**ESKİŞEHİR OSMANGAZİ UNİVERSİTY AGRİCULTURE FACULTY**

**HORTİCULTURE DEPARTMENT BACHELORS DEGREE COURSE CATALOGUE (2022-2023)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. **Year – Fall Semester** | | | | | | | | |
| **Course Code** | | **Course Name** | | **T** | | **P** | **NC** | **ECTS** |
| 251311002 | | Botany | | 2 | | 2 | 3 | 4 |
| 251311003 | | Physics | | 3 | | 0 | 3 | 4 |
| 251311005 | | Mathematics | | 3 | | 0 | 3 | 3 |
| 251311004 | | Chemistry | | 2 | | 2 | 3 | 4 |
| 251311013 | | Introduction to Horticulture | | 1 | | 0 | 1 | 3 |
| 251311011 | | Career Planning | | 1 | | 0 | 1 | 2 |
| 251311012 | | Basic Information Technologies | | 1 | | 2 | 2 | 3 |
| 251311008 | | Turkish Language I | | 2 | | 0 | 0 | 2 |
| 251311009 | | Principles of Ataturk and Recent Turkish History I | | 2 | | 0 | 2 | 2 |
| 251311010 | | Foreign Language I | | 3 | | 0 | 0 | 3 |
| **Total** | | | | **20** | | **6** | **18** | **30** |
| 1. **Year – Spring Semester** | | | | | | | | |
| **Course Code** | | **Course Name** | | **T** | | **P** | **NC** | **ECTS** |
| 251312015 | | History of Agriculture and Deontology | | 2 | | 0 | 2 | 3 |
| 251312002 | | Surveying Technique | | 2 | | 0 | 2 | 4 |
| 251312011 | | Computer Assisted Technical Drawing | | 1 | | 2 | 2 | 4 |
| 251312012 | | Plant Biochemistry | | 1 | | 2 | 2 | 5 |
| 251312013 | | Agricultural Ecology and Climate Change | | 2 | | 0 | 2 | 4 |
| 251312014 | | Thermodynamics | | 3 | | 0 | 3 | 3 |
| 251312008 | | Turkish language II | | 2 | | 0 | 0 | 2 |
| 251312009 | | Principles of Ataturk and Recent Turkish History II | | 2 | | 0 | 2 | 2 |
| 251312010 | | Foreign Language II | | 3 | | 0 | 0 | 3 |
| **Total** | | | | **18** | | **4** | **15** | **30** |
| 1. **Year – Fall Semester** | | | | | | | | |
| **Course Code** | | **Course Name** | | **T** | | **P** | **NC** | **ECTS** |
| 251313002 | | Statistics | | 2 | | 0 | 2 | 4 |
| 251313011 | | Genetics | | 2 | | 0 | 2 | 4 |
| 251313004 | | Agricultural Economics | | 2 | | 0 | 2 | 3 |
| 251313005 | | Food Science and Technology | | 2 | | 0 | 2 | 3 |
| 251313013 | | General Fruit Growing | | 1 | | 2 | 2 | 5 |
| 251313024 | | Landscape Architecture | | 2 | | 0 | 2 | 4 |
| 251313012 | | Occupational health and Safety I | | 2 | | 0 | 2 | 2 |
| 251313014 | | Material Science | | 2 | | 0 | 2 | 2 |
|  | | Social Elective Courses (1 course to be taken) | | 3 | | 0 | 3 | 3 |
| **Total** | | | | **18** | | **2** | **19** | **30** |
|  | **Social Elective Course Group I (1 course to be taken)** | |  | |  | |  |  |
| 251313015 | Stress Management | | 3 | | 0 | | 3 | 3 |
| 251313016 | Entrepreneurship | | 3 | | 0 | | 3 | 3 |
| 251313017 | Leadership | | 3 | | 0 | | 3 | 3 |
| 251313018 | Turkish Folk Dance | | 3 | | 0 | | 3 | 3 |
| 251313019 | Effective Communication | | 3 | | 0 | | 3 | 3 |
| 251313020 | Mediation and expertise in law | | 3 | | 0 | | 3 | 3 |
| 251313021 | Glass Arts | | 3 | | 0 | | 3 | 3 |
| 251313022 | Works of Volunteering | | 3 | | 0 | | 3 | 3 |
