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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 thiscourse   1. 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 |