



# Welcome New Students!

Semester 1, 2025/2026

## Master of Agricultural Biosecurity

Dr. Chua Kah Ooi  
Programme Coordinator

*Home of the Bright, Land of the Brave*  
*Di Sini Bermulanya Pintar, Tanah Tumpahnya Berani*



**UNIVERSITI  
MALAYA**



# **Centre for Research in Biotechnology for Agriculture (CEBAR)**

*A University of Malaya Centre of Excellence*



<http://cebar.um.edu.my>



# About CEBAR

- Established in 2005
- One of 6 University of Malaya (UM) Centres of Excellence of Research

## Our vision

A world class research centre for agbiotech, advancing a sustainable bioeconomy

## Our mission

Advancing agbiotech through impactful research, quality education and effective engagement

## Core values of Universiti Malaya



To support global & national priorities:

## NICHE AREA



### Biotechnology for Sustainable Food Production



1. National Agro-food Policy 2.0 (NAP2.0)
2. National Policy on Climate Change in 2010
3. National Biotechnology Policy (NBP)
4. Key Economic Growth Activities (KEGA) 13
5. 10-10 MySTIE
6. Shared Prosperity Vision 2030

# Agriculture is inherently un-sustainable!

## NICHE AREA



Biotechnology for Sustainable  
Food Production

Pristine rain forest and coral reefs are beautiful and  
biodiverse.....

...but they cannot support the food, feed and material  
needs of an industrialised society



# CEBAR Members

## CEBAR Academics

### Full Members



**Prof Dr Jennifer Ann Harikrishna**  
*Director*



**Dr Tan Boon Chin**  
*Deputy Director*



**Prof Dr Subha A/P Bhassu**



**Assoc Prof Dr Chandran Somasundram**



**Dr. Zuliana Razali**



**Dr Teo Chee How**



**Dr. Norhafiza Mohd Arshad**



**Dr. Fiqri Dizar Khaidizar**



**Dr. Purabi Mazumdar**



**Dr. Nurzatil Sharleeza Mat Jalaluddin**



**Dr. Mohd. Fadhli Hamdan**



**Dr. Chua Kah Ooi**



RO

**Lau Su Ee**



RO

**Dr. Najiah Mohd Sadali**



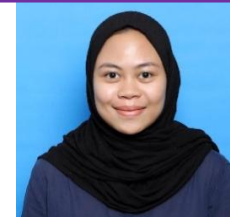
RO

**Siti Nur Akmar Mazlin**



ASO

**Zarina Md Ali**



**Nur Diyana Asri**



**Nor Nadirah Abd Hamid**



**Post-doc: Dr. Teo Wee Fei Aaron**

# Introduction - Master of Agricultural Biosecurity

- A coursework master programme designed by CEBAR
- Comprehensive understanding of key topics in agricultural biosecurity
- Equips students with cutting-edge knowledge and robust foundation in
  - » Detection and diagnostics to the challenges of agricultural pests and diseases
  - » Agricultural biotechnology
  - » Epidemiology of agricultural pests and diseases
  - » Malaysian and international environmental policy
  - » Risk assessment and management of biosecurity

# Programme Learning Outcomes (PLOs)

No.	Programme Learning Outcomes
PLO1	Demonstrate comprehensive knowledge and understanding across disciplines related to agricultural biosecurity.
PLO2	Analyze, evaluate, and integrate up-to-date information from relevant sources into the field of agricultural biosecurity.
PLO3	Identify, design, and provide innovative and effective solutions to problems related to agricultural biosecurity with limited guidance, and produce reliable data for scientific reports either individually or in groups.
PLO4	Apply knowledge in agricultural biosecurity to strengthen communication and enhance the ability to work as a team.
PLO5	Utilize diverse information, media applications, and technology to calculate, analyze, interpret, and present data.
PLO6	Demonstrate leadership qualities and interpersonal skills in planning, resource management, and problem-solving within a group in academic activities.
PLO7	Enhance commitment to lifelong learning and manage information in the field of agricultural biosecurity.
PLO8	Demonstrate understanding, awareness, and adherence to biosafety norms, ethics, professionalism, and legal requirements, as well as awareness of commercial and social issues related to agricultural biosecurity.

