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Undergraduate Programme in Biology
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MODULE HANDBOOK

Module Name	Analytical Microbiology
Module level, if applicable	Bachelor
Code, if applicable	BIO425076
Subtitle, if applicable	-
Courses, if applicable	Microbiology
Semester(s) in which the module is taught	6th (sixth)
Person responsible for the module	Lela Susilawati, PhD
Lecturer(s)	-
Language	Indonesia
Relation to curriculum	Elective course in the third year (6th semester) Bachelor Degree
Type of teaching, contact hours	150 minutes lectures and 180 minutes structured activities per week.
Workload	Total workload is 90,7 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 credits (4,5 ECTS)
Requirements according to the examination regulations	Minimal attendance 75%; fulfil all the task
Recommended prerequisites	No prerequisites stated on
Module objectives/intended learning outcomes	After completing this course, the students should be: CO1: able to able to describe the urgency of analytical microbiology, laboratory safety, sampling techniques, and QA and QC in microbiology regulations CO2: able to describe microbial detection and analyze based on physics, chemistry and molecular approaches CO3: able to practice analytical microbiology on several object in nature
Content	1. Urgency of analytical microbiology, lab safety and sampling techniques 2. QA and QC regulation in microbiology 3. Microbial detection and analysis by physics, chemistry, molecular methods 4. Microbial analysis practice in laboratory for some samples
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	25%
2	Mid-Term Examination	25%
3	Class Activities: Quiz, Homework, etc.	20%
4	Practical lab report	30%

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	The final assessment is expressed in the form of a letter value converted from a number value with the following categories:

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

Media employed	White-board, LCD Projector, e-learning (https://daring.uin-suka.ac.id/)
Reading list	1. Michael T. Madigan, Kelly S. Bender, Daniel HB., Matthew Sattley, David, A.Stahl. 2019. Brock Biology of Microorganisms. 15th edition. Pearson Education. London. 2. Cappuccino James G, Welsh C. 2018. Microbiology A Laboratory Manual. Pearson Education. London 3. Talaro Kathleen P, Talaro A. 2002. Foundations in Microbiology. The McGraw-Hill Companies.

PLO and CO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11
CO 1				√							
CO 2				√	√						
CO 3					√				√		