

Course syllabus

TMCD 697 Thematic Paper

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 697
 - b. **Course Title:** Thematic Paper
3. **Number of credits:** 6 (0-18-0)
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 process; proposal design, research methodology, sample size calculation, statistical analysis plan; ethical consideration; research protocol, case record form; data collection; statistical analysis, data analysis, data interpretation, data presentation, compilation and dissemination of research result
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

11. Course outline and constructive alignment

Day	Title	Hours			Instructor	Course Learning Outcome	Programme ELOs	Learning Activities	Assessment
		Lecture	Practice	Self-study					
1	Selection of research topic and thematic paper advisor	0	7.5	0	Programme Director	1	-	Discussion	Research topic
2	Preparation of research proposal	0	50	0	Advisory Committee	1,2,3	1,2,3	Assignment, Discussion	Observation, Q&A
3	Comprehensive examination	0	7.5	0	Comprehensive Examination Committee	1,2,3	1,2,3	Presentation, Discussion, Q&A	Presentation/Discussion: Using Rubric assessment score
4	Defence of proposal	0	20	0	Defence of Proposal Committee	1,2,3	1,2,3,6	Presentation, Discussion, Q&A	Presentation/Discussion: Using Rubric assessment score
5	Ethical approval	0	20	0	Advisory Committee Ethical Committee	1,2,3	1	Ethical Submission	Ethical Approval
6	Data collection	0	80	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
7	Data analysis	0	32.5	0	Advisory Committee	1,2,3	6	Analyse Discussion, Q&A	Result of part of Thematic Paper, formative assessment using rubric scale
8	Thematic paper preparation	0	32.5	0	Advisory Committee	1,2,3,4	2,3,4,6	Presentation Discussion, Q&A	Progression of Thematic Paper, formative assessment using rubric scale
9	Defence of thematic paper	0	20	0	Defence of Thematic Paper Committee	1,2,3,4	1,2,3,4,5,6	Presentation Discussion, Q&A	Presentation/Discussion: Using Rubric assessment score, Thematic Paper
	Total	0	270	0					

12. Teaching and Learning Activities

Discussion
Assignment and follow up the progression
Regular meeting and discussion
Thematic Paper

13. Teaching media

Research through internet database
Microsoft Office and Citation Software
Computer

14. Course achievement and evaluation

Comprehensive Examination: before defence of proposal
Defence of Proposal
Ethical Approval of the research proposal: before data collection
Defence of Thematic Paper

15. Course evaluation

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

16. References

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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 697: Thematic Paper
Evaluation Form (Defense of Proposal)**

Lecturer _____

Role Committee Chair Committee Member

Date ___/___/___

Presenter: _____ (Total score _____)

1. Literature review (30 marks)

<input type="checkbox"/> 3 marks <25% of studies are updated	<input type="checkbox"/> 5 marks 25-50% of studies are updated	<input type="checkbox"/> 8 marks 51-75% of studies are updated	<input type="checkbox"/> 10 marks >75% of studies are updated
<input type="checkbox"/> 3 marks Review <25% of studies relevant to research question	<input type="checkbox"/> 5 marks Review 25-50% of studies relevant to research question	<input type="checkbox"/> 8 marks Review 51-75% of studies relevant to research question	<input type="checkbox"/> 10 marks Review >75% of studies relevant to research question
<input type="checkbox"/> 3 marks Show the gap (<25%) of previous studies that will be the origin of the present study research question	<input type="checkbox"/> 5 marks Show the gap (25-50%) of previous studies that will be the origin of the present study research question	<input type="checkbox"/> 8 marks Show the gap (51-75%) of previous studies that will be the origin of the present study research question	<input type="checkbox"/> 10 marks Definitely show the gap (>75%) of previous studies that will be the origin of the present study research question

2. Objectives (15 marks)

<input type="checkbox"/> 3 marks Objectives of the study are clearly defined and reasonable (<25%)	<input type="checkbox"/> 7 marks Objectives of the study are clearly defined and reasonable (25-50%)	<input type="checkbox"/> 11 marks Objectives of the study are clearly defined and reasonable (51-75%)	<input type="checkbox"/> 15 marks Objectives of the study are clearly defined and reasonable (>75%)
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3. Research methodology (45 marks)

<input type="checkbox"/> 3 marks Research methodology is designed appropriately to the objective of the study <25%	<input type="checkbox"/> 5 marks Research methodology is designed appropriately to the objective of the study 25-50%	<input type="checkbox"/> 8 marks Research methodology is designed appropriately to the objective of the study 51-75%	<input type="checkbox"/> 10 marks Research methodology is designed appropriately to the objective of the study >75%
<input type="checkbox"/> 3 marks Research methodology is practical and well-planned <25%	<input type="checkbox"/> 5 marks Research methodology is practical and well-planned 25-50%	<input type="checkbox"/> 8 marks Research methodology is practical and well-planned 51-75%	<input type="checkbox"/> 10 marks Research methodology is practical and well-planned >75%

