



**Program Title:** M.Sc. - Master of Science Program in Medicine

**Institute:** Faculty of Medicine (Siriraj Hospital)

**Qualification:** Master Degree

**Summary:**

The programme includes both medical specialty and research in Pediatrics, Ophthalmology, Neurology, Anesthesiology, **Otorhinolaryngology**

**Major**

- Pediatrics
- Ophthalmology
- Neurology
- Anesthesiology
- **Otorhinolaryngology**

**Job option after graduation:**

1. Medical Academic in any of the following fields: Pediatrics, Ophthalmology, Neurology, Anesthesiology, Otorhinolaryngology
2. Researcher in any of the following fields; Pediatrics, Ophthalmology, Neurology, Anesthesiology, Otorhinolaryngology

**International Admission Requirements:**

A candidate must:

**Plan A , Type A(2)**

1. Hold a Bachelor's degree in Medicine from a university in Thailand or overseas which is accredited by the Office of Higher Education Commission, Thailand
2. Have a minimum grade point average of 2.50 or equals
3. Have a good English proficiency in reading, listening, speaking and writing

Exceptions to the mentioned conditions item 1 and 2 can be made only by the Program Director, Administrative Committee of the Faculty of Medicine Siriraj Hospital and the Dean of the Faculty of Graduate Studies, Mahidol University

**Plan B**

1. Hold a Bachelor's degree in Medicine from a university in Thailand or overseas university which is accredited by the Office of Higher Education Commission, Thailand
2. Have a minimum grade point average of 2.50 or equals
3. Must have working experience in Pediatrics, Ophthalmology, Anesthesiology, Orthopaedics, Otorhinolaryngology or Medicine
4. Have a good English proficiency in reading, listening, speaking and writing
5. Exceptions to the mentioned conditions item 1 and 2 can be made only by the Program Director, Administrative Committee of the Faculty of Medicine Siriraj Hospital and the Dean of the Faculty of Graduate Studies, Mahidol University

Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances.

**Start Dates:** August 2018

**Study Mode:** Full time

**Duration:** 3-5 academic years

**Duration Description:** 36 Credits

**Application Deadline:**

Semester of Application	Admission Deadline
Semester 1 (August – December)	May 31
Semester 2 (January- May)	October 31

**Application Details:**

Prepare the following required documents to submit via online admission system or post:

1. Completed an Online Application at [www.grad.mahidol.ac.th](http://www.grad.mahidol.ac.th) which comprised with
  - Form A : Application Form
  - Form B : Background and Proposed Field of Study
  - Form C : Recommendation Forms (directly submitted by at least 2 referees)
2. Two copies of Degree Certificate (with officially certified English translation)
3. Two copies of Academic Transcript (with officially certified English translation)
4. Two copies of Recent Photos (Passport size)
5. Two copies of Passport
6. Two copies of English certificate (TOEFL/ IELTS/ MU-Grad Test)  
(For Doctoral Program)
  - TOEFL ITP score of at least 500, TOEFL Internet-based score of 61, or IELTS score of 5 (For Master's Program)
  - TOEFL ITP score of at least 480, TOEFL Internet-based score of 54, IELTS score of 5 or MU GRAD TEST score of 60.

**Notes**

- Only accept TOEFL ITP score from examination center arranged by Faculty of Graduate Studies, Mahidol University.
  - TOEFL ITP taken from other domestic and overseas institutes are invalid.
  - The test date must be within previous 2 years before application date
  - Applicant who obtained a valid English score must submit an official score certificate along with your application. Otherwise, your English score will not be considered.
  - Detail of English Competency Standard for Admission:  
<http://www.grad.mahidol.ac.th/en/current-students/language-center.php>
7. Two copies of Curriculum Vitae
  8. Two copies of Statement of Purposes and Career Goals
  9. Two copies of Current bank statement / Scholarship letter (if any)
  10. Two copies of Concept paper / research proposal (recommended for all applicants)
  11. Two copies of additional documents may be requested by each program (such as letter of work experience / professional license/ related certificates and awards)

**Submitting documents via online admission system.**

- All documents must be in pdf format (maximum size 2 MB)
- Recent photograph must be in jpeg format only (maximum size 2 MB)

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Department of Otorhinolaryngology, Faculty of Medicine Siriraj Hospital, Mahidol University

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**Application Fee:** THB 500.

