<table>
<thead>
<tr>
<th><strong>Module Name</strong></th>
<th>Soil Science (Practicum)</th>
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<tbody>
<tr>
<td><strong>Code, if applicable</strong></td>
<td>GEL 0205</td>
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<td><strong>Semester(s) in which the module</strong></td>
<td>Third (3rd) Semester</td>
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<td><strong>Person responsible for the module</strong></td>
<td>M. Anggrgi Setiawan, Dr. M.Si</td>
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</table>
| **Lecturer** | M. Anggrgi Setiawan, Dr. M.Si  
Guruh Samodra, Dr. Eng., M.Sc |
| **Language** | Bahasa Indonesia |
| **Relation to curriculum** | Elective |
| **Type of teaching,** | STAR (Student Teacher Aesthetic Role-Sharing) is an optimal combination between SCL (Student Centered Learning) and TCL (Teacher Centered Learning).  
Lecturer: 1400 minutes |
| **Workload** | Lecturer: 1400 minutes including homework and discussion = 14 meetings x 100 minutes each  
Mid Semester Examination: 100 minutes  
Final Semester Examination: 120 minutes  
Total workload = 1620 minutes |
| **Credit points** | 1 |
| **Requirements according to the examination regulations** | Must attend lecture for more than 70% |
| **Module objectives/intended learning outcomes** | 1. Students are able to explain:  
- Soil classification  
- Soil morphology  
- Soil identification  
- Soil characteristic |
| **Content** | 1. Soil description on filed  
2. Soil preparation and soil water content  
3. Soil texture and NPD  
4. Atterberg Identification  
5. Bulk density, Specific density, and porosity  
6. Soil permeability  
7. PH and salinity  
8. C-Organic  
9. Cation exchange  
10. P(P04) content |
| **Study and examination requirements and forms of examination** | Pretest (10%), Practicum classes (20%), report (30%) , final examination/Responsion (40%) |
| **Media employed** | - ELISA website  
- Internet  
- Computers  
- Interactive video  
- LCD projector |
| **Reading list** | Arsyad, S. 2000. Pengawetan Tanah dan Air. Departemen Ilmu-Ilmu Tanah, Fakultas Pertanian IPB  
Dariah, A., Umi H., Torry B. Teknologi Konservasi Tanah Mekanik. |

FAO, 1977, Guidelines For Soil Profil Description, Soil Survey and Fertiling Branch, Land and Water Development Division, Food and Agriculture Organisation of The United Nation


