

## COURSE DETAILS

### Doctoral Degree

#### 91901 Advanced Agricultural Extension and Development

(6 credits)

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

1. Analyze, synthesize, and process knowledge regarding concepts, philosophy, theories, and principles of agricultural extension and development.
2. Apply concepts, philosophy, theories, and principles in agricultural extension and development work.

#### **Course Description**

Theories, philosophy, and principles of agricultural extension and development; analytical approach about agricultural extension and development; knowledge theories; knowledge management; theories of communication; application of media and technology in agricultural extension and management; theories related to agricultural extension and development management; planning and evaluation of agricultural extension and development project; organizational development; along with self-sufficiency economy philosophy and agricultural competition in global market.

#### 91902 Advanced Research in Agricultural Extension and Development

(6 credits)

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

1. Analyze agricultural extension and development contexts in order to determine the research problems.
2. Understand advanced research method for agricultural extension and development research.
3. Select quantitative research, qualitative research, and mix method research in agricultural extension and development.
4. Synthesize and create knowledge from agricultural extension and development research.
5. Disseminate research results to apply in agricultural extension and development.

#### **Course Description**

The analysis of agricultural extension and development contexts; advanced research method; determination of research problem; quantitative research; qualitative research; mixed methods research; research and development of innovations and models; creation of advanced knowledge in agricultural extension and development by conducting research; dissemination and application of research results; strengthening and capacity building of agricultural extension and development personnel to be able to conduct and apply the research.

**91903 Advanced Research in Agricultural Extension and Development****(6 credits)****Objectives** Upon completion of the course, students should:

1. Select appropriate statistics for various kinds of researches and data in agricultural extension and development.
2. Analyze research data in agricultural extension and development by using appropriate computerized program package with various types of statistics.
3. Interpret and describe data analysis results of research in agricultural extension and development.

**Course Description**

Consideration and selection of appropriate statistics with types of research and data in agricultural extension and development; application of computerized program package in quantitative and qualitative data processing along with the interpretation of the results of research data analysis in agricultural extension and development; important statistics for researches in agricultural extension and development including statistics for checking and testing of research instruments; comparison of data; correlation of data; non-parametric statistical analysis and multivariate analysis.

**91904 Issues in Agricultural Extension and Development****(6 credits)****Objectives** Upon completion of the course, students should:

1. Select issues and problems in agricultural extension and development.
2. Analyze concepts, theories, and principles of agricultural extension and development related to issues and problems.
3. Analyze and create knowledge to solve problems in agricultural extension and development.
4. Create knowledge exchange and connecting to agricultural extension and development

**Course Description**

The analysis, synthesis, and application of concepts, theories, and principles of agricultural extension and development in the improvement of agricultural extension and development; analysis and synthesis of interested issues in agricultural extension and development in order to lead to research conduct; application concepts, theories, and principles of agricultural extension and development in conducting researches; application and creation of new knowledge in agricultural extension and development by conducting research; synthesis of approaches in conducting research to solve agricultural extension and development.

**91998 Dissertation (Agricultural Extension and Development)****(36 credits)****Objectives** Upon completion of the course, students should:

1. Organize and submit dissertation project.
2. Design the research and conduct the dissertation.
3. Writing dissertation report.
4. Have dissertation defense.
5. Writing a paper of dissertation for acceptance to be published in a national or international Journal.

### ***Course Description***

Research problem selection; research planning, reviewing related literatures, and submitting dissertation project; research design, population and sample selection; variable measurement, and data analysis; submitting dissertation proposal for approval; development and test of research instrument; data collection and analysis; interpretation and presentation of data analysis results; conclusions, discussions, and recommendations; writing research report and submitting for dissertation defense; writing a paper of dissertation for acceptance to be published in a national or international journal.

### **91999 Doctoral Professional Experience in Agricultural Extension**

**(6 credits)**

#### **and Development**

***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 the leadership skill for effective solving problems in agricultural extension and development.
6. Gain morality, loyalty, and ethics appropriate to occupation.

