

# MODULE HANDBOOK

<b>COSMOGRAPHY</b>					
<b>Module/Course Title</b>	<b>Student Workload</b>	<b>Credits</b>	<b>Semester</b>	<b>Frequency</b>	<b>Duration</b>
8720202092	<b>2 CU X 16 X 170'=  90,6618</b>	<b>2 CU / 3.18 ECTS</b>	7 <sup>TH</sup>	ONCE YEAR	<b>1 SEMESTER</b>
1	<b>Types of courses LECTURES</b>	<b>Contact hours</b>  (2CU X 1,59  ECTS)  X{(50:170')X  28,51  Workhours=  26,64	<b>Independent Study</b>  (2CU X 1,59  ECTS)  X{(60:170')X  28,51  Workhours=  31,96	<b>Structured Study</b>  (2CU X 1,59  ECTS)  X{(60:170')X  28,51  Workhours=  31,96	<b>Class size</b>  MAX 120 STUDENT
2	<b>Prerequisites for participation (if applicable)</b> -				
3	<b>Program Learning outcomes</b>				
	PLO-2 Able to analyze regional characteristics and regionalization (regionalization) in the context of resources and disasters based on the principles and approaches of geography to support sustainable development.				
	PLO-5 Able to demonstrate independent and collaborative performance that produces quality and measurable results				
	PLO-11 Able to demonstrate a responsible attitude towards work in the field of expertise independently				
	<b>Course Learning Outcome (CLO)</b>				
	CLO-2 Able to analyze regional characteristics and regionalization (regionalization) in the context of universe resources and disasters based on geographic principles and approaches to support sustainable development				
	CLO-5				

	Able to demonstrate independent and collaborative performance that produces quality and measurable results in calculations and concepts in the study of the universe
	CLO-11 Demonstrate a responsible attitude towards work in the field of in calculations and concepts in the study of the universe independently
4	Learning materials 1. Definition of Cosmography 2. The universe/universe and all its contents and processes 3. The Solar System 4. The process of motion of the earth and its influence on life on the earth's surface 5. Sun, moon and the process of eclipses 6. Date (calendar) 7. Paint celestial bodies on the celestial sphere based on the horizon coordinate system, the equator coordinate system, and the ecliptic coordinate system
5	<b>Teaching methods</b> <i>Small Group Discussion , Project Base Learning</i>
6	<b>Assessment methods</b> <i>paper test, Portofolio</i>
7	<b>This module/course is used in the following study programme/s as well</b> -
8	<b>Responsibility for module/course</b> COMPULSORY/ELECTIVE*/
9	1. Anessudin, Mir. 1999. <i>The Universe</i> . Toronto, Canada : Al-Attique Publisher Inc. 2. MGMP Geografi DKI Jakarta. 1993. <i>Kosmografi</i> . Jakarta: Erlangga 3. Perdana, Sukma., <i>Kosmografi</i> . Surabaya. Unesa Pres 4. Simamora, P. 1988. <i>Ilmu Falak (Kosmografi)</i> . Jakarta : CV. Pedjuang Bangsa 5. Siswanto, Joko. 2005. <i>Orientasi Kosmologi</i> . Yogyakarta. Gadjah Mada University Press 6. Yahya, Harun. 2002. <i>Menyibak Rahasia Alam Semesta</i> . Jakarta : Insan Kamil 7. Matt, Daniel C. 2018. <i>Cosmography: Writing the Universe.</i> , University of California Press 8. Gott, J. Richard. 2016. <i>The Cosmic Web: Mysterious Architecture of the Universe</i> . Princeton University Press