

# SISR 603 (4833) Basic Surgical Endoscopy

(Code: 4833, 1st~2nd year, 1 units)

(Course ID: GS-c4833-L)

## 1. Instructors

Name	Position	Department	Contact Information
Jirawat Swangsri	Chief Instructor/ Assistant Professor Dr.	Division of General Surgery, Department of Surgery	Jirawat.swa@mahidol.ac.th
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Thawatchai Akaraviputh	Professor	Division of General Surgery, Department of Surgery	Thawatchai.aka@mahidol.ac.th
Nonthalee Pausawasdi	Associate Professor	GI Med unit, Department of Medicine	Nonthalee.pau@mahidol.ac.th
Prasit Mahawongkajit	Associate Professor	GI Med unit, Department of Medicine	-
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Voraboot Taweerutchana	Lecturer	Division of General Surgery, Department of Surgery	Voraboot.taw@mehidol.ac.th
Chainarong Phalanusitthep	Lecturer	Division of General Surgery, Department of Surgery	Chainaraong.pha@mahidol.ac.th

Julajak Limsrivilai	Instructor	GI Med unit, Department of Medicine	-
Manus Rujivarodom	Instructor	GI Med unit, Department of Medicine	-
Kotchakorn maipeng	Instructor	GI Med unit, Department of Medicine	-
Nicha Srisuvoranan	Instructor	GI Med unit, Department of Medicine	-
Uayporn Siriyuyuen	Instructor	GI Med unit, Department of Medicine	-
Kumagai Youichi	Associate Professor	Department of Digestive Tract and General Surgery, Saitama Medical Center, Saitama Medical University, Saitama, Japan.	kuma7sr1@saitama-med.ac.jp
Hirasawa Toshiaki	Associate Professor	Division of Gastroenterology, Cancer Institute Hospital, Japanese Foundation of Cancer Research, Tokyo, Japan	toshiaki.hirasawa@jfcrr.or.jp
Kawada Kenro	Associate Professor	-	-
Yutaka Tokairin	Associate Professor	Department of Surgery, Toshima Hospital Tokyo Metropolitan Health and Hospitals Corporation, Tokyo, Japan	-

## 2. Classroom/Lab Lecture

Lecture: Division of General Surgery, 12<sup>th</sup> floor Syamindra Building, Siriraj Hospital

Ward round: Surgical ward, 7<sup>th</sup> floor 72<sup>nd</sup> year Building, Siriraj Hospital

Operating theatre: 5<sup>th</sup> floor Syamindra Building, Siriraj Hospital

## 3. Course Purpose and Outline

At the end of the course, students will be able to:

- Understand common diseases in the field of Endoscopic and minimally invasive surgery

- Understand treatment and operations Endoscopic and minimally invasive surgery
- Develop research questions relating to Endoscopic and minimally invasive surgery and their treatment.
- Generate idea in innovations relating treatment of Endoscopic and minimally invasive surgery.
- Obtain view of basic sciences including molecular biology and metabolomics methods in applying for research in Endoscopic and minimally invasive surgery.

#### 4. Course objectives

This course provides a general introduction to Endoscopic and minimally invasive surgery. Common Endoscopic and minimally invasive surgery conditions will be thoroughly explored by means of lecture and clinical experience. Common Endoscopic and minimally invasive operations and procedures will be demonstrated through the course. Selected case studies will be discussed during group discussion. Integration of basic knowledge and innovative procedure including Advanced imaging endoscopy and high technology procedure such as endoscopic surgery, laparoscopic until Robotic assisted for implement to cancer related research.

