

# **Course orientation**

## **MD647 703 Experimental Parasitology**

**Course organizers : Assoc. Prof. Thewarach Laha**  
**Assist. Prof. Chatanun Eamudomkarn**

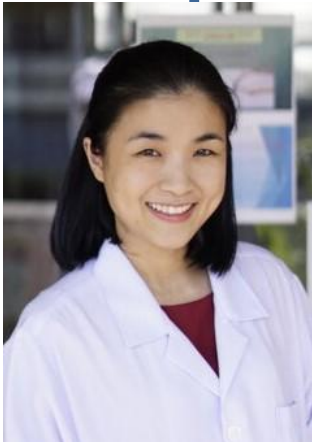
# Course organizer



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# Course description

- This subject consists theoretical knowledge and practical skills in various laboratory practices related to cell culture techniques (*in vitro*) and animal experimentation (*in vivo*), utilization of microscopes (compound microscope, stereo microscope, etc.), special staining techniques for differentiation, molecular diagnostics techniques, serological immunoassays and health geographic information system. Students will develop skills in research, communication, experimentation, data utilization, presentation of experimental results, and report writing. Research ethics will also be emphasized.

# Course structure

1. Lecture and laboratory class (14 Topics)
2. Special project (Perform experiment, presentation and writing report)

# Timetable

Second Semester (25 Nov 2025 - 7 April 2026)

- Lecture- Tuesday 10.00-11.00 : Department meeting room 1
- Lab. - Tuesday 13.00-17.00 : Lab 5 / Parasitology Research Lab

# Lecture and laboratory

- 14 Topics: 25 Nov 2025 - 17 Mar 2026
- 2 Examinations
  - Midterm Examination (Topic 2-7) – 20 Jan 2026
  - Final Examination (Topic 8-14) – 24 Mar 2026

# Special projects

- Perform experiment under supervision of thesis advisor (25 Nov 2025 – 23 Mar 2026)
- Report submission (draft report 3 copies) - 23 Mar 2026
- Project presentation 20-30 min - 31 Mar 2026 (1.00-4.30 pm)
- Final report submission (2 copies) – 7 Apr 2026

# Evaluation and grading

## Paper examination

Two Examinations (Total = 40%)

- Midterm Examination (Topic 2-7) = 18.5 % – 20 Jan 2026
- Final Examination (Topic 8 -14) = 21.5 % – 24 Mar 2026



## **Special project**

- Report submission : 23 Mar 2026
- Project presentation : 31 Mar 2026
- Final report submission : 7 Apr 2026

## **Scores will be deducted in cases of :**

- Absence from the class without letter of leave (0.5 % / time)
- Late report submission (1 % / day)

## **Special project conduction**

- Special project should have been conducted since the beginning of the course.
- Project report format has to follow thesis manual writing (Vancouver Style).

# Report of Special project

- Thesis format of KKU graduate school
- <https://app.gs.kku.ac.th/gs/th/research>
- Content
  - Front cover,
  - Title page (Thai and English)
  - Abstract (Thai and English)
  - Acknowledgement (and dedication-If any)
  - Table of Contents (content, tables, figures, symbols, and abbreviation-If any)
  - Chapter 1 - Introduction
  - Chapter 2 – Literature reviews
  - Chapter 3 - Materials and methods
  - Chapter 4 - Results
  - Chapter 5 - Discussion
  - References
  - Appendix 07
  - Biography (If any)

# Course evaluation

Paper examination	40%
Special project	50%
(Lab performance 30 advisor only, report 40, presentation 10, knowledge 20 : total 100 = 50 %)	
Assignment or report of each lab	10%

## Grading

<b>A</b>	<b><math>\geq 80\%</math></b>
<b>B+</b>	<b><math>\geq 75\% - &lt; 80\%</math></b>
<b>B</b>	<b><math>\geq 70\% - &lt; 75\%</math></b>
<b>C+</b>	<b><math>\geq 65\% - &lt; 70\%</math></b>
<b>C</b>	<b><math>\geq 60\% - &lt; 65\%</math></b>
<b>D+</b>	<b><math>\geq 55\% - &lt; 60\%</math></b>
<b>D</b>	<b><math>\geq 50.00\% - &lt; 55\%</math></b>
<b>F</b>	<b><math>&lt; 50\%</math></b>