



**UNIVERSITAS NEGERI YOGYAKARTA**  
 FACULTY OF MATHEMATICS AND NATURAL SCIENCES  
 DEPARTMENT OF BIOLOGY  
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**Bachelor of Science in Biology**

**MODULE HANDBOOK**

|   |  |   |
|---|--|---|
| Module name:  | <b>General Chemistry Laboratory Work</b>   |   |
| Module level, if applicable:                                | Undergraduate  |   |
| Code:   | <b>KIM 6401</b>  |   |
| Sub-heading, if applicable:                                 | -  |   |
| Classes, if applicable:                                     | -  |   |
| Semester:   | 1 <sup>st</sup>  |   |
| Module coordinator:   | Jaslin Ikhsan, Ph.D.   |   |
| Lecturer(s):  | Nur Fitriyana, M.Pd.   |   |
| Language:   | Bahasa Indonesia   |   |
| Classification within the curriculum:                       | Compulsory Course  |   |
| Teaching format / class hours per week during the semester: | 170 minutes includes the laboratory work and it's reporting per week   |   |
| Workload:   | Total workload of the activity is 45,33 hours per semester which consist of 170 minutes laboratory work with it's reporting per week for 16 weeks.   |   |
| Credit points:  | 1 SKS (1,645 ECTS)   |   |
| Prerequisites course(s):                                    | -  |   |
| Course Outcome:   | After taking this course, the students are expected to be able to:   |   |
|   | CO1  | Students understand the basic concept of chemistry and their application in daily life. |
|   | CO3  | Students can evaluate the results of chemistry research based on data analysis          |
|   | CO4  | Sudents can communicate oral and written form the results of the laboratory work        |
| Content:  | The objective of General Chemistry Laboratory Work course for Biology is to provide the basics skills of chemistry that used to understand the chemistry concept that related with biology. This course conducts the experiment about stoichiometry, solutions, chemical kinetics, thermochemistry, nuclear chemistry and radiochemistry, as well as organic and biochemistry. The learning methods use are experiment in the laboratory, discussion, question and answer, lectures. The assesment technique in this course include observation, written tests, quizzes, laboratory report, and performance. |   |

