Course Syllabus

1.]	Program of Study Faculty/Institute/College	Bachelor of Science (Biological Sciences) Mahidol University International College
2.	Course Code Course Title	ICBI 412 Parasitology
3.]	Number of Credits	4 (3-2-7) (Lecture/Lab/self-study)
4.]	Prerequisite (s)	ICBI 211
5. '	Type of Course	Elective

6. Trimester/ Academic Year

Second trimester / every academic year

7. Course Condition

Number of students is 20-30.

8. Course Description

Biology, ecology and physiology of parasites of man and some domestic animals; molecular parasitology; basic research in control and diagnosis of parasite infection; demonstrations and laboratory exercises included.

9. Course Objective (s)

After completion of this course, the students should be able to

- 1. Describe morphology and life cycles of protozoa and helminthes of medical and veterinary importance.
- 2. Explain the mechanisms of pathogenesis of important parasites.
- 3. Describe the routine diagnostic methods for important parasitic infections.
- 4. Describe how to prevent themselves from parasitic infections.

week	Topics/Seminar	Hours			
		Lecture	Lab	Self-study	Instructor
1	Introduction to protozoa	3	2	7	Dr. Peerapan
2	Medically important protozoa	3	2	7	Dr. Peerapan
3	Host-protozoa interactions and	3	2	7	Dr. Peerapan
	protozoa evasion				
4	Tutorial session	3	2	7	Dr. Peerapan
	Demonstration of medically				
	important protozoa				
5	MIDTERM EXAM	3	-	-	Dr. Peerapan
6	Introduction to helminthes	3	2	7	Dr. Araya
7	Medically important helminthes	3	2	7	Dr. Araya
8	Host-parasite interactions and	3	2	7	Dr. Araya
	helminthic immune evasion				
9	Principles and research on drug and	3	2	7	Dr. Araya
	vaccine development against				

10. Course Outline

	parasitic infection I						
10	Principles and research on drug and	3	2	7	Dr. Araya		
	vaccine development against						
	parasitic infection II						
11	Tutorial session	3	2	7	Dr. Araya		
	Demonstration of medically						
	important helminthes						
FINAL EXAM							
	Total	33	22	77			

11. Teaching Method (s)

- 1. Lecture
- 2. Suggested readings
- 3. Discussion in class

12. Teaching Media

- 1. Powerpoint Presentations
- 2. Texts and teaching materials

13. Measurement and Evaluation of Student Achievement

Student achievement is measured and evaluated by

- 13.1 The ability to describe morphology and life cycles of protozoa and helminthes of medical and veterinary importance.
- 13.2 The ability to explain the mechanisms of pathogenesis of important parasites.
- 13.3 The ability to describe the routine diagnostic methods for important parasitic infections.
- 13.4 The ability to describe how to prevent themselves from parasitic infections

Student's achievement will be graded according to the college and university standard using the symbols: A, B+, B, C+, C, D+, D and F. Minimal passing level is 60%. Student who earns 85% up will have Grade A, 80-84% Grade B+, 75-79% Grade B, 70-74% Grade C+, 65-69% Grade C, 60-64% Grade D+, 55-59% D, less than 55 Grade F. Students must attend at least 80% of the total class hours of this course.

Ratio of mark

Midterm examination	45%
Final examination	40%
Participation, Attendance, and quiz	15%
Total	100%

14. Course evaluation

- 14.1 Students' achievement as indicated in number 13 above.
- 14.2 Students' satisfaction towards teaching and learning of the course using questionnaires.

15. Reference (s)

1. Symth, J.D. Introduction to animal parasitology. 3rd Edition, UK. Cambridge University Press 1994.

2. Roberts, L.S. and Janovy, J., jr. Foundations of parasitology. USA. Mcgraw-Hill Companies Inc. 1996.

16. Instructor (s)

Professor Peerapan Tan-ariya Assistant Professor Araya Chusattayanond

17. Course Coordinator

Professor Peerapan Tan-ariya