#### 5. Format

- Lecture: essential topics in Endoscopic and minimally invasive surgery
- Clinical practice: participate in operating theatre, ward round and out-patient encounters in Minimally invasive Surgery Unit, Siriraj Hospital
- Conference and journal club: presentation and participation in discussion
- Group discussion: in-depth discussion with supervisors

#### 6. Course Details

Ward round (7<sup>th</sup> floor 72yr building): Monday - Friday 7.00-8.00

Operating theater (OR, 5<sup>th</sup> floor Syamindra building): Monday – Thursday 9.00-16.00

Grand round (12<sup>th</sup> fl Syamindra building): Thursday 14.00-16.00

Conference and group discussion: to be announced

NO	Date	Time	Topic/Details	Instructors
1	Mon 11-1-21	14.00 – 15.00	Principle of laparoscopic and robotic surgery	Assoc. Prof. Dr. Vitoon Chinswangwatanakul

2	Thu 14- 1-21	13.00 – 14.00	Basic principle of endoscopy and innovation	Prof. Thawatchai Akaraviput
3	Mon 18- 1-21	45 mins	Minimally invasive of hernia surgery	Assoc. Prof. Dr.Asada Methasate
4	Thu 21-1- 21	45 mins	History and principle of esophageal cancer treatment	Assist. Prof. Dr.Jirawat Swangsri
5	Mon 25- 1-21	45 mins	Early upper GI cancer detection	Dr. Kumagai Youichi
6	Thu 28-1- 21	45 mins	Role of AI in GI malignancy detection	Dr. Hirasawa Toshiaki
7	Mon 1-2- 21	45 mins	Principle of ESD for early cancer treatment	Dr. Kawada Kenro
8	Thu 4-2- 21	45 mins	Minimally invasive surgery for esophageal cancer	Dr. Yutaka Tokairin
9	Mon 8-2- 21	45 mins	Minimally invasive surgery for gastric cancer	Assist. Prof. Thammawat Parakonthun
10	Thu 11-2- 21	45 mins	Principle of EUS for subepithelial tumor detection	Assoc. Prof. Nonthalee Pausawasdi

			Midterm Examination	
11	Thu 18-2- 21	45 mins	Management of GI subepithelial tumor	Assoc. Prof. Prasit Mahawongkajit
12	Mon 22- 2-21	45 mins	Approach to small bowel lesion	Lecturer Julajak Limsrivilai
13	Thu 25-2- 21	45 mins	ERCP and innovation	Lecturer Manus Rujivarodom
14	Mon 1-3- 21	45 mins	Principle of bariatric endoscopy	Dr. Kotchakorn
15	Thu 4-3- 21	45 mins	Role of minimally invasive bariatric surgery	Assist. Prof. Voraboot Taweerutchana
16	Mon 8-3- 21	45 mins	Role of minimally invasive endocrine surgery	Lecturer Nicha Srisuvoranan
17	Thu 11-3- 21	45 mins	IEE for colon lesion detection	Dr. Uayporn Siriyuyuen
18	Mon 15- 3-21	45 mins	Minimally invasive for pelvic floor	Lecturer Siriluck Prapasrivorakul
19	Thu 18-3- 21	45 mins	Principle of laparoscopic treatment of colon cancer	Assoc. Prof. Auttaporn Trakarnsanga

20	Mon 22- 3-21	45 mins	Minimally invasive for Linear surgery	Assist Prof. Wethit Dumronggittigule
21	Thu 25-3- 21	45 mins	Minimally invasive for Pancreatic surgery	Lecturer Pholasith Sangserestid
<b>Final Examination</b>				

### **7. Assessment**

Grades are based on attendance of lectures, performances on assignments, and levels of attitude, skills and knowledge

### **8. Prerequisite Reading**

When reading materials are distributed or specified in advance, participants are expected to read those materials beforehand.

### **9. Reference Materials**

Jarnagin WR, Allen PJ, Chapman WC, D'Angelica MI, DeMatteo RP, Do RKG, Vauthey JN. Blumgart's Surgery of the Liver, Biliary Tract, and Pancreas. 6th Edition. Philadelphia, PA: Elsevier, 2017.

Further reference will be announced before class.

### **10. Language used**

All classes are conducted in English.

### **11. Office Hours**

Mon – Fri: 9:00 AM – 17:00 PM

Contact: Assistant Professor Dr. Jirawat Swangsri Tel: +662-419-8005

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Please contact the instructor regarding questions or consultations.

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

None.