<input type="checkbox"/> 3 marks Research methodology is under ethical consideration <25%	<input type="checkbox"/> 5 marks Research methodology is under ethical consideration 25-50%	<input type="checkbox"/> 8 marks Research methodology is under ethical consideration 51-75%	<input type="checkbox"/> 10 marks Research methodology is under ethical consideration >75%
<input type="checkbox"/> 0 mark Sample size calculation is incorrect	<input type="checkbox"/> 5 marks Sample size calculation is correct		
<input type="checkbox"/> 3 marks Case record form is easily to fill in and cover all data needed <25%	<input type="checkbox"/> 5 marks Case record form is easily to fill in and cover all data needed 25-50%	<input type="checkbox"/> 8 marks Case record form is easily to fill in and cover all data needed 51-75%	<input type="checkbox"/> 10 marks Case record form is easily to fill in and cover all data needed >75%

4. Presentation (10 marks)

4.1 Quality of slide presentation materials

<input type="checkbox"/> 1 marks Difficult to read Misspelling >75% of slides	<input type="checkbox"/> 2 marks Difficult to read 51-75% Misspelling 51-75%	<input type="checkbox"/> 3 marks Difficult to read 25-50% Misspelling 25-50%	<input type="checkbox"/> 4 marks Easy to read No misspelling
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4.2 Presentation skills (speaking style, distracted actions, eye contact)

<input type="checkbox"/> 1 marks Speak hardly heard and unclear Distracted action >45% No eye contact	<input type="checkbox"/> 2 marks Speak unclear 51-75% Distracted action 51-75% Eye contact 25-50%	<input type="checkbox"/> 3 marks Speak unclear 25-50% Distracted action 25-50% Eye contact 51-75%	<input type="checkbox"/> 4 marks Speak loud and clear No distracted action Eye contact with audiences
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4.3 Timing

<input type="checkbox"/> 1 marks > 30 minutes	<input type="checkbox"/> 2 marks ≤ 30 minutes
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Final Decision

- Overall
- Pass without condition
 - Pass with condition
 - Not Pass

**TMCD 697: Thematic Paper
Evaluation Form (Comprehensive Examination)**

Lecturer _____

Role Committee Chair Committee Member

Date ___/___/___

Presenter: _____ (Total score _____)

Comprehensive exam (100 marks)

1. Knowledge in tropical diseases related to the study (40 marks)

<input type="checkbox"/> 5 marks Poor knowledge in tropical diseases relevant to the study (answer correctly <25%)	<input type="checkbox"/> 10 marks Fair knowledge in tropical diseases relevant to the study (answer correctly 25-50%)	<input type="checkbox"/> 15 marks Quite good knowledge in tropical diseases relevant to the study (answer correctly 51-75%)	<input type="checkbox"/> 20 marks Good knowledge in tropical diseases relevant to the study (answer correctly >75%)
<input type="checkbox"/> 5 marks Can summarize and interpret results of previous studies relevant to the present study (answer correctly <25%)	<input type="checkbox"/> 10 marks Can summarize and interpret results of previous studies relevant to the present study (answer correctly 25-50%)	<input type="checkbox"/> 15 marks Can summarize and interpret results of previous studies relevant to the present study (answer correctly 51-75%)	<input type="checkbox"/> 20 marks Can summarize and interpret results of previous studies relevant to the present study (answer correctly >75%)

2. Knowledge in the research methodology and statistics (40 marks)

<input type="checkbox"/> 5 marks Poor knowledge in research methodology and statistics (answer correctly <25%)	<input type="checkbox"/> 10 marks Fair knowledge in research methodology and statistics (answer correctly 25-50%)	<input type="checkbox"/> 15 marks Quite good knowledge in research methodology and statistics (answer correctly 51-75%)	<input type="checkbox"/> 20 marks Good knowledge in research methodology and statistics (answer correctly >75%)
<input type="checkbox"/> 5 marks Can discuss the good points and the limitations of research methodology of previous studies relevant to the present study (answer correctly <25%)	<input type="checkbox"/> 10 marks Can discuss the good points and the limitations of research methodology of previous studies relevant to the present study (answer correctly 25-50%)	<input type="checkbox"/> 15 marks Can discuss the good points and the limitations of research methodology of previous studies relevant to the present study (answer correctly 51-75%)	<input type="checkbox"/> 20 marks Can discuss the good points and the limitations of research methodology of previous studies relevant to the present study (answer correctly >75%)