# Core courses

COURSE CODE	PROGRAMME CORE COURSE	CREDIT	SEMESTER
HQB7001	Research Methodology	3	1
HQB7002	Agricultural Biosecurity Research Project	12	2, 3
HQB7003	Detection and Diagnostics for Biosecurity	3	1
HQB7004	Communication, Culture, Cooperation, Community and Compliance	3	1
HQB7005	Advances in Agricultural Biotechnology	3	2
HQB7006	Epidemiology of Agricultural Pests and Diseases	3	2
HQB7007	Malaysian and International Environmental Policy	3	2
HQB7008	Risk Assessment and Management of Biosecurity	3	1
	Total	33	

# Elective courses

COURSE CODE	ELECTIVE COURSE – CHOOSE 3 COURSES	CREDIT	SEMESTER
HQB7009	Plant Biosecurity	3	1
HQB7010	Bioethics	3	1
HQB7011	Animal Biosecurity	3	2
HQB7012	Infectious and Emerging Diseases	3	2
HQB7013	Sustainable Agricultural Development	3	1
	Total	9	

# Agricultural Biosecurity Research Project

- HQB7002
- 12 credit hours
- SEM2 and special semester

# Total number of credits

TYPE OF COURSE	No. of course	CREDIT
Core courses	8	33
Elective courses	3	9
	Total	42

# Mode of study

Mode of study	Minimum duration	Maximum duration
Full time	1 year (2 normal semester and 1 special semester)	4 years (8 semester)
Full time	2 years (4 normal semester and 1 species semester)	6 years (12 semester)

# Study plan – Full time

Year	Component	Semester I			Semester II			Semester III			
		Code	Course	Credit	Code	Course	Credit	Code	Course	Credit	
1	Core courses	HQB7001	Research Methodology	3	HQB7005	Advances in Agricultural Biotechnology	3	HQB7002	Agricultural Biosecurity Research Project	8	
		HQB7003	Detection and Diagnostics for Biosecurity	3	HQB7006	Epidemiology of Agricultural Pests and Diseases	3				
		HQB7004	Communication, Culture, Cooperation, Community and Compliance	3	HQB7007	Malaysian and International Environmental Policy	3				
		HQB7008	Risk Assessment and Management of Biosecurity	3	HQB7002	Agricultural Biosecurity Research Project	4				
		<b>Total Credit</b>			12	<b>Total Credit</b>					13
	Elective courses (Choose 3 courses only)	HQB7009	Plant Biosecurity	3	HQB7011	Animal Biosecurity	3				
		HQB7010	Bioethics	3	HQB7012	Infectious and Emerging Diseases	3				
		HQB7013	Sustainable Agricultural Development	3							
	<b>Total Credit</b>			6	<b>Total Credit</b>			3	<b>Total Credit</b>		8
	<b>Total Overall Credit (42 credit)</b>			<b>18</b>	<b>16</b>			<b>8</b>			

# Study plan – Part time

Year	Component	Semester I			Semester II			Semester III			
		Code	Course	Credit	Code	Course	Credit	Code	Course	Credit	
1	Core courses	HQB7001	Research Methodology	3	HQB7005	Advances in Agricultural Biotechnology	3				
		HQB7003	Detection and Diagnostics for Biosecurity	3	HQB7006	Epidemiology of Agricultural Pests and Diseases	3				
	Elective courses (Complete 9 credit within study duration)		Elective 1	3		Elective 2	3				
		<b>Total Credit</b>			<b>9</b>	<b>Total Credit</b>			<b>9</b>		
2	Core courses	HQB7004	Communication, Culture, Cooperation, Community and Compliance	3	HQB7007	Malaysian and International Environmental Policy	3	HQB7002	Agricultural Biosecurity Research Project	8	
		HQB7008	Risk Assessment and Management of Biosecurity	3	HQB7002	Agricultural Biosecurity Research Project	4				
	Elective courses (Complete 9 credit within study duration)		Elective 3	3							
		<b>Total Credit</b>			<b>9</b>	<b>Total Credit</b>			<b>7</b>	<b>Total Credit</b>	
<b>Total Overall Credit (42 Credit)</b>				<b>18</b>				<b>16</b>			<b>8</b>

# Academic calendar 2025/2026

ACADEMIC CALENDAR 2025/2026 ACADEMIC SESSION (MASTER AND DOCTORATE LEVEL) <b>AMENDMENT</b>				
SEMESTER I				
Orientation ( <i>Week of Welcome</i> ) - WOW	1	week	05.10.2025	- 12.10.2025
Lectures	6	weeks*	13.10.2025	- 23.11.2025
Mid Semester I Break	1	week	24.11.2025	- 30.11.2025
Lectures	8	weeks*	01.12.2025	- 25.01.2026
Revision Week	1	weeks*	26.01.2026	- 01.02.2026
Semester I Final Examination	3	weeks*	02.02.2026	- 22.02.2026
Semester I Break	2	week	23.02.2026	- 08.03.2026
	<u>22</u>		weeks	
SEMESTER II				
Lectures	7	weeks*	09.03.2026	- 26.04.2026
Mid Semester II Break	1	week	27.04.2026	- 03.05.2026
Lectures	7	weeks*	04.05.2026	- 21.06.2026
Revision Week	1	week*	22.06.2026	- 28.06.2026
Semester II Final Examination	3	weeks*	29.06.2026	- 19.07.2026
Semester II Break	4	weeks	20.07.2026	- 16.08.2026
	<u>23</u>		weeks	
SPECIAL SEMESTER				
Lectures	7	weeks*	27.07.2026	- 13.09.2026
Special Semester Final Examination	1	week*	14.09.2026	- 20.09.2026
Special Semester Break	1	week	21.09.2026	28.09.2026
	<u>9</u>		weeks	

