



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	Structural Geology
Module level, if applicable	Bachelor
Code, if applicable	FIS424030
Subtitle, if applicable	-
Courses, if applicable	Structural Geology
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	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 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. Able to recognize the elements of geological structures. CO 2. Able to describe and analyze geological structures. CO 3. Able to explain the occurrence process of a geological structure.
Content	1. Pendahuluan: Struktur bumi dan perubahan lempeng 2. Unsur-unsur struktur Geologi 3. Analisa Kinematika: Translasi, Rotasi dan Strain 4. Analisa Dinamika: Gaya, Traction, Stress serta hubungan stress dan strain 5. Mekanisme Deformasi dan Struktur Mikro 6. Mekanisme Pembentukan Rekahan dan Patahan 7. Joints 8. Faults 9. Fold 10. Interaksi Fault dan Fold 11. Foliasi dan liniasi
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"> Davis, George H., et al, 2012, Structural Geology of Rock and Regions: 3rd edition, John and Wiley and Sons, Inc. Ragan, D. R., 2009, Structural Geology An Introduction to Geometrical Techniques: 4th edition Cambridge University Press. Fossen, H., 2010, Structural Geology, Cambridge University Press. 																																													

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			√					√	√