



# UIN SUNAN KALIJAGA YOGYAKARTA

## FACULTY OF SCIENCE AND TECHNOLOGY

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### Undergraduate Programme in Physics

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### MODULE HANDBOOK

Module Name	Seismic Exploration							
Module level, if applicable	Bachelor							
Code, if applicable	FIS425053							
Subtitle, if applicable	-							
Courses, if applicable	Seismic Exploration							
Semester(s) in which the module is taught	5 <sup>th</sup> (fifth)							
Person responsible for the module	Dr. Thaqibul Fikri Niyartama, S.Si., M.Si							
Lecturer(s)	Dr. Thaqibul Fikri Niyartama, S.Si., M.Si							
Language	Indonesia							
Relation to curriculum	Elective course in the third year (5 <sup>th</sup> semester) Bachelor Degree							
Type of teaching, contact hours	150 minutes lectures and 180 minutes structured activities per week.							
Workload	Total workload is 136 hours per semester, which consists of 150 minutes lectures per week for 14 weeks, 180 minutes structured activities per week, 180 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam							
Credit points	3							
Requirements according to the examination regulations								
Recommended prerequisites	No prerequisites stated on							
Module objectives/intended learning outcomes	After completing this course, the students: CO 1. understand the basic concepts of seismic wave propagation from a physics perspective CO 2. able to explain seismic refraction and seismic reflection methods and their data acquisition CO 3. able to understand techniques for processing and interpreting 2D refraction and reflection seismic data.							
Content	a. Seismic wave propagation theory b. P and S wave velocities c. Seismic refraction d. Seismic reflection e. Acquisition, processing and interpretation of seismic data f. Application of seismic methods in geophysical exploration							
Study and examination requirements and forms of examination	The final mark will be weighted as follows: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NO</th> <th style="width: 70%;">Assessment methods (components, activities)</th> <th style="width: 20%;">Weight (percentage)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Final Examination</td> <td>40%</td> </tr> </tbody> </table>		NO	Assessment methods (components, activities)	Weight (percentage)	1	Final Examination	40%
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1	Final Examination	40%						

