

## COURSE DETAILS

### Master' Degree

#### 91720 Agricultural Extension for Development

(6 credits)

**Objectives** Upon completion of the course, students should:

1. Have knowledge and understanding about Thai society and concepts, theories, and principles of agricultural extension and development.
2. Have ability to analyze the relationship between Thai society and agricultural extension and development.
3. Have ability to apply concepts, theories, and principles of agricultural extension and development appropriately with the changes in Thai society.

#### **Course Description**

Thai society attributes; society components and structure; Social institutions; relationship between urban society and rural society; Changes in Thai society; relationship between Thai society and agricultural extension and development; concepts, theories, and principles of agricultural extension and development; paradigm in agricultural extension and development; comprehensive community analysis for development; knowledge management for development; group and network development; appropriate psychology and human relationship for farmers; development communication for agricultural extension and development; problem analysis and guideline determination in agricultural extension and development appropriated with changing situations.

#### 91722 International Agricultural Extension and Development

(6 credits)

**Objectives** Upon completion of the course, students should:

1. Have knowledge and understanding about geographic conditions, economy, society, agricultural production system and agricultural trades in various regions in the world.
2. Have knowledge and understanding about system and strategies of agricultural extension and development in developed and developing countries.
3. Have knowledge and understanding about agricultural extension and development policies of international organizations, international private development organizations, and international cooperative treaties.
4. Have ability to apply knowledge about policies, systems, and strategies in international agricultural extension and development level and adopt such knowledge in agricultural production extension and development for export of Thailand.

#### **Course Description**

Policies of agricultural extension and development of international organizations, foreign organizations, and international non-governmental organizations along with international cooperative treaties on agriculture; needs, production situation, processing, and trades of important agricultural products in various regions; evolution of agricultural system, farmers, policies, systems, strategies, and agricultural extension and development trends of developed and developing countries; crucial

information and concepts about agricultural extension and development analysis and synthesis for application in Thailand.

**91723 Research and Statistics for Agricultural Extension and Development (6 credits)**

**Objectives** Upon completion of the course, students should:

1. Have knowledge and understand principles, methods, and processes of research in agricultural extension and development.
2. Have ability in utilization of statistics for research data analysis of agricultural extension and development.
3. Have ability in applying research in agricultural extension and development.

**Course Description**

Research concepts and theories, research regulations, research methods and processes; various kinds of researches; statistics in research data analysis; research writing and dissemination; research results for agricultural extension and development; research application for agricultural extension and development.

**91724 Research and Statistics for Agricultural Extension and Development (6 credits)**

**Objectives** Upon completion of the course, students should:

1. Have knowledge and understand resources for agricultural extension and development.
2. Have ability in analysis of resource situation for agricultural extension and development.
3. Have ability to manage resources within globalized economy and climate change conditions or sustainable agricultural extension and development.

**Course Description**

Characteristics, types, components and situation of resources for agricultural extension and development; analysis of resource origin, conservation, development, and utilization; human resource development; management of inside and outside farm resources by consideration of the impacts at farming, local, and global levels for sustainable agricultural extension and development.

**91725 Communication in Agricultural Extension and Development (6 credits)**

**Objectives** Upon completion of the course, students should:

1. Have knowledge and understand concepts, theories, and principles of communication in agricultural extension and development.
2. Have ability in analysis of the relationships between communication and agricultural extension and development.
3. Have ability in analysis of roles and significances of various kinds of communication to agricultural extension and development.
4. Have ability in application of communication to agricultural extension and development.

**Course Description**

Concepts, theories, and principles of communication in agricultural extension and development; relationships between communication and agricultural extension and development; roles and significances of various kinds of communication in agricultural extension and development; planning, management system, communication network establishment, and communication technology; production

and application of communication to agricultural extension and development; research for communication; problem analysis and guidelines for agricultural extension and development.

**91726 Organization for Agricultural Extension and Development (6 credits)**

**Objectives** Upon completion of the course, students should:

1. Have knowledge and understand concepts, principles, and theories of government, private, public, and non-government organization for agricultural extension and development including establishment and analysis of these organizations.
2. Have ability in analysis of the organization and the leaders in organization for agricultural extension and development.
3. Have ability in setting guidelines of establishing organization for agricultural extension and development.

**Course Description**

Concepts, principles, theories, and strategies for the operations of government, private, public, and non-government organization for agricultural extension and development; establishment, analysis, management, and group process; participation of group and organization in agricultural extension and development; establishment and development of organizational network and leaders; gender roles in organization; women and youth in the development; problem analysis and guidelines in the development of organization for agricultural extension and development.

