

Module XXV Research Project

1.1. Module Objectives

On completion of this module, the students will be:

- Able to interpret given knowledge to describe various observable phenomenon in their research activities
- Able to make scientific reports in the form of final thesis and publication draft based on their research activities
- Able to apprise their research results in both oral and written to scientific community and society
- Able to show positive attitude to discuss different argument
- Able to answer various question related to various aspect in microbiology outside their research area
- Able to show their formal and non-formal communication skill in order to get support from their society
- Able to collect their idea of research to make research proposal
- Able to show their idea of research to scientific society
- Able to perform their research plan and modify if needed
- Able to design in detail their research plan
- Able to choose and develop laboratory assay related to their research
- Able to perform and develop their scientific- communication skill to show their scientific thinking and negotiate about their research plan to their supervisor
- Able to apply analysis assay that they choose to get data
- Able to confirm and show their research results with use of scientific thinking and various concept of microbiology

1.2. Module Data

Person in charge	Dr. Gede Suantika
Credits	11
Course	BM4090 Final Research I BM4091 Final Research II BM4092 Seminar dan Sidang
Course Examination	Research Document Progress Report and research performance evaluation

1.2.1. Sub-module I: Final Project I

Lecturer	Dr. Gede Suantika
Semester	7
Type of submodule / course	Compulsory
Credits	4

Workload - preparation	64
Workload - exam duration	-
Workload - autonomous studies	64
Workload details	textbook reading, group discussion, paper review, presentation review, discussion
Contact hours per week	64
Contact hours per week (50 min)	4
Type of examination	Progress report document evaluation, research performance
Language	Bahasa Indonesia
Course Target / Outcome	Students know and apply steps of preparation, research data documentation, and report research
Teaching methods	(1) Regular class meeting (every 4 weeks) for orientation and monitoring accompanied by class discussion (2). Individual preparation of students, leading to written research progress report
Contents (SAP)	
1	Introduction : General overview of conducting research conducted by course coordinator
2	Monitoring and discussion with supervisor
3	Monitoring and discussion with supervisor
4	Monitoring and discussion with supervisor
5	Evaluation Meeting with course coordinator
6	Monitoring and discussion with supervisor
7	Monitoring and discussion with supervisor
8	Monitoring and discussion with supervisor
9	Evaluation Meeting with course coordinator
10	Evaluation Meeting with course coordinator
11	Evaluation Meeting with course coordinator
12	Evaluation Meeting with course coordinator
13	Evaluation Meeting with course coordinator
14	Preparation of Research Progress Report
15	Preparation of Research Progress Report
16	Evaluation conducted by research supervisor under course coordinator coordination
Literature / Sources	-
Other specialties	-

1.2.2. Sub-module II: Final Project II

Lecturer	Dr. Gede Suantika
Semester	8
Type of submodule / course	Lecture, research/laboratory work, final report evaluation

Credits	3
Workload - preparation	48
Workload - exam duration	-
Workload - autonomous studies	48
Workload details	textbook reading, group discussion, paper review, presentation review, discussion
Contact hours per week	96
Contact hours per week (50 min)	3
Type of examination	Final report document evaluation, research performance
Language	Bahasa Indonesia
Course Target / Outcome	Students able to discover technique of data collection, process, and analysis from research activities that will be ended by writing final report
Teaching methods	(1) Regular class meeting (every 4 weeks) for orientation and monitoring accompanied by class discussion (2). Individual preparation of students, leading to written final research report
Contents (SAP)	
	Introduction : General overview of how to schedule and reporting the final report conducted by course coordinator
1	
2	Monitoring and discussion with supervisor
3	Monitoring and discussion with supervisor
4	Monitoring and discussion with supervisor
5	Evaluation Meeting with course coordinator
6	Monitoring and discussion with supervisor
7	Monitoring and discussion with supervisor
8	Monitoring and discussion with supervisor
9	Evaluation Meeting with course coordinator
10	Evaluation Meeting with course coordinator
11	Evaluation Meeting with course coordinator
12	Evaluation Meeting with course coordinator
13	Evaluation Meeting with course coordinator
14	Preparation of Final Research Report
15	Preparation of Final Research Report
16	Evaluation conducted by research supervisor on final report under course coordinator coordination
Literature / Sources	-
Other specialties	-

1.2.3. Sub-module III: Seminar and Final defence

Lecturer	Dr. Gede Suantika
Semester	8

Type of submodule / course	participation in research seminar, conducting seminar, finishing final scientific document
Credits	2
Workload - preparation	32
Workload - exam duration	2
Workload - autonomous studies	32
Workload details	textbook reading, group discussion, paper review, presentation review, discussion
Contact hours per week	
Contact hours per week	2
Type of examination	Scientific publication document, seminar
Language	Bahasa Indonesia
Course Target / Outcome	Students have the ability to make scientific publication in the form of thesis and journal Students have the ability to have scientific communication skills to explain their research and able to describe comprehensive scientific concept in both oral and written
Teaching methods	(1) present at seminar class, (2) individual preparation of oral presentation and final research defence
Contents (SAP)	
	1 Introduction : presentation preparation, scientific publication, and seminar strategy and scheduling
	2 Weekly meeting for progress report
	3 Weekly meeting for progress report
	4 Weekly meeting for progress report
	5 Weekly meeting for progress report
	6 Weekly meeting for progress report
	7 Weekly meeting for progress report
	8 Weekly meeting for progress report
	9 Weekly meeting for progress report
	10 Weekly meeting for progress report
	11 Weekly meeting for progress report
	12 Weekly meeting for progress report
	13 Weekly meeting for progress report
	14 Weekly meeting for progress report
	15 Weekly meeting for progress report
	16 Weekly meeting for progress report
Literature / Sources	-
Other specialties	-