

Welcome New Students!

Semester 1, 2026/2027

Master of Agricultural Biosecurity (MAB)

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



NICHE AREA



Biotechnology for Sustainable Food Production

To support global & national priorities:



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	

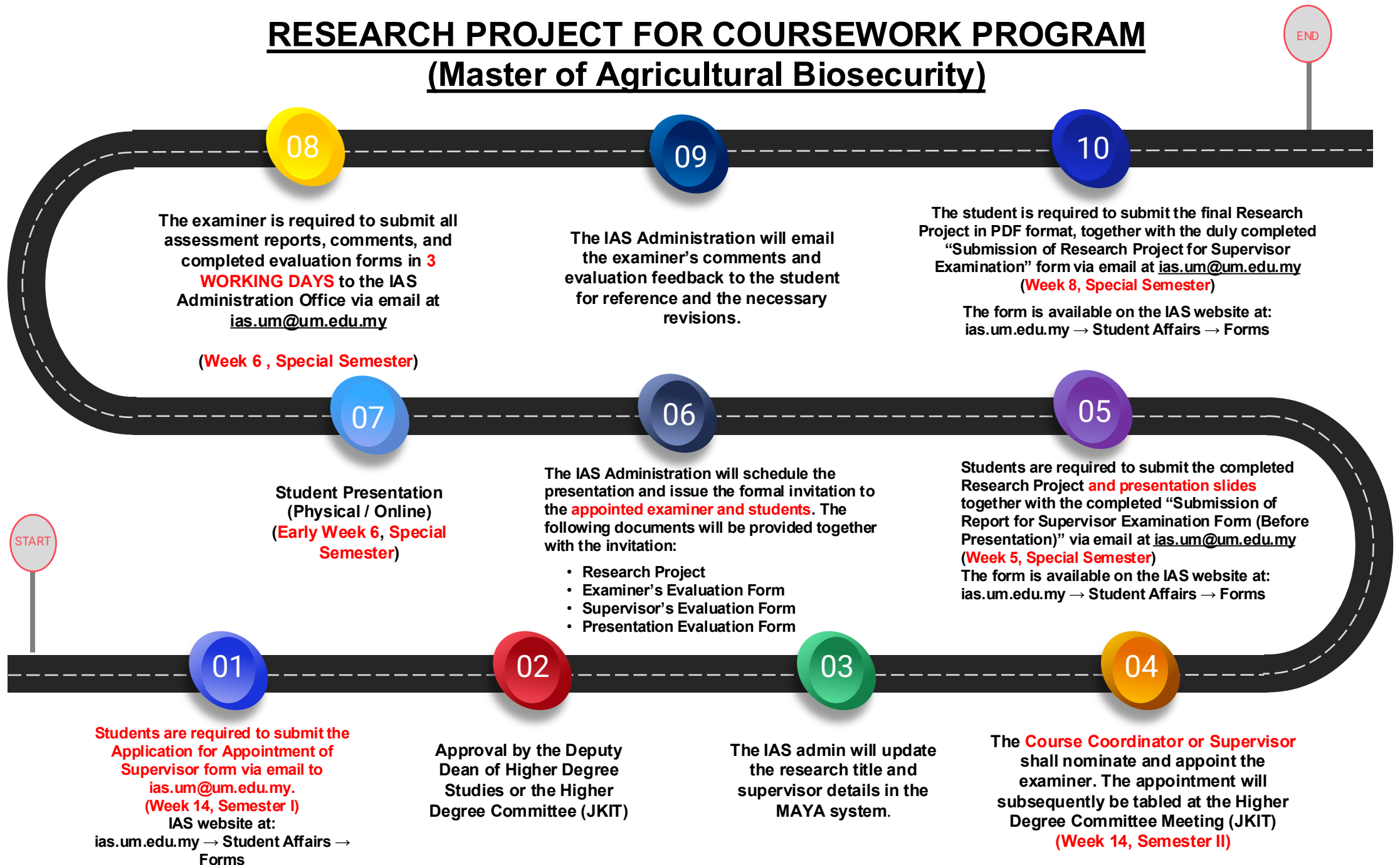
Elective courses

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

RESEARCH PROJECT FOR COURSEWORK PROGRAM (Master of Agricultural Biosecurity)



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
		Total Credit			12		Total Credit				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								
	Total Credit			6		Total Credit		3		Total Credit	8	
	Total Overall Credit (42 credit)			18	16			8				

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			
		Total Credit			9	Total Credit			9	
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						
		Total Credit			9	Total Credit			7	Total Credit 8
Total Overall Credit (42 Credit)				18				16		

