Module Handbook

Name of module	Earth Science
Level of module	Undergraduate (S-1)
Code	8420302263
Subtitle	-
Subject of Courses	-
Semester/Year	3/ 2
Coordinator	Tjipto Prastowo, Ph.D.
Lecturers	1. Tjipto Prastowo, Ph.D. 2. Mita Anggaryani, M.Pd.
Language	Bahasa Indonesia English
Classification in Curriculum	Compulsory Course
Learning Format/ time duration per weeks	Each week: 3 hours of lecturing class (1 hour = 50 minute)
Workload	3 hours of lecturing, 3 hours of structured task, 3 hours independent learning per week for 15 weeks = total 135 hours of lecturing/semester
Credit System Unit	3
Pre-request	Basic Physics 1 and 2
CLO	1. Realizing an independent and honest character in carrying out Earth Physics lecture assignments. 2. Mastering structured studies about the role of the earth as a physical system in human life. 3. Mastering the dynamic aspects of the interdependence between the earth and humans. 4. Understanding various potential geological disasters, including geological and hydro-meteorological disasters in Indonesia. 5. 5. Implementing an attitude of awareness and responsiveness to the environment as well as being prepared for earth disasters.
Content	Earth Physics contains the study of earth science with class discussion topics including understanding the interaction between humans and nature; the role of the earth (land, oceans, atmosphere and biosphere) in human life; the impact of human activities on nature and the environment; several types of earth disasters that often occur in Indonesia and the countermeasures thereof; awareness and disaster preparedness as part of disaster mitigation education to reduce disaster risk, understanding and applying local wisdom in disaster mitigation education.
Attributed soft skill	1. Verbal communication skills (public speaking) 2. Ability to work together in presentation groups (teamwork)

<table>
<tr><td>Achievement</td><td>Students are considered competent and pass if they get at least a minimum test score of 68 (USS and US), structured activities (assignments / T) and participatory activities (P), where the final score (NA) is calculated following the formula:

$NA = \frac{(2xP)+(3xT)+(2xUSS)+(3xUS)}{10}$

Convert the 0-100 scale value to a 0-4 scale and the letters are arranged as follows:

<table>
<tr><th>Letter</th><th>Number</th><th>Interval</th></tr>
<tr><td>A</td><td>4,00</td><td>85 ≤ A < 100</td></tr>
<tr><td>A-</td><td>3,75</td><td>80 ≤ A- < 85</td></tr>
<tr><td>B+</td><td>3,50</td><td>75 ≤ B+ < 80</td></tr>
<tr><td>B</td><td>3,00</td><td>70 ≤ B < 75</td></tr>
<tr><td>B-</td><td>2,75</td><td>65 ≤ B- < 70</td></tr>
<tr><td>C+</td><td>2,50</td><td>60 ≤ C+ < 65</td></tr>
<tr><td>C</td><td>2,00</td><td>55 ≤ C < 60</td></tr>
<tr><td>D</td><td>1,00</td><td>40 ≤ D < 55</td></tr>
<tr><td>E</td><td>0,00</td><td>0 ≤ E < 4</td></tr>
</table>
</td></tr>
<tr><td>Media</td><td>1. File ppt
2. File e-book</td></tr>
<tr><td>References</td><td>1. Prastowo, T. 2012. Sains Kebumian. Unpublished work.
2. Farndon, J. et al. 2003. Planet Earth. London, UK: Lorenz Books.
3. Robinson, A. 2002. Earth Shock. London, UK: Thames and Hudson Limited.
4. Scarth, A. 2001. Savage Earth. London, UK: Harper Collins Publishers.</td></tr>
<tr><td>Note</td><td>-</td></tr>
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