and psychological counseling, guidance activities and psychological counseling on education, occupation, personal and social aspect, innovation and technology for development of guidance and psychological counseling activities and instrument, efficiency search, evaluation of quality, methods and report of application of developed activities and instrument for guidance and psychological counseling.

25715 Guidance and Psychological Counseling in Organizations (6 credits)

Objectives

1. To enable students to acquire knowledge and understanding of concepts regarding guidance and psychological counseling in organizations.
2. To enable students to acquire knowledge and understanding of psychology related to guidance and psychological counseling in organizations.
3. To enable students to acquire knowledge and understanding of the application of guidance and psychological counseling in enhancement and development of the prevention and solving of problems of personnel in organizations.
4. To enable students to acquire knowledge and understanding concerning research, innovations, and trends of guidance and psychological counseling in organizations.

Course Description

Concepts regarding guidance and psychological counseling in organizations; psychology for guidance and psychological counseling in organizations; personnel concerned with guidance and psychological counseling in organizations; administration and management of work concerning guidance and psychological counseling in organizations; communications and work team creation; negotiations for conflict elimination; creation of morale and motivation; behavior modification for personnel in organizations; hygiene promotion for personnel of organizations; guidance in organizations; psychological counseling in organizations; virtues, ethics and good governance in organizations; research on guidance and psychological counseling in organizations; psychological tools for guidance and psychological counseling in organizations; and innovations and trends of guidance and psychological counseling in organizations.

25794 Independent Study (Guidance and Psychological Counseling) (6 credits)

Objectives

To enable students to possess skills in applying concepts, theories and methods obtained from studied courses and related experience to independent study or research on guidance and psychological counseling, to topics crucial to development of guidance and psychological counseling and/or topic of students' special interest.

Course Description

Selection of problems for independent study or research which is a crucial issue for development of guidance and psychological counseling and/or topic of students' special interest, writing a project, synthesis of literature review, data compilation and analysis and presentation of independent study or research.

25795 Thesis (Guidance and Psychological Counseling) (12 credits)

Objectives: Upon completion of the course, students should

1. To be able to select research problems for a thesis.
2. To be able to survey and analyze literature related to the thesis.
3. To be able to design research for the thesis.
4. To gain knowledge and skill in writing and presenting the thesis proposal.
5. To be able to develop quantitative research tools.
6. To be able to develop qualitative research tools.
7. To be able to collect, analyze, and present data for the thesis.
8. To be able to present and defend the thesis examination.
9. To be able to write the complete thesis report.
10. To be able to write the research report for publication.

Course Description

Selection of the research problem; survey and analysis of relevant literature; research design; writing and presenting a thesis proposal; tool development for thesis research, both quantitative and qualitative research; data collection; thesis data presentation; thesis presentation and examination defending; writing the complete thesis report; writing the research report for publication.

25796 Graduate Professional Experience in Guidance and Psychological Counseling (6 credits)

Objectives

1. To promote personality of being a good guidance counselor.
2. To promote and develop academic leadership in guidance center management, coordination and creation of academic networks, and quality insurance in guidance and psychological counseling profession.
3. To develop skills in providing individual, group, and family psychological counseling services.

4. To promote students to acquire knowledge and understanding on career development in guidance and psychological counseling.
5. To promote students to acquire knowledge and understanding of appropriately applying attitudes, ethics and guidance counselor's professional code of conduct for utilization in the guidance and psychological counseling profession.
6. To promote students to acquire knowledge and understanding on writing and dissemination of articles, innovations, and trends in guidance and psychological counseling.
7. To enhance students' experiences and develop their visions in guidance and psychological counseling.

Course Description

Vision of guidance and psychological counselor; guidance center management; coordination and creation of academic networks for professional guidance and psychological counselors; quality insurance in guidance and psychological counseling profession; promotion of attitudes, ethics and professional code of conduct of guidance and psychological counselor; analytical thinking and problem solving skills; development of personality for being a good guidance and psychological counselor; enhancement of human relationship and ability to work in teams; promotion and development of professional leadership of guidance and psychological counselor; provision of individual psychological counseling; provision of group psychological counseling; provision of family psychological counseling; and writing and dissemination of articles, innovations, and trends in guidance and psychological counseling.