**91727 Administration and Communication for Agricultural Extension and Development (6 credits)**

**Objectives**

1. Have knowledge and understanding about agricultural extension and development management, able to analyze changes and develop management system regarding agricultural extension and development.
2. Have knowledge, understanding, and an analysis about concepts, organizational management principles, leadership creation and development, and volunteering for agricultural extension and development.
3. Have knowledge, understanding, and analysis about communication, roles, and importance of media in order to apply for agricultural extension and development.

**Course Description**

Concepts, theories, and general management techniques; management of agricultural extension and development, thinking and analyzing paradigm in support of social changes; creation and management of organizations in agricultural extension and development; leadership and volunteering creation for agricultural extension and development; concepts, theories, principles, roles, duties, and importance of communication for agricultural extension and development; analysis, principles, and theories of communication; systemic organization and planning for communication; creation of communication network; media application in agricultural extension and development.

**91794 Independent Study (Agricultural Extension and Development) (6 credits)**

**Objectives** Upon completion of the course, students should:

1. Have knowledge and understand concepts of independent study.
2. Have ability in producing independent study by applying concepts, theories, and principles from various courses in the program of study.

**Course Description**

Concepts and processes of independent study; production and dissemination of independent study results from research, conceptual analysis, model building, or writing academic document; Utilization of researches by integrated knowledge.

**91795 Thesis (Agricultural Extension and Development) (12 credits)**

**Objectives** Upon completion of the course, students should:

1. To enable to select problems for research thesis.
2. To enable to survey and analyze literature related to thesis title.
3. To enable to design research thesis.
4. To acquire knowledge and skills in writing and submitting a research project.
5. To enable to develop quantitative research tools.
6. To enable to develop qualitative research tools.
7. To enable to collect, analyze and submit data for thesis.
8. To enable to present and defense thesis.
9. To enable to write a complete thesis report.
10. To enable to write a research report for publication.

**Course Description**

Selection of problems for research thesis, survey, analysis of literature review, research design, writing and submitting thesis project, development of instrument for research thesis, both quantitative research and qualitative, data collection, submission of thesis data, presentation and defense in thesis examination, writing a complete thesis report and writing a research report for publication.

**91796 Graduate Professional Experience in Agricultural Extension and Development (6 credits)**

**Objectives** Upon completion of the course, students should:

1. Gain knowledge and experience in addition to the distance teaching-learning system.
2. Develop appropriate personality and have positive attitude towards occupation in agricultural extension and development.
3. Develop academic leadership in the field of agricultural extension and development.
4. Have human relationship and group-working ability.
5. Develop creative and conceptual thinking, and have skill for in agricultural extension and development.
6. Gain morality, loyalty, and ethics for working in agricultural extension and development.

***Course Description***

Applying knowledge of agricultural extension and development to occupation; Human Development for appropriate personality and positive attitude towards occupation in agricultural extension and development; academic leadership development; development of human relationship and group-working ability; creative and conceptual thinking; problem solving skill; morality, loyalty, and ethics for working in agricultural extension and development.

**92711 Business Strategic Management for Co-operatives****(6 credit)*****Objectives***

1. To give students knowledge and understanding of general idea on co-operative ideology, principles and methodology. Job descriptions and co-operative structures. Moral, ethics and professional ethics in co-operatives.
2. To give the knowledge of concept of administration, process and technique of strategic management for co-operatives administration.
3. To give the analytical skill applied the model of analysis and strategic decision at difference level.
4. To enable apply the knowledge of strategic management for co-operatives business administration.

***Course Description***

General idea on co-operative ideology, principles and methodology. Job descriptions and co-operative structures. Moral, ethics and professional ethics in co-operatives. General idea and concept of administration, process and technique of strategic business administration related to co-operatives' policy formulation, strategic targeting, strategic selection and analyzing levels of strategic management of a co-operative. General concept and technique related to strategic operation of a co-operative. An analyzing of co-operative's strategic management and application of the idea and concept in co-operatives' administration.

**92712 Accounting and Finance for Co-operatives Management****(6 credit)*****Objectives***

1. To give knowledge and understanding of accounting and finance for co-operatives administration.
2. To give knowledge and ability of analysis of operation and financial status for co-operative administration.
3. To give knowledge and understanding in financial management, assets, liabilities and capital of co-operatives.
4. To give knowledge and ability for financial planning and financial control of co-operatives administration.
5. To enable for applying the knowledge of accounting and finance for co-operative management.