### ***Course Description***

Analysis of important issues of agricultural extension and development; exchanges of visions and experiences in conducting activities of agricultural extension and development; personality development and positive attitude for working in agricultural extension and development; development of human relationship and group-working ability; Develop the skills for solving problems in agricultural extension and development; morality, loyalty, and ethics for working in agricultural extension and development.

### **95901 Information Analysis for Advance Research and**

**(non-credited)**

#### **Development in Crop Production**

***Objectives*** Upon completion of the course, students should be able to;

1. Conduct research and select appropriate statistic.
2. Select appropriate tool and method for information analysis.
3. Create innovation, model, or knowledge from research.

### ***Course Description***

Advance research methodology and research design, model and application in research, selection of tool and method for information analysis, design innovative development and knowledge building, advance statistics, and application in crop production management research.

**95902 Information Analysis for Advance Research and****(6 credits)****Development in Crop Production****Objectives** Upon completion of the course, students should be able to;

1. Conduct research and select appropriate statistic.
2. Select appropriate tool and method for information analysis.
3. Create innovation, model, or knowledge from research.

**Course Description**

Advance research methodology and research design; model and application in research; selection of tool and method for information analysis; design innovative development and knowledge building, advance statistics and application in crop production management research.

**95903 Situation Evaluation for the System Development of****(6 credits)****Crop Production Management****Objectives** Upon completion of the course, students should be able to;

1. Define issue and problem of crop production and management under any given circumstance.
2. Analyze concept, theory, and principle of crop production and management which conform to given circumstance.
3. Analyze, synthesize situation related to crop production.
4. Provide solution and research related to the whole system of crop production and management.
5. Evaluate situation and forecast crop production tendency to be a guideline for crop production system development.

**Course Description**

Study situations related to crop production, analyze, synthesize, and apply concept, theory, and principle of crop production and management in order to provide solution for the whole system of crop production.

**95997 Dissertation (Crop Production Management and Development)****(48 credits)****Objectives** Upon completion of the course, students should be able to;

1. Make and present dissertation proposal.
2. Design and conduct dissertation.
3. Write dissertation.
4. Defend dissertation.
5. Publish the dissertation or a part of it in an accredited journal in national or international level.

**Course Description**

Define research problem, research planning, literatures review and presenting dissertation proposal, research design, writing dissertation and getting approval for the dissertation project; conducting research, writing research result, dissertation defend, dissertation dissemination and publish the dissertation or a part of it in an accredited national or international journal.

**95998 Dissertation (Crop Production Management and Development)****(36 credits)****Objectives** Upon completion of the course, students should:

1. Organize and submit dissertation project.
2. Design the research and conduct the dissertation.
3. Writing dissertation report.
4. Have dissertation defense.
5. Writing a paper of dissertation for acceptance to be published in a national or international Journal.

**Course Description**

Research problem selection; research planning, reviewing related literatures, and submitting dissertation project; research design, population and sample selection; variable measurement, and data analysis; submitting dissertation proposal for approval; development and test of research instrument; data collection and analysis; interpretation and presentation of data analysis results; conclusions, discussions, and recommendations; writing research report and submitting for dissertation defense; writing a paper of dissertation for acceptance to be published in a national or international journal.

**95999 Doctoral Professional Experience in Crop Production Management and Development****(6 credits)****Objectives** Upon completion of the course, students should be able to;

1. Deepen knowledge and experience of crop production technology and management in addition to the distance education system.
2. Possess appropriate manner and characteristic for Ph. D. holder.
3. Possess morality and occupation ethics.

**Course Description**

Analyze important issues of crop production and management, exchange viewpoints and experiences in conducting crop production and management activity. Develop personality and attitude to fit with agricultural career to enhance human relation and ability to work as a team and also develop problem solving skill in the area of crop production management and enhance suitable morality and ethic for agricultural career.

**Last updated: 20-August-2020**