26707 Philosophy and Principle of Nonformal and Informal Education (6 credits)

Objectives

1. To acquire knowledge and understanding of concepts, principles, belief including theories related with nonformal and informal education;
2. To enable students to analyze evolution of nonformal and informal education and understand in laws related to nonformal and informal education;
3. To enable students to analyze and screen information from social context, belief effecting the country development in political, economic, social and cultural aspect in order to conclude problems and solution efficiently.

Course Description

Philosophy, concepts and belief concerning nonformal and informal education and alternative of Thailand and overseas countries, principles of nonformal and informal education, development of nonformal and informal education of Thailand and overseas countries. Concepts of education management in Thailand, social science theory related to nonformal and informal education, nonformal and informal education and development of economy, politics, society and culture, nonformal and informal education and country development, analysis for application of nonformal and informal education philosophy.

26708 Research for Nonformal and Informal Education Development (6 credits)***Objectives***

1. To acquire knowledge and understanding of various types of research and applicable with nonformal and informal education for development and promotion of lifelong education as well as learning society;
2. To enable students to plan and design nonformal and informal education research;
3. To enable students to conduct nonformal and informal education research;
4. To enable students to apply research results to develop nonformal and informal education program.

Course Description

Knowledge regarding statistics and research, social science research, educational research, development of research project, analysis of research project, plan and research concepts suitable with nonformal and informal education, qualitative research, anthropological research, action research, developmental research, case studies of research and development of nonformal and informal education, conducting research on nonformal and informal education, application of nonformal and informal education research to develop and promote lifelong education and learning society.

26709 Seminars on Nonformal and Informal Education Management (6 credits)***Objectives***

1. To acquire knowledge and understanding of content, principles and significant theories regarding administration and management of nonformal and informal education;
2. To enable students to apply principles, concepts in administration and management of nonformal and informal education, study, and develop through academic or professional action by integrating old knowledge and current knowledge creatively with responsibility and cooperate with others to solve problems showing proper leadership while holding principles of morality and ethics;
3. To enable students to achieve in administration and management of nonformal and informal education in line with context through overall data analysis employing information technology and communication with efficiency fit for different groups of people.

Course Description

Principles of administration and management of nonformal and informal education, micro planning, analysis of problem condition and needs of learners and community on the basis of principles, theories and research, study, development of nonformal and informal education management, development of nonformal and informal education project, plan analysis, project analysis, development of new ideas from integration of old ideas and current ideas, administration of nonformal and informal education program, supervision of nonformal and informal education, follow-up and evaluation of nonformal and informal education, follow-up and evaluation of nonformal and informal education

project, application of information technology, leadership, promotion to follow principles of morality, ethics in work performance and relations with community, being responsible person and cooperate with others, quality assurance in nonformal and informal education.

26710 Instruction, Training, Media Development in Nonformal and

Informal Education

(6 credits)

Objectives

1. To acquire knowledge and understanding of curriculum development of nonformal education;
2. To enable students to analyze and plan instruction, training, and development of media for nonformal and informal education mission;
3. To enable students to analyze and apply concepts, principles of nonformal and informal education for development of instructional, training curriculum and application of media in nonformal education work.

Course Description

Principles of curriculum development in nonformal education, local curriculum, principles, theories and psychology related to instruction in nonformal and informal education, adult instruction, principles, concepts, management and administration techniques in training dynamics group, principles of development and application of media in nonformal and informal education and learning resources of local indigenous wisdom.

26711 Seminars on Current Problems and Issues in Nonformal and

Informal Education

(6 credits)

Objectives

1. To enable students to follow-up, analyze current problem condition regarding nonformal and informal education work systematically, on the basis of key principles and theories in updated academic content;
2. To enable students to apply concepts, principles of nonformal and informal education when following up and analyzing current condition and trends in nonformal and informal education work;
3. To enable students to retrieve, compile information data, study, analyze and conclude different issues to exchange views, propose issue and knowledge for development, at the same time to propose guidelines to identify trends in nonformal and informal education from contexts concerned.

Course Description

Problems and issues in nonformal and informal education, principles and process in problem analysis including other issues, social, political, economic and cultural groups effecting management of nonformal and informal education, interaction between other components, problems and issues in surveying target groups, needs and problem condition of target groups, development of local curriculum,

media development, resources procurement, administration, control, follow-up, work performance, evaluation of work performance, coordination through operation and resources allocation.