Academic calendar 2026/2027

ACADEMIC CALENDAR 2026/2027 ACADEMIC SESSION (MASTER AND DOCTORATE LEVEL) AMENDMENT					
SEMESTER I					
Orientation (<i>Week of Welcome</i>) - WOW	1	week	26.09.2026	-	04.10.2026
Lectures	8	weeks*	05.10.2026	-	29.11.2026
Mid Semester I Break	1	week	30.11.2026	-	06.12.2026
Lectures	6	weeks*	07.12.2026	-	17.01.2027
Revision Week	1	week*	18.01.2027	-	24.01.2027
Semester I Final Examination	2	weeks*	25.01.2027	-	04.02.2027
Semester I Break	3	weeks*	05.02.2027	-	28.02.2027
	22	weeks			
SEMESTER II					
Lectures	7	weeks*	01.03.2027	-	18.04.2027
Mid Semester II Break	1	week	19.04.2027	-	25.04.2027
Lectures	7	weeks*	26.04.2027	-	13.06.2027
UM iFest 2027	1	week	08.06.2027	-	11.06.2027
<i>(No teaching and learning (T&L) activities shall be conducted during this period. Participation is mandatory for all final-year students / students undertaking the Final Year Project (FYP).)</i>					
Revision Week	1	week	14.06.2027	-	20.06.2027
Semester II Final Examination	2	weeks	21.06.2027	-	04.07.2027
Semester II Break	3	weeks	05.07.2027	-	25.07.2027
	21	weeks			
SPECIAL SEMESTER					
Lectures	7	weeks*	19.07.2027	-	05.09.2027
Special Semester Final Examination	1	week	06.09.2027	-	12.09.2027
Special Semester Break	1	week*	13.09.2027	-	19.09.2027
	9	weeks			

Timetable for Sem I, Session 2026/2027

NO	COURSE NAME/ COURSE CODE	CREDIT	DAY/ TIME	VENUE	LECTURER
MASTER OF AGRICULTURAL BIOSECURITY					
1	RESEARCH METHODOLOGY (HQB7001)	3	FRIDAY 2PM – 5PM	CEBAR MEETING ROOM	(1) CHUA KAH OOI (C) (2) YVONNE LIEW JING MEI
2	DETECTION AND DIAGNOSTICS FOR BIOSECURITY (HQB7003)	3	WEDNESDAY 2PM – 5PM	CEBAR MEETING ROOM	FIQRI DIZAR BIN KHAIDIZAR (C)
3	COMMUNICATION, CULTURE, COOPERATION, COMMUNITY AND COMPLIANCE (HQB7004)	3	TUESDAY 2PM – 5PM	CEBAR MEETING ROOM	(1) DR. ZULFIRDAUS ZAKARIA (C) (2) DR. MOHAMAD NURUL AZMAN BIN MOHAMMAD TAIB
4	RISK ASSESSMENT AND MANAGEMENT OF BIOSECURITY (HQB7008)	3	FRIDAY 9 AM – 12 PM	CEBAR MEETING ROOM	DR NORHAFIZA MOHD ARSHAD (C)
5	PLANT BIOSECURITY (HQB7009)	3	TUESDAY 9 AM – 12 PM	CEBAR MEETING ROOM	DR TEO CHEE HOW (C)
6	BIOETHICS (HQB7010)	3	THURSDAY 9 AM – 12 PM	CEBAR MEETING ROOM	DR KIVAANDRA DAYAA RAO A/L RAMARAO (C)
7	SUSTAINABLE AGRICULTURAL DEVELOPMENT (HQB7013)	3	THURSDAY 2PM – 5PM	CEBAR MEETING ROOM	FIQRI DIZAR BIN KHAIDIZAR (C)
8	ANIMAL BIOSECURITY (HQB7011)	3	WEDNESDAY 10 AM – 1PM	CEBAR MEETING ROOM	DR NORHAFIZA MOHD ARSHAD (C)
9	INFECTIOUS AND EMERGING DISEASES (HQB7012)	3	THURSDAY 9 AM – 12 PM	CEBAR MEETING ROOM	DR PURABI MAZMUDAR
10	MALAYSIAN AND INTERNATIONAL ENVIRONMENTAL POLICY (HQB7007)	3	TUESDAY 2PM – 5PM	CEBAR MEETING ROOM	DR. ADIBI RAHIMAN MD NOR (C)

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

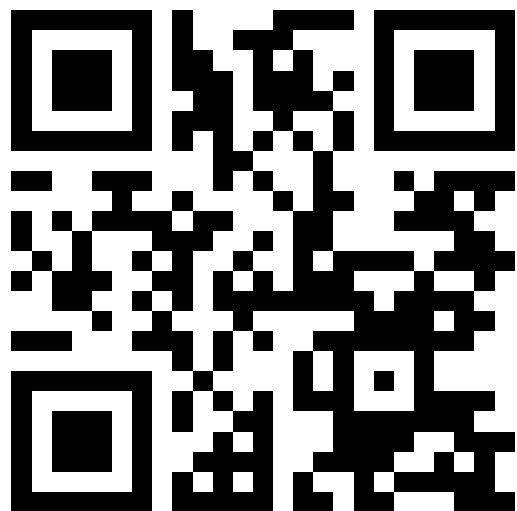
Assessment methods

- 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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Level 3, KPPI Building, UM



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