3. English language comprehension (20 marks)

<input type="checkbox"/> 5 marks Can express all of knowledge by using English language correctly <25%	<input type="checkbox"/> 10 marks Can express all of knowledge by using English language correctly 25-50%	<input type="checkbox"/> 15 marks Can express all of knowledge by using English language correctly 51-75%	<input type="checkbox"/> 20 marks Can express all of knowledge by using English language correctly >75%
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**TMCD 697: Thematic Paper
Evaluation Form (Research work)**

(Preparation of research proposal 30%, Data collection 20%, Analyse data 30%, Teamwork 20%)

Role Advisor Co-advisor

Date __/__/__

Student Name: _____ (Total score _____)

1. Preparation of research proposal (30 marks)

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

2. Data collection (20 marks)

<input type="checkbox"/> 2 marks Well-planned and systematically collecting data <25%	<input type="checkbox"/> 5 marks Well-planned and systematically collecting data 25-50%	<input type="checkbox"/> 8 marks Well-planned and systematically collecting data 51-75%	<input type="checkbox"/> 10 marks Well-planned and systematically collecting data >75%
<input type="checkbox"/> 2 marks Collect data correctly and appropriately <25%	<input type="checkbox"/> 5 marks Collect data correctly and appropriately 25-50%	<input type="checkbox"/> 8 marks Collect data correctly and appropriately 51-75%	<input type="checkbox"/> 10 marks Collect data correctly and appropriately >75%

3. Analyse data (30 marks)

<input type="checkbox"/> 2 marks Use appropriate statistics to analyze data <25%	<input type="checkbox"/> 5 marks Use appropriate statistics to analyze data 25-50%	<input type="checkbox"/> 8 marks Use appropriate statistics to analyze data 51-75%	<input type="checkbox"/> 10 marks Use appropriate statistics to analyze data >75%
<input type="checkbox"/> 2 marks Good at using statistic programs and interpret results correctly <25%	<input type="checkbox"/> 5 marks Good at using statistic programs and interpret results correctly 25-50%	<input type="checkbox"/> 8 marks Good at using statistic programs and interpret results correctly 51-75%	<input type="checkbox"/> 10 marks Good at using statistic programs >75%
<input type="checkbox"/> 2 marks Interpret results correctly <25%	<input type="checkbox"/> 5 marks Interpret results correctly 25-50%	<input type="checkbox"/> 8 marks Interpret results correctly 51-75%	<input type="checkbox"/> 10 marks Interpret results correctly >75%

4. Teamwork (20 marks)

<input type="checkbox"/> 0 marks Cannot be leadership in team and good planning for work assignment <25%	<input type="checkbox"/> 2 marks Cannot be leadership in team and good planning for work assignment 25-50%	<input type="checkbox"/> 3 marks Good leadership in team and good planning for work assignment 51-75%	<input type="checkbox"/> 5 marks Good leadership in team and good planning for work assignment >75%
<input type="checkbox"/> 0 marks Good communication with team members <25%	<input type="checkbox"/> 2 marks Good communication with team members 25-50%	<input type="checkbox"/> 3 marks Good communication with team members 51-75%	<input type="checkbox"/> 5 marks Good communication with team members >75%
<input type="checkbox"/> 0 marks Give respect to all team members and open to receiving feedbacks and improving them <25%	<input type="checkbox"/> 2 marks Give respect to all team members and open to receiving feedbacks and improving them 25-50%	<input type="checkbox"/> 3 marks Give respect to all team members and open to receiving feedbacks and improving them 51-75%	<input type="checkbox"/> 5 marks Give respect to all team members and open to receiving feedbacks and improving them >75%
<input type="checkbox"/> 0 marks Good responsibility to works assigned <25%	<input type="checkbox"/> 2 marks Good responsibility to works assigned 25-50%	<input type="checkbox"/> 3 marks Good responsibility to works assigned 51-75%	<input type="checkbox"/> 5 marks Good responsibility to works assigned >75%

**TMCD 697: Thematic Paper
Evaluation Form (Writing thematic paper)**

(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)