26712 Research Seminars in Nonformal and Informal Education (6 credits)

Objectives

1. To enable students be able to follow-up, analyze current condition and other issues related to research in nonformal and informal education;
2. To enable students to apply concepts of principles in research work analysis and able to design research work;
3. To exchange views and research knowledge related to nonformal and informal education.

Course Description

Analysis and criticism of research work, concepts, models, structure, data compilation, data analysis, research results, and feasibility in application of research results relating to components of nonformal and informal education, research planning in nonformal and informal education.

26794 Independent Study (Nonformal and Informal Education) (6 credits)

Objectives

To enable students to possess skills in applying concepts, theories and methods studied from different courses to study, analyze, or research on problems in nonformal and informal education under topic of current issue or important problem.

Course Description

Selection to study systematically under one topic relating to nonformal and informal education so as to develop nonformal and informal education. Students will study by themselves under guidance of advisor and present their work results to the Committee of Independent Study in form of article and report.

26795 Thesis (Nonformal and Informal Education) (12 credits)

Objectives: Upon completion of the course, students should

1. To be able to select research problems for a thesis.
2. To be able to survey and analyze literature related to the thesis.
3. To be able to design research for the thesis.
4. To gain knowledge and skill in writing and presenting the thesis proposal.
5. To be able to develop quantitative research tools.
6. To be able to develop qualitative research tools.
7. To be able to collect, analyze, and present data for the thesis.
8. To be able to present and defend the thesis examination.
9. To be able to write the complete thesis report.
10. To be able to write the research report for publication.

Course Description

Selection of the research problem; survey and analysis of relevant literature; research design; writing and presenting a thesis proposal; tool development for thesis research, both quantitative and qualitative research; data collection; thesis data presentation; thesis presentation and examination defending; writing the complete thesis report; writing the research report for publication.

26796 Graduate Professional Experience in Nonformal and**Informal Education****(6 credits)*****Objectives***

1. To acquire additional knowledge and experiences that transferred earlier via distance teaching system;
2. To develop and possess proper personality and positive attitudes towards the profession of nonformal and informal education;
3. To promote and develop academic leadership in nonformal and informal education profession;
4. To promote human relations and ability in team work;
5. To develop skills in solving problems efficiently as leader in nonformal and informal education;
6. To increase morality, ethics and appropriate professional code of conduct.

Course Description

Analysis of crucial issues of nonformal and informal education, action learning, exchange of views and field experience in activity management of nonformal and informal education, system analysis and development, planning, management of development activity, administration, control, supervision, follow-up, measurement and evaluation in nonformal education, personality and attitude development suitable for nonformal educator, promotion of human relations and team work ability, development of skills in solving problem in nonformal and informal education including promotion of morality, ethics and appropriate professional code of conduct for nonformal and informal educator, study visit.

27702 Research in Educational Technology and Communications**(6 credits)*****Objectives***

1. To enable students to analyze and synthesize concepts and theories in educational technology and communications of interest for research;
2. To identify problem for research and details of problems for research;
3. To enable students to design research, develop research instrument, develop research instrument with quality and conduct research on educational technology and communication;
4. To enable students to use statistics for data analysis in accord with research problem;
5. To enable students to publicize and apply educational technology and communications research work.

Course Description

Concepts in educational technology and communication research, research problem, literature, research design which included population and sample group, data compilation, development and verification of quality of test instrument, statistics for research, descriptive research, experimental research, qualitative research and evaluation of educational technology and communication research project, research in system approach and educational design, research in behavior and educational method, research in educational communications, research in environment and educational management, research in educational evaluation and publication, application of educational technology and communications research work.

27703 Systems Approach in Education**(6 credits)*****Objectives***

1. To acquire knowledge and understanding of concepts in system and system approach in education, procedure of system approach in education which included analysis, synthesis of simulation and test of system;
2. To acquire knowledge and understanding of system approach in formal school system, nonformal school system and informal system as well as information society;
3. To acquire knowledge and understanding of system approach in educational communications and system approach in educational media application;
4. To enable students to achieve in system approach in education;
5. To enable students to design instructional system, training system and knowledge and educational resource center;
6. To acquire knowledge of administration and control system in education and broadcasting of educational system.

Course Description

System and system approach, analysis of educational system, synthesis of educational system, construction of simulation in educational system, test of educational system, educational system approach in formal school system, nonformal school system and informal system, educational system approach in information society era, design of instructional system, training system, knowledge and educational resource center, system approach in educational media, system approach in educational media application, individual case in educational system approach, administration and control over educational system and broadcasting of educational system.

