

Module XXX: Biosafety IB

1.1. Module Objectives

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

- Understand laboratory management related to facilities, infrastructure, human resources, and HSE.
- Identify the relationship between laboratories existence with the government, the general public, and industry
- Understand the importance of laboratory management as a reference for trust and necessity by governments, the general public, and industry
- Understand the factors that affect bioproduct damage, the Final Semester Examination evaluation technique used to test bioproduct safety, and technological developments related to bioproduct safety
- Apply management methods and management for bioproduct safety

1.2. Module Data

Person in charge	Ir. V Sri Harjati Suhardi, Ph.D.
Credits	2
Course	BM 4105 Microbial laboratory management BM4107 Biosecurity of Bioproduct
Module examination	Written test

1.2.1. Sub-module I : Microbial laboratory management

Lecturer	Ir. V Sri Harjati Suhardi, Ph.D.
Semester	7
Type of submodule / course	Elective
Credits	3
Workload - class lecture (hr/sem)	3hours 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 examination	Written Test
Language	Bahasa Indonesia
Course Target / Outcome	<ul style="list-style-type: none">- Understand laboratory management related to facilities, infrastructure, human resources, and HSE.- Identify the relationship between laboratories existence with the government, the general public, and industry- Understand the importance of laboratory management as a reference for trust and necessity by governments, the general public, and industry
Teaching methods	Interactive Teaching

Contents (SAP)	
	<ul style="list-style-type: none"> - Access to hazardous chemicals - Access to harmful microbial agents - Chemical storage management - Microbial storage management - Development of standard operating management in laboratory - Laboratory operating system and equipment maintenance - Introduction to laboratory audits - Types of laboratory certification
Literature / Sources	Harmening et. al., Laboratory Management: Principles and Processes, 3, D.H. Publishing and Consulting Inc., 2012
Other specialties	

1.2.2. Sub-module II : Biosecurity of Bioproduct

Lecturer	Dr.Eng. Isty Adhitya Purwasena
Semester	7
Type of submodule / course	Elective
Credits	3
Workload - class lecture (hr/sem)	3hours 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 examination	Written Test
Language	Bahasa Indonesia
Course Target / Outcome	<p>A. Conceptual Knowledge and Competence:</p> <ul style="list-style-type: none"> - Understand the factors that affect bioproduct damage, the Final Semester Examination evaluation technique used to test bioproduct safety, and technological developments related to bioproduct safety - Apply management methods and management for bioproduct safety <p>B. Scientific Skills:</p> <ul style="list-style-type: none"> - Able to work independent or groups in presenting the results of scientific articles review in the field of bioproduct safety. Students can think critically scientific articles related to the safety of bioproducts
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	Knechtges, P.L. 2012. Food safety. South caroline: Jones& Bartlett learning <ul style="list-style-type: none"> • Related scientific article
Other specialties	