# AYDIN ADNAN MENDERES UNIVERSITY
# COURSE INFORMATION FORM

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|---|---|---|---|---|---|---|---|---|---|
| Course Title | Viticulture I | | | | | | | | |
| Course Code | BB312 | | Couse Level | First Cycle (Bachelor's Degree) | | | | | |
| ECTS Credit | 4 | Workload | 100 *(Hours)* | Theory | 2 | Practice | 2 | Laboratory | 0 |
| Objectives of the Course | To inform the students subjects about the place of Turkey in the World in terms of viticulture; stem, cane, flower, leaf and bud structures of vines; phyloxera pest and measures to prevent to phyloxera damages; the propagation of vines, and their ecological requirements; vineyard esablishment, pruning and training of vines. | | | | | | | | |
| Course Content | The roots of vine; the place of Turkey in the World in terms of viticulture; morphological structure of vine, phonological development stages, vine rootstocks and phloxera pest, ecological requirements, the propagation of vines, vineyard establishment, planting systems, planting, maintenance of young vines, short identity of standart cultivars, summer and winter prunings, training systems of vines, plant growth regulators using for increasing fruit quality and evaluation methods of grapes. | | | | | | | | |
| Work Placement | N/A | | | | | | | | |
| Planned Learning Activities and Teaching Methods | Explanation (Presentation), Demonstration | | | | | | | | |
| Name of Lecturer(s) | Lec. Mustafa ÇELİK | | | | | | | | |

| Prerequisites & Co-requisities | |
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| ECTS Requisite | 90 |

| Assessment Methods and Criteria | | |
|---|---|---|
| Method | Quantity | Percentage (%) |
| Midterm Examination | 1 | 40 |
| Final Examination | 1 | 70 |

| Recommended or Required Reading | |
|---|---|
| 1 | Uzun, İ. Bağcılık. Akdeniz Üniv. Yayın No:69. Antalya. |
| 2 | Çelik, H., Ağaoğlu, Y.S., Fidan Y., Marasalı, B., Söylemezoğlu, G. 1998. Genel Bağcılık. Sun Fidan Meslek Kitapları. Ankara. |
| 3 | Çelik, S. 1998. Bağcılık. Cilt1.Tekirdağ Ziraat Fakültesi. Tekirdağ. |
| 4 | Ağaoğlu, Y.S. 2002. Bilimsel ve Uygulamalı Bağcılık. Cilt II Kavaklıdere Eğitim yay . no 5. Ankara |
| 5 | Coombe, BG and P.R. Dry, 1998. Viticulture. Volume II.Practices. Winetitles, Australia. |
| 6 | Çelik, H. 2006. Üzüm Çeşit Kataloğu. Sun fidan A.Ş. Ankara. |
| 7 | Galet, P. 1998. Grape Varieties and Rootstock Varieties. (English eddition). Oenoplurimedia, France.315 p. |

| Week | Weekly Detailed Course Contents | |
|---|---|---|
| 1 | Theoretical | The sources of vine, and history of viticulture, The place of Turkey in Viticuture in the World |
| | Practice | Trip in to fculty vineyard |
| | Preparation Work | Çelik, H., Ağaoğlu, Y.S., Fidan, Y., Marasalı, B., Söylemezoğlu, G. 1998. Genel Bağcılık. SunFidan A.Ş. Ankara.(pp. 1-5) |
| 2 | Theoretical | Morphological structure of vine-I |
| | Practice | The examination of branch and bud structure in vines. |
| | Preparation Work | Uzun, H. 1996. Bağcılık. Akdeniz Üniv. Yayın no: 69. Antalya (pp 4-25). |
| 3 | Theoretical | Morphological structure of vine II |
| | Practice | Making of winter pruning for productivity |
| | Preparation Work | Uzun, H. 1996. Bağcılık. Akdeniz Üniv. Yayın no: 69. Antalya (pp 4-25). |
| 4 | Theoretical | Ecological requirements of vines |
| | Practice | winter productivity pruning and taking of cutttings |
| | Preparation Work | Uzun, H., 2004. Bağcılık El Kitabı. Hasad Yayıncılık Ltd. Şti. (pp 30-37). |
| 5 | Theoretical | The propagation of vines. |
| | Practice | Taking of cuttings from one years old branches on vines |
| | Preparation Work | Çelik, H., Ağaoğlu, Y.S., Fidan, Y., Marasalı, B., Söylemezoğlu, G. 1998. Genel Bağcılık. SunFidan A.Ş. Ankara.(pp. 73-102) |
| 6 | Theoretical | Phenological development stages |