27704 Seminar in Educational Technology and Communications**(6 credits)*****Objectives***

1. To acquire knowledge and understanding of academic seminar in educational technology and communications;
2. To acquire knowledge and understanding of theory and research results of scope in educational technology and communications;

3. To compile literature related to scope in educational technology and communications leading to research;
4. To organize seminar in educational technology and communications.

Course Description

Academic seminar in educational technology and communications, seminar in theory and research results in system approach and educational system design, in educational behavior, in educational methodology, in educational communication for learners, media for the impaired, media for the disabled, media for marginal people, and media for inmates, management of educational environment, educational management, and educational evaluation.

27705 Educational Technology and Communications in Human

Resource Development

(6 credits)

Objectives

1. To acquire knowledge and understanding of development of human resource, concepts regarding human resource development, and development of educational technology and communications and development of human resource;
2. To acquire knowledge and understanding of application of educational technology and communications and development of human resource by self-development, study, training, knowledge and environment management;
3. To enable students to use educational technology and communications in information technology service center and distance education;
4. To acquire knowledge and understanding of application of Epiststemology with development of human resource;
5. To enable students to develop human resource to meet with Thai Folk;
6. To cite an example of application of educational technology and communications to development of human resource.

Course Description

Concepts relating to human resource development, educational technology and communications and human resource development, development of educational technology and communications and human resource development, educational technology and communications and human resource development by self-development, study, training, and environment, human resource development in information society era and learning society, resource center for human resource development, information technology and human resource development, distance education and human resource development, Epiststemology and human resource development, human resource development according to Thai Folk, case study in application of educational technology and communications and human resource development.

27706 Instructional Technology and Communications and Training**(6 credits)*****Objectives***

1. To equip students with knowledge and understanding of concepts of instructional technology and instructional communications;
2. To enable students to apply theories of learning and teaching in actual instruction and training;
3. To equip students with knowledge and understanding of audio-visual media for instruction, mass media for instruction, electronic and telecommunications media for instruction, and learning modules;
4. To enable students to develop instructional media innovations for use in schools or informal or non-formal educational settings;
5. To equip students with knowledge and understanding of concepts of training technology and training communications;
6. To equip students with the knowledge and ability to organize and design training programs using appropriate training methods and media;
7. To enable students to evaluate instructional and training technology and communications;
8. To enable students to be aware of the morals and ethics of educational technology professionals.

Course Description

The course covers concepts of instructional technology and communications and theories of learning and teaching in the contemporary educational system. Students will explore the topics of audio-visual media, mass media, electronic and telecommunications media, learning modules, and instructional media innovations for use in schools and in non-formal and informal education settings. The course also covers concepts of training technology and communication; the design and management of training programs, training methods, the use of communications for training and the use of training centers. Students will learn how to evaluate instructional and training technology and communications and about the professional morals and ethics of professional educational technology personnel.

27707 Educational Technology and Communication Management**(6 credits)*****Objectives***

1. To acquire knowledge and understanding of concepts in educational technology and communications management;
2. To acquire knowledge and understanding of planning, organization management, personnel management, facilitation, communications, coordination, control, resource allocation, evaluations and follow-up and results report of educational technology and communications management;
3. To be aware of trends in educational technology and communications management.

Course Description

Concepts regarding educational technology and communications management, dimension system of educational technology and communications management, planning management, personnel management, facilitation, communications, coordination, control, resource allocation, evaluation and follow-up and results report of educational technology and communication management, case studies of educational technology and communication management at local, national, international level and trends in educational technology and communication management.

27708 Electronic and Tele-communication Media in Education (6 credits)***Objectives***

1. To equip students with knowledge and understanding of society in the age of information technology electronic communications, and telecommunications for education, and types of electronic communication for education;
2. To enable students to apply electronic and telecommunications media for education;
3. To equip students with knowledge and understanding of the role of electronic and telecommunications media in schools, training programs and lifelong learning.

Course Description

The course covers topics of society in the information age and education; electronic and tele-communications and education; the digital world and education; computers technology and education; wireless communications and education; types of electronic media for education; educational television; educational radio broadcasting; educational radio and television; communications via microwaves and satellite for education; application of electronic and tele-communication media for education; and the uses of electronic and tele-communications media for education in the school system, for training, and for lifelong learning.

