DOCTOR OF PHILOSOPHY PROGRAM IN EDUCATIONAL TECHNOLOGY AND COMMUNICATIONS
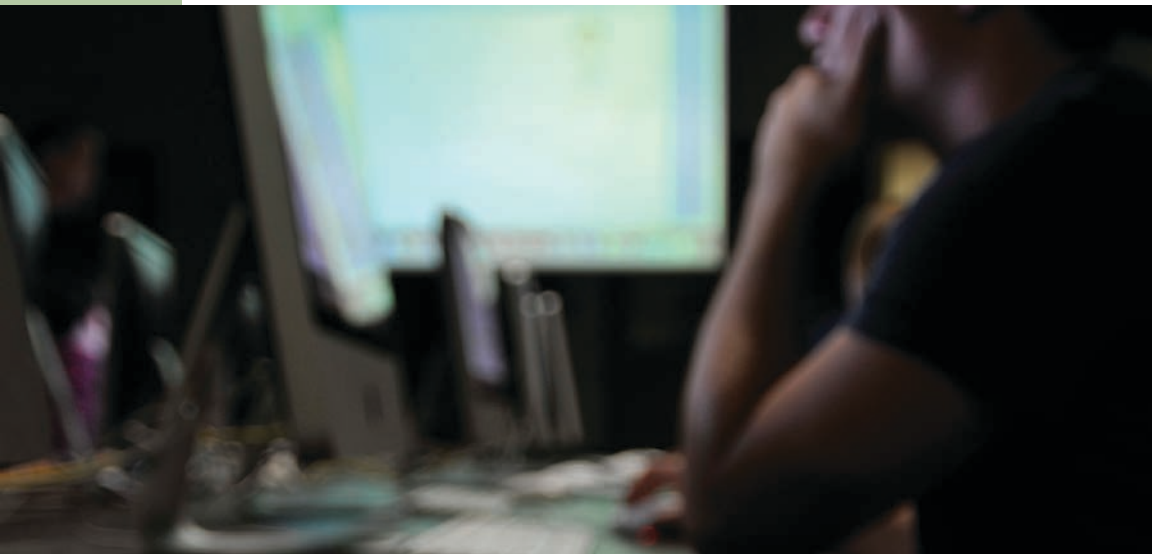
■ FACULTY OF EDUCATION

DOCTOR OF PHILOSOPHY PROGRAM IN
EDUCATIONAL TECHNOLOGY AND COMMUNICATIONS

The Doctoral Program in Educational Technology and Communications aims at producing needed educational personnel at the advanced level to serve as leaders in research and development within the indispensable field of technology and communications in the educational settings.

Objectives

Desirable characteristics of graduates are as follows:

- Competent in creating creative work in the administration and management of educational technology
- Knowledgeable and skillful with good attitudes towards the profession, especially in instructional design using appropriate technology
- Keen in advanced research in the profession

Admission

In accordance with the Graduate School Rules and Regulations. The program committee reserves the rights to require more qualifications as deemed appropriate.

Medium of Instruction

Thai and English

Research Focus

- Educational Technology
- Instructional Technology
- Media Design
- Innovations and Technology

Requirement for Graduation

In accordance with the Graduate School Rules and Regulations.

Doctor of Philosophy Program in
Educational Technology and Communications

■ FACULTY OF EDUCATION

Structure of the Program

1. Credit Requirements. *

Requirements	Option 1.1	Option 2.1	Option 2.2
Coursework	-	12	24
Core Courses	-	9	21
Electives	-	3	3
Required Non-credit Courses	6	6	9
Dissertation	48	36	48
Total	**48**	**48**	**72**

* Minimum credits required.

2. Core Courses

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Credits	Course No.	Credits	Course No.	Credits
Advanced Research in Educational Technology and Communications	-	-	392611	3	392611	3
Advanced Instructional Systems Design	-	-	392612	3	392612	3
The Administration and Management of Educational Technology Organizations	-	-	392622	3	392622	3
Theoretical Foundations of Education	-	-	-	-	366511	3

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Credits	Course No.	Credits	Course No.	Credits
Advanced Educational Technology and Communications	-	-	-	-	355530	3
Management of Learning Resources	-	-	-	-	355531	3
Information and Communication Technologies for Education	-	-	-	-	366515	3
Total	0	0	3	9	7	21

3. Electives

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Credits	Course No.	Credits	Course No.	Credits
Concepts of modernize Educational Technology	-	-	392621	3	392621	3
Leadership in Technologies for Education	-	-	392631	3	392631	3
Selected issues in Educational Technology and Communications	-	-	392641	3	392641	3
Educational Technology and Communication for the Management of Thai Wisdom	-	-	392642	3	392642	3
Total	-	-	4	≥3	4	≥3

