

# Gynecologic Cancer Therapy

(Code : 4836 1<sup>st</sup> – 2<sup>nd</sup> year, 1 unit)  
(Course ID: GS-c4836-L)

## 1. Instructors

Name	Position	Department	Contact In Formation
Perapong Inthasorn, MD	Chief Instructor / Associate Professor	Gynecologic Oncology Division, Department of Obstetrics & Gynaecology	perapong_i@hotmail.com
Somsin Petyim, MD, PhD	Associate Professor	Infertility Unit, Department of Obstetrics & Gynaecology	Somsin.pet@mahido;.ac.th
Surasawadee Ausavarat, MD, PhD	Assistant Professor	Department of Clinical Pathology	
Chutikarn Chaimayo, MD, PhD	Instructor	Department of Microbiology	chutikarn.cha@mahidol.ac.th
Mark Stephan Felix, PhD	Associate Professor	Faculty of Social Sciences and Humanities	mark.fel@mahidol.ac.th
Pittaya Dankulchai	Associate Professor	Department of Radiology	pittayawin@yahoo.com
Pattama Chaopotong, MD	Associate Professor	Gynecologic Oncology Division, Department of Obstetrics & Gynaecology	chaopotong@gmail.com
Irene Ruengkachorn, MD	Associate Professor	Gynecologic Oncology Division, Department of Obstetrics & Gynaecology	irene.rue@mahidol.ac.th
Vuthinun Achariyapota, MD	Assistant Professor	Gynecologic Oncology Division, Department of Obstetrics & Gynaecology	vuthinun.ach@mahidol.edu
Sompop Kuljarusnont, MD	Instructor	Gynecologic Oncology Division, Department of Obstetrics & Gynaecology	sompop.kul@mahidol.edu
Nida Jareemit, MD	Assistant Professor	Gynecologic Oncology Division, Department of Obstetrics & Gynaecology	nida.jareemit@gmail.com
Pomprom Ittiamornlert, MD	Instructor	Gynecologic Oncology Division, Department of Obstetrics & Gynaecology	spooky_kwang@hotmail.com

## 2. Classroom/Lab Lecture

Lecture room, Gynecologic oncology division, Chudhathuj Building 1<sup>st</sup> floor

## 3. Course Purpose and Outline

- Understand the concept and key element of Gyn cancer treatment
- Describe the difference of Gyn cancer treatment in various situations
- Understand practice of individual and multidisciplinary treatment for Gyn cancer
- Describe the cell biology, translational pathology, immunology, gene therapy, nutrigenomics
- Describe the novel treatment modalities of Gyn cancer
- Deal with common problems in Gyn cancer treatment
- Able to initiate conceptual idea for biomolecular research in Gyn cancer

## 4. Course Objectives

By the end of the course, participants will be able to:

- Understand scientific principles which underlie cell biology, translational pathology, gene therapy, nutrigenomics of Gyn cancer
- Understand the clinical, ethical and regulatory aspects of the biomolecular of Gyn cancer
- Learn laboratory techniques that could be used in biomolecular of Gyn cancer research.
- Demonstrate a group working and responsibility for work assigned.
- Demonstrate effective communication skills for scientific presentation.

## 5. Format

Lectures, group discussion, report presentation

All class activities will be provided in an online Format via Moodle platform/on-site depends on instructors

## 6. Course Details

No.	Topics (hours)	Instructors
1	Reproductive biology and LAB	Somsin Petyim
2	Cellular structure and function in Gynecologic cancer pathology	Somsin Petyim
3	Molecular mechanisms of HPV induced carcinogenesis	Chutikarn Chaimayo
4	Genetic and molecular basis of Gynecologic cancer development	Surasawadee Ausavarat
5	Tumor microenvironment in Gynecologic cancer	
6	Clinical applications of biomolecular research in Gynecologic cancer	
7	(Ethical consideration in Gynecologic cancer biomolecular research)	
8	(Regulatory frameworks for Gynecologic cancer biomolecular research)	
9	Laboratory techniques for biomolecular analysis of Gynecologic cancer	Surasawadee Ausavarat
10	Molecular profiling and subtyping of Gynecologic cancers	
11	Preclinical models for Gynecologic cancer research	
12	Translational research and clinical trials in Gynecologic cancer	
13	Manuscript writing and academic presentation	

<b>Clinical</b>		
1	Modern and precision cervical cancer screening +/- liquid biopsy	Pattama Chaopotong
2	Targeted and immunotherapy in Gyn cancer	
3	Precision medicine for ovarian cancer treatment	Vuthinun Achariyapota
4	Bioinformatics in Gyn cancer	Sompop Kuljarusnont
5	Biomolecular markers in endometrium carcinoma	Sompop Kuljarusnont
6	GTN: molecular markers and treatment	Nida Jareemit
7	MIS in Gyn cancer	Pornprom Ittiamornlert
8	Radiation for Gyn cancer	Pittaya Dankulchai

#### 7. Assessment

Grades are determined based on lecture attendance and written and oral examination. Basic knowledge, patient care and attitude will be evaluated.

#### 8. Prerequisite Reading

Reading materials will be announced and provided before the course.

#### 9. Reference Materials

To be announced before the class.

#### 10. Language Used

All classes are conducted in English.

#### 11. Office Hours

Mon – Fri: 9:00 AM – 17:00 PM

Contact: Irene Ruengkachorn, Gynecologic Oncology Division, Department of Obstetrics & Gynaecology

E-mail: irene.rue@mahidol.ac.th

Please contact the instructor regarding questions or consultations.

#### 12. Note(s) to Students

The student who wishes to continue his/her surgical career in Gyn cancer will have a chance to learn and understand Gyn cancer from basic knowledge to patient care.

This is an elective course to be taken during joint Ph.D. program providing by Mahidol University.

Ph.D. student focusing in Gyn cancer is encouraged to take this course.