27794 Independent Study (Educational Technology and Communications) (6 credits)***Objectives***

1. To possess appropriate skills and experience in research, innovation study and educational technology;
2. To make use from results of research in educational technology and communications.

Course Description

Selection of problem for research, writing a research project, proposing research project, analysis of literature review, data collection and data analysis, presentation of research report, analysis of research results, application of research results for benefit of educational technology and communications, focus on study in development of appropriate innovation and educational technology.

27795 Thesis (Educational Technology and Communications) (12 credits)

Objectives: Upon completion of the course, students should

1. To be able to select research problems for a thesis.
2. To be able to survey and analyze literature related to the thesis.
3. To be able to design research for the thesis.

4. To gain knowledge and skill in writing and presenting the thesis proposal.
5. To be able to develop quantitative research tools.
6. To be able to develop qualitative research tools.
7. To be able to collect, analyze, and present data for the thesis.
8. To be able to present and defend the thesis examination.
9. To be able to write the complete thesis report.
10. To be able to write the research report for publication.

Course Description

Selection of the research problem; survey and analysis of relevant literature; research design; writing and presenting a thesis proposal; tool development for thesis research, both quantitative and qualitative research; data collection; thesis data presentation; thesis presentation and examination defending; writing the complete thesis report; writing the research report for publication..

27796 Graduate Professional Experience in Educational Technology and Communications

(6 credit)

Objectives

1. To enable students to acquire knowledge and experience in stereotype regarding management in graduate professional experience in educational technology and communications;
2. To develop personality, human relations, team work, leadership in educational technology and communications;
3. To enable students to produce printed media for education, visual media for education, audio media for education and audio visual media for education;
4. To enable students to implement organization establishment project, organization management and educational technology and communications personnel development;
5. To increase proper morality, ethics and professional code of conduct.

Course Description

Stereotype regarding management in graduate professional experience in educational technology and communications, personality development, human relations, team work, leadership, morality for educational technology and communications professional, audio media production for education, audio visual media for education, implementation of founding an educational technology and communications center, establishment of educational technology and communications organization, management of educational technology and communications organization and educational technology and communications personnel development.

29701 Seminar in Science Curriculum and Instruction**(6 credits)*****Objectives***

1. To enable students to explain theories of curriculum, theories of instruction, related psychological theories, and factors that affect the development of curriculum and instruction;
2. To enable students to explain the guidelines for curriculum development, curriculum implementation, curriculum management, instruction supervision, and instructional analysis, evaluation and improvement;
3. To enable students to explain the principles of curriculum development at the national level, institutional-level, subject-level and special group-level science instruction;
4. To enable students to explain the principles of project development and learner development activities for science instruction;
5. To enable students to identify the goals and specific characteristics of science curriculum and instruction development;
6. To enable students to identify future trends in research and development in the field of science curriculum and instruction;
7. To enable students to analyze the present condition and problems related to science learning activities and science learning media;
8. To enable students to search for and find examples of good quality learning activities and learning media for science education;
9. To give students the opportunity to exchange ideas on learning activities and learning media for science education;
10. To enable students to synthesize and present good quality learning activities and learning media for science education.

Course Description

The course covers the topics of curriculum development theories, principles and approaches; curriculum implementation and curriculum management as; instruction supervision; curriculum analysis, evaluation, improvement, and development, national level curriculum; school level curriculum; learning area level curriculum; curriculum for special groups of learners; project development and learner development activities, the goals, specific characteristics, and future trends of research and development of science curriculum development and instructional management; and the academic seminar process and concerning the present condition, problems and trends of science instruction and science instructional media development.

29702 Principles and Theories of Education for the Teaching Profession**(6 credits)*****Objectives***

1. To enable students to explain the philosophy, concepts and theories of education, the context of education, and educational management to promote sustainable development;
2. To enable students to explain basic concepts of the psychology of education, developmental psychology, and guidance and counseling psychology;

3. To enable students to explain the educational system of Thailand and those of other countries, educational development plans and visions, and educational quality assurance;
4. To enable students to explain the importance of the teaching profession and the teaching profession development;
5. To enable students to explain the role, duties, responsibilities, and way of life of the teacher; and teachership and attitudes toward the teaching profession;
6. To enable students to use Thai and English properly to communicate in instruction and to search for information;
7. To enable students to use technology for communications and information retrieval;
8. To enable students to explain the principles of educational management to respond to individual differences in students and to meet the needs of students with special needs.