***Course Description***

General idea on financial management and accounting of co-operative. An Operational analysis of financial status, asset liability and capital management of co-operative financial planning and controlling accounting as well as co-operative finance.

**92713 Statistics and Research for Co-operatives****(6 credit)*****Objectives***

1. To give knowledge and understanding of principles co-operative research methods and processes.
2. To enable the analytical use statistics to analyze research data in co-operatives.
3. To give the computer programs for research in co-operatives.
4. To enable for applying the knowledge and statistics and computer programs in co-operatives research.
5. To enable for apply statistical knowledge and co-operative research to apply in co-operative administration

***Course Description***

Statistic principles, methodology and procedure in Co-operative research. Type of research using in research and development in co-operatives Statistics and computer programs using in data analyzing of co-operatives research. Composing research proposal or thesis. Formatting and presentation of co-operative or thesis. A case study on co-operative researches for an application on co-operative business administration.

**92714 Production and Marketing Management for Co-operatives****(6 credit)*****Objectives***

1. To give knowledge and understanding of production and marketing of co-operatives administration, the importance of marketing in economy, planning and organizing of marketing as well as marketing strategy.
2. To enable the analytical skill of production, marketing and production plan as well as co-operatives marketing.
3. To enable knowledge of trade policy Rules and regulations regarding production and marketing both inside and outside the country.
4. To enable for applying the knowledge of production and marketing administration in co-operatives

***Course Description***

General idea on co-operative production and marketing. An importance of co-operative marketing in business system. Co-operative's planning and organizing of production and Marketing organization. Co-operative Marketing and Production strategies. Applying production concept in co-operative's marketing in co-operative business administration. Structure of co-operative operation and important marketing channels. Marketing institutions and organizations. Domestic and foreign co-operative marketing management. Trade policies, codes, rules and regulations, and measures in product management both imported and exported. Impacts, problems, and guidelines for an administrating and developing of co-operative marketing both domestic and foreign markets and the application of production and marketing management for co-operative management.

**92715 Human Resources Management in Co-operatives****(6 credit)*****Objectives***

1. To give students knowledge and understating about concepts of human resource administration in co-operatives.
2. To enable the ability of planning and developing in human resource administration in co-operatives.
3. To enable the application of concepts of human resource administration in co-operatives.

***Course Description***

Principles and concept in Co-operatives human resources administration. Area of responsibility in co-operative human resources administration, starting from human resource planning, recruiting, human resource development, an appraisal of job operation, incentive system, compensation management, benefit and welfare, discipline, moral and etiquette, healthcare and sanitation, laws and organizations related to human resource management. Relationship between human resource administration and technology, environment, social and politic. Principle application Human resource management concepts for personal development in cooperatives.

**92718 Seminar on Co-operatives Business Management****(6 credit)*****Objectives***

1. To give knowledge and understanding of the situations in co-operatives business administration.
2. To enable the management of seminar on co-operatives business administration effectively.
3. To enable the application of knowledge of administration for co-operatives development.

***Course Description***

Study and exchange opinions on operational problems. Co-operative business administration of Thailand Analysis of practical problems and co-operative development guidelines using principles and methods of co-operative business management in various fields Applied to co-operative administration.

**92794 Independent Study (Co-operatives)****(6 credit)*****Objectives***

1. To have the skills of concepts, theories, and study methodology from all courses in order to apply for independent study.
2. To study, analysis and research on co-operatives for independent study as well as other related topics.

***Course Description***

Selection, analysis or research on the selected co-operative problems; comprising research proposal and presentation; review literatures relevant; procedures of data collecting and analysis; writing the report and presentation in co-operative.

**92795 Thesis (Co-operatives)****(12 credit)*****Objectives***

1. To enable to select problems for research thesis.
2. To enable to survey and analyze literature related to thesis title.
3. To enable to design research thesis.
4. To acquire knowledge and skills in writing and submitting a research project.
5. To enable to develop quantitative research tools.
6. To enable to develop qualitative research tools.
7. To enable to collect, analyze and submit data for thesis.
8. To enable to present and defense thesis.
9. To enable to write a complete thesis report.
10. To enable to write a research report for publication.

***Course Description***

Selection of problems for research thesis, survey, analysis of literature review, research design, writing and submitting thesis project, development of instrument for research thesis, both quantitative research and qualitative, data collection, submission of thesis data, presentation and defense in thesis examination, writing a complete thesis report and writing a research report for publication.

