

UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF MATHEMATICS EDUCATION

Jalan Colombo Nomor 1 Yogyakarta 55281 Telepon(0274)565411 Pesawat 217, (0274)565411(TU),fax (0274)548203 Laman :fmipa.uny.ac.id, E-mail :humas_fmipa@uny.ac.id

Bachelor of Education in Science

MODULE HANDBOOK

Module name:	Astronomy					
Module level, if applicable:	Undergraduate					
Code:	FIP6323					
Sub-heading,if applicable:	-					
Classes, if applicable:	-					
Semester:	4 th (fourth)					
Module coordinator:	Sabar Nurohman, M.Pd,					
Lecturer(s):	Widodo Setiyo Wibowo, M.Pd, Eko Widodo, M.Pd., Didik Setyawarno, M.Pd.					
Language:	Bahasa Indonesia					
Classification within the curriculum:	Compulsory Course					
Teaching format / class hours per week during the semester:	150 minutes lectures and 180 minutes structured activities per week.					
Workload:	Total workload is 136 hours per semester which consists of 150 minutes lectures and 180 minutes structured activities, and 180 minutes individual study per week for 16 weeks.					
Credit points:	3 (5 ETCS)					
Prerequisites course(s):	-					
Targeted learning outcomes:	After accomplishing this course students are able to: CO1. show independency and responsibility in carrying out individual tasks and group assignments CO2. show independency, quality and measurable performance in observing astronomical phenomena CO3. understand principles of astronomy, basic concepts of celestial spheres, solar systems, stars radiation and spectroscopic, telescopes, the evolution of stars, galaxies and the universe					
Content:	This course includes principles of astronomy, basic concepts of celestial spheres and phenomena observed in them, solar system, earth-moon system, and planet and satellite motion,					

Study/exam achievements:	basic concepts of star radiation and star spectroscopy used to obtain information about physical properties of celestial bodies, nature of stars and evolution of stars, structure of galaxies and basic concepts in cosmology, and basic concepts of telescope optics and how to operate it in observation activities. It also carried out practical activities that are integrated into theories to develop competencies in mastering concepts through observation activities. Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.							
Study/exam achievements.	The final mark will be weight as follow: No CO Assessment Assessment Weight							
			Object	Technique				
	1	CO1,	a. Individual	Presentation,	20%			
		CO2	Assignment	Observation				
		and	b. Group	Report,	20%			
		CO3	Assignment	Project, and	30%			
			c. Mid	written test	30%			
			d. Final Exam	Total	100%			
Forms of media:	Boor	4 1 0 0	Projector, Laptop/Compu		100%			
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	A. A E Roy & D Clarke. (nd). Astronomy Principles and Practice 4 th edition. Bristol & Philadelphia: Institute of							
	physics publishing.							
Literature:	_	-	and McMillan. (2014). <i>A</i>	stronomy Today	/ 8ed.			
	Pearson.							
C. I Nyoman Suwitra. (nd). Astronomi Dasar. Singar								
	C:	ngaraja		-				

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1		✓										
CO2								✓				
CO3				✓	✓	✓	√					