

Module designation	Soil Quality
Semester(s) in which the module is taught	<i>7th semester</i>
A person responsible for the module	Prof. Dr. Ir. Ahmad Kurnain, M.Sc., IPM. Ir. H. Abdul Haris, M.Si Dr. Gusti Irya Ichriani, SP., MP
Language	<i>Indonesia</i>
Relation to curriculum	<i>Preference course</i>
Teaching methods	<i>Teaching, discussion, exercise</i>
Workload (incl. contact hours, self-study hours)	- <i>Total workload: 79.24 hours</i> <i>Contact hours:</i> - <i>Lecture: 79.24 hours</i> - <i>Practice: 0 hours</i> <i>Private study including examination preparation: 36 hours</i>
Credit points	<i>3</i>
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	<i>Students are able to:</i> <i>a. understand the concept of soil quality</i> <i>b. explain the criteria and the relationship between soil quality and soil function</i> <i>c. explain physical soil quality attributes</i> <i>d. explain chemical soil quality attributes</i> <i>e. explain biological soil quality attributes</i> <i>f. assess soil quality</i>
Content	<i>Soil Quality course leads students to fulfill the main competencies of understanding concepts and attributes soil quality, as well as assessing good and healthy soil quality for quality, environmentally friendly and sustainable agricultural production. Learning is carried out by means of lectures in class and practicum in the laboratory and/or in the field. Learning materials include: the scope of soil quality, physical, chemical, and biological quality attributes of soil, as well as soil quality assessment.</i>
Examination forms	<i>Quiz, mid-semester exams, final exam, assignments (papers, posters, etc.)</i>
Study and examination requirements	<i>Overall score is above 70 (B)</i> <i>Minimum attendance is 80% for lectures.</i>

Reading list

1. *A Kurnain, Modul Pembelajaran #1: Konsep Kualitas Tanah dan Indikator Kualitas Tanah*
2. *A Kurnain, Modul Pembelajaran #2: Kualitas Kimia Tanah*
3. *M. Schloter, O. Dilly and J.C. Munch, Indicators for evaluating soil quality, Agriculture, Ecosystems and Environment 98 (2003) 255–262*
4. *S.S. Andrews, D.L. Karlen and J.P. Mitchell, A comparison of soil quality indexing methods for vegetable production systems in Northern California, Agriculture, Ecosystems and Environment 90 (2002) 25–45*