Student manual for Master of Science Program in Precision Medical Microbiology International Program (Modified in 2021)



Name	
Student ID	
∆dvisor	

Personal Details

Name	Nickr	name	
Student ID			
Personal ID			
Address			
E-mail			
Enrolled for \Box 1 st			
General Advisor			
Thesis Advisor			
1		Tel	
2		Tel	
3		Tel	
Proposed thesis propo	sal examination da	nte	
Proposed thesis exami	nation date		
Thesis book submission	n date		
University council app	roval date		
Graduation ceremony	date		
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Preface

This academic record book summarizes the guidelines that students are required and advised to follow upon entering the Graduate Program in Precision Medical Microbiology (International Program), Faculty of Medicine, Khon Kaen University. The content is based on the rules, regulations, announcements, and relevant guidelines pertaining to graduate studies management. The aim is to ensure that every student's education proceeds smoothly and that studies are completed within the time frame specified by the curriculum. Students are required to regularly record information and collect all relevant documents regarding their studies, in parallel with devoting effort and attention to their coursework and dissertation, as well as adhering to all relevant regulations and guidelines.

Additionally, this academic record book contains forms and procedures related to graduate studies at the Faculty of Medicine. The committee hopes that this record book will be useful and help reduce problems for all parties involved.

Program coordinators and committee

June 2025

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Master of Science Program in Precision Medical Microbiology International Program (Modified in 2021)

Program Learning Outcomes (PLOs)

ELO 1. Apply and Integrate Knowledge in Precision Medical Microbiology

Be able to apply and integrate basic knowledge in the fields of Precision Medical Microbiology, Immunology, diagnosis and modern molecular techniques

ELO 2. Generate Research and/or Innovation in Precision Medical Microbiology

Be able to generate the research finding with national or international recognition and/or innovation in the fields of Precision Medical Microbiology rerated to the problems from community, society, economics and environments

ELO 3. Analyze Data (Data analysis skills) in Precision Medical Microbiology

Be able to analyze high throughput data, biostatistics and bioinformatics in Precision Medical Microbiology

ELO 4. Design and Execute experiments and/or study (Experimental technique skills) in Precision Medical Microbiology

Be able to design and execute experiments and/or study using molecular techniques in Precision Medical Microbiology, and related fields

ELO 5. Demonstrate Life-long Learning and Information Literacy

Be able to demonstrate characteristics of life-long learning and information literacy for academic, research and innovation in medicine and other fields

ELO 6. Use English Language for Communication

Be able to use English language for communication and presentation in the class AND in the conference or journal in national or international level

ELO 7. Demonstrate Systematic, Critical Thinking, Criticism

Be able to demonstrate characteristics of systematic thinking, critical thinking and criticism for related research and innovation

ELO 8. Demonstrate Ethical Behavior of Precision Medical Microbiologist

Be able to demonstrate the ethical behavior in academic and regulations related to the fields of Precision Medical Microbiology

ELO 9. Demonstrate Professional Skills

Be able to demonstrate professional skills including leadership, interpersonal skills, flexibility, productivity and community engagement

Program structure

Subject groups	Plan A Type A1 ^c	Plan A Type A2 ^c
	(Credits)	(Credits)
Compulsory 1	-	6
Compulsory 2	a -	8 _p
Elective	-	6
Thesis	36	16
Total credits (minimal requirement)	36	36

^acontains 4 subjects with no need for enrollment (AU) MD627 893 Seminar in medical microbiology 2(2-0-4), MD627 101 Peer Review in Medical Microbiology Research I 1(1-0-2), MD627 102 Peer Review in Medical Microbiology Research II 1(1-0-2) and MD627 103 Peer Review in Medical Microbiology Research III 1(1-0-2)

bcontains 1 subject with no need for enrollment (AU) (AU) 1 subject: MD627 102 Peer Review in Medical Microbiology Research II 1(1-0-2)

^cStudents in all study plans will develop skills related to precision medical microbiology through hands- on experience during workshops, participation in the Seminar in Medical Microbiology and the Peer Review in Medical Microbiology Research (particularly A1 program)

Course Registration

Students can register for courses via the website http://reg.kku.ac.th. Before registering, students must consult their advisor or the program chair regarding which courses to enroll in. An example study plan is provided in this academic record form as a guideline. However, students are still required to discuss and confirm their course selection with their advisor. After registering online, students must print the registration webpage, clearly indicating the number of credits and hours for each course, and have it certified by their advisor or the program chair. The signed document must then be submitted to the departmental administrative staff before the registration deadline as announced by the Graduate School.