**92796 Graduate Professional Experience for Co-operatives****Business Management****(6 credits)*****Objectives***

1. To encourage students knowledge and experiences beyond class rooms.
2. To develop the students' personality and good attitude for co-operatives business administration.
3. To encourage and develop students' leadership and academic development in co-operatives careers.
4. To encourage the human relationship and ability of team work.
5. To develop the skills of problem solving effectively as a management level.
6. To enrich moral, ethics as well as professional ethics for co-operatives managers.

***Course Description***

Organization analysis and structuring; applying knowledge in co-operative management and administration in profession; analysis and development of information system for co-operative management; personality and positive attitude development towards Co-operative Business administration; leadership development; creating human relation and group working ability; skill development in problem solving for co-operative management; including creation of moral, royalty, and ethics relevant to cooperators.

**95709 Principle of Agricultural Resources Management****(6 credits)*****Objectives***

1. To provide knowledge and understanding of the principles of agricultural resources management.
2. To apply principles of agricultural resources management in agricultural operations.

***Course Description***

Meaning and concepts of agricultural resources management; the agricultural resources management process on a micro and macro scale; information technology in agricultural resources management; sustainable management; analysis and decision-making under limited resource situations; selection of appropriate technology; environmental impact analysis; related laws and regulations; social and environmental responsibility; application of agricultural resources management knowledge in agricultural operations.

**95710 Research Methodology in Agricultural Resources Management****(6 credits)*****Objectives***

1. Have knowledge and understanding in research in agricultural resource management.
2. Able to integrate research knowledge into the development of agricultural resource management.

***Course Description***

Concepts of research in agricultural resource management in plants, animals, agribusiness forest resources and environment research process types and methods of research statistics for research interpretation and interpretation of analysis results statistics, application of statistics and research methods ethics and ethics in research Examples and research techniques in agricultural resource management.

**95711 Resources Management for Crop Production****(6 credits)*****Objectives***

1. Have knowledge and understanding in resource management for crop production.
2. Able to integrate knowledge in resource management for plant production systematically.

***Course Description***

Resources for crop production, Production management and plant production systems Post-harvest product management increasing the value of standard crop production, Production of agricultural products in plants marketing management supply chain management for agricultural products in plants analysis of plant production projects integration of management for crop production in accordance with the environment, society, economy, rules and regulations and various standards morally and ethically.

**95713 Resources Management for Animal Production****(6 credits)*****Objectives***

1. To provide knowledge about the resources and its management for animal production.
2. To apply the knowledge in resource management for animal production.

***Course Description***

This course will teach about the domestic animal production systems, which includes live stocks, poultry, and aquatic animals, as well as resources and its management for animal production by considering the environment, regulations, legislation, standards, and morality.

**95721 Seminar Issues Related to Resource Management for Crop Production (6 credits)*****Objectives***

1. Study situation related to resources management for crop production.
2. Study, research, analyze and synthesize about academic content and write academic report.
3. Knowledge and experience in academic presentation and organizing academic seminar.

***Course Description***

The education of current situation related to resources management for crop production. The process of setting topics and organizing academic content. The study, research, analysis and synthesis of academic information. The writing proposals for academic content and publishing academic papers. The preparation of media for academic presentation. The presentation and public discussion of interesting topics in resource management for crop production and organizing academic seminars and evaluation of academic seminars.

**95722 Business Management for Animal Production (6 credits)*****Objectives***

1. To provide knowledge about the involved business and its management for animal production.
2. To apply the obtained knowledge to business planning and development for animal production.

***Course Description***

This course will teach about the business systems, the analysis of business environment, related data and business planning, business management, as well as the management of logistics and supply chain for the production of live stocks, poultry, and aquatic animals by considering the environment, regulations, legislations, standards, and morality.

**95723 Knowledge Management in Resource Management for Animal Production (6 credits)*****Objectives***

1. To provide knowledge about the knowledge management in resource management for animal production.
2. To publicize the knowledge in resource management for animal production.

***Course Description***

This course will teach about the concept of knowledge management, the management of knowledge in resource management for animal production, and the study of current situations involving with the resource management for animal production. The course will also look into the research, the analysis, and the synthesis of academic content, the publication of academic content, the guidelines in making media presentation for academic seminars, and the exchange of opinions and ideas in certain topics about the resource management for animal production based on morality and academic ethics.

**Note:** This course is required for those who want to have at least 15 credits in the resource program for animal production.

