**Ankara Üniversitesi**

**Kütüphane ve Dokümantasyon Daire Başkanlığı**

**Açık Ders Malzemeleri**

### BIO 205 PLANT HISTOLOGY Dersi Çalışma Planı (Çalışma Takvimi)

| **Haftalar** | **Haftalık Konu Başlıkları** |
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| 1.Hafta | **Course Objectives and Content: General information about the course. Proposal of supplementary resources.** |
| o Histology |
| o Histological developments in plants |
| 2.Hafta | Tissue: Tissue system, importance of intercellular space system, cell wall, formation of cell wall |
| 3.Hafta | Embryonic (meristems-dividing) tissues I: Classification of Meristem cells according to their characteristics, where they are, their origins, structures and tasks. |
| 4.Hafta | **Embryonic (meristems-dividing) tissues II: Apical meristem** |
| o Vegetative stem apex; |
| o Stem apex in the pteridophytes. |
| o Stem apex in Gymnosperms; Cycas, Ginkgo and Cryptomeria-Abies type division. |
| o The stem apex of Angiosperms; histogen and tunica-corpus theories. |
| 5.Hafta | Embryonic (meristems-dividing) tissues III: Apical meristem; 2- Reproductive (reproduction) apex and 3-root apex. Intercalary and lateral meristem. |
| 6.Hafta | **Permanent (mature-continuous) tissues I: Classification of permanent tissues according to their function**. |
| o Basic (basic) texture; structure, tasks and types. |
| 7.Hafta | **Permanent (mature-continuous) tissues II: cover tissue (epidermis- Cell wall unlignified); structure and types.** |
| Stoma; classification according to guard cells, classification according to the state of neighboring cells in dicotyledon and monocotyledons. |
| 8.hafta | Permanent (mature-continuous) tissues III: Hydatods and trichomes; structure and tasks. Trichome types and missions. |
| 9.Hafta | **Permanent (mature-continuous) tissues IV: cover tissue (periderm- Cell wall lignified); structure and tasks.** |
| o Fellem, fellogen and felloderm structure and formation. |
| 10.Hafta | **Permanent (mature-continuous) tissues V: Supporting tissue; structure, elements and tasks.** |
| 11.Hafta | **Permanent (mature-continuous) tissues VI: Conducting tissue; structure, elements and tasks.** |
| Phloem; sieve tube, companion cells, phloem scleranchyma, phloem paranchyma. |
| 12.Hafta | **Permanent (mature-continuous) tissues VII: Xylem; trachea, tracheit, xylem scleranchyma and xylem parenchyma.** |
| 13.Hafta | **Permanent (mature-continuous) tissues VIII: Glandular tissue; features, tasks and anatomical differences.** |
| 14.Hafta | **Permanent (mature-continuous) tissues IX: Secretory tissue; features, tasks and anatomical differences. Nectar and nectary structure, nectar plants.** |