Eligible criteria for program coordinators/committees

	M.Sc.	Ph.D.
Program coordinators	- Ph.D. or equivalent	- Ph.D. or equivalent
Each program has three	or_M.Sc. with Associated	or_M.Sc. with Associated
coordinators. They are	Professor	Professor
responsible for administering	- have at least 3 published	- have at least 3 published
and developing the curriculum	papers in the last 5	papers in the last 5
and instruction.	years(at least one must be	years(at least one must be
	research article)	research article)
Program committees	- Ph.D. or equivalent	- Ph.D. or equivalent
Program committees are	or_M.Sc. with Associated	or_M.Sc. with Associated
instructors whose qualifications	Professor	Professor
match the field of study	- have at least 3 published	- have at least 3 published
offered by the program and	papers in the last 5	papers in the last 5
are eligible to teach courses	years(at least one must be	years(at least one must be
within the program.	research article)	research article)

Eligible criteria for advisor and co-advisor

Must be a member of program committees
Ph.D. or equivalent <u>or M.Sc.</u> with Associated Professor position
Have at least 3 published papers in the last 5 years (at least one must be research
article)

To nominate advisor and co-advisors, students are required to fill in Grad. 21 (http://gs.kku.ac.th) before the commence of the semester in which the thesis is registered.

Guide for selection of advisor and co-advisor

	Number of advisor		
Program	Advisor	Co-advisor	Total
M.Sc.	1	Unlimited (Project	At least 1
		dependent)	
Ph.D.	1	Unlimited (Project	At least 1
		dependent)	

Number of students per advisor

0 1:6 .: / :::	Number of students		
Qualification/position	Advisee	Co-advisee	
Lecturer	No more than 5	Unlimited	
Assistant Professor	No more than 10	Unlimited	
Associated Professor	No more than 10	Unlimited	
Professor	No more than 15	Unlimited	

Proposal and thesis must be written in English only

Graduation Requirements

Plan A Type A1	Plan A Type A2		
- Pass the English language assessment according to the	- Pass the English language assessment according to the		
announcement of the Graduate School.	announcement of the Graduate School.		
- Present the thesis and pass the final oral examination by	- Complete all coursework with GPA more than 3.00		
the thesis examination committee.	- Present the thesis and pass the final oral examination		
- The thesis or part of the thesis must be <u>published or at</u>	by the thesis examination committee.		
least accepted for publication in one national/international	- The thesis or part of the thesis must be published or at		
journal as the first author.	least accepted for publication in <u>one</u>		
	national/international journal as the first author to fulfill		
	the scholarship (if any) or attend proceeding at the		
	conference		

Evaluation criteria for the thesis

	A1	A2	
Evaluation	36 credits	16 credits	
	(MD 627 898)	(MD 627 899)	
1. Proposal			
Literature review	2	1	
Proposal book	3	1	
2. Experiment			
Methods, Statistic analysis,	16	8	
Analysis, Interpretation	10	3	
3. Thesis			
Thesis drat submission	1	1	
Thesis book submission	2	1	
4. Presentation			
Presentation at the national or	2	1	
international conferences			
Total	36	16	

Regulations that Doctoral Students and Dissertation Advisors Should Be Aware Of

- 1. Termination of Student Status
 - 1.1. The student has earned no more than half of the total credits required in the program and has a cumulative GPA below 2.5.
 - 1.2. The student has studied for the maximum period specified by the program but has not yet graduated:

For M.Sc. 5 semesters

- 1.3. There is no progress in dissertation work for 2 consecutive semesters, as indicated by receiving an "S" evaluation and earning 0 credits for the dissertation course for 2 consecutive semesters.
- 1.4. Fail the qualifying examination for 2 time.
- 1.5. Disciplinary penalties have been imposed.
- 2. M. Sc. students who wishes to change their level of study to a doctoral program in the same field must have enrolled for no less than 12 credits and achieved a cumulative GPA of not less than 3.5 in order to be eligible to take the qualifying examination. Upon passing the exam, the student may then proceed with the process of changing their level of study.
- 3. Students who have completed all coursework but have not yet graduated (awaiting the dissertation defense, submission of the dissertation, or publication of academic work), or who have taken a leave of absence, must pay the maintenance of student status fee.

