Example form for Module Handbook

A **Module Handbook or collection of module descriptions that is also available for students to consult** should contain the following information about the individual modules:

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| Module designation | Soil Physics |
| Module level, if applicable | Bachelor |
| Code, if applicable | PNT 3110 |
| Subtitle, if applicable | - |
| Courses, if applicable | 1. Land as a system 2. Soil Solid Components 3. Soil Texture 4. Soil Structure 5. Task Seminar 6. Moisture Soil 7. Moisture Movement in Soil 8. Presentation of Journal Papers |
| Semester(s) in which the module is taught | even |
| Person responsible for the module | Ir. Suci Handayani, M.P. |
| Lecturer | Ir. Suci Handayani, M.P. |
| Language | Bahasa/Indonesian language |
| Relation to curriculum | Compulsory |
| Type of teaching, contact hours | Lecture, practical, presentation |
| Workload | 2/1 SKS or 2,32/1,51 ECTS |
| Credit points | - |
| Requirements according to the examination regulations | Presence must be 70% of all meetings  Has to accomplished all the assignments |
| Recommended prerequisites | - |
| Module objectives/intended learning outcomes | Students are able to understand that soil is a natural system  Students are able to explain the characteristics of soil solids components and know the relationship between mass and volume in investigating soil physical properties  Students are able to explain and determine soil texture and its role in soil management  Students are able to explain, determine and assess soil structure and its role in soil management  Students are able to explain and measure soil moisture content and soil moisture potential  Students are able to explain and measure moisture movement in the soil |



1. When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.
2. Cf. European Commission: Proposal for a Recommendation of the European Parliament and the European Council on the establishment of the European Qualifications Framework for lifelong learning, COM(2006) 479 final, 2006/0163 (COD), Brussels 05/09(2006.

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| Content | 1. Soil as a system 2. Soil solid components 3. Soil texture 4. Soil structure 5. Soil moisture 6. Soil moisture movement |
| Study and examination  requirements and forms of examination | Assesment Presentasi/UTS/UAS |
| Media employed | Text, Presentation, Visual & Audio Web. |
| Reading list | 1. Baver, L.D. 1956. Soil Physics. 3rd ed. John Wiley and Sons, Inc. Ney York. 489h  2. Baver, L.D., W.R. Gardner, & W.H. Gardner. 1976. Soil Physics. 4th ed. John Wiley and Sons, Inc. Ney York. 498h  3. Black, C.A. (edt.). 1965. Methods of Soil Analysis Part 1: Physical and Mineralogical Properties, Including Statistics of Measurement and Sampling. American Society of Agronomy, Inc., Publisher, Madison, USA. 770h.  4. Ghildyal, B.P. & R.P. Tripathi. 1987. Soil Physics. Wiley Eastern Limited, New Delhi. 655h.  5. Hillel, D. 1982. Introduction to Soil Physics. Academic Press, Ney York. 364h.  6. Hillel, D. 1980. Applications of Soil Physics. Academic Press, Ney York. 385h  7. Jury, W.A., W.R. Gardner, & W.H. Gardner. 1991. Soil Physics. 5th ed. John Wiley and Sons, Inc. Ney York. 328h  8. Kohnke, H. 1968. Soil Physic. Tata Mc Graw Hill Publishing Company LTD Bombay.  9. Koorevaar, P., G. Menelik & C. Dirksen. 1983. Elements of Soil Physics. Elsevier, Amsterdam. 228h |