Course syllabus

TMCD 698 Thesis

Academic Year 2018-2022

- 1. Institute Mahidol University
 - Faculty/Department Faculty of Tropical Medicine, Department of Clinical Tropical Medicine
- 2. Course Name:
 - a. Course Code: TMCD 698
 - b. Course Title: Thesis
- **3.** Number of credits: 12 (0-36-0)
- 4. Programme use: Master of Clinical Tropical Medicine
- 5. Prerequisite: None
- 6. Type of Course: Core subject
- 7. Condition: class size: maximum 25
- 8. Session/Academics year: The second semester of 1st year
- 9. Course description:

Research proposal design for problem solving and quality development; research process, research operation; thesis presentation; research ethics; compilation and dissemination of research result; ethics in research dissemination

10. Course expected learning outcomes:

The students should be able to

- 1) Analyse the problem, ask a proper research question and design the research to address the question
- 2) Write the proposal, conduct research, data collection, analyse data and discussion the result of research work
- 3) Exert the ethical consideration in research work
- 4) Compose and disseminate the result of research work i.e. by presentation and publication in international peer review articles

11.	Course	outline	and	constructive	alignment	

			Hours		Course	Course	Programme		
	Title	Lecture	Prac tice	Self-study	Instructor	Learning Outcome	ELOs	Learning Activities	Assessment
1	Selection of research topic and thesis advisor	0	30	0	Programme Director	1	-	Discussion	Research topic
2	Preparation of research proposal	0	80	0	Advisory Committee	1,2,3	1,2,3	Assignment, Discussion	Observation, Q&A
3	Defence of proposal	0	40	0	Defence of Proposal Committee	1,2,3	1,2,3,6	Presentation, Discussion, Q&A	Presentation/Discussion: Using Rubric assessment score
4	Ethical approval	0	40	0	Advisory Committee Ethical Committee	1,2,3	1	Ethical Submission	Ethical Approval
5	Data collection	0	160	0	Advisory Committee	1,2,3	4,5,6	Clinical record form, Discussion, Q&A	Accuracy of CRF, Progression of work Study site visit assessment, formative assessment using rubric scale
6	Data analysis	0	60	0	Advisory Committee	1,2,3	6	Analyse Discussion, Q&A	Result of part of Thesis, formative assessment using rubric scale
7	Thesis preparation	0	60	0	Advisory Committee	1,2,3,4	2,3,4,6	Presentation Discussion, Q&A	Progression of Thesis, formative assessment using rubric scale
8	Defence of thesis	0	40	0	Defence of Thesis Committee	1,2,3,4	1,2,3,4,5,6	Presentation Discussion, Q&A	Presentation/Discussion: Using Rubric assessment score, Thesis
9	Dissemination of research work	0	30	0	Advisory Committee	1,2,3,4	1,2,3,4,5,6,7	Presentation Publication	Acceptance for publication
	Total	0	540	0					
	Total	0	540	0					

12. Teaching and Learning Activities

Discussion

Assignment and follow up the progression

Regular meeting and discussion Thesis

13. Teaching media

Research through internet database Microsoft Office and Citation Software Computer

14. Course achievement and evaluation

Defence of Proposal Ethical Approval of the research proposal: before data collection Defence of Thesis

15. Course evaluation

Discussion and comments session at the end of the course Questionnaire for contentment and suggestion for the course

16. References

17. Instructors:

Staffs of Department of Clinical Tropical Medicine, Faculty of Tropical Medicine, Mahidol University

Advisory Committee

External Examiners

18. Course responsibility:

Programme Director

Department of Clinical Tropical Medicine, Faculty of Tropical Medicine, Mahidol University

		TMCD 698: Thesis	
	Evalua	tion Form (Defense of Proposal)	
Lecturer			
Role	Committee Chair	Committee Member	
Date	_/_/_		
Presenter:		(Total score)	