Academic Staffs in the Department of Microbiology

Name	Qualification
Assoc. Prof. Chulapan Engchanil	MD. (Pediatrics)
Asst. Prof. Suwin Wongwajana	MD./M.Sc. (Microbiology)
Asst. Prof.Dr. Kittipan Samerpitak	Ph.D. (Medical Mycology)
Asst. Prof. Dr. Wises Namwat	Ph.D. (Engineering-Biotechnology)
Prof. Dr. Kiatichai Faksri	Ph.D. (Medical Microbiology)
Assoc. Prof. Dr. Sakawrat Kanthawong	Ph.D. (Medical Microbiology)
Asst. Prof. Dr. Umaporn Yodpratum	Ph.D. (Medical Biochemistry)
Assoc. Prof. Dr. Supranee Phanthanawiboon	Ph.D. (Medical Science)
Asst. Prof. Dr. Sirinart Aromseree	Ph.D. (Medical Microbiology)
Asst. Prof. Dr. Chonlatip Pipattanaboon	Ph.D. (Tropical Medicine)
Asst. Prof. Dr. Wisitsak Phoksawat	Ph.D. (Biomedical Science)
Asst. Prof. Dr. Arnone Nithichanon	Ph.D. (Biomedical Science)
Dr. Auttawit Sirichoat	Ph.D. (Medical Microbiology)
Dr. Suwalak Chitcharoen	Ph.D. (Bioinformatics and
	Computational Biology)
Dr. Pratsanee Hiangraj	Ph.D. (Medical Microbiology)
Dr. Chukkris Heawchaiyaphum	Ph.D. (Medical Microbiology)
Dr. Parama Budmala	M.D. (Clinical Pathology)

Lesson plan (1st Semester Year 1)

M.Sc. (Precision Medical Microbiology)

Subject code	Subject name	Credits/Hours	
		A1	A2
MD 627 703	Molecular and Cellular Biology	-	1 (1-0-2)
MD 627 704	Medical Microbiology	-	2 (2-0-4)
MD 627 705	Research Methodology and Molecular Techniques	-	1 (1-0-2)
MD 627 706	Principles of Diagnostic Microbiology	-	1 (1-0-2)
MD 627 707	Essential Immunology	-	1 (1-0-2)
MD 627 709	Practices in Medical Microbiology Laboratory	-	2 (1-3-4)
XXX XXX	Elective subjects (see page 12)	-	1 (X-X-X)
MD 627 898	Thesis*	9 (0-0-0)	-
	Total	9 Credits	9 Credits

Actual registered credit Credit for Thesis
Advisor signature
() Date / /

*student who plan to enroll for dissertation must nominate potential advisor first. To nominate advisor and co-advisors, students are required to fill in Grad.21 (http://gs.kku.ac.th) before the semester in which the student registers for the dissertation.

Documents required to submit a department administrative officer (1st Semester Year 1)

Γ			l
		Department	Received
Document	Advisor signed	administrative	Date
		officer signed	
Semester started			
Documents for enrolled subject downloaded from			
Reg website			
Form Grad.04 (only A1)			
Form Grad.21 (only A1)			
Semester closing			
GPA results			
GSMIS			
Form Grad.04 (only A1)			

Lesson plan (2nd Semester Year 1)

M.Sc. (Precision Medical Microbiology)

Subject code	Subject name	Credits/Hours	
		A1	A2
MD 627 708	Essential Skills for Biomedical Research	-	1 (0.5-1.5-2)
MD 627 710	Bioinformatics and Big Data Analysis	-	2 (1-3-4)
MD 627 893	Seminar in Medical Microbiology	Attend	Attend
		without	without
		enrollment	enrollment
MD 627 101	Peer Review in Medical Microbiology Research I	1 (1-0-2)	-
		(No credit	
		counted)	
XXX XXX	Elective (see page 12)	-	6 (X-X-X)
MD 627 898	Thesis	9 (0-0-0)	-
MD 627 899	Thesis*	-	3 (0-0-0)
	รวม	9 credits	12 credits

Actual registered credit Credit for Thesis		
Advisor signature		
() Date//		

*student who plan to enroll for dissertation must nominate potential advisor first. To nominate advisor and co-advisors, students are required to fill in Grad.21 (http://gs.kku.ac.th) before the semester in which the student registers for the dissertation.