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| 6 | Practice | The examination of flower clusters in vines |
| | Preparation Work | Uzun, H., 2004. Bağcılık El Kitabı. Hasad Yayıncılık Ltd. Şti. (pp 38-41) |
| 7 | Theoretical | Vitis rootstocks and phloxera pest |
| | Practice | Examining of american rootstock parcells and prunings |
| | Preparation Work | Uzun, H. 1996. Bağcılık. Akdeniz Üniv. Yayın no: 69. Antalya (pp 28-43). |
| 8 | Intermediate Exam | Midterm exam |
| 9 | Theoretical | Vineyard establishment, planting designs, planting, and maintenance of young vines. |
| | Practice | Trip to application vineyard and evaluation and discuss of vineyard site (interms of height, wind, and sunshine ) and planting design |
| | Preparation Work | Uzun, H., 2004. Bağcılık El Kitabı. Hasad Yayıncılık Ltd. Şti. (pp 41-46). |
| 10 | Theoretical | Some selected Standard grape cultivars and their characteristics |
| | Practice | The examining of catalogues of standard grape cultivars |
| | Preparation Work | Çelik, H. 2006. Üzüm Çeşit Kataloğu. Sun Fidan A. Ş. Ankara. (pp 1-165) |
| 11 | Theoretical | Winter pruning applications in vineyards. |
| | Practice | The examination of consuming types of standard grape cultivars |
| | Preparation Work | Uzun, H., 2004. Bağcılık El Kitabı. Hasad Yayıncılık Ltd. Şti. (pp 55-58). |
| 12 | Theoretical | Summer pruning applications in vineyards |
| | Practice | Leaf removal, shoot tipping and topping applications |
| | Preparation Work | Uzun, H., 2004. Bağcılık El Kitabı. Hasad Yayıncılık Ltd. Şti. (pp 59-64). |
| 13 | Theoretical | Training types of vines. |
| | Practice | The examining of goble training system |
| | Preparation Work | Uzun, H., 2004. Bağcılık El Kitabı. Hasad Yayıncılık Ltd. Şti. (pp 122-134). |
| 14 | Theoretical | The applications for increasing productivity and quality in grapes. |
| | Practice | The applications of Girdling and GA3 |
| | Preparation Work | Uzun, H., 2004. Bağcılık El Kitabı. Hasad Yayıncılık Ltd. Şti. (pp 115-122). |
| 15 | Theoretical | The consumption types of grapes |
| | Practice | The applications of Girdling and GA3 |
| | Preparation Work | Uzun, H., 2004. Bağcılık El Kitabı. Hasad Yayıncılık Ltd. Şti. (pp 144-151) |
| 16 | Final Exam | Final exam |

**Workload Calculation**

| Activity | Quantity | Preparation | Duration | Total Workload |
|---|---|---|---|---|
| Lecture - Theory | 14 | 1 | 2 | 42 |
| Lecture - Practice | 14 | 1 | 2 | 42 |
| Midterm Examination | 1 | 6 | 2 | 8 |
| Final Examination | 1 | 6 | 2 | 8 |
| | | | Total Workload (Hours) | 100 |
| | | | [Total Workload (Hours) / 25*] = **ECTS** | 4 |

**25 hour workload is accepted as 1 ECTS*

**Learning Outcomes**

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| 1 | To be able to comprehend when and how the pruning and the maintenance of vineyards can make by means of learning of root, stem, branch, leaf, bud and flower structures |
| 2 | To be able to comprehend the importance of climate and soil structure for vine growing |
| 3 | To be able to comprehend the development stages of vines |
| 4 | To be able to plan vineyard planting by using basic knowledge and analytical thinking |
| 5 | To be able to make proper training system and to protect the training system by summer and winter prunings |

**Programme Outcomes** *(Agricultural Biotechnology)*

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| 1 | To be able to develop skills in identifying, modeling and solving problems in agricultural biotechnology |
| 2 | To be able to synthesize life and engineering sciences for the effective resource planning of agricultural biotechnology applications |
| 3 | To be able to interpret about living organisms structure, metabolic and physiological processes in order to propose biotechnological solutions to the agricultural problems |
| 4 | To be able to analyze genomic, metabolomic and proteomic information via bioinformatic tools. |

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| 5 | To have the ability to analyze collected data and interpret the results. |
| 6 | To have the ability of individual working ability and to make independent decisions, to work in inter-disciplinary and interdisciplinary teamwork, to communicate by expressing their ideas orally and in writing, clearly and concisely |
| 7 | To have the awareness of professional liabilities and ethics |
| 8 | To be able to follow current national and international problems |

**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 | 1 | 1 | 1 | 1 | 1 |
| P2 | 2 | 2 | 2 | 2 | 2 |
| P3 | 2 | 2 | 2 | 2 | 2 |
| P4 | 1 | 1 | 1 | 1 | 1 |
| P5 | 2 | 2 | 2 | 3 | 2 |
| P6 | 2 | 2 | 2 | 3 | 3 |
| P7 | 2 | 2 | 2 | 2 | 3 |
| P8 | 2 | 3 | 2 | 3 | 3 |