1. Literature review (30 marks)

□ 3 marks	D 5 marks	🛛 8 marks	🗖 10 marks
<25% of studies are	25-50% of studies are	51-75% of studies are	>75% of studies are
updated	updated	updated	updated
□ 3 marks	5 marks	🛛 8 marks	10 marks
Review <25% of studies	Review 25-50% of studies	Review 51-75% of studies	Review >75% of studies
relevant to research	relevant to research	relevant to research	relevant to research
question	question	question	question
□ 3 marks	5 marks	□ 8 marks	10 marks
Show the gap (<25%) of	Show the gap (25-50%) of	Show the gap (51-75%) of	Definitely show the gap
previous studies that will	previous studies that will	previous studies that will	(>75%) of previous
be the origin of the	be the origin of the	be the origin of the be the origin of the	
present study research	present study research	present study research	origin of the present
question	question	question	study research question

2. Objectives (15 marks)

□ 3 marks	🗖 7 marks	🗖 11 marks	🗖 15 marks
Objectives of the study			
are clearly defined and			
reasonable (<25%)	reasonable (25-50%)	reasonable (51-75%)	reasonable (>75%)

3. Research methodology (45 marks)

□ 3 marks	5 marks	🛛 8 marks	🗖 10 marks
Research methodology is	Research methodology is	Research methodology is	Research methodology is
designed appropriately to	designed appropriately to	designed appropriately to	designed appropriately to
the objective of the study			
<25%	25-50%	51-75%	>75%
3 marks	□ 5 marks	🗖 8 marks	10 marks
Research methodology	Research methodology	Research methodology	Research methodology
is practical and well-			
planned <25%	planned 25-50%	planned 51-75%	planned >75%

□ 3 marks	5 marks	a 8 marks	🗖 10 marks
Research methodology is	Research methodology is	Research methodology is	Research methodology is
under ethical	under ethical	under ethical	under ethical
consideration <25%	consideration 25-50%	consideration 51-75%	consideration >75%
🗖 0 mark	🗖 5 marks		
Sample size calculation is	Sample size calculation is		
incorrect	correct		
□ 3 marks	🗖 5 marks	🛛 8 marks	🗖 10 marks
Case record form is	Case record form is easily	Case record form is easily	Case record form is easily
easily to fill in and cover	to fill in and cover all	to fill in and cover all	to fill in and cover all
all data needed <25%	data needed 25-50%	data needed 51-75%	data needed >75%

4. Presentation (10 marks)

4.1 Quality of slide presentation materials

□ 1 marks	2 marks	□ 3 marks	4 marks
Difficult to read	Difficult to read 51-75%	Difficult to read 25-50%	Easy to read
Misspelling >75% of slides	Misspelling 51-75%	Misspelling 25-50%	No misspelling

4.2 Presentation skills (speaking style, distracted actions, eye contact)

1 marks	2 marks	3 marks	🗖 4 marks
Speak hardly heard and unclear	Speak unclear 51-75%	Speak unclear 25-50%	Speak loud and clear
Distracted action >45%	Distracted action 51-75%	Distracted action 25-50%	No distracted action
No eye contact	Eye contact 25-50%	Eye contact 51-75%	Eye contact with audiences

4.3 Timing

1 marks	2 marks
> 30 minutes	<u><</u> 30 minutes

Overall

- Pass without condition
- Pass with condition
- □ Not Pass

TMCD 698: Thesis Evaluation Form (Research work)

(Preparation of research proposal 30%	, Data collection 20%, Analyse data 30%, Te	amwork 20%)
---------------------------------------	---	-------------

Role	Advisor	Co-advisor		·	
Date	_/_/_				
Student Name:			((Total score)

1. Preparation of research proposal (30 marks)

5 marks	10 marks	15 marks	20 marks
<25% of content in	25-50% of content in	51-75% of content in	>75% of content in
proposal is clear and	proposal is clear and	proposal is clear and	proposal is clear and
well-designed	well-designed	well-designed	well-designed
2 marks	D 5 marks	🛛 8 marks	10 marks
Case record form is	Case record form is easily	Case record form is easily	Case record form is easily
easily to fill in and cover	to fill in and cover all	to fill in and cover all	to fill in and cover all
all data needed <25%	data needed 25-50%	data needed 51-75%	data needed >75%

2. Data collection (20 marks)

2 marks	5 marks	8 marks	🗖 10 marks
Well-planned and	Well-planned and	Well-planned and	Well-planned and
systematically collecting	systematically collecting	systematically collecting	systematically collecting
data <25%	data 25-50%	data 51-75%	data >75%
2 marks	D 5 marks	🛛 8 marks	10 marks
Collect data correctly	Collect data correctly and	Collect data correctly and	Collect data correctly and
and appropriately <25%	appropriately 25-50%	appropriately 51-75%	appropriately >75%