Course Description

The course covers the topics of philosophy, concepts and theories of education; the religious, economic, social and cultural contexts of education; concepts and strategies of educational management for promoting sustainable development; basic psychology, educational psychology, developmental psychology, and guidance and counseling psychology; the educational system of Thailand and those of other countries; the visions and educational development plans; the principles, concepts and guidelines for practice of educational quality management; educational quality assurance; the importance of the teaching profession; development of the teaching profession; characteristics and standards of the teaching profession; the teacher's roles and duty, functions, and way of life; the teacher's professional ideal; being a teacher and attitudes toward the teaching profession; laws concerning teachers and the teaching profession; the good governance principles and honesty; virtues, morality and codes of ethics for the teaching profession; knowledge management concerning the teaching profession; the uses of Thai and English languages for communications in instruction and for information retrieval; the uses of innovations and technology for communications and information search; principles of educational management to respond to individual differences in students and to meet the needs of students with special needs; mainstreaming learning integration; Thai culture and culture for peaceful co-existence; and educational issues and trends.

29703 Foundations, Methodologies, and Nature of Science Education (6 credits)

Objectives

1. To enable students to explain the history, philosophy and culture of science, and the nature and roles of science and technology; to develop a science curriculum; to understand the goals and specific characteristics of science teaching; to organize learning activities; to select appropriate teaching media and resources; to assess and evaluate learning results; to be able to teach science topics in a suitable way for students of different levels; and to understand trends in the development of science curricula and instruction and the direction of future research in science curricula and instruction;

2. To enable students to design science curricula and manage science instruction in a way that promotes the development of science knowledge, scientific minds and science process skills; to enable students to select appropriate teaching methods, media, techniques and local resources; to enable students to set up a laboratory and make and use scientific equipment; to enable students to use evaluation tools to effectively assess learning results; and to carry out research in science curricula and instruction;
3. To enable students to realize the importance of science and technology in society and the importance of developing students with scientific minds who will be informed citizens with the ability to adapt to changes and advancements in science and technology, the ability to solve problems based on reason, and to live happily in a science- and technology-based society.

Course Description

The course covers the history, philosophy and culture of science, and the nature and roles of science and technology. Students will learn about the goals and specific characteristics of science teaching; how to develop science curricula, how to organize learning activities, how to select appropriate teaching media and resources, and how to assess and evaluate learning results for students of different levels. The course discusses trends in the development of science curricula and instruction and the direction of future research in science curricula and instruction. Students will explore how to design science curricula and manage science instruction in a way that promotes the development of science knowledge, scientific minds and science process skills. They will learn how to select appropriate teaching methods, media, techniques and local resources; how to set up a science laboratory and make and use scientific equipment; and how to use evaluation tools to effectively assess learning results and to carry out research in science curricula and instruction. Students will be encouraged to become aware of the importance of science and technology in society.

29704 Media, Innovation, and Measurement and Evaluation in Science Learning

(6 credits)

Objectives

1. To equip students with knowledge and understanding of basic concepts of media, technology, innovations, electronic and telecommunications media, information technology and communications, audio-visual media, and networking in the provision of science instruction;
2. To equip students with knowledge and understanding of how to select appropriate materials, equipment, tools, processes, computer software, and mobile applications to create and develop media innovations for science instruction;
3. To enable students to design, produce and use learning modules, science process skills training kits, science experiment kits, toys and games, and organizing science activities for science instruction both within and outside of the classroom;
4. To enable students to integrate various media and methods in the provision of science learning experiences;

5. To enable students to organize a system of learning resources and local wisdom for science instruction;
6. To enable students to properly store, maintain and repair science instructional media, materials and equipment;
7. To equip students with knowledge and understanding of research concerning science instructional media and innovations;
8. To equip students with knowledge and understanding of the concepts, tools and innovations for measurement and evaluation of science learning;
9. To enable students to create tools to measure and evaluate science learning outcomes that fit well with the media and activities used for science learning;
10. To equip students with knowledge and understanding of the measurement and evaluation of science instruction quality other at the national and international levels.

