



# 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>                                                | ASTRONOMY                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Module Level</b>                                               | Bachelor                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Code</b>                                                       | GEO1.62.5004                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Subheading</b>                                                 | --                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Classes</b>                                                    | 2017                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Semester</b>                                                   | 5 <sup>th</sup>                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Module Coordinator</b>                                         | Deded Chandra,S.Si,M.Si                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Lecturer</b>                                                   | Team:<br>Sari Nova,S.Pd,M.Sc                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Language</b>                                                   | Indonesia                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Classification within the curriculum</b>                       | Compulsory course                                                                                                                                                                                                                                                                                                                                                                                                                |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Teaching format / class hours per week during the semester</b> | 100 minutes lectures, 120 minutes structured activities and 120 minutes self-study per week.                                                                                                                                                                                                                                                                                                                                     |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Workload</b>                                                   | Total workload is 91 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes self-study per week for 16 weeks                                                                                                                                                                                                                                                              |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Credit points /ECTS</b>                                        | <b>2 SKS (3,02 ECTS)</b>                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Prerequisites course(s)</b>                                    | -                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Course outcome</b>                                             | After taking this course the students have ability to:<br>Students are able to understand about the history of the development of astronomy, the human view of the universe, the theory of the formation of the solar system and the universe, the laws of physics that apply in the solar system, the earth as a planet, the moon as a satellite of the earth, the outer flight, the sun, stars, galaxies and celestial spheres |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Content</b>                                                    | The Astronomy Course discusses the history of the development of astronomy, the human view of the universe, the theory of the formation of the solar system and the universe, the laws of physics prevailing in the solar system, the earth as a planet, the moon as the earth's satellite, the outer flight, the sun, stars, galaxies and celestial spheres                                                                     |                     |                         |        |        |    |                     |                         |        |
| ▪ <b>Study / exam achievements</b>                                  | <table border="1"> <tr> <td>N<br/>o</td><td>CO</td><td>Assesment<br/>Object</td><td>Assessment<br/>Technique</td><td>Weight</td></tr> </table>                                                                                                                                                                                                                                                                                   |                     |                         |        | N<br>o | CO | Assesment<br>Object | Assessment<br>Technique | Weight |
| N<br>o                                                              | CO                                                                                                                                                                                                                                                                                                                                                                                                                               | Assesment<br>Object | Assessment<br>Technique | Weight |        |    |                     |                         |        |



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|                       |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                               |              |                                        |
|-----------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------|
|                       | 1 | CO1-CO4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | a. Individual Assignment<br>b. Group Assignment<br>c. Quiz<br>d. Mid-Term Examination<br>e. Final Examination | Written Test | 10%<br><br>10%<br><br>5%<br>30%<br>40% |
|                       | 2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Activities                                                                                                    | observation  | 5 %                                    |
| <b>Forms of media</b> |   | Power Point, Video, Image, Board, LCD Projector, Laptop/Computer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                               |              |                                        |
| <b>Literature</b>     |   | Referensi<br>1. Bayong Tjasyono. 2003. Earth and Space Sciences. Itb. Bandung<br>2. Agustinus Gunawan Admiranto. 2009. Exploring Tatasurya. Canisius. Yogyakarta<br>3. Agustinus Gunawan Admiranto. 2009. Exploring the Stars of the Galaxy and the Universe. Canisius. Yogyakarta<br>4. Danang Endarto. 2005. Introduction to Cosmography. Uns. Press. Surakarta<br>5. Tanudidjaja, Moh. Ma'mur. 1995. Earth and Space Sciences. Jakarta: Ministry of Education and Culture.<br>6. Ardjana Wisni Ariasti, et al. 1995. The Journey of Knowing the Stars. Itb. Bandung<br>7. Winardi Sutanto. 1984. Astrophysics Knows Stars. Itb. Bandung<br>8. Wegie Ruslan. 2010. Solar As An Energy Source. Atmajaya Jakarta.<br>9. Chandra, Deded, Astronomy Basics, 2016. Penerbit Kencana Jakarta.<br>10. Yani, Ahmad. Pengantar Kosmografi. 2018. Penerbit Ombak Yogyakarta |                                                                                                               |              |                                        |



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### PLO and CO mapping

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