**95724 Resource Management for Agribusiness****(6 credits)*****Objectives***

1. To gain knowledge of resource management in agribusiness.
2. To enable to analyze and make decision of resource management in agribusiness.
3. To enable to apply knowledge gained to resource management in agribusiness.

***Course Description***

Concepts and principles of resource management in agribusiness; organization and management; economics for management; marketing, financial, procurement, production/operations, logistics and human resource management; making agribusiness plans; taking into account of business integration and value chain in agribusiness; ethics and responsibility in management and sustainable resource management in agribusiness.

**95725 Innovation in Agribusiness****(6 credits)*****Objectives***

1. Gain knowledges in Agribusiness's innovation.
2. Abilities to analyze and making decision in Agribusiness management's innovation.
3. Abilities to apply innovation's knowledges in Agribusiness.

***Course Description***

Conception of innovation in Agribusiness, Management process in creation of value added, in product differentiation and enhance the ability to compete of the organization, law and measures concerning with the innovation framework, agribusiness and creative economics in innovations, adaptation of innovation in agribusiness managements, which emphasize on economics value and also responsible for social and environment.

**95726 Resource Management for Forestry and Environment****(6 credits)*****Objectives***

1. To provide students' knowledge concerning forest resources and management.
2. To provide students' knowledge on forest resources and management for conservative and economics aspect.
3. To provide students' knowledge on the guidelines for forest resources management and environment.
4. To enable students to integrate the knowledge of sustainable management for forest resources and environment.

***Course Description***

Knowledge concerning forest resource and management, fundamental of forest management for economics social and environment, ecosystem management, forest certification, evaluation of forest and environment values, financial analysis and investment for forest and environment, etc. forest resource management for specific purposes including moral and ethics for resource management for forest.

**95727 Administration for Forestry****(6 credits)*****Objectives***

1. Having knowledge about theories and principles of administration, public administration, business administration, and project management.
2. Having knowledge about the principles of economics for decision making.
3. Having knowledge about forest policy, policy-driven, laws and regulations related to forest administration.
4. Capability to apply knowledges for forest administration.

***Course Description***

Theories and principles of administration, public administration, business administration, and forest project. Economics and the other fields for decisions making about forest administration. Administration guidelines for public forest management, forest project management, forest business management, and community forest management. Forestry policy and a policy-driven, laws and regulations related to forest administration. Case studies of the various aspects of forest administration.

**95728 Knowledge Management for Forest Resource and****(6 credits)****Environment Management*****Objectives***

1. Having Knowledge about knowledge management related to forest resources management and environment.
2. Able to research, analyze, and synthesize content on interested issues related to forest resources management and environment.
3. Having experiences and skill on academic writings related to forest resources management and environment.
4. Having knowledge and experience in academic presentations related to forest resources management and environment.

***Course Description***

Knowledge management related to forest resources management and environment. Guidelines for setting topic study, research, analyze, and synthesize on academic information. Writing and publishing academic papers related to forest resources management and environment. Preparation of media for presentations and presentations in conferences. Discussion on issues related to forest resources management and environment, moral, ethics, and academic ethics.

**Note:** This course is required for those who want to have at least 15 credits in the resource program for animal production.

**95729 Basic Knowledge in Agriculture****(6 credits)*****Objectives***

To give students knowledge of agriculture, forest resource and environment.

***Course Description***

Thai and world agriculture, agricultural economy, agricultural resource, ecological system of agriculture, technology and management in agriculture, forest resource and environment and agribusiness.

**95794 Thesis (Agricultural Resources Management)****(12 credit)*****Objectives******Objectives***

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.

**95795 Independent Study****(6 credits)*****Objectives***

1. To give students skills and experience in using the educational system and research to find knowledge about agricultural resources management.
2. To enable students to study and research problems in agricultural resources management.

***Course Description***

Structure and forms of independent study; selecting research topics in the field of agricultural resources management; researching a problem; writing project proposals; presenting a project; reviewing the literature; data collection; data analysis; writing a report and presenting research or study findings.

**95796 Graduate Professional Experience in Agricultural  
Resources Management****(6 credits)*****Objectives***

1. Increase knowledge Skills and experience in agricultural resource management.
2. Personality development, leadership and ability to work together.
3. Strengthen morality and ethics in the profession.

***Course Description***

Integration of agricultural resources management knowledge for professional application; analysis skills for specific areas of agricultural resource management; developing one's personal characteristics and attitudes for work in agricultural resources management; developing leadership; strengthening human relations skills and teamwork; developing agricultural resource management skills; promoting morality and professional ethics.

**Last updated: 12-June-2020**