# AYDIN ADNAN MENDERES UNIVERSITY
## COURSE INFORMATION FORM

| Course Title | Agricultural Production Economics | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Course Code | ZTE508 | | Couse Level | | Second Cycle (Master's Degree) | | | |
| ECTS Credit | 8 | Workload | 206 *(Hours)* | Theory | 3 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | The objective of this course is to enable the students to learn obtaining various production functions and to provide them with the skills for interpreting | | | | | | | |
| Course Content | Concept of production function Collection and analysing data used for estimating production functions Types of production functions and selection of the best fit function Economic interpretations | | | | | | | |
| Work Placement | None | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | Explanation (Presentation), Individual Study, Problem Solving | | | | | |
| Name of Lecturer(s) | Prof. Altuğ ÖZDEN | | | | | | | |

## Assessment Methods and Criteria

| Method | Quantity | Percentage (%) |
|---|---|---|
| Midterm Examination | 1 | 40 |
| Final Examination | 1 | 60 |

## Recommended or Required Reading

| 1 | Doll, J.P., Orazem, F., "Production Economics, Theory with Applications", Second Edition, John Wiley and Sons Inc., |
|---|---|

| Week | Weekly Detailed Course Contents | |
|---|---|---|
| 1 | Theoretical | Definition of the course |
| 2 | Theoretical | Basis of the production economics |
| 3 | Theoretical | Factor-product relationships |
| 4 | Theoretical | Data collecting for factor-product relationships |
| 5 | Theoretical | Defining production function, application areas, classical production function, basic concepts |
| 6 | Theoretical | Types of production functions |
| 7 | Theoretical | Selection of appropriate function |
| 8 | Intermediate Exam | Midterm exam |
| 9 | Theoretical | Physical production function applications in crop production |
| 10 | Theoretical | Physical production function applications in crop production |
| 11 | Theoretical | Physical production function applications in animal production |
| 12 | Theoretical | Physical production function applications in animal production |
| 13 | Theoretical | Economic interpretations |
| 15 | Theoretical | Economic interpretations |
| 16 | Final Exam | Final |

## Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---|---|---|---|---|
| Lecture - Theory | 14 | 10 | 3 | 182 |
| Midterm Examination | 1 | 8 | 1 | 9 |
| Final Examination | 1 | 14 | 1 | 15 |
| | | | Total Workload (Hours) | 206 |
| | | | [Total Workload (Hours) / 25*] = **ECTS** | 8 |

*25 hour workload is accepted as 1 ECTS*

## Learning Outcomes

| 1 | To be able to comprehend the factor-product relationships |
|---|---|
| 2 | To be able to interpret technical researches economically |
| 3 | To be able to guide farmers about effective use of resources |
| 4 | To be able to use mathematical technics for determining factor-product relationships |

| 5 | To be able to determine and interpret business performances. |
|---|---|

**Programme Outcomes** *(Agricultural Economics Master)*

| 1 | To be able to comprehend and solve agricultural economic issues using Agricultural sciences and the basic principles of economic science. |
|---|---|
| 2 | To be able to access information, evaluate, interpret, and implement in the processes of the scientific research processes related to Agricultural economy. |
| 3 | To be able to integrate the relationship between the use of natural resources and productivity, with environmental, food safety and sustainability objectives |
| 4 | To be able to predict the effects of economic and political developments on the Turkish agricultural sector, to be able to view, comprehend and interpret national and international agricultural markets, to be able to apply the innovative methods. |
| 5 | To be able to communicate with all actors showing activity in the countryside at the required level of behavior science, to detect problems, and to be able to conduct joint project. |
| 6 | To be able to lead multi-disciplinary studies in agricultural sciences, to be able to enhance solutions in complex situations and to be able to take responsibility. |
| 7 | To be able to raise awareness about the new and developing practices of the job, to be able to review and learn these when needed. |
| 8 | To be able to use theoretical and practical information in agricultural economics. |
| 9 | To be able to design innovative solutions integrating the original ideas and methods in agriculture and the economy with the system, part or process designs. |
| 10 | To be able to articulate the idea, and the findings about the research topic verbal and written in an effective way. |

**Contribution of Learning Outcomes to Programme Outcomes** *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

|  | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|
| P1 | 4 | 5 |  | 5 |  |
| P2 |  | 5 | 5 | 5 |  |
| P3 |  |  | 5 |  |  |
| P4 |  |  |  | 5 |  |
| P5 | 4 | 5 | 5 | 5 |  |
| P8 | 4 |  |  |  |  |
| P9 |  |  |  |  | 5 |
| P10 |  |  |  | 5 |  |