



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	Volcanology
Module level, if applicable	Bachelor
Code, if applicable	FIS424077
Subtitle, if applicable	-
Courses, if applicable	Volcanology
Semester(s) in which the module is taught	5 th (fifth)
Person responsible for the module	Andi, M.Sc.
Lecturer(s)	Andi, M.Sc
Language	Indonesia
Relation to curriculum	Elective course in the third year (5 th semester) Bachelor Degree
Type of teaching, contact hours	100 minutes lectures and 120 minutes structured activities per week.
Workload	Total workload is 90.6 hours per semester, which consists of 100 minutes lectures per week for 14 weeks, 120 minutes structured activities per week, 120 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam
Credit points	2
Requirements according to the examination regulation	Minimum attendance 75% All assignments submitted Attendance on time
Recommended prerequisites	No prerequisites stated on
Module objectives/intended learning outcomes	After completing this course, the students: CO 1. Students are able to explain the basic principles of volcanology. CO 2. Students understand about volcanic activity. CO 3. Students understand the basics of volcano disaster observation and mitigation.
Content	<ol style="list-style-type: none"> 1. Introduction to volcanoes 2. Theory of plate tectonics and volcanism 3. Magma 4. The Physical Properties of Magma and Why it Erupts 5. Classification of volcanic eruptions and their products 6. Positive and negative impacts of volcanoes 7. Volcano observation and disaster mitigation 8. Humanistic Volcanology
Study and examination requirements and forms of examination	The final mark will be weighted as follows:

	NO	Assessment methods (components, activities)		Weight (percentage)																																										
	1	Final Examination		40%																																										
	2	Mid-Term Examination		30%																																										
	3	Class Activities : Quiz, Homework, etc.		30%																																										
<p>The final assessment is expressed in the form of a letter value converted from a number value with the following categories:</p> <table border="1"> <thead> <tr> <th>NO</th> <th>Number Value</th> <th>Letter Value</th> <th>NO</th> <th>Number Value</th> <th>Letter Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>≥ 95</td> <td>A</td> <td>7</td> <td>65-69.99</td> <td>B/C</td> </tr> <tr> <td>2</td> <td>90-94.99</td> <td>A-</td> <td>8</td> <td>60-64.99</td> <td>C+</td> </tr> <tr> <td>3</td> <td>85-89.99</td> <td>A/B</td> <td>9</td> <td>55-59.99</td> <td>C</td> </tr> <tr> <td>4</td> <td>80-84.99</td> <td>B+</td> <td>10</td> <td>50-54.99</td> <td>C-</td> </tr> <tr> <td>5</td> <td>75-79.99</td> <td>B</td> <td>11</td> <td>55-34.99</td> <td>D</td> </tr> <tr> <td>6</td> <td>70-74.99</td> <td>B-</td> <td>12</td> <td><35</td> <td>E</td> </tr> </tbody> </table>					NO	Number Value	Letter Value	NO	Number Value	Letter Value	1	≥ 95	A	7	65-69.99	B/C	2	90-94.99	A-	8	60-64.99	C+	3	85-89.99	A/B	9	55-59.99	C	4	80-84.99	B+	10	50-54.99	C-	5	75-79.99	B	11	55-34.99	D	6	70-74.99	B-	12	<35	E
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Media employed	White-board, Lcd Projector, e-learning (https://daring.uin-suka.ac.id/)																																													
Reading list	<ol style="list-style-type: none"> Lockwood, John P. and Richard W. Hazlett., 2010, Volcanoes Global Perspectives, Wiley-Blackwell. Schmincke, Hans-Ulrich., 2004, Volcanism, Springer. Daniel Dzurisin, 2007, Volcano Deformation, Geodetic Monitoring Techniques, United States Geological Survey, Praxis Publishing Ltd, Chichester, UK. 																																													

PLO and CO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9
CO 1			√					√	√
CO 2			√					√	√
CO 3			√					√	√