| **2. Year – Spring Semester** | | | | | | | | |
| **Course Code** | | **Course Name** | **T** | | **P** | | **NC** | **ECTS** |
| 251314025 | | General Vegetable Growing | 1 | | 2 | | 2 | 6 |
| 251314026 | | Agricultural Structures and Irrigation | 2 | | 0 | | 2 | 4 |
| 251314027 | | Soil Science and Plant Nutrition | 2 | | 0 | | 2 | 4 |
| 251314028 | | Research and Experimental Methods | 2 | | 2 | | 3 | 4 |
| 251314029 | | Plant Protection | 2 | | 0 | | 2 | 4 |
| 251314030 | | Field Crops | 2 | | 0 | | 2 | 3 |
| 251314011 | | Occupational health and Safety II | 2 | | 0 | | 2 | 2 |
|  | | Social Elective Courses (1 course to be taken) | 3 | | 0 | | 3 | 3 |
| **Total** | | | **16** | | **4** | | **18** | **30** |
|  | **Social Elective Course Group II (1 course to be taken)** | |  | |  | |  |  |
| 251314031 | Intellectual Property Law | | 3 | | 0 | | 3 | 3 |
| 251314032 | IT (Informatic) Law | | 3 | | 0 | | 3 | 3 |
| 251314033 | State and Society | | 3 | | 0 | | 3 | 3 |
| 251314034 | Critical Thinking | | 3 | | 0 | | 3 | 3 |
| 251314035 | Music | | 3 | | 0 | | 3 | 3 |
| 251314036 | Photography | | 3 | | 0 | | 3 | 3 |
| 251314037 | Marbling Art | | 3 | | 0 | | 3 | 3 |
| 251314038 | Diction | | 3 | | 0 | | 3 | 3 |
| 1. **Year – Fall Semester** | | | | | | | | |
| **Course Code** | **Course Name** | | **T** | | **P** | | **NC** | **ECTS** |
| 251315015 | General Viticulture | | 1 | | 2 | | 2 | 4 |
| 251315016 | Ornamental Plants Cultivation | | 1 | | 2 | | 2 | 4 |
| 251315017 | Propagation Techniques of Horticulture | | 1 | | 2 | | 2 | 4 |
|  | Elective Course within the Department 1 | | 2 | | 2 | | 3 | 4 |
|  | Elective Course within the Department 2 | | 2 | | 2 | | 3 | 4 |
|  | Elective Course within the Department 3 | | 2 | | 2 | | 3 | 4 |
|  | Faculty Elective Course (1 course to be taken) | | 3 | | 0 | | 3 | 3 |
| 251315013 | Professional Practice I | | 0 | | 4 | | 0 | 3 |
| **Total** |  | | **12** | | **16** | | **18** | **30** |
|  | **Elective Course Group I within the Department** | |  | |  | |  |  |
| 251315018 | Organic Agriculture in Horticulture | | 2 | | 2 | | 3 | 4 |
| 251315019 | Professional English | | 2 | | 2 | | 3 | 4 |
| 251315020 | Sustainable Agriculture in Horticulture | | 2 | | 2 | | 3 | 4 |
| 251315021 | Biotechnology in Horticulture | | 2 | | 2 | | 3 | 4 |
| 251315022 | Horticultural Crops Diseases and Control | | 2 | | 2 | | 3 | 4 |
| 251315023 | Modern Fruit Growing | | 2 | | 2 | | 3 | 4 |
|  | **Faculty Elective Course Group I (1 course to be taken)** | |  | |  | |  |  |
| 251315005 | Determination of Plant Fertilizer Requirements and Fertilization | | 3 | | 0 | | 3 | 3 |
| 251315006 | Agriculture and Environment | | 3 | | 0 | | 3 | 3 |
| 251315025 | Beekeeping | | 3 | | 0 | | 3 | 3 |
| 251315026 | Fruit and Vegetable Processing Technology | | 3 | | 0 | | 3 | 3 |
| 251315027 | Agricultural Extension, Communication and Ethic | | 3 | | 0 | | 3 | 3 |
| **3. Year – Spring Semester** | | | | | | | | |
| **Course Code** | **Course Name** | | **T** | | **P** | | **NC** | **ECTS** |