4. Required Non-credit Courses.

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Credits	Course No.	Credits	Course No.	Credits
Advanced Research Methodology	390611	3	390611	3	390611	3
Research Methodology in Social Sciences	-	-	-	-	366513	3
Seminar 1	392691	1	392691	1	392691	1
Seminar 2	392692	1	392692	1	392692	1
Seminar 3	392693	1	392693	1	392693	1
Total	4	6	3	6	5	9

5. Dissertation Credit Requirements.

Requirements	Option 1.1		Option 2.1		Option 2.2	
	Course No.	Credits	Course No.	Credits	Course No.	Credits
Dissertation 1	392651	6	392661	4	392671	6
Dissertation 2	392652	6	392662	6	392672	6
Dissertation 3	392653	8	392663	8	392673	8
Dissertation 4	392654	8	392664	8	392674	8
Dissertation 5	392655	10	392665	10	392675	10
Dissertation 6	392656	10	-	-	392676	10
Total	6	48	5	36	6	48

Course Descriptions

355530 Advanced Educational Technology and Communications   3(3-0-6)

Analysis and synthesis of theories, principles, issues, trends, and research in educational technology and communications as the foundation for designing, developing, and researching in educational technology and communications.

355531 Management of Learning Resources   3(3-0-6)

Administration and management of learning centers and learning resources, database system designs, and network systems for educational purposes.

366511 Theoretical Foundations of Education   3(3-0-6)

Role and importance of philosophy in education, philosophy of curriculum planning, instruction and assessment in education, foundation of psychology theories in learning and human development, educational psychology, guidance and counseling psychology, meaning and contents of educational sociology, roles of education to society, schools as social organizations, life-long education and role of education in globalization with emphasis on integration of the perspectives and the theories in education, and integration of the knowledge of teaching.

366513 Research Methodology in Social Sciences   3(3-0-6)

Research definitions, characteristics, and goals; types and research processes; research problem determination; variables and hypothesis; research design; data collection; data analysis; proposal and research report writing; research evaluation; research application; ethics of researchers; and research techniques in social sciences.

366515 Information and Communication Technologies for Education 3(3-0-6)

Theories, models, and strategies; innovation development; designing and applying information and communication technology for learning, research, educational administration, and management.

390611 Advanced Research Methodology 3(3-0-6)

Philosophical foundations, epistemology, and logical principles in research inquiry and in drawing conclusions from research results; research designs; advanced data analysis techniques; weaknesses and strengths in different types of research; and multidisciplinary research.

392611 Advanced Research Educational Technology and Communications 3(3-0-6)

Principles and designs of research for educational technology and communications, analysis of current literature, research management evaluation, and mini-research project design, and dissemination of research.

392612 Advanced Instructional Systems Design 3(3-0-6)

Analysis and synthesis of advanced instructional system design with emphasis on a study of the underlying concepts, theories, models, and components of design; and development of appropriate instructional systems.

392621 Concepts to Modernize Educational Technology 3(3-0-6)

Application of principles and research findings to modernize educational technology and system approaches to the development of appropriate technologies for education.

392622 The Administration and Management of   3(3-0-6)
Educational Technology Organizations

The administration and management of educational technology organizations; discussion of the studies in terms of creativity, innovation, and universality of practices in organization management to increase productivity and efficiency in education; and application of information technology to administration and management.

392631 Leadership and Change Management   3(3-0-6)

Concepts, theories, and models of leadership in educational technology with special emphasis on the connection between innovation and educational technology development and management in education; socio-economic, cultural changes particularly technological changes and the impacts on man and the environment; and the development of leadership using technology.

392641 Selected Issues in Educational Technology and   3(2-2-5)
Communications

Concepts and changes in educational technology and communication, standards of educational technology and communication with emphasis on organization, and factors affecting educational technology and communications.

392642 Educational Technology and Communications for   3(2-2-5)
the Management of Thai Wisdom

Principles, concepts, and theories of educational technology and communications relevant and applicable to the promotion of Thai wisdom which will lead to the revival and application of Thai wisdom in the management of education; analysis and synthesis of external factors contributing to the creation of Thai wisdom; and the development of Thai wisdom activities in the provision of education.

392651 Dissertation I, Option 1.1 — 6 credits

Preliminary study and reading, intensive reading in educational technology and communications research and development trends, study of advanced research related to educational technology and communications, research title based on creativity, development of the body of knowledge, construction of educational technology and communications innovation which can be used for the country's educational development, and presentation of a conceptual framework.