3. Analyse data (30 marks)

2 marks	5 marks	a 8 marks	🗖 10 marks
Use appropriate statistics	Use appropriate statistics	Use appropriate statistics	Use appropriate statistics
to analyze data <25%	to analyze data 25-50%	to analyze data 51-75%	to analyze data >75%
2 marks	5 marks	a 8 marks	🗖 10 marks
Good at using statistic			
programs and interpret	programs and interpret	programs and interpret	programs >75%
results correctly <25%	results correctly 25-50%	results correctly 51-75%	
2 marks	□ 5 marks	🛛 8 marks	10 marks
Interpret results correctly	Interpret results correctly	Interpret results correctly	Interpret results correctly
<25%	25-50%	51-75%	>75%

4. Teamwork (20 marks)

0 marks	🗖 2 marks	□ 3 marks	5 marks
Cannot be leadership in	Cannot be leadership in	Good leadership in team	Good leadership in team
team and good planning	team and good planning	and good planning for	and good planning for
for work assignment	for work assignment 25-	work assignment 51-75%	work assignment >75%
<25%	50%		
0 marks	🗖 2 marks	□ 3 marks	5 marks
Good communication	Good communication	Good communication	Good communication
with team members	with team members 25-	with team members 51-	with team members
<25%	50%	75%	>75%
0 marks	🗖 2 marks	□ 3 marks	5 marks
Give respect to all team			
members and open to			
receiving feedbacks and	receiving feedbacks and	receiving feedbacks and	receiving feedbacks and
improving them <25%	improving them 25-50%	improving them 51-75%	improving them >75%
🗖 0 marks	🗖 2 marks	□ 3 marks	\Box 5 marks
Good responsibility to	Good responsibility to	Good responsibility to	Good responsibility to
works assigned <25%	works assigned 25-50%	works assigned 51-75%	works assigned >75%
WORKS assigned <20%	WOIKS assigned 23-3070	WORKS assigned 51 1570	WOIKS assigned 21370

(Knowledge 20, Clear and flow 20, Full information 20, English 20, Reference formats 10, Computer skills 10)

Evaluator			
Role	Chair/External Examiner	Advisor	Co-advisor
Date	_/_/_		
Student Name:			(Total score)

Writing research proposal (100 marks)

5 marks	10 marks	□ 15 marks	20 marks
Good knowledge in	Good knowledge in	Good knowledge in	Good knowledge in
tropical diseases relevant	tropical diseases relevant	tropical diseases relevant	tropical diseases relevant
to the study <25%	to the study 25-50%	to the study 51-75%	to the study >75%
5 marks	🗖 10 marks	15 marks	20 marks
<25% of content in Thesis	25-50% of content in	51-75% of content in	>75% of content in Thesis
is clear and well-outlined	Thesis is clear and well-	Thesis is clear and well-	is clear and well-outlined
	outlined	outlined	
5 marks	10 marks	15 marks	20 marks
<25% of content in Thesis	25-50% of content in	51-75% of content in	>75% of content in Thesis
is well-informative, well-	Thesis is well-informative,	Thesis is well-informative,	is well-informative, well-
described	well-described	well-described	described
5 marks	10 marks	15 marks	20 marks
Good at English writing	Good at English writing	Good at English writing	Good at English writing
<25%	25-50%	51-75%	>75%
□ 3 marks	□5 marks	a 8 marks	🗖 10 marks
Reference format is	Reference format is	Reference format is	Reference format is
correct <25%	correct 25-50%	correct 51-75%	correct >75%
□ 3 marks	\Box 5 marks	8 marks	10 marks
Good at computer	Good at computer	Good at computer	Good at computer
programs used for making	programs used for making	programs used for making	programs used for making
Thesis <25%	Thesis 25-50%	Thesis 51-75%	Thesis >75%

	TMCD 698: Thesis					
	Evaluation Form (Defense of Thesis)					
Lecturer						
Role	Chair/External Examiner	Advisor	Co-advisor			
Date	_/_/_					
Presenter:			(Total score)			

1. Literature review (20 marks)

2 marks	3 marks	4 marks	5 marks
<25% of studies are	25-50% of studies are	51-75% of studies are	>75% of studies are
updated	updated	updated	updated
□ 3 marks	🗖 5 marks	🛛 8 marks	10 marks
Review <25% of studies	Review 25-50% of studies	Review 51-75% of studies	Review >75% of studies
relevant to research	relevant to research	relevant to research	relevant to research
question	question	question	question
2 marks	□ 3 marks	4 marks	□ 5 marks
Show the gap (<25%) of	Show the gap (25-50%) of	Show the gap (51-75%) of	Definitely show the gap
previous studies that will	previous studies that will	previous studies that will	(>75%) of previous
be the origin of the	be the origin of the	be the origin of the	studies that will be the
		5	
present study research	present study research	present study research	origin of the present

2. Objectives and Research methodology (30 marks)

□ 3 marks	5 marks		
Some objectives of the study	All objectives of the study are		
are clearly defined and	clearly defined and		
reasonable	reasonable		
□ 3 marks	D 5 marks	🛛 8 marks	🗖 10 marks
Appraise the appropriateness	Appraise the appropriateness	Research methodology is	Research methodology is
of the statistic used correctly	of the statistic used correctly	designed appropriately to the	designed appropriately to the
<25%	25-50%	objective of the study 51-75%	objective of the study >75%
□ 3 marks	□ 5 marks	🛛 8 marks	🗖 10 marks
Research methodology is	Research methodology is	Research methodology is	Research methodology is
practical, well-planned and	practical, well-planned and	practical, well-planned and	practical, well-planned and
ethical consideration <25%	ethical consideration 25-50%	ethical consideration 51-75%	ethical consideration >75%
🗖 0 mark	□ 5 marks		
Sample size calculation is	Sample size calculation is		
incorrect	correct		

3. Result (20 marks)

2 marks	5 marks	□ 8 marks	10 marks
<25% of data are analyzed	25-50% of data are analyzed	51-75% of data are analyzed	>75% of data are analyzed
correctly with appropriate	correctly with appropriate	correctly with appropriate	correctly with appropriate
statistics	statistics	statistics	statistics

2 marks	5 marks	□ 8 marks	10 marks
<25% of analyzed data are	25-50% of analyzed data are	51-75% of analyzed data are	>75% of analyzed data are
interpreted correctly	interpreted correctly	interpreted correctly	interpreted correctly

4. Discussion and conclusion (20 marks)

2 marks	🗖 4 marks	🗖 6 marks	🗖 8 marks		
Discuss the results of the	Discuss the results of the	Discuss the results of the	Discuss the results of the		
study compared with previous study compared with previous study compared with previous study compared with previous					
studies correctly <25%	studies correctly 25-50%	studies correctly 51-75%	studies correctly >75%		
2 marks	4 marks	🗖 6 marks	🗖 8 marks		
Discuss the limitations and	Discuss the limitations and	Discuss the limitations and	Discuss the limitations and		
the implication of the study	the implication of the study	the implication of the study	the implication of the study		
correctly <25%	correctly 25-50%	correctly 51-75%	correctly >75%		
□ 1 marks	2 marks	□ 3 marks	4 marks		
Conclude the important result Conclude the important result Conclude the important result Conclude the important result					
of study correctly <25%	of study correctly 25-50%	of study correctly 51-75%	of study correctly >75%		

5. Presentation (10 marks)

5.1 Quality of slide presentation materials

□ 1 marks	2 marks	□ 3 marks	4 marks
Difficult to read	Difficult to read 51-75%	Difficult to read 25-50%	Easy to read
Missed spelling >75% of slides	Missed spelling 51-75%	Missed spelling 25-50%	No missed spelling

5.2 Presentation skills (speaking style, distracted actions, eye contact)

🗖 1 marks	2 marks	3 marks	4 marks
Speak hardly heard and unclear	Speak unclear 51-75%	Speak unclear 25-50%	Speak loud and clear
Distracted action >45%	Distracted action 51-75%	Distracted action 25-50%	No distracted action
No eye contact	Eye contact 25-50%	Eye contact 51-75%	Eye contact with audiences

5.3 Timing

□ 1 marks	2 marks
> 30 minutes	≤ 30 minutes

Overall

Final Decision

- Pass without condition
- \square Pass with condition
- □ Not Pass