



# UNIVERSITAS NEGERI PADANG

## Faculty of Social Sciences Department of Geography

Jalan Prof Dr. Hamka Kampus UNP Air Tawar Padang 25171

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| DESCRIPTION                                                         |                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • <b>Module Name</b>                                                | Land Surveying                                                                                                                                                                                                                                                                                               |
| • <b>Module Level</b>                                               | Bachelor                                                                                                                                                                                                                                                                                                     |
| • <b>Code</b>                                                       | GEO1.61.2301                                                                                                                                                                                                                                                                                                 |
| • <b>Sub-heading</b>                                                | --                                                                                                                                                                                                                                                                                                           |
| • <b>Classes</b>                                                    | 2019                                                                                                                                                                                                                                                                                                         |
| • <b>Semester</b>                                                   | 2 <sup>th</sup>                                                                                                                                                                                                                                                                                              |
| • <b>Module Coordinator</b>                                         | Dra. Endah Purwaningsih, M.Sc                                                                                                                                                                                                                                                                                |
| • <b>Lecturer</b>                                                   | Team:<br>Sri Mariya, S.Pd, M.Pd                                                                                                                                                                                                                                                                              |
| • <b>Language</b>                                                   | Bahasa Indonesia                                                                                                                                                                                                                                                                                             |
| • <b>Classification within the curriculum</b>                       | Compulsory course                                                                                                                                                                                                                                                                                            |
| • <b>Teaching format / class hours per week during the semester</b> | 150 minutes lectures, 180 minutes structured activities and 180 minutes self-study per week.<br>3 SKS = 4,53'                                                                                                                                                                                                |
| • <b>Workload</b>                                                   | Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks                                                                                                                                         |
| • <b>Credit points (SKS)</b>                                        | <b>3 SKS (4,53 ECTS)</b>                                                                                                                                                                                                                                                                                     |
| • <b>Prerequisites course(s)</b>                                    | Sudah mengambil mata kuliah kartografi                                                                                                                                                                                                                                                                       |
| • <b>Course outcome</b>                                             | After taking this course the students have ability to:<br><br>CO1. Describe the basic concepts of measurement<br>CO2. Perform measurements and calculate field data using several tools and methods.<br>CO3. Analyzing data from field measurements<br>CO4. Presenting measurement data in the form of a map |
| • <b>Content</b>                                                    | The handasah course provides basic knowledge of measurements in the field and presents data in the form of maps in various terrain areas on the earth's surface.                                                                                                                                             |



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| <ul style="list-style-type: none"><li>Study / exam achievements</li></ul> | <table><tr><th>No</th><th>CO</th><th>Assesment Object</th><th>Assessment Technique</th><th>Weight</th></tr><tr><td rowspan="5">1</td><td rowspan="5">CO1-CO4</td><td>a. Individual Assignment</td><td rowspan="5">Written Test</td><td>10%</td></tr><tr><td>b. Group Assignment</td><td>10%</td></tr><tr><td>c. Quiz</td><td>5%</td></tr><tr><td>d. Mid-Term Examination</td><td>30%</td></tr><tr><td>e. Final Examination</td><td>40%</td></tr><tr><td>2</td><td></td><td>Activities</td><td>Lapangan</td><td>5%</td></tr></table> | No                       | CO                   | Assesment Object | Assessment Technique | Weight | 1 | CO1-CO4 | a. Individual Assignment | Written Test | 10% | b. Group Assignment | 10% | c. Quiz | 5% | d. Mid-Term Examination | 30% | e. Final Examination | 40% | 2 |  | Activities | Lapangan | 5% |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|------------------|----------------------|--------|---|---------|--------------------------|--------------|-----|---------------------|-----|---------|----|-------------------------|-----|----------------------|-----|---|--|------------|----------|----|
| No                                                                        | CO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Assesment Object         | Assessment Technique | Weight           |                      |        |   |         |                          |              |     |                     |     |         |    |                         |     |                      |     |   |  |            |          |    |
| 1                                                                         | CO1-CO4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | a. Individual Assignment | Written Test         | 10%              |                      |        |   |         |                          |              |     |                     |     |         |    |                         |     |                      |     |   |  |            |          |    |
|                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | b. Group Assignment      |                      | 10%              |                      |        |   |         |                          |              |     |                     |     |         |    |                         |     |                      |     |   |  |            |          |    |
|                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | c. Quiz                  |                      | 5%               |                      |        |   |         |                          |              |     |                     |     |         |    |                         |     |                      |     |   |  |            |          |    |
|                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | d. Mid-Term Examination  |                      | 30%              |                      |        |   |         |                          |              |     |                     |     |         |    |                         |     |                      |     |   |  |            |          |    |
|                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | e. Final Examination     |                      | 40%              |                      |        |   |         |                          |              |     |                     |     |         |    |                         |     |                      |     |   |  |            |          |    |
| 2                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Activities               | Lapangan             | 5%               |                      |        |   |         |                          |              |     |                     |     |         |    |                         |     |                      |     |   |  |            |          |    |
| <ul style="list-style-type: none"><li>Forms of media</li></ul>            | Power Point, Video, Gambar, Board, LCD Projector, Laptop/Computer, Kompas, Abnel Level, Clinometer, Theodolit, GPS                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                      |                  |                      |        |   |         |                          |              |     |                     |     |         |    |                         |     |                      |     |   |  |            |          |    |
| <ul style="list-style-type: none"><li>Literature</li></ul>                | <ol style="list-style-type: none"><li>Suyono Sosrodarsono (1992). Pengukuran Topography and Mapping Techniques. Pradnya Paramita, Jakarta.</li><li>Iskandar Muda P (2008). Survey and Mapping Techniques for Vocational High School Volumes 1 - 3. Ministry of National Education. Jakarta.</li><li>Basuki, Slamet (1993). Diklat of Soil Measurement, Department of Geodesy, Faculty of Engineering UGM, Yogyakarta.</li><li>Dugdale (1986). Soil Surveying. Erlangga, Jakarta.</li></ol>                                          |                          |                      |                  |                      |        |   |         |                          |              |     |                     |     |         |    |                         |     |                      |     |   |  |            |          |    |



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|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ol style="list-style-type: none"><li>5. Frick, Heinz (1991). Soil Science and Measuring Instruments, Kanisius, Yogyakarta.</li><li>6. Wongsotjitro, Soetomo (1987) Soil Measurement, Kanisius, Yogyakarta.</li><li>7. Cole, J. (2000). Surveying the digital future. UCLA Center for Communication Policy, University of California–Los Angeles.</li><li>8. Schofield, W., &amp; Breach, M. (2007). Engineering surveying. CRC Press.</li><li>9. Uren, J., &amp; Price, W. F. (2010). Surveying for engineers. Macmillan International Higher Education.</li><li>10. Roy, S. K. (2010). <i>Fundamentals of surveying</i>. PHI Learning Pvt. Ltd..</li></ol> |
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### PLO and CO Mapping

|     | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 | PLO6 | PLO7 | PLO8 | PLO9 |
|-----|------|------|------|------|------|------|------|------|------|
| CO1 |      |      |      |      |      |      |      | √    |      |
| CO2 |      |      |      |      |      |      |      | √    |      |
| CO3 |      |      |      |      |      |      |      | √    |      |
| CO4 |      |      |      |      |      |      |      | √    |      |