

Program Information	
Major (Name of Program)	Phacoemulsification techniques Training
Program Type¹ (For Further Information Regarding Program Types, Please Refer to the Glossary)	Degree Based <input type="checkbox"/> Non-Degree Based <input checked="" type="checkbox"/> (Please specify in one of the next two rows)
Degree Based Level of study² (For Further Information Regarding Degree-Based Levels of Study Please Refer to the Glossary)	Undergraduate <input type="checkbox"/> Master's <input type="checkbox"/> Ph.D. (By Coursework and research <input type="checkbox"/> By research <input type="checkbox"/> Specialty <input type="checkbox"/> Subspecialty <input type="checkbox"/>
Non-Degree Based Level Of Study² (For Further Information Regarding Non-Degree Based Levels of Study, Please Refer to the Glossary)	Fellowship <input type="checkbox"/> Post-Doctorate <input type="checkbox"/> Short-Term Training Program <input checked="" type="checkbox"/> (Duration: 3 Months) Medical Elective (Clinical Rotation/Internships) <input type="checkbox"/> Summer Program <input type="checkbox"/> Other <input type="checkbox"/> (Please specify)
School/Research Center	1- Department of Ophthalmology, School of Medicine 2- Poostchi Ophthalmology Research Center
Department	Department of Ophthalmology
Brief Description of the Major/Study Program (300 to 1000 Characters)	<p>Cataract remains the leading cause of avoidable blindness worldwide. Phacoemulsification is the preferred technique for cataract surgery. Our program is a short-term training program that lasts 3 months. During this period, the applicants will be trained to do phacoemulsification in different situations and conditions such as cataract surgery in the setting of corneal opacification, cataract surgery in the cases of glaucoma, etc. The attendees will be assigned with different surgeons of our department (1-2 weeks for each surgeon). They will attend both the operation room and our ophthalmology clinic to gain a thorough comprehension of the management concept of cataractous patients. It must also be noted that the attendees cannot perform any operation or procedure rather they participate in the program as an observer and under the supervision of assigned interns.</p>
Keywords (At Least 3)	Phacoemulsification, Cataract, Surgery

Program Approach	Theoretical <input type="checkbox"/> Practical <input type="checkbox"/> Mixed <input checked="" type="checkbox"/>
Related Website/Webpage (If Any)	www.gsia.sums.ac.ir
Capacity (Number of International Students for Each Academic Year)	Minimum: 1 ophthalmologist for each period Maximum: 2 ophthalmologists for each period
First Admission Round for This Academic Year (2019-2020)	September 23, 2019
Language Requirements ³	Please refer to the Glossary.
Admission Requirements⁴ <small>(For Further Information Regarding Admission Requirements, Please See the Glossary)</small>	<ul style="list-style-type: none"> • Most recent academic degree, which is required to be on ophthalmology • Transcript of records

Complete Description (Curriculum) of the Major/Study Program

Name of the Program	Phacoemulsification
Duration	3 months
Course Schedule	<p>First Week: Theoretical study of Phaco Machine and its setting (operation room)</p> <p>Second Week: General principles of phacoemulsification and using eye simulator (operation room)</p> <p>Third Week: Patient selection (SUMS Clinic)</p> <p>Fourth Week: Phaco incisions on patients' eyes (operation room)</p> <p>Fifth Week: Capsulorrhexis technique performed on patients' eyes (operation room)</p> <p>Sixth Week: Capsulorrhexis and hydro dissection technique applied to Real-life eye surgery (operation room)</p> <p>Seventh Week: Different techniques of Phacoemulsification applied to Real-life eye surgery (operation room)</p> <p>Eights Week: Different techniques of Phacoemulsification applied to Real-life eye surgery (operation room)</p> <p>Ninth Week: Surgical removal of eye-cortex (irrigation & aspiration) (operation room)</p> <p>Tenth Week: An introduction to implantable intraocular lenses (SUMS Clinic)"</p> <p>Eleventh Week: Implantation of intraocular lenses (operation room)</p> <p>Twelfth Week: Common side effects of phacoemulsification surgery (SUMS Clinic)</p>
Tuition Fee	1600 USD per 3 months

Contact Info (Program Coordinator)	
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Contact Person	Ali Azimi, M.D.

