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| **Course name** | **Code** | **Semester** | **T+A** | **Creit** | **ECTS** |
| Soil Morphology and Micromorphology | 5115269 | Bahar | 3+0 | 3 | 6 |
| **Prerequirements** |  |
| **Course language** | English |
| **Course Type** | Selective |
| **Course coordinator** |  |
| **Instructor** |  |
| **Purpose of thecourse** | Selection of thelocation of soilprofile, profile description, horizondescriptionandlettering, techniques of thinsectionpreperation, mineral properties of polorizemicroscopes, propertiesdeterminedwiththinsectionsanddescription of thinsectionwill form thecoursetopics.  |
| **Learning outcomes of thecourse** | At theend of thiscourse1. Studentwilllearntotakesamplescorrectly in ordertopreparethinsection
2. Studentwilllearntopreparethesoilsamplestakenfortheprocess of thinsection
3. Studentwilllearntopreparethinsectionfromthesamples.
4. Studentwilllearntorecognizethinsectionunderpetrographicmicroscope.
5. Studentwilllearntocarryimagesundermicroscopeintocomputerenvironment.
6. Studentwilllearninterpretanddescribetheimagesobtained.
 |
| **Course content** | Basic concepts, selection of soilprofilelocationwithinthefieldand profile description, amorphandcrystalinematerialsegregationandconcrations, seperationtypesandproducts, observedproperties in blockspolished, description of thinsectionwill be seen. |
| **Weeks** | **Subjects** |
| 1 | Basic concepts |
| 2 | Selection of profilelocation in thefieldand profile description |
| 3 | Horizondescriptionandlettering |
| 4 | Preperationtechniques of thinsections |
| 5 | Mineral propertiesobservedundermicroscope |
| 6 | Microscobicobservations in thinsection |
|  7 | Microscobicobservations in thinsection |
| 8 | Propertiesobserved in thinsections |
| 9 | Cutaneous |
| 10 | Claysandhouseresiduals |
| 11 | Amorphandmicrocrystilanematerialsegregationsandconrations |
| 12 | Seperationforms, products, thepropertiesobserved in blockspolished |
| 13 | Descriptions of thinsections |
| 14 | Descriptions of thinsections |
| **General competency** |
| To be abletopreparethinsectionsamplesfromthehorizonsdetermined in thelaboratory, be abletocompletetheprocessesuntilthinsectionand be abletodescribeneccesarymicromorphologicalimages in thinsections. |
| **References** |
| Kapur, S., İnce, F., Çavuşgil, V., 1985. *Toprak Mikromorfolojisi*. Dicle Üniversitesi Fen Edebiyat Fakültesi. |
| **Evaluation system** |
| MidtermExam: 40%, Final: 60%; Project orhomeworkevaluations can be madebyannouncing at thebeginning of thesemester. |

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|  | **PROGRAM ÖĞRENME ÇIKTILARI İLE** **DERS ÖĞRENİM KAZANIMLARI İLİŞKİSİ TABLOSU** |
|  | **PÇ1** | **PÇ2** | **PÇ3** | **PÇ4** | **PÇ5** | **PÇ6** | **PÇ7** | **PÇ8** | **PÇ9** | **PÇ10** |
| **ÖK1** | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |
| **ÖK2** | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |
| **ÖK3** | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |
| **ÖK4** | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |
| **ÖK5** | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |
| **ÖK6** | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |
| **ÖK: Öğrenme Kazanımları PÇ: Program Çıktıları** |
| **Katkı Düzeyi** | **1 Çok Düşük** | **2 Düşük** | **3 Orta** | **4 Yüksek** | **5 Çok Yüksek** |

**Program Çıktıları ve İlgili Dersin İlişkisi**

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| **Ders** | **PÇ1** | **PÇ2** | **PÇ3** | **PÇ4** | **PÇ5** | **PÇ6** | **PÇ7**  | **PÇ8** | **PÇ9** | **PÇ10** |
| SoilMorfologyandMicromorfology | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |