

UNIVERSITAS NEGERI YOGYAKARTA FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF PHYSICS EDUCATION PHYSICS STUDY PROGRAM

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Bachelor of Physics

MODULE HANDBOOK

Module name:	Seismology					
Module level, if applicable:	Undergraduate					
Code:	FSK6270					
Sub-heading, if applicable:	-					
Classes, if applicable:	-					
Semester:	5 th					
Module coordinator:	Khafidh Nur Aziz, M.Sc.					
Lecturer(s):	Khafidh Nur Aziz, M.Sc.					
Language:	Bahasa Indonesia					
Classification within the	Elective Course					
curriculum:						
Teaching format / class	100 minutes lectures 120 minutes structured activities and					
hours per week during the	120 minutes individual study per week					
semester:						
	Total workload is 90,67 hours per semester which consists of					
Workload:	100 minutes lectures, 120 minutes structured activities, and					
	120 minutes individual study per week for 16 weeks.					
Credit points:	2 SKS (3.25 ECTS)					
Prerequisites course(s):	Vibration and Waves (FSK6316)					
Course Outcomes	 A. mastering the basics of seismology. B. mastering earthquake mechanism. C. analyze earthquake source mechanisms. D. analyze different tectonic environments from focal mechanisms. 					
Content:	This course discusses history and insight into seismology, seismological instrumentation, seismic waves, earthquake source mechanisms, and focal mechanism.					

	The final mark will be weight as follow:							
Study / exam achievements:	No CO		Assessment Object	Assessment Technique	Weight			
	1	CO1, CO2, CO3,	a. Assignment (Individual, Case Study)	Written Test	50%			
		and	b. Mid		25%			
		004	c. Final Exam		25%			
				Total	100%			
Forms of media:	Board, LCD Projector, Laptop/Computer							
	A. Shearer, P.M. 2009. Introduction to Seismology 2nd Edition.							
Literature:	Cambridge: Cambridge University Press.							
	B. Aki, K. and Richards, P. G. (2002). Quantitative Seismology,							
	2nd edn, Sausalito, CA: University Science Books.							

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8
CO1								
CO2								
CO3								
CO4								