



# UNIVERSITAS NEGERI PADANG

## Faculty of Social Sciences Department of Geography

Jalan Prof Dr. Hamka Kampus UNP Air Tawar Padang 25171

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| DESCRIPTIONS                                                        |                                                                                                                                                                                                                                                                                                                                                                        |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|---------------|--|----------------|-----------|------------------------------|---------------------------------|---------------|--|--|--|--|--|
| ▪ <b>Module Name</b>                                                | CADASTRAL MAPPING                                                                                                                                                                                                                                                                                                                                                      |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |
| ▪ <b>Module Level</b>                                               | Bachelor                                                                                                                                                                                                                                                                                                                                                               |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |
| ▪ <b>Code</b>                                                       | GEO1.62.4014                                                                                                                                                                                                                                                                                                                                                           |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |
| ▪ <b>Subheading</b>                                                 | --                                                                                                                                                                                                                                                                                                                                                                     |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |
| ▪ <b>Classes</b>                                                    | 2017                                                                                                                                                                                                                                                                                                                                                                   |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |
| ▪ <b>Semester</b>                                                   | 4 <sup>th</sup>                                                                                                                                                                                                                                                                                                                                                        |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |
| ▪ <b>Module Coordinator</b>                                         | Dr. Arie Yulfa, S.T, M.Sc                                                                                                                                                                                                                                                                                                                                              |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |
| ▪ <b>Lecturer</b>                                                   | Team:<br>Dra. Endah Purwaningsih, M.Sc<br>Azhari Syarief, S.Pd, M.Si                                                                                                                                                                                                                                                                                                   |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |
| ▪ <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.                                                                                                                                                                                                                                                                           |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |
| ▪ <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 /ECTS</b>                                        | <b>3 SKS (4,53 ECTS)</b>                                                                                                                                                                                                                                                                                                                                               |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |
| ▪ <b>Prerequisites course(s)</b>                                    | -                                                                                                                                                                                                                                                                                                                                                                      |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |
| ▪ <b>Course outcome</b>                                             | After taking this course the students have ability to:<br>1. understand the concept of Cadastral Mapping.<br>2. Operate Total Station and GNSS for collecting data positions of parcels.<br>3. Calculate data after collecting data parcels.<br>4. operate GIS software and use spatial data analysis, and visualize spatial data in map form (softcopy and hardcopy). |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |
| ▪ <b>Content</b>                                                    | The course discusses theoretical and practical concepts of Cadastral Mapping from collecting data, processing data and visualizing data.                                                                                                                                                                                                                               |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |
| ▪ <b>Study / exam achievements</b>                                  | <table><tr><td><b>N<br/>o</b></td><td><b>CO</b></td><td><b>Assessment<br/>Object</b></td><td><b>Assessment<br/>Technique</b></td><td><b>Weight</b></td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>                                                                                                                                        |                              |                                 |               |  | <b>N<br/>o</b> | <b>CO</b> | <b>Assessment<br/>Object</b> | <b>Assessment<br/>Technique</b> | <b>Weight</b> |  |  |  |  |  |
| <b>N<br/>o</b>                                                      | <b>CO</b>                                                                                                                                                                                                                                                                                                                                                              | <b>Assessment<br/>Object</b> | <b>Assessment<br/>Technique</b> | <b>Weight</b> |  |                |           |                              |                                 |               |  |  |  |  |  |
|                                                                     |                                                                                                                                                                                                                                                                                                                                                                        |                              |                                 |               |  |                |           |                              |                                 |               |  |  |  |  |  |



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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 | CO1-5 | a. Individual Assignment<br>b. Group Assignment<br>c. Quiz<br>d. Mid-Term Examination<br>e. Final Examination | Written Test | 10%<br>10%<br>5%<br>30%<br>40% |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2 |       | Activities                                                                                                    | observation  | 5 %                            |
| <b>Forms of media</b><br>Power Point, Video, Image, Board, LCD Projector, Laptop/Computer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |       |                                                                                                               |              |                                |
| <b>Literature</b> <ol style="list-style-type: none"> <li>George M. Cole, Donald A. Wilson, 2017, Land Tenure, Boundary Surveys, and Cadastral Systems</li> <li>Brinker CR, Wolf, RP, Walijatun J, Dasar-dasar Pengukuran Tanah, Erlangga, cetakan ke-4.</li> <li>Cavill, JAL, 1995, Survey Engineering, A Guide to First Principle, Fineline Print, Australia.</li> <li>Duggal, SK, 1996, Surveying, Vol. 1, Tata McGraw-Hill, Delhi.</li> <li>Swarnalatha, P., &amp; Sevugan, P. (Eds.). (2018). Big Data Analytics for Satellite Image Processing and Remote Sensing. IGI Global.</li> <li>Rajabifard, A., Atazadeh, B., &amp; Kalantari, M. (2019). BIM and urban land administration. CRC Press.</li> <li>Abna, B., &amp; Sulaiman, R 2007, Pengelolaan Tanah Negara dan Tanah Ulayat, Lembaga Kerapatan Adat Alam Minangkabau, Padang.</li> <li>Enemark, S., McLaren, R., &amp; Lemmen, C 2015, Fit-For-Purpose Land Administration Guiding Principles.</li> <li>Deininger, K., Selod, H., Burns, A., 2012. The Land</li> <li>Governance Assessment Framework: Identifying and Monitoring Good Practice in the Land</li> </ol> |   |       |                                                                                                               |              |                                |



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|--|---------------------------------------------------------------------------------------------------|-----|-------|-------|
|  | Sector,                                                                                           | The | World | Bank. |
|  | <a href="https://doi.org/10.1596/978-0-8213-8758-0">https://doi.org/10.1596/978-0-8213-8758-0</a> |     |       |       |

### PLO and CO mapping

|     | PLO1 | PLO2 | PLO3 | PLO4 | PLO5 | PLO6 | PLO7 | PLO8 |
|-----|------|------|------|------|------|------|------|------|
| CO1 | V    | V    | V    | V    | V    | V    |      |      |
| CO2 | V    | V    | V    | V    | V    | V    |      |      |
| CO3 | V    |      |      |      |      |      |      |      |
| CO4 | V    |      |      |      |      |      |      |      |
| CO5 | V    | V    | V    | V    | V    | V    |      |      |