**Venue:** Bangkok-noi Campus

**International Tuition Fee Information:**

<b>Items</b>	<b>Cost</b>
1. Education Services Fee (Tuition fee for maintaining student status)	
1.1 First semester	6,300 baht
1.2 Second semester	5,600 baht
2. Health Insurance (Additional Fee for Non - Thai students)	3,500 baht/year
3. Graduate Tuition fee For students who have not received a scholarship or have received a scholarship that only covers part of the tuition fee. The Director of program and the Faculty of Graduate Studies may give these students partial support or waive the graduate tuition fee. The amount of this support cannot be less than 1,800 baht/credit.	9,000 baht/credit
4. Thesis Registration Fee Master's Thesis Registration Fee (Plan A2) The thesis registration fee can be paid in two equal Installments, at the first semester and the second semester of thesis registration.	18,000 baht/thesis
5. Thematic Paper Registration Fee	1,500 baht/credit
6. Research Supplies Fee Master's degree Program For students who have not received a scholarship or have received a scholarship that only covers part of the tuition fee. The Director of the program and the Faculty of Graduate Studies may waive or exempt the research supplies fee/thematic paper supplies fee.	150,000 baht
7. Qualifying/Comprehensive Examination Fee - Comprehensive Examination Fee for Master's degree Program (Plan B)	1,500 baht/time

**Curriculum Structure**

*For Plan A2*

Core Course	4	credits
Required Courses	15	credits
Elective Courses not less than	6	credits
Thesis	12	credits
<b>Total</b>	<b>37</b>	<b>credits</b>

*For Plan B*

Core Course	4	credits
Required Courses	15	credits
Elective Courses not less than	12	credits
Thematic Paper	6	credits
<b>Total</b>	<b>37</b>	<b>credits</b>

**Core Course** (Plan A2 and plan B)

	<b>Credits (Lecture-lab)</b>
SIID 504 Communication and Informatics in Biomedicine	1 (1-0-2)
SIID 505 Statistic for Biomedicine	2 (2-0-4)
SIID 507 Research Methodology in Clinical Science	1 (1-0-2)

**For Plan A2****Required Courses**

Major Otorhinolaryngology

	<b>Credits (Lecture-lab)</b>
SIOT 641 Basic Principle in Otorhinolaryngology	2 (2-0-4)
SIOT 642 Clinical Knowledge in Sleep Medicine	2 (1-2-3)
SIOT 643 Emergency Situation in Otorhinolaryngology	2 (1-2-3)
SIOT 644 Seminar in Otorhinolaryngology	1 (1-0-2)
SIOT 663 Clinical Knowledge in Rhinology and Allergy	2 (1-2-3)
SIOT 672 Otology and Neurotology	2 (1-2-3)
SIOT 682 Head and Neck Diseases and Surgery	2 (1-2-3)
SIOT 692 Pediatric Otorhinolaryngology	2 (1-2-3)

**Elective Courses**

Major Otorhinolaryngology

	<b>Credits (Lecture-lab)</b>
SIOT 563 Allergy	1 (1-0-2)
SIOT 564 Rhinology	1 (1-0-2)
SIOT 651 Principle of Out-Patient Care in Otorhinolaryngology	2 (0-4-2)
SIOT 652 Principle of In-Patient Care in Otorhinolaryngology	2 (0-4-2)
SIOT 655 Abnormality of Smell and Taste	1 (1-0-2)
SIOT 673 Diseases of Ears and Balance Disorders	1 (1-0-2)
SIOT 683 Bronchoesophagology	1 (1-0-2)
SIOT 684 Principle of Voice Disorders and Speech Rehabilitation	2 (0-4-2)
SIOT 685 Swallowing Disorder	2 (0-4-2)
SIOT 686 Principle of Patient care in ENT Theater	2 (0-4-2)

**Thesis**

	<b>Credits (Lecture-lab)</b>
SIOT 698 Thesis	12 (0-36-0)

