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| Module designation |  *Research Methodology* |
| Module level, if applicable |  *Bachelor* |
| Code, if applicable |  *PNU20193107* |
| Subtitle, if applicable |  |
| Courses, if applicable | 1. *Introduction*
2. *Research planning steps*
3. *Ten human developments seek the truth*
4. *Research title component*
5. *Research proposal*
6. *Variables, concepts and constructs*
7. *Variables, concepts, and constructs*
8. *Method of sampling*
9. *Ethics in research*
10. *Discussion and presentation of sample research proposals*
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| Semester(s) in which the module is taught |  *Even* |
| Person responsible for the module | *Prof. Dr.rer.nat. Junun Sartohadi, M.Sc.* |
| Lecturer | *Prof. Dr.rer.nat. Junun Sartohadi, M.Sc.**Prof. Dr. Ir. Bambang Hendro Sunarminto, SU**Dr. Makruf Nurudin, SP, MP* |
| Language |  *Bahasa/Indonesian language* |
| Relation to curriculum | *Compulsory* |
| Type of teaching, contact hours | *Lecture, practical, presentation* |
| Workload |  *2/0 SKS or 3,02/0 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 | *Explain the differences in undergraduate, postgraduate and doctoral final assignments and describe the definition of research with the three characteristics of the researcher, namely: persistence, consistency and creativity.**Able to compile and make a working bibliography and describe and make research titles which are composed of 4 title components**Describes the 10 steps of a research plan, the 5 characteristics of research, and the differences between the 10 developments in the human way of searching for truth**Able to compile and trace material to make a problem map, so that it is feasible as a reference for making research proposals**Able to search for literature as a source and describe variables, concepts and constructs with clear examples**Explains 3 ways of random sampling and 10 ways of non-random sampling* |
| Content | 1. *Introduction*
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9. *Ethics in research*
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| Study and examinationrequirements and forms of examination | *Assesment Presentasi/UTS/UAS* |
| Media employed |  *Text, Presentation, Visual & Audio Web.* |
| Reading list | 1. *Bear, F, 1964 : Chemistry of Soil. Reinhold Publi Crop. New York. Champaman and Hall, Ldt, London 515 p.s.*
2. *Bierkeland, P.W. 1974 : Pedology, Weatering and Geomorphological Research. Oxford University Press, New York., London, Toronto, 285. P.s.*
3. *Bierkeland, P.W. 1984 : Soil and Geomorphology. Oxford University Press, New York., London, Toronto, 372. P.s.*
4. *Buol S.W, Hole, F.D. McCracken, R.J. 1980; Soil genesis dan Clasification. The Towa State University Press, Ames 404 p.s*
5. *Colin, A.1987. La terre RFA par Mohudruck. 160 p.s*
6. *Darmawijaya, M. I. 1980. Klasifikasi Tanah : dasar Teori bagi peneliti Tanah dan Pelaksana Pertanian di Indonesia. Balai Penelitian teh dan kina Gambung kotak pos 148. Bandung 259 p.s.*
7. *Duchaufour, P.1977. Pedogenesis dan Classification. Masson. Paris 448 p.s.*
8. *Duchaufour, P. 1984. Abrege de Pedologie. Paris, New York, Bereelone, Milan, Mexico, Sao Paulo 220 p.s*
9. *Fanning, D.S. 1989. Soil, Morphology, Genesis and Classification. New York, Chicester, Brisbane, Toronto, Singapore 395 p.s.*
10. *Gerrard, A.J. 1981. Soil sand Landforms, An Intergration of Geomorphology and Pedolgy. Departemen of Geography, University of Brimingham 219 p.s.*
11. *Hassen, J.J., Waynel L. Bamwart. 1992. Soil and Their Environment. Prentice hall Englewood Cliffs, New Jersey 424 p.s.*
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