

AGRICULTURAL ECOLOGY

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| 1 | Course Title: | AGRICULTURAL ECOLOGY | |
| 2 | Course Code: | EBYZ227 | |
| 3 | Type of Course: | Optional | |
| 4 | Level of Course: | Short Cycle | |
| 5 | Year of Study: | 2 | |
| 6 | Semester: | 3 | |
| 7 | ECTS Credits Allocated: | 3.00 | |
| 8 | Theoretical (hour/week): | 2.00 | |
| 9 | Practice (hour/week): | 0.00 | |
| 10 | Laboratory (hour/week): | 0 | |
| 11 | Prerequisites: | None | |
| 12 | Language: | Turkish | |
| 13 | Mode of Delivery: | Face to face | |
| 14 | Course Coordinator: | Prof. Dr. İbrahim Çakmak | |
| 15 | Course Lecturers: | Doç.Dr. İbrahim Çakmak | |
| 16 | Contact information of the Course Coordinator: | Doç.Dr. İbrahim Çakmak | |
| 17 | Website: | | |
| 18 | Objective of the Course: | To teach students gaining knowledge about basic ecological factors and how to use them to increase agricultural products | |
| 19 | Contribution of the Course to Professional Development: | | |
| 20 | Learning Outcomes: | | |
| | | 1 | To learn in general the description of ecology and content |
| | | 2 | To get familiar with environmental factors and their effects |
| | | 3 | To gain knowledge about the effects of light, temperature in order to increase agricultural production |
| | | 4 | To get ideas about the effects of water, atmosphere and soil in order to increase agricultural production |
| | | 5 | To get knowledge about biotic factors and their effects on agricultural production |
| | | 6 | To learn about competition and fire and their effects on agricultural production |
| | | 7 | To learn production and life cycles in ecosystem |
| | | 8 | To learn about environmental pollution and its effects on agricultural production |
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| 21 | Course Content: | | |
| | | Course Content: | |
| Week | Theoretical | Practice | |
| 1 | The goal is to teach the description of ecology and the content | | |
| 2 | Environmental factors in general | | |
| 3 | Light and its effect in agriculture | | |
| 4 | Temperature and its effect in agriculture | | |

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| 5 | Water and its effect in agriculture | |
| 6 | Atmosphere and its effect in agriculture | |
| 7 | Soil and its effect in agriculture | |
| 8 | Repeating courses and midterm exam | |
| 9 | Biotic factors and their effects in agriculture | |
| 10 | Competition and its effect in agriculture | |
| 11 | Fire and its effect in agriculture | |
| 12 | Ecosystem and its effect in agriculture-1 | |
| 13 | Ecosystem and its effect in agriculture-2 | |
| 14 | Environmental pollution and its effects on agricultural production | |

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| 22 | Textbooks, References and/or Other Materials: | Sencar, Ö., Gökmen, S. 2004. Traımsal Ekoloji. Gaziosmanpaşa Üniversitesi Yayınları, Tokat. Şişli, N. 1999. Ekoloji. Hacettepe Üniversitesi, Gazi Kitapevi, Ankara. Gotelli, NJ. 1995. A Primer of Ecology. Sinauer Associates. Inc. Massachusetts, USA. |
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| 23 | Assesment |
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| TERM LEARNING ACTIVITIES | NUMBER | WEIGHT |
|--|--------|--------|
| Midterm Exam | 1 | 40.00 |
| Quiz | 0 | 0.00 |
| Home work-project | 0 | 0.00 |
| Final Exam | 1 | 60.00 |
| Total | 2 | 100.00 |
| Contribution of Term (Year) Learning Activities to Success Grade | | 40.00 |
| Contribution of Final Exam to Success Grade | | 60.00 |
| Total | | 100.00 |
| Measurement and Evaluation Techniques Used in the Course | | |

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| 24 | ECTS / WORK LOAD TABLE |
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| Activites | Number | Duration (hour) | Total Work Load (hour) |
|----------------------------|--------|-----------------|------------------------|
| Theoretical | 14 | 2.00 | 28.00 |
| Practicals/Labs | 0 | 0.00 | 0.00 |
| Self study and preperation | 0 | 0.00 | 0.00 |
| Homeworks | 0 | 0.00 | 0.00 |
| Projects | 0 | 0.00 | 0.00 |
| Field Studies | 0 | 0.00 | 0.00 |
| Midterm exams | 1 | 12.00 | 12.00 |
| Others | 0 | 0.00 | 0.00 |
| Final Exams | 1 | 20.00 | 20.00 |
| Total Work Load | | | 60.00 |
| Total work load/ 30 hr | | | 2.00 |
| ECTS Credit of the Course | | | 3.00 |

| 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 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK4 | 0 | 0 | 0 | 2 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK5 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ÖK6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 0 |
| ÖK7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| ÖK8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LO: Learning Objectives PQ: Program Qualifications | | | | | | | | | | | | | | | | |
| Contribution Level: | 1 very low | | | 2 low | | | 3 Medium | | | 4 High | | | 5 Very High | | | |