## For Plan B

### Required Courses

Major Otorhinolaryngology

	<b>Credits (Lecture-lab)</b>
SIOT 641 Basic Principle in Otorhinolaryngology	2 (2-0-4)
SIOT 642 Clinical Knowledge in Sleep Medicine	2 (1-2-3)
SIOT 643 Emergency Situation in Otorhinolaryngology	2 (1-2-3)
SIOT 644 Seminar in Otorhinolaryngology	1 (1-0-2)
SIOT 663 Clinical Knowledge in Rhinology and Allergy	2 (1-2-3)
SIOT 672 Otology and Neurotology	2 (1-2-3)
SIOT 682 Head and Neck Diseases and Surgery	2 (1-2-3)
SIOT 692 Pediatric Otorhinolaryngology	2 (1-2-3)

### Elective Courses

Major Otorhinolaryngology

	<b>Credits (Lecture-lab)</b>
SIOT 563 Allergy	1 (1-0-2)
SIOT 564 Rhinology	1 (1-0-2)
SIOT 651 Principle of Out-Patient Care in Otorhinolaryngology	2 (0-4-2)
SIOT 652 Principle of In-Patient Care in Otorhinolaryngology	2 (0-4-2)
SIOT 655 Abnormality of Smell and Taste	1 (1-0-2)
SIOT 673 Diseases of Ears and Balance Disorders	1 (1-0-2)
SIOT 683 Bronchoesophagology	1 (1-0-2)
SIOT 684 Principle of Voice Disorders and Speech Rehabilitation	2 (0-4-2)
SIOT 685 Swallowing Disorder	2 (0-4-2)
SIOT 686 Principle of Patient care in ENT Theater	2 (0-4-2)

### Thematic Paper

	<b>Credits (Lecture-lab)</b>
SIOT 697 Thematic Paper	6 (0-18-0)

## Study Plan Plan A2

### Major Otorhinolaryngology

Year	Semester 1		Semester 2			
1	SIOT 641	Basic Principle in Otorhinolaryngology	2 (2-0-4)	SIID 507	Research Methodology in Clinical Science	1 (1-0-2)
	SIOT 643	Emergency Situation in Otorhinolaryngology	2 (1-2-3)	SIID 505	Statistic for Biomedicine	2 (2-0-4)
	SIOT 644	Seminar in Otorhinolaryngology	1 (0-2-1)	SIOT 682	Head and Neck Diseases and Surgery	2 (1-2-3)
	SIOT 663	Clinical Knowledge in Rhinology and Allergy	2 (1-2-3)	SIOT 642	Clinical Knowledge in Sleep Medicine	2 (1-2-3)
	SIOT 672	Otology and Neurotology	2 (1-2-3)	SIOT 692	Pediatric Otorhinolaryngology	2 (1-2-3)
	<b>Total 9 Credits</b>		<b>Total 9 Credits</b>			
2	SIID 504	Communication and Informatics in Biomedicine	1 (1-0-2)	SIOT 698	Thesis	4 (0-12-0)
		Elective courses 6 credits				
	<b>Total 7 Credits</b>		<b>Total 4 Credits</b>			
3	SIOT 698	Thesis	4(0-12-0)	SIOT 698	Thesis	4(0-12-0)
	<b>Total 4 Credits</b>		<b>Total 4 Credits</b>			

## Plan B

### Major Otorhinolaryngology

Year	Semester 1		Semester 2			
1	SIOT 641	Basic Principle in Otorhinolaryngology	2 (2-0-4)	SIID 507	Research Methodology in Clinical Science	1 (1-0-2)
	SIOT 643	Emergency Situation in Otorhinolaryngology	2 (1-2-3)	SIID 505	Statistic for Biomedicine	2 (2-0-4)
	SIOT 644	Seminar in Otorhinolaryngology	1 (0-2-1)	SIOT 682	Head and Neck Diseases and Surgery	2 (1-2-3)
	SIOT 663	Clinical Knowledge in Rhinology and Allergy	2 (1-2-3)	SIOT 642	Clinical Knowledge in Sleep Medicine	2 (1-2-3)
	SIOT 672	Otology and Neurotology	2 (1-2-3)	SIOT 692	Pediatric Otorhinolaryngology	2 (1-2-3)
	<b>Total 9 Credits</b>		<b>Total 9 Credits</b>			
2	SIID 504	Communication and Informatics in Biomedicine	1 (1-0-2)	Elective courses 6 credits		
		Elective courses 4 credits		<b>Total 6 Credits</b>		
	<b>Total 5 Credits</b>		<b>Total 6 Credits</b>			
3	Elective courses 2 credits			SIOT 697	Thematic Paper	6 (0-18-0)
	<b>Total 2 Credits</b>		<b>Total 6 Credits</b>			