| 251316019 | Horticultural Crop Breeding | | 1 | | 2 | | 2 | 4 |
| 251316020 | Engineering Design | | 2 | | 0 | | 2 | 4 |
| 251316021 | Physiology of Horticultural Plants | | 2 | | 0 | | 2 | 4 |
|  | Elective Course within the Department 1 | | 2 | | 2 | | 3 | 4 |
|  | Elective Course within the Department 2 | | 2 | | 2 | | 3 | 4 |
|  | Elective Course within the Department 3 | | 2 | | 2 | | 3 | 4 |
|  | Faculty Elective Course (1 course to be taken) | | 3 | | 0 | | 3 | 3 |
| 251316014 | Professional Practice II | | 0 | | 4 | | 0 | 3 |
| **Total** |  | | **14** | | **12** | | **18** | **30** |
|  | **Elective Course Group II within the Department** | |  | |  | |  |  |
| 251316022 | Vegetable seed production and certification | | 2 | | 2 | | 3 | 4 |
| 251316023 | Fertilization Biology of Horticultural Crops | | 2 | | 2 | | 3 | 4 |
| 251316024 | Propagation of Seasonal Flower | | 2 | | 2 | | 3 | 4 |
| 251316025 | Seedling - Nursery Growing and Certification | | 2 | | 2 | | 3 | 4 |
| 251316026 | Outdoor Ornamental Plants Propagation | | 2 | | 2 | | 3 | 4 |
| 251316027 | Mushroom Growing Technique | | 2 | | 2 | | 3 | 4 |
| 251316028 | Pruning and Training in Horticulture | | 2 | | 2 | | 3 | 4 |
| 251316029 | Pests of Horticultural Crops and Control | | 2 | | 2 | | 3 | 4 |
|  | **Faculty Elective Course Group I (1 course to be taken)** | |  | |  | |  |  |
| 251316006 | Medicinal and Aromatic plants | | 3 | | 0 | | 3 | 3 |
| 251316030 | Agricultural Tools and Machinery | | 3 | | 0 | | 3 | 3 |
| 251316031 | Animal Production | | 3 | | 0 | | 3 | 3 |
| 251316032 | Agricultural Valuation and Expertise | | 3 | | 0 | | 3 | 3 |
| 251316033 | Weeds | | 3 | | 0 | | 3 | 3 |
| 251316008 | Organic Animal Growing | | 3 | | 0 | | 3 | 3 |
| 1. **Year– Fall Semester** | | | | | | | | |
| **Course Code** | **Course Name** | | **T** | | **P** | | **NC** | **ECTS** |
| 251317027 | Cool Season Vegetables | | 2 | | 0 | | 2 | 2 |
| 251317028 | Pome and Stone Fruits | | 2 | | 0 | | 2 | 3 |
| 251317004 | Storage and Marketing of Horticultural Crops | | 2 | | 0 | | 2 | 2 |
|  | Elective Course within the Department 1 | | 2 | | 2 | | 3 | 4 |
|  | Elective Course within the Department 2 | | 2 | | 2 | | 3 | 4 |
|  | Elective Course within the Department 3 | | 2 | | 2 | | 3 | 4 |
| 251317012 | Diploma Thesis I | | 0 | | 2 | | 1 | 3 |
|  | Internship | | 0 | | 0 | | 0 | 8 |
| **Total** |  | | **12** | | **8** | | **16** | **30** |
|  | **Elective Course Group III within the Department** | |  | |  | |  |  |
| 251317029 | Tropical Fruits | | 2 | | 2 | | 3 | 4 |
| 251317030 | New Techniques on Fruit Growing | | 2 | | 2 | | 3 | 4 |
| 251317031 | Agricultural Ethics and Entrepreneurship | | 2 | | 2 | | 3 | 4 |
| 251317032 | Edible Wild Vegetables | | 2 | | 2 | | 3 | 4 |
| 251317033 | Wild Fruits | | 2 | | 2 | | 3 | 4 |
| 251317034 | Protected Cultivation of Vegetable Crops | | 2 | | 2 | | 3 | 4 |
| 251317035 | Cut Flower Cultivation | | 2 | | 2 | | 3 | 4 |
| 251317036 | Greenhouse fruit growing | | 2 | | 2 | | 3 | 4 |
