UIN SUNAN KALIJAGA YOGYAKARTA
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**Undergraduate Programme in Physics**

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**MODULE HANDBOOK**

| | |
|---|---|
| Module Name | Earth Disasters Mitigation |
| Module level, if applicable | Bachelor |
| Code, if applicable | FIS424074 |
| Subtitle, if applicable | - |
| Courses, if applicable | Earth Disasters Mitigation |
| Semester(s) in which the module is taught | 7th (seventh) |
| 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 | Compulsory course in the fourth year (7th 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:<br>CO 1. Able to explain the concept of humans as caliph fil ardl in mitigating earth disasters<br>CO 2. Able to compare and show how several geophysical methods work for mitigating earth disasters in a structured manner<br>CO 3. Able to analyze earth disaster mitigation methods in a structured and systematic manner<br>CO 4. Able to explain case studies of earth disaster mitigation in Indonesia in a structured and systematic manner |
| Content | a. The concept of humans as khalifaih fil ardl in managing the earth and mitigating earth disasters<br>b. Identify types and criteria for earth and atmospheric disasters<br>c. Earth disaster mitigation<br>d. Mapping disaster-prone areas<br>e. Earth disaster risk analysis method<br>f. Earth disaster mitigation case study |

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<table>
<tr><td>Study and examination requirements and forms of examination</td><td>The final mark will be weighted as follows:
<table>
<tr><th>NO</th><th>Assessment methods (components, activities)</th><th>Weight (percentage)</th></tr>
<tr><td>1</td><td>Final Examination</td><td>40%</td></tr>
<tr><td>2</td><td>Mid-Term Examination</td><td>30%</td></tr>
<tr><td>3</td><td>Class Activities: Quiz, Homework, etc.</td><td>30%</td></tr>
</table>
The final assessment is expressed in the form of a letter value converted from a number value with the following categories:
<table>
<tr><th>NO</th><th>Number Value</th><th>Letter Value</th><th>NO</th><th>Number Value</th><th>Letter Value</th></tr>
<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>
</table></td></tr>
<tr><td>Media employed</td><td>White-board, Lcd Projector, e-learning (https://daring.uin-suka.ac.id/)</td></tr>
<tr><td>Reading list</td><td>1. Ward, S.H., Editor 1990, Geotechnical and Environmental Geophysics, SEG.<br>2. Bell, F G., 1999, Geological hazards their assessment, avoidance, and mitigation, E & FN SPON.</td></tr>
</table>

**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** | | | √ | √ | | | | | |
| **CO 4** | | √ | √ | √ | | | | | |