## Course Description

### Core Course

- SIID 504 Communication and Informatics in Biomedicine** **Credits (Lecture-lab)**  
**1 (1-0-2)**  
Principle and benefit of biomedical informatics, data search and reference management, principle of Big data management and analysis, ethics in biomedical informatics, health and biomedical communication technology.
- SIID 505 Statistic for Biomedicine** **2 (2-0-4)**  
Descriptive statistics. Principle of hypothesis testing. Comparison of 1, 2 and >2 means. Test of association between 2 qualitative variables using Chi-square test. Non-parametric statistics. Test of linear relationship between 2 quantitative variables using correlation. Agreement. Sample size calculation. Presentation of results via tables and graphs.
- SIID 507 Research Methodology in Clinical Science** **1 (1-0-2)**  
Various types of clinical research, applications of scientific process in research design, formulation of research questions and hypotheses, critical appraisal of scientific research articles in clinical sciences, research ethics.

### Required Courses

#### Major Otorhinolaryngology

- SIOT 641 Basic Principle in Otorhinolaryngology** **Credits (Lecture-lab)**  
**2 (2-0-4)**  
Anatomy and physiology of body systems related to otorhinolaryngology, important symptoms and signs, pathology, pathophysiology of important diseases and common problems in ear, nose, throat, larynx, trachea, head and neck; knowledge of essential drug prescription such as antibiotics, analgesics, antihistamine; fundamental knowledge of radiology related to otorhinolaryngology including diagnostic radiology, radiotherapy, and nuclear medicine
- SIOT 642 Clinical Knowledge in Sleep Medicine** **2 (1-2-3)**  
Symptoms, signs, etiologies, pathology, pathophysiology of patients with snoring and obstructive sleep apnea; observation of sleep lab and ability to interpret basic sleep examination; clinical guidance in primary management of patient with snoring and obstructive sleep apnea, patient education, principle of medical treatment and surgical treatment; tonsillectomy, adenoidectomy, volumetric tissue reduction in nasal cavity, soft palate and tongue base with radiofrequency wave under professional standard and ethical concerns
- SIOT 643 Emergency Situation in Otorhinolaryngology** **2 (1-2-3)**  
Important emergency situations in ear, nose, throat; diagnose and primary care for upper airway obstruction, foreign body in oral cavity, pharynx, trachea and esophagus; epistaxis, sudden sensorineural hearing loss, acute vertigo; important symptoms and signs, etiology, clinical course, pathology and diagnostic approach including primary care for emergency situation to save the patients from crisis under professional standard and ethical concerns
- SIOT 644 Seminar in Otorhinolaryngology** **1 (0-2-1)**  
An exchange in knowledge and understanding in Otorhinolaryngology
- SIOT 663 Clinical Knowledge in Rhinology and Allergy** **2 (1-2-3)**  
Diseases and disorder in allergic rhinitis, principle of patient care in allergy clinic, variety of allergic investigations, management of allergic rhinitis, practical skill training to use special instruments for examination of nasal allergic diseases and conditions with professional standard and related ethical concerns



**SIOT 672 Otology and Neurotology 2 (1-2-3)**

Basic knowledge in anatomy, physiology of otological, vestibular and related structures; basic clinical principle in history taking, physical examination, application of standard equipments in ontological examination and audio-vestibular test, interpretation of the tests, diagnosis, learning experience in medical and surgical management for otological, audio-vestibular and related structures

**SIOT 682 Head and Neck Diseases and Surgery 2 (1-2-3)**

Diseases and abnormality of voice: hoarseness, vocal cord paralysis, benign tumor of vocal cord, malignant tumor of oral cavity, pharynx, larynx; swallowing abnormality; dysphagia, aspiration, laryngopharyngeal reflux, and neck mass; principle in examination of voice and swallowing examination by using endoscope and special instruments in voice and swallowing clinic; principle in examination of vocal cords, pharynx, trachea and esophagus by using rigid, fiberoptic endoscope and microscope; principle in neck mass aspiration for cytopathology in workshop under related ethical concerns