Course Description

The course covers basic concepts of media, technology, and innovations in science instruction; the selection of appropriate materials, equipment, tools, processes, computer software, and application programs to create and develop innovative media for science instruction; electronic and telecommunications media, information technology and communications; audio-visual media, providing instruction via network; learning modules; science process skills training kits; science experiment kits; science media and activities both within and outside of the classroom; the integration of various media and methods in the provision of science learning experiences; the organization of a system of learning resources and local wisdom for science instruction; the uses of toys and games in science instruction; the proper storage, maintenance and repair of science instructional media, materials and equipment; research related to media and innovations in science instruction; the concepts of measurement and evaluation of science learning outcomes; the level thinking skills, science workshop skills, and scientific attitude; the measurement and evaluation of science instruction quality at the national and international levels; and instruments and innovations for measurement and evaluation of science learning.

29705 Development of Science Learning Experience Enhancing Activities (6 credits)

Objectives

1. To enable students to explain concepts related to the development of experience-enhancing activities for science learning;
2. To enable students to analyze experience-enhancing activities for science learning from case studies;
3. To enable students to explain how to design experience-enhancing activities for science learning that are suitable for students' needs and the learning context;
4. To enable students to demonstrate their work and try out the experience-enhancing activities for science learning they designed.

Course Description

The course covers concepts related to the design of experience-enhancing activities for science learning as a supplement to learning experiences provided by the regular science curriculum, especially how to design and utilize a wide variety of experience-enhancing activities that make use of local wisdom resources and local intellect, such as science projects, science clubs, science camps, and specialized media and games. Students will practice skills for using scientific equipment and lab equipment, will learn about science process skills training, and will learn how to design and use specialized information technology media for experience enhancement in the field of science. Lastly, they will learn about designing other kinds of learning activities to meet the needs of society in the future.

29708 Science Teacher Profession Practicum During Class**(6 credits)*****Objectives***

1. To acquire knowledge and understanding about the roles and duties of teachers in instructional management.
2. To acquire skills in preparing learning management plans, test designing, measuring and evaluating learners according to the learning objectives.
3. To practice the teaching according to the learning management plans in the simulated situation and in the educational institutions.

Course Description

Observe learning management in educational institutions, design learning management plans for the learners to construct their own knowledge, practice the teaching in the simulated situation and in educational institutions, measure and evaluate students learning outcomes, design test, test items or measurement tools; scoring tests and judgment of learning outcomes, practical exams and scoring, professional teacher development, personality development, human relations; study various departments' tasks in the educational institutions, project plans, educational institutions context, exchange of professional practice experiences during the study.

29709 Teacher Profession Practicum I มหาวิทยาลัย**(6 credits)*****Objectives***

1. To enhance the students' knowledge and experiences concerning the curriculum, provision of learning experiences, writing learning management plans, organizing learning environment conducive to science instruction, classroom management, and other tasks of teachers in actual classroom setting;
2. To enhance the students' self-development to become persons with appropriate personality as well as to possess desirable attributes of science teachers;
3. To develop the students' skills for efficiently solving professional problems;
4. To enhance the students' human relations skills and the ability to work with the others as a team in the organization, and to promote their virtues, morality and professional ethics;

5. To strengthen the students' abilities to adjust to their social role as teachers, and to enable them to create good relationships with the students, their colleagues and other school personnel, parents, and other people in the community;
6. To instill in the students a sense of responsibility for their assigned duties, and to enable them to conduct themselves in accordance with rules and regulations for government officials as well as rules and regulations of the school in which they are doing their practicum;
7. To instill in the students good attitudes and the realization of values of the teaching profession so that they will always strive to uphold the ideals of the education profession.

Course Description

The course provides knowledge and practicum experience concerning curriculum management; provision of learning experiences, writing learning management plans; measurement and evaluation, and application for student development, learning or sharing knowledge in educational seminars; organizing learning environment conducive to science instruction; classroom management; conducting classroom research for instructional development; other tasks of the teacher besides instructional management; enhancing student's self-development to acquire appropriate personality; enhancing the students' desirable attributes of science teachers; enhancing the students' human relations skills and the ability to work with the others as a team in the organization; enhancing the students' virtues, morality and professional ethics; strengthening the students' ability to adjust to their social role as teachers and to create good relationships with the students, their colleagues and other school personnel, parents and other people in the community where the school is located; developing the students' skills for solving professional problems; the inculcation in the students the sense of responsibility for their assigned duties; enhancing the students' conduct and behaviors in accordance with the rules and regulations of the organization; and instilling in the students good attitudes and the realization of values of the teaching profession.