| 251317037 | Vineyard Plantation Technique | | 2 | | 2 | | 3 | 4 |
|  | **Fall Semester Diploma Thesis Course Group I** | |  | |  | |  |  |
| 251317014 | Ornamental Plants Cultivation and Applications I | | 0 | | 2 | | 1 | 3 |
| 251317015 | Fertilization Biology Practices in Fruits I | | 0 | | 2 | | 1 | 3 |
| 251317016 | Cultivating Vegetables and Applications I | | 0 | | 2 | | 1 | 3 |
| 251317017 | Fruit Growing Techniques and Applications I | | 0 | | 2 | | 1 | 3 |
| 251317018 | Minor Vegetables-1 | | 0 | | 2 | | 1 | 3 |
| 251317022 | Fruit Culture I | | 0 | | 2 | | 1 | 3 |
| 251317024 | Minor Fruits-1 | | 0 | | 2 | | 1 | 3 |
| 251317025 | Viticulture Practices - I | | 0 | | 2 | | 1 | 3 |
| 251317026 | Vegetable seed practices - I | | 0 | | 2 | | 1 | 3 |
| 251317041 | Modern Orchards Management I | | 0 | | 2 | | 1 | 3 |
| **4. Year – Spring Semester** | | | | | | | | |
| **Course Code** | **Course Name** | | **T** | | **P** | | **NC** | **ECTS** |
| 251318023 | Subtropical fruits | | 2 | | 0 | | 2 | 2 |
| 251318024 | Warm-season vegetables | | 2 | | 0 | | 2 | 4 |
| 251318025 | Berries | | 2 | | 0 | | 2 | 4 |
| 251318026 | Nut Fruits | | 2 | | 0 | | 2 | 5 |
|  | Elective Course within the Department 1 | | 2 | | 2 | | 3 | 4 |
|  | Elective Course within the Department 2 | | 2 | | 2 | | 3 | 4 |
|  | Elective Course within the Department 3 | | 2 | | 2 | | 3 | 4 |
| 251318012 | Diploma Thesis II | | 0 | | 2 | | 1 | 3 |
| **Total** |  | | **14** | | **8** | | **18** | **30** |
|  | **Elective Course Group IV within the Department** | |  | |  | |  |  |
| 251318027 | New Advances in Horticulture Breeding | | 2 | | 2 | | 3 | 4 |
| 251318028 | Special Viticulture | | 2 | | 2 | | 3 | 4 |
| 251318029 | Soilless Culture | | 2 | | 2 | | 3 | 4 |
| 251318030 | Rootstock scion relationships of fruits | | 2 | | 2 | | 3 | 4 |
| 251318031 | Intelligent agriculture | | 2 | | 2 | | 3 | 4 |
| 251318032 | Trends and Alternative Practices in Horticulture | | 2 | | 2 | | 3 | 4 |
| 251318038 | Postharvest Physiology of Horticultural Crops | | 2 | | 2 | | 3 | 4 |
| 251318033 | Citrus Trees | | 2 | | 2 | | 3 | 4 |
|  | **Spring Semester Diploma Thesis Course Group II** | |  | |  | |  |  |
| 251318014 | Ornamental Plants Cultivation and Applications II | | 0 | | 2 | | 1 | 3 |
| 251318015 | Fertilization Biology Practices in Fruits II | | 0 | | 2 | | 1 | 3 |
| 251318016 | Cultivating Vegetables and Applications II | | 0 | | 2 | | 1 | 3 |
| 251318017 | Fruit Growing Techniques II | | 0 | | 2 | | 1 | 3 |
| 251318018 | Minor Vegetables 2 | | 0 | | 2 | | 1 | 3 |
| 251318034 | Minor Fruits II | | 0 | | 2 | | 1 | 3 |
| 251318022 | Fruit Culture II | | 0 | | 2 | | 1 | 3 |
| 251318035 | Viticulture Practices - II | | 0 | | 2 | | 1 | 3 |
| 251318036 | Vegetable Seed Practices - II | | 0 | | 2 | | 1 | 3 |
| 251318037 | Modern Orchards Management II | | 0 | | 2 | | 1 | 3 |

**T**: Theory **P:** Practice **NC:** National Credit **ECTS:** European Credit Accumulation and Transfer System