<input type="checkbox"/> 5 marks Good knowledge in tropical diseases relevant to the study <25%	<input type="checkbox"/> 10 marks Good knowledge in tropical diseases relevant to the study 25-50%	<input type="checkbox"/> 15 marks Good knowledge in tropical diseases relevant to the study 51-75%	<input type="checkbox"/> 20 marks Good knowledge in tropical diseases relevant to the study >75%
<input type="checkbox"/> 5 marks <25% of content in thematic paper is clear and well-outlined	<input type="checkbox"/> 10 marks 25-50% of content in thematic paper is clear and well-outlined	<input type="checkbox"/> 15 marks 51-75% of content in thematic paper is clear and well-outlined	<input type="checkbox"/> 20 marks >75% of content in thematic paper is clear and well-outlined
<input type="checkbox"/> 5 marks <25% of content in thematic paper is well-informative, well-described	<input type="checkbox"/> 10 marks 25-50% of content in thematic paper is well-informative, well-described	<input type="checkbox"/> 15 marks 51-75% of content in thematic paper is well-informative, well-described	<input type="checkbox"/> 20 marks >75% of content in thematic paper is well-informative, well-described
<input type="checkbox"/> 5 marks Good at English writing <25%	<input type="checkbox"/> 10 marks Good at English writing 25-50%	<input type="checkbox"/> 15 marks Good at English writing 51-75%	<input type="checkbox"/> 20 marks Good at English writing >75%
<input type="checkbox"/> 3 marks Reference format is correct <25%	<input type="checkbox"/> 5 marks Reference format is correct 25-50%	<input type="checkbox"/> 8 marks Reference format is correct 51-75%	<input type="checkbox"/> 10 marks Reference format is correct >75%
<input type="checkbox"/> 3 marks Good at computer programs used for making thematic paper <25%	<input type="checkbox"/> 5 marks Good at computer programs used for making thematic paper 25-50%	<input type="checkbox"/> 8 marks Good at computer programs used for making thematic paper 51-75%	<input type="checkbox"/> 10 marks Good at computer programs used for making thematic paper >75%

**TMCD 697: Thematic Paper
Evaluation Form (Defense of Thematic Paper)**

Lecturer _____

Role Chair/External Examiner Advisor Co-advisor

Date ___/___/___

Presenter: _____ (Total score _____)

1. Literature review (20 marks)

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

2. Objectives and Research methodology (30 marks)

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

3. Result (20 marks)

<input type="checkbox"/> 2 marks <25% of data are analyzed correctly with appropriate statistics	<input type="checkbox"/> 5 marks 25-50% of data are analyzed correctly with appropriate statistics	<input type="checkbox"/> 8 marks 51-75% of data are analyzed correctly with appropriate statistics	<input type="checkbox"/> 10 marks >75% of data are analyzed correctly with appropriate statistics
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<input type="checkbox"/> 2 marks <25% of analyzed data are interpreted correctly	<input type="checkbox"/> 5 marks 25-50% of analyzed data are interpreted correctly	<input type="checkbox"/> 8 marks 51-75% of analyzed data are interpreted correctly	<input type="checkbox"/> 10 marks >75% of analyzed data are interpreted correctly
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4. Discussion and conclusion (20 marks)

<input type="checkbox"/> 2 marks Discuss the results of the study compared with previous studies correctly <25%	<input type="checkbox"/> 4 marks Discuss the results of the study compared with previous studies correctly 25-50%	<input type="checkbox"/> 6 marks Discuss the results of the study compared with previous studies correctly 51-75%	<input type="checkbox"/> 8 marks Discuss the results of the study compared with previous studies correctly >75%
<input type="checkbox"/> 2 marks Discuss the limitations and the implication of the study correctly <25%	<input type="checkbox"/> 4 marks Discuss the limitations and the implication of the study correctly 25-50%	<input type="checkbox"/> 6 marks Discuss the limitations and the implication of the study correctly 51-75%	<input type="checkbox"/> 8 marks Discuss the limitations and the implication of the study correctly >75%
<input type="checkbox"/> 1 marks Conclude the important result of study correctly <25%	<input type="checkbox"/> 2 marks Conclude the important result of study correctly 25-50%	<input type="checkbox"/> 3 marks Conclude the important result of study correctly 51-75%	<input type="checkbox"/> 4 marks Conclude the important result of study correctly >75%

5. Presentation (10 marks)

5.1 Quality of slide presentation materials

<input type="checkbox"/> 1 marks Difficult to read Missed spelling >75% of slides	<input type="checkbox"/> 2 marks Difficult to read 51-75% Missed spelling 51-75%	<input type="checkbox"/> 3 marks Difficult to read 25-50% Missed spelling 25-50%	<input type="checkbox"/> 4 marks Easy to read No missed spelling
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5.2 Presentation skills (speaking style, distracted actions, eye contact)

<input type="checkbox"/> 1 marks Speak hardly heard and unclear Distracted action >45% No eye contact	<input type="checkbox"/> 2 marks Speak unclear 51-75% Distracted action 51-75% Eye contact 25-50%	<input type="checkbox"/> 3 marks Speak unclear 25-50% Distracted action 25-50% Eye contact 51-75%	<input type="checkbox"/> 4 marks Speak loud and clear No distracted action Eye contact with audiences
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5.3 Timing

<input type="checkbox"/> 1 marks > 30 minutes	<input type="checkbox"/> 2 marks ≤ 30 minutes
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Final Decision

- Overall
- Pass without condition
 - Pass with condition
 - Not Pass