**SIOT 692 Pediatric Otorhinolaryngology 2 (1-2-3)**

Ear, nose, throat diseases in children related to pathogenesis of immature growth and development of the involved organs compared to adults or congenital anomaly such as upper airway obstruction, childhood deafness which attributable to delayed speech and delayed development

**Elective Courses**

**Major Otorhinolaryngology**

**Credits (Lecture-lab)**

**SIOT 563 Allergy 1 (1-0-2)**

Diseases and disorder in allergic rhinitis, patient care in allergy clinic, variety of allergic investigations, management of allergic rhinitis, practical skill training to use special instruments for examination of nasal allergic diseases and conditions with professional standard and related ethical concerns

**SIOT 564 Rhinology 1 (1-0-2)**

Diseases and disorder of the nose and paranasal sinuses which is not related to allergic rhinitis; Pre-and postoperative care; Surgical skill in patients with nasal diseases and sinusitis with professional standard and related ethical concerns

**SIOT 651 Principle of Out-Patient Care in Otorhinolaryngology 2 (0-4-2)**

Principle of clinical care for out-patients with diseases in ear, nose, throat. Out-patient care including history taking, physical examination in ear, nose, throat and related systems, essential diagnostic approach, appropriate management for outpatients including principle of counseling for patients and relatives; under related ethical concerns

**SIOT 652 Principle of In-Patient Care in Otorhinolaryngology 2 (0-4-2)**

Principle of clinical care for in-patients with diseases in ear, nose, throat; diagnostic approach and appropriate management; inpatient care: observation for patients, clinical course including appropriate continuing care, preoperative preparation, intraoperative and postoperative care suitable for each operation; principle to provide appropriate patient education under related ethical concerns

**SIOT 655 Abnormality of Smell and Taste 1 (1-0-2)**

Diseases and disorder in smell and taste; principle of investigation for smell and taste disorder, practical skill training to use special instruments to diagnose because of smell and taste problem, patient care in smell and taste clinic with professional standard and related ethical concerns



**SIOT 673 Diseases of Ears and Balance Disorders 1 (1-0-2)**

Diseases and disorder in hearing and otoneurology; pre-and postoperative care; patient care in special clinic with professional standard and related ethical concerns

**SIOT 683 Bronchoesophagology 1 (1-0-2)**

Diseases and disorder of head and neck especially tumor in oral cavity, pharynx, larynx and neck; patient care in special clinic, laryngoscopy, bronchoesophagology; pre-and postoperative care; surgical skill in patients with head and neck diseases with professional standard and related ethical concerns

**SIOT 684 Principle of Voice Disorders and Speech Rehabilitation 2 (0-4-2)**

Diseases and disorder of vocal cord; principle of patient care in voice clinic; skill training in using special instruments for vocal cord examination; pre-and postoperative care; surgical skill in vocal cord surgery with professional standard and related ethical concerns

**SIOT 685 Swallowing Disorder 2 (0-4-2)**

Diseases and disorder in swallowing; acid in stomach regurgitated to larynx and pharynx; principle of swallowing training by using endoscope and special equipment; practical training in using special equipments; patient care in special clinic with professional standard and related ethical concerns

**SIOT 686 Principle of Patient care in ENT Theater 2 (0-4-2)**

Basic knowledge of operation in ear, nose, throat, larynx, head and neck region: principle of preoperative evaluation, preoperative, and postoperative care ; gross anatomy and pathophysiology : observe surgical field in operating room and self study

**Thesis**

**Credits (Lecture-lab)**

**SIOT 698 Thesis 12 (0-36-0)**

Principle and concept for research methodology, composition and distillation of research framework, design and conduct of qualitative and quantitative research, mixed model research, research proposal, data collection, analysis and distillation of data, research project evaluation, report writing, research ethics in Otorhinolaryngology

**Thematic Paper**

**Credits (Lecture-lab)**

**SIOT 697 Thematic Paper 6 (0-18-0)**

Identifying and presentation of research proposal, conducting of research, data collection, data analysis, interpretation and discussion of results, writing report in terms of thematics paper, presentation to public with ethical concern in Otorhinolaryngology