Documents required to submit a department administrative officer (2nd Semester Year 1)

Document	Advisor signed	Department administrative officer signed	Received Date
Semester started			
Documents for enrolled subject downloaded from			
Reg website			
Form Grad.04			
Form Grad.21 (only A2)			
Semester closing			
GPA results			
GSMIS			
Form Grad.04 (only A2)			

Lesson plan (1st Semester Year 2)

M.Sc. (Precision Medical Microbiology)

Subject code	Subject name	Credits/Hours	
		A1	A2
MD 627 893	Seminar in Medical Microbiology	2 (2-0-4)	2 (2-0-4)
		(No credit	
		counted)	
MD 627 101	Peer Review in Medical Microbiology Research I	-	1 (1-0-2)
MD 627 102	Peer Review in Medical Microbiology Research II	1 (1-0-2)	-
		(No credit	
		counted)	
MD 627 898	Thesis	9 (0-0-0)	-
MD 627 899	Thesis	-	8 (0-0-0)
	Total	9 Credits	11 Credits

Credits enrolled for Thesis (previous)_____

Credits with S_______Remaining credits______

	Credits enrolled for this semester		
	Advisor signature		
	()	
	Date _	//	
Documents required to submit a department adminis	trative officer (1 st s	semester Year 2)	
		Department	Received
Document	Advisor signed	administrative	Date
		officer signed	
Semester started			
Documents for enrolled subject downloaded from			
Reg website			
Form Grad.04			
Form Grad.21			
Semester closing		_	
GPA results			
CCMIC			

Form Grad.04

Lesson plan (2nd Semester Year 2)

M.Sc. (Precision Medical Microbiology)

Subject code	Subject	Credit/Hour	
		A1	A2
MD 627 102	Peer Review in Medical Microbiology Research II	-	1 (1-0-2)
			(No credit
			counted)
MD 627 103	Peer Review in Medical Microbiology Research III	1 (1-0-2)	-
		(No credit	
		counted)	
MD 627 898	Thesis	9 (0-0-0)	-
MD 627 899	Thesis	-	5 (0-0-0)
	Total	9 Credits	5 Credits

Credits enrolle	ed for Thesis (previous)
	Credits with S
	Remaining credits
Credits en	rolled for this semester
	Advisor signature
()
	Date//
Documents required to submit a department administrative office	er (2 nd Semester Year 2)

		,	
Document	Advisor signed	Department administrative	Received Date
		officer signed	
Semester started			
Documents for enrolled subject downloaded from			
Reg website			
Form Grad.04			
Form Grad.21			
Semester closing			
GPA results			
GSMIS			
Form Grad.04			

Elective Subjects (6 Credits)

Students are eligible for enrollment in elective subjects listed below. Total credits must be at least 6 credits.

MD 627 711	Advanced Research and Innovation Management	1(1-0-2)
MD 627 713	Specialized Research Skills in Medical Microbiology	4(3-1-6)
MD 627 724	Biosafety in Medical Microbiology Laboratories	1(1-0-2)
MD 627 720	Advanced Immunology	2(2-0-4)
MD 627 721	Advanced Bacteriology	2(2-0-4)
MD 627 722	Advanced Virology	2(2-0-4)
MD 627 723	Advanced Mycology	2(2-0-4)

Guide for preparation for thesis proposal examination

Students must pass the thesis proposal examination within 1 year after commencing their dissertation. The documents required are listed below. (For more information, contact a department administrative officer)

department administrative officer)		
Prior examination (submit all de	ocuments to a department	administrative offi	icer at least 30
days before the proposed	l date)		
☐ Grad.05 Proposal Examination	on Entry Form for Thesis (Do	ownload via Grad M	ed KKU website
https://home.kku.ac.th/acame	ed/Graduate.html)		
Proposed date			
Grad.06 Request for Accredit	 tation of the Proposal Exam	ination Committee	e for the Thesis
(Download via Grad Med KKL			
No. of committees	(with CV of all of committe	es)	
1	_		
2			
3			
4.			
Academic Transcript (Print f			
Poster (Announcement for p	roposal Examination)		
Advisor	'	Admin	
()	()
Date//		Date//	
After examination (within 30 da	ys)		
☐ GS.23: Submit Form for Thesis	s Proposal (submit online forr	n via https://forms.	gs.kku.ac.th/)
☐ Turnitin Originality Report fo	orm (ask from a department a	administrative office	er) + The first
page and the last page (that :	·		
1 3	,	3	, ,
Advisor		Admin	
Advisor		7 GITIII	
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Guide for preparation for thesis defense examination

