

1. Module XXXII: Biosafety II

1.1. Module Objectives

On completion of this module, the students will be able to

- Define and describe quality standard of microbial-based bioproduct
- Define, describe, and list harmful chemicals in bioproduct
- Define and identify the regulation standard of harmful chemical in bioproduct, especially for food

1.2. Module Data

Person in charge	Dr. Isty A. Purwasena
Credits	3
Course	BM4105 Biosecurity of Bioproduct
Module examination	Written test

1.2.1. Sub-module II : Biosecurity of Bioproduct

Lecturer	Dr. Isty A. Purwasena
Semester	7
Type of submodule / course	Elective
Credits	3
Workload - class lecture (hr/sem)	3 hours lectures, 3 hours structured activities, 3 hours individual study, 16 weeks per semester, and total 144 hours a semester
Workload details	Textbook reading assignment, group discussion, paper review, presentation
Classification within the curriculum:	General Studies / Compulsory Course / Elective Course
Type of assessment/examination	Written Test : Midterm exam, Final exam, Assignment
Language	Bahasa Indonesia
Course Target / Outcome	Students will be able to : <ul style="list-style-type: none">• Define and describe quality standard of microbial-based bioproduct• Define, describe, and list harmful chemicals in bioproduct• Define and identify the regulation standard of harmful chemical in bioproduct, especially for food
Teaching methods	Interactive Teaching
Contents (SAP)	

1	Introduction
2	Biosafety of animal- and plant-based food product
3	
4	Regulation of food security management
5	Government regulation related to food security
6	Food security application in developing country
7	Mid-Term Test
8	National food Security management
9	
10	General food security management
11	
12	
13	Topic Presentation
14	
15	
16	Final Test
Literature / Sources	<ul style="list-style-type: none"> • Pawsey, R.K., 2002. <i>Case studies in food microbiology for food safety and quality</i>. Royal Society of Chemistry. • Jay, J.M., 2012. <i>Modern food microbiology</i>. Springer Science & Business Media.
Other specialties	