

APPLIED QUANTITATIVE METHODS FOR AGRICULTURAL ECONOMICS

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| 1 | Course Title: | APPLIED QUANTITATIVE METHODS FOR AGRICULTURAL ECONOMICS | |
| 2 | Course Code: | TRE5313 | |
| 3 | Type of Course: | Optional | |
| 4 | Level of Course: | Second Cycle | |
| 5 | Year of Study: | 1 | |
| 6 | Semester: | 1 | |
| 7 | ECTS Credits Allocated: | 6.00 | |
| 8 | Theoretical (hour/week): | 3.00 | |
| 9 | Practice (hour/week): | 0.00 | |
| 10 | Laboratory (hour/week): | 0 | |
| 11 | Prerequisites: | No | |
| 12 | Language: | Turkish | |
| 13 | Mode of Delivery: | Face to face | |
| 14 | Course Coordinator: | Prof. Dr. HASAN VURAL | |
| 15 | Course Lecturers: | - | |
| 16 | Contact information of the Course Coordinator: | hvural@uludag.edu.tr Tel: 2941589 | |
| 17 | Website: | | |
| 18 | Objective of the Course: | In this course, especially multivariate statistical methods and simulation analysis of data analysis of the approach is mainly processed. | |
| 19 | Contribution of the Course to Professional Development: | | |
| 20 | Learning Outcomes: | | |
| | | 1 | Understanding of statistical methods |
| | | 2 | To understand the importance of data analysis |
| | | 3 | Application of statistical methods |
| | | 4 | Recognizing the importance of variance analysis |
| | | 5 | Recovery methods for obtaining agricultural data |
| | | 6 | To determine key points in making survey |
| | | 7 | To make solutions with computer-aided |
| | | 8 | Interpretation the analysis results |
| | | 9 | Planning the research and model |
| | | 10 | To practice data analysis of the research |
| 21 | Course Content: | | |
| | | Course Content: | |
| Week | Theoretical | Practice | |
| 1 | Introduction to basic statistical methods | | |
| 2 | Agricultural Data collection and compilation | | |
| 3 | Sampling methods | | |
| 4 | Regression analysis | | |
| 5 | Statistical tests | | |
| 6 | Control hypothesis in statistics | | |

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| 7 | Economy model types and model building | |
| 8 | Long-term trends and demand forecasting | |
| 9 | Long-term trends and demand forecasting | |
| 10 | Factor analysis method | |
| 11 | Discriminant analysis method | |
| 12 | Cluster analysis method | |
| 13 | Canonical analysis method | |
| 14 | Application the statistical process and quality control | |

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| 22 | Textbooks, References and/or Other Materials: | Hasan Vural, 2012. Tarım ve Gıda Ekonomisi İstatistiği, Uludağ Üniv. Zir. Fak. Ders Notu, No.107, Bursa. Kurtuluş, K., 1992. Pazarlama Araştırmaları, 4. Baskı, Türk Dünyası araştırmaları Vakfı, İstanbul. Johnson, R.A., D.W.Wicherin, 1992. Applied Multivariate Statistical Analysis, 3.rd, Prentice Hall Inc. Englewood Cliffs.N.J. 07632, Londra. Hasan Vural, Tarım ve Gıda Ekonomisi İstatistiği, U.Ü.zİRAAT FAK. DERS NOTLARI, nO.107, BURSA, 2012. |
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| 23 | Assesment |
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| TERM LEARNING ACTIVITIES | NUMBER | WEIGHT | | |
|-----------------------------------|--------|-----------------|------------------------|--------|
| Midterm Exam | 1 | 30.00 | | |
| Quiz | 0 | 0.00 | | |
| Activites | Number | Duration (hour) | Total Work Load (hour) | |
| Theoretical | 4 | 10.00 | 3.00 | 42.00 |
| Practicals/Labs | 0 | 0.00 | 0.00 | 0.00 |
| Self study and preperation | 14 | 4.00 | 56.00 | 56.00 |
| Homeworks | 2 | 20.00 | 40.00 | 40.00 |
| Projects | 1 | 8.00 | 8.00 | 8.00 |
| Field Studies | 0 | 0.00 | 0.00 | 0.00 |
| Midterm exams | 1 | 15.00 | 15.00 | 15.00 |
| 24. ECTS / WORK LOAD TABLE | | | | |
| Others | 0 | 0.00 | 0.00 | 0.00 |
| Final Exams | 1 | 15.00 | 15.00 | 15.00 |
| Total Work Load | | | | 191.00 |
| Total work load/ 30 hr | | | | 5.87 |
| ECTS Credit of the Course | | | | 6.00 |

| 25 | CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS | | | | | | | | | | | | | | | |
|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| | PQ1 | PQ2 | PQ3 | PQ4 | PQ5 | PQ6 | PQ7 | PQ8 | PQ9 | PQ10 | PQ11 | PQ12 | PQ13 | PQ14 | PQ15 | PQ16 |
| ÖK1 | 0 | 0 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 |
| ÖK2 | 0 | 0 | 4 | 4 | 5 | 5 | 5 | 0 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 |
| ÖK3 | 0 | 0 | 5 | 5 | 4 | 5 | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK4 | 0 | 0 | 5 | 5 | 4 | 5 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| ÖK5 | 0 | 0 | 4 | 4 | 4 | 5 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK6 | 0 | 0 | 4 | 4 | 4 | 5 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK7 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK8 | 0 | 0 | 4 | 4 | 4 | 5 | 5 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK9 | 0 | 0 | 4 | 4 | 4 | 5 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK10 | 0 | 0 | 4 | 3 | 5 | 5 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LO: Learning Objectives PQ: Program Qualifications | | | | | | | | | | | | | | | | |
| Contrib ution Level: | 1 very low | | | 2 low | | | 3 Medium | | | 4 High | | | 5 Very High | | | |