The student must take the dissertation defense within 45 days after the final "S" grade for the dissertation course has been certified by the Faculty Committee. The required documents are as follows:

To arrange the examination	n date, all of these documents must be sent to a c	department	
administrative officer at least	t 15 days before the proposed date)		
KKU.11 Contact a Graduate officer of the Faculty of Medicine (6 th floor) for a request form			
\square Academic transcript (p	rint from reg.kku.ac.th)		
☐ Grad.04 Registration ar	d Evaluation Form for Thesis/Dissertation		
☐ GS.25 : Requesting for De	efense of Thesis (submit online form via https://forms.gs.kl	ku.ac.th/)	
☐ GS.26: Appointment of	Thesis Committee (submit online form via https://forms.gs	.kku.ac.th/)	
apply by a department	administrative officer		
☐ Poster (Announcement	for Thesis Examination)		
☐ Turnitin Originality Rep	ort form (ask from a department administrative officer) +	The first	
page and the last page	(that shows %SIMILARITY INDEX) of the Turnitin Originality	Report	
Comi	nittee of thesis defense examination	_	
Program	Number of committees		
M.Sc.	At least 4 members; contain at least one from		
	external committee. The rest must be a members		
	of program committees. Chairman must not be		
	student's advisors.		
Ph.D.	At least 5 members; contain at least 2 from		
	external committee. The rest must be a members		
	of program committees. Chairman must be		
	student's external committee.		
*External committee	nust have hold Ph.D. or equivalent and have at least 10		
national/international p	·		
'	inform a department administrative officer for the invitation	on letter)	
1			
2			
3			
4			
5			
Advisor	Admin		
() ()	
Date/_			

After completion of the thesis defense examination	<u>on</u>		
(within five days) documents submitted to a departr	nent administrative officer		
☐ GS.27 : Report Form for Examination Results of The	esis (Hard copy) with the signatures of all		
Thesis committee and Turnitin Originality Report f	orm (Hard copy)		
☐ GS.27.1 Record form for the main point and editir	ng list (pass with conditions) (Hard copy)		
☐ GS.27 : Report Form for Examination Results of The	esis (submit online form via		
https://forms.gs.kku.ac.th/)			
,			
(Within 60 days after examination) The document	must be submitted to E-Thesis		
(https://app.gs.kku.ac.th/gs/th/page/e-Thesis/)			
(t.bs.), abb.25(arabit.)			
GS.28: Form for Correction of Thesis (submit onlin	ne form via https://forms.gs.kku.ac.th/)		
	ic 10111 via 11ttps://101113.53.ikkd.ac.ti//		
GS.29: Checklist for Thesis format			
GS.37: Publication of Thesis			
GS.20: Requesting Degree and Debt Checking			
Thesis book File (with approval of all committee			
☐ Turnitin Originality Report form (ask from a dep	artment administrative officer) + The first		
page and the last page (that shows %SIMILARITY	INDEX) of the Turnitin Originality Report		
Advisor	Admin		
()	()		
Date//	Date/		

^{**}Students must completed all these steps within 45 days after thesis defense examination date. Late submission will result in cancellation of the examination.

Process for GS Form No. 37 Submission (Publication of Thesis/Independent Study Form)



GS FORM NO. 37

(Publication of Thesis/Independent Study Form)

PROCESS FOR GS FORM NO. 37 SUBMISSION

- Visit https://gsmis.gs.kku.ac.th/user to fill out an online GS Form No.37 on publication.
- Select the type of publication, fill out the form and attach the required documents
- 03 Click to print out the form as PDF file
- Submit the PDF file of GS Form No.37 to Graduate School at Email: graduate@kku.ac.th, suppib@kku.ac.th, lyaowa@kku.ac.th

follow these steps.

Process for GS Form No. 37 Submission (Publication of Thesis/Independent Study Form)

- 1. Visit https://gsmis.gs.kku.ac.th/user to fill out an online GS Form No.37 on publication
- 2. Select the type of publication, fill out the form, and attach the required documents
- 3. Click to print out the form as a PDF file
- 4. Submit the PDF file of GS Form No.37 to Graduate School at Email: graduate@kku.ac.th, suppib@kku.ac.th

In case your Program Type is Plan B please submit to email: lyaowa@kku.ac.th

Please provide the details including full name, and student ID, and attach the completed GS form

No.37 file with the email.

For more information, contact us at:

Facebook: https://fb.com/graduateschoolkku