29710 Teacher Profession Practicum II

(6 credits)

Objectives

1. To enhance the students' knowledge and experience concerning the curriculum, provision of learning experiences, writing learning management plans, organizing learning environment conducive to science instruction, classroom management, and other tasks of teachers in actual classroom setting;
2. To enhance the students' self-development to become persons with appropriate personality as well as to possess desirable attributes of science teachers;
3. To develop the students' skills for efficiently solving professional problems;
4. To promote the students' conducting of classroom research aimed at developing science instruction;
5. To enhance the students' human relations skills and the ability to work with the others as a team in the organizational, and to promote their virtues, morality and professional ethics;

6. To strengthen the students' abilities to adjust to their social role as teachers, and to enable them to create good relationships with the students, their colleagues and other school personnel, parents, and other people in the community;
7. To instill in the students a sense of responsibility for their assigned duties, and to enable them to conduct themselves in accordance with rules and regulations for government officials as well as rules and regulations of the school in which they are doing their practicum;
8. To instill in the students good attitudes and the realization of values of the teaching profession so that they will always strive to uphold the ideals of the education profession.

Course Description

The course provides knowledge and practicum experience concerning curriculum management; provision of learning experiences; writing learning management plans; measurement and evaluation, and application for student development, learning or sharing knowledge in educational seminars; organizing learning environment conducive to science instruction; classroom management; conducting classroom research for instructional development; other tasks of the teacher besides instructional management; enhancing student's self-development to acquire appropriate personality; enhancing the students' desirable attributes of science teachers; enhancing the students' human relations skills and the ability to work with the others as a team in the organization; enhancing the students' virtues, morality and professional ethics; strengthening the students' ability to adjust to their social role as teachers and to create good relationships with the students, their colleagues and other school personnel, parents and other people in the community where the school is located; developing the students' skills for solving professional problems; the inculcation in the students the sense of responsibility for their assigned duties; enhancing the students' conduct and behaviors in accordance with the rules and regulations of the organization; and instilling in the students good attitudes and the realization of values of the teaching profession.

29797 Independent Study (Science Education) (6 credits)

Objectives

To equip students with the skills needed to apply the concepts, theories and methods they have learned in the other courses in study, analyzing and conducting research on problems concerning development of curriculum and instruction, especially on topics that are important issues for educational development, or specific topics in which they are interested.

Course Description

The course covers topics on the selection of problems for analysis or research; writing a research proposal; presentation of a research proposal; analysis and review of literature related to the analyzed or research topic; data collection and analysis; writing and presentation of reports on analysis results or research findings.

29798 Thesis (Science Education)**(12 credits)****Objectives:** Upon completion of the course, students should

1. To be able to select research problems for a thesis.
2. To be able to survey and analyze literature related to the thesis.
3. To be able to design research for the thesis.
4. To gain knowledge and skill in writing and presenting the thesis proposal.
5. To be able to develop quantitative research tools.
6. To be able to develop qualitative research tools.
7. To be able to collect, analyze, and present data for the thesis.
8. To be able to present and defend the thesis examination.
9. To be able to write the complete thesis report.
10. To be able to write the research report for publication.

Course Description

Selection of the research problem; survey and analysis of relevant literature; research design; writing and presenting a thesis proposal; tool development for thesis research, both quantitative and qualitative research; data collection; thesis data presentation; thesis presentation and examination defending; writing the complete thesis report; writing the research report for publication.

29799 Graduate Professional Experience in Science Education**(6 credits)****Objectives**

1. To reinforce students' knowledge of the professional rules and standards of education set by the Teachers Council of Thailand, laws related to education, rules and regulations for teachers, professional ethics for teachers and development of the teaching profession;
2. To enhance students' knowledge and experience about curriculum management, provision of learning experiences, and actual educational management in school;
3. To enable students to develop themselves to have proper personality and good attitudes toward for the teaching profession;
4. To build up students' leadership abilities as academic and professional leaders;
5. To promote good human relations and the ability to work together as a team;
6. To enable students to develop problem-solving skills and to promote their professional ethics and morals.

Course Description

This course is an intensive workshop covering the topics of virtues, morality, and professional code of ethics for teachers; developing the teaching profession; analysis of science curriculum and provision of science learning experiences; student's self-development to be equipped with appropriate personality and good attitudes toward the science teacher profession; promotion and development of academic and professional leadership; creating the progress and development of the together as a team; development of professional problem solving skills; and the promotion of professional morals and ethics.

Last updated: 1-October-2019