392652 Dissertation II, Option 1.1 — 6 credits

Writing the proposal covering Chapters 1-3, completing of the first draft of the proposal, submitting it to the supervisory committee chair, rewriting the research proposal, and resubmitting it to the committee chair.

392653 Dissertation III, Option 1.1 — 8 credits

Submitting the draft of the research proposal to the Graduate School through the Faculty of Education for committee appointment and proposal approval; proposal examination by the Examination Committee set by the Faculty of Education, and revising Chapters 1-3 of the research proposal as recommended by the Proposal Exam Committee.

392654 Dissertation IV, Option 1.1 — 8 credits

Submitting the examined research proposal to the Graduate School for approval and announcement, and developing innovation and research tools.

392655 Dissertation V, Option 1.1 — 10 credits

Collecting research data, analyzing data, and writing research results, summary, discussion, and recommendation.

392656 Dissertation VI, Option 1.1 — 10 credits

Submitting the completed draft of the dissertation to the committee chair; rewriting the draft of the dissertation previously submitted; submitting the corrected and revised dissertation to the Graduate School for oral examination upon approval of the Advisory Committee, the Department Head, and the Faculty of Education; passing the oral examination; and submitting the completed dissertation to the Graduate School.

392661 Dissertation I, Option 2.1 — 4 credits

Preliminary study and reading, intensive reading in educational technology and communications research and development trends, study of advanced research related to educational technology and communications, research title based on creativity, development of the body of knowledge, construction of educational technology and communications innovation which can be used for the country's educational development, and presentation of the conceptual framework.

392662 Dissertation II, Option 2.1 — 6 credits

Proposal writing covering Chapters 1-3, completing the first draft of the proposal, submitting it to the supervisory committee chair, rewriting the research proposal, and resubmitting it to the committee chair.

392663 Dissertation III, Option 2.1 — 8 credits

Submitting the draft of the research proposal to the Graduate School through the Faculty of Education for committee appointment and proposal approval, proposal examined by the Examination Committee set by the Faculty of Education, revising Chapters 1-3 of the research proposal as recommended by the committee, submitting the examined proposal to the Graduate School for approval and announcement, and developing innovation and research tools.

392664 Dissertation IV, Option 2.1   **8 credits**

Collecting research data; analyzing data; and writing research results, summary, discussion, and recommendation.

392665 Dissertation V, Option 2.1   **10 credits**

Submitting the completed draft of the dissertation to the committee chair; rewriting the draft of the dissertation previously submitted; submitting the corrected and revised dissertation to the Graduate School for oral examination upon approval of the Advisory Committee, the Department Head, and the Faculty of Education; passing the oral examination; and submitting the completed dissertation to the Graduate School.

392671 Dissertation I, Option 2.2   **6 credits**

Preliminary study and reading, intensive reading in educational technology and communications research and development trends, study of advanced research related to educational technology and communications, research title based on creativity, development of the body of knowledge, construction of educational technology and communications innovation which can be used for the country's educational development, and presentation of the conceptual framework.

392672 Dissertation II, Option 2.2   **6 credits**

Proposal writing covering Chapters 1-3, completing the first draft of the proposal, submitting it to the supervisory committee chair, rewriting the research proposal, and resubmitting it to the committee chair.

392673 Dissertation III, Option 2.2   **8 credits**

Submitting the draft of the research proposal to the Graduate School through the Faculty of Education for committee appointment and proposal approval, proposal examination by the Examination Committee set by the Faculty of Education, and revising Chapters 1-3 of the research proposal as recommended by the Proposal Exam Committee.

392674 Dissertation IV, Option 2.2 — 8 credits

Submitting the examined research proposal to the Graduate School for approval and announcement, and developing innovation and research tools.

392675 Dissertation V, Option 2.2 — 10 credits

Collecting research data; analyzing data; and writing research results, summary, discussion, and recommendation.

392676 Dissertation VI, Option 2.2 — 10 credits

Submitting the completed draft of the dissertation to the committee chair; rewriting the draft of the dissertation previously submitted; submitting the corrected and revised dissertation to the Graduate School for oral examination upon approval of the Advisory Committee, the Department Head, and the Faculty of Education; passing the oral examination; and submitting the completed dissertation to the Graduate School.

392691 Seminar I — 1(0-3-2)

Critical reading, synthesis seminar, and discussion on interesting issues in educational technology and communications; and presentation for the management of different forms of education.

392692 Seminar II — 1(0-3-2)

Seminar and discussion on recent issues and trends in economics, society, and politics relevant to educational technology and communication research topics.

392693 Seminar III — 1(0-3-2)

Seminar and discussion of research strategies in the field of education technology and communications.