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# Programme timetable for academic session 2025/2026

Day	Time	Course code	Course	Lecturer
<b>Monday</b>				
<b>Tuesday</b>	9 am - 12 pm	HQB7009	Plant Biosecurity	Dr Teo Chee How
	2 pm - 5 pm	HQB7004	Communication, Culture, Cooperation, Community and Compliance	Dr. Zulfirdaus Zakaria
<b>Wednesday</b>	2 pm - 5 pm	HQB7003	Detection and Diagnostics for Biosecurity	Dr Fiqri Dizar Khaidizar
<b>Thursday</b>	9 am - 12 pm	HQB7010	Bioethics	Dr. Kivaandra Dayaa Rao A/L Ramarao
	2 pm - 5 pm	HQB7013	Sustainable Agricultural Development	Dr. Fiqri Dizar Khaidizar
<b>Friday</b>	9 am - 12 pm	HQB7008	Risk Assessment and Management of Biosecurity	Dr Norhafiza Mohd Arshad
	2 pm - 5 pm	HQB7001	Research Methodology	Dr Chua Kah Ooi

# Programme timetable for SEM2 academic session 2025/2026

Day	Time	Course code	Course	Lecturer
Monday	9 am - 12 pm	HQB7006	Epidemiology of Agricultural Pests and Diseases	Dr Purabi Mazumdar
Tuesday	9 am - 12 pm	HQB7005	Advances in Agricultural Biotechnology	Dr Tan Boon Chin
Wednesday	10am- 1pm	HQB7011	Animal Biosecurity	Dr Norhafiza Mohd Arshad
	2 pm - 5 pm	HQB7007	Malaysian and International Environmental Policy	Dr. Adibi Rahiman Bin Md Nor
Thursday	9 am - 12 pm	HQB7012	Infectious and Emerging Diseases	Dr Purabi Mazumdar
Friday				

# Programme timetable for Special Semester academic session 2025/2026

Day	Time	Course code	Course	Lecturer
		HQB7002	Agricultural Biosecurity Research Project	Professor Dr Jennifer Ann Harikrishna

# SCORING SYSTEM at the UNIVERSITI MALAYA

GRADE	SCORES	GRADE POINT	PURPOSE
A	80-100	4.0	Brilliant
A-	75-79	3.7	Brilliant
B +	70-74	3.3	Pass
B	65-69	3.0	Pass
B-	60-64	2.7	Failed
C +	55-59	2.3	Failed
C	50-54	2.0	Failed
C-	45-49	1.7	Failed
D +	40-44	1.5	Failed
D	35-39	1.0	Failed
F	0-34	0.0	Failed
U			Not satisfactory
R			Registered for audit
UW			Unofficial withdrawal
W			Official withdrawal
P			Progress
S			Satisfy
K			Notional
I			Unfinished

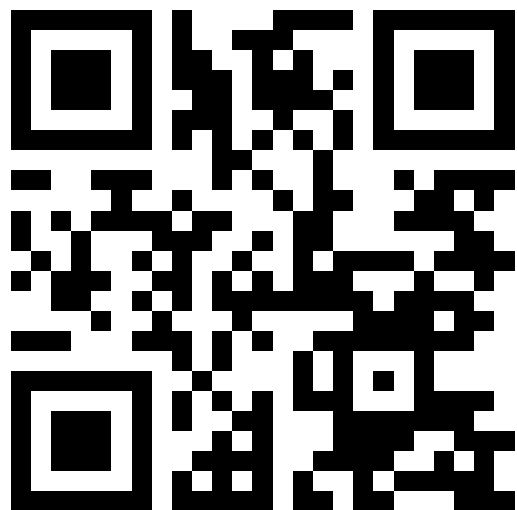
# Assessment methods

- Continuous assessment
  - » Assignment
  - » Report
  - » Oral presentation
  - » Quiz
  - » Test
- Alternative assessment
- Final exam

# Career prospects upon completion

- Biosecurity officer / biosafety officer
- Jobs in the non-governmental organization (NGOs)
- Biosecurity consultant
- Policy analyst
- Academic career in biosecurity/biosafety

Thank you!



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