Glossary

¹Program Type

- To apply for B.Sc., M.D., Pharm.D., D.D.S., M.Sc., Ph.D., Specialty, and Sub-Specialty programs, please check our website at www.gsia.sums.ac.ir.
- The applicants should check non-degree programs at www.gsia.sums.ac.ir if they are intended to apply for SUMS Fellowship, Post-Doctorate, Short-Term Training, Medical Elective, and Summer Programs.

²Level of study

- Bachelor of Science (B.Sc.) is a four-year undergraduate program.
- Doctor of Medicine (M.D.) is a seven-year undergraduate program on general Medicine.
- Doctor of Dental Medicine (D.M.D.) is a six-year undergraduate program on Dentistry.
- Doctor of Pharmacy (Pharm.D) is a six-year undergraduate program on Pharmacy.
- Master of Science (M.Sc.) is a two- to three-year graduate program.
- Doctor of Philosophy (Ph.D.) is a three- to five-year graduate program. Including:
 - ✓ Doctor of Philosophy Ph.D. by coursework & research includes two years of Ph.D. courses, a comprehensive exam, and then 2 to 2.5 years of Ph.D. research.
 - ✓ Ph.D. by Research includes 12 credits of Ph.D. courses and then the rest of Ph.D. program would be research oriented.
- Specialty (Residency) is a three- to five-year graduate program offered to MD/MBBS degree holders.
- Subspecialty is a two- to three-year graduate program offered to specialty degree holders.
- Fellowship is a graduate program offered to specialty or subspecialty degree holders.

³Language Requirements

- SUMS minimal requirements for English language proficiency for undergraduate admission is a band score of 5.5 on IELTS, or a score of 69 on the TOEFL iBT or 525 on the TOEFL PBT. The following individuals are exempted from providing a certificate of English proficiency:
 - Applicants who are natives of English speaking countries
 - Applicants whose language of instruction in their previous degrees has been English.
- SUMS minimal requirements for English language proficiency for graduate admission is a band score of 5.5 on IELTS, or a score of 72 on the TOEFL iBT or 533 on the TOEFL PBT (or its equivalent in TOEFL). The following individuals are exempted from providing a certificate of English proficiency:
 - Applicants who are natives of English speaking countries
 - Applicants whose language of instruction in their previous degrees has been English.

NOTE 1: Please note that applicants from/educated in Persian Speaking countries (They shall both speak and write in Persian) who have applied for Degree-based programs may be exempted, based on the decision of the department, from submitting any certificates regarding their English Language Proficiency. Nevertheless, they are required to hand in their English Language Certificate which shall meet SUMS minimal language proficiency requirements, within one year from commencing their studies at SUMS.

NOTE 2: Language proficiency level for non-degree program applicants can be determined through online or in-person interviews at the respective department's discretion.

4 Admission Requirements

Degree Based Programs

Undergraduate applicants are required to provide us with Secondary School Certificate (SSC) and Higher Secondary School Certificate (HSSC), or their equals.

Graduate applicants who are applying for **M.Sc. level** should provide us with B.Sc. degree, SSC, and HSSC (Higher Secondary School Certificate) along with their official transcripts of records.

Graduate applicants who are applying for **Ph.D. level** should provide us with M.Sc. and B.Sc. degrees along with their official transcripts of records.

Graduate applicants who are applying for **Specialty level** should provide us with M.B.B.S./M.D. degree or its equivalent along with its official transcript of records. They should also submit their Certificate of Practice (COP)/Certificate of Internship.

Graduate applicants who are applying for **Subspecialty** should provide us with M.B.B.S./M.D. or its equivalent, and Specialty degree along with their official transcripts of records. They should also provide their Certificate of Practice (COP)/Certificate of Internship.

Non-Degree Based Programs

Academic Degrees and their Transcripts of Records for the applicants of Non-Degree Programs (Post-Doctorate, Fellowship, Short-Term Training, Medical Elective, and Summer Programs, etc.):

The applicants of Non-Degree Programs should submit their prior academic degree(s) along with the pertinent official transcript(s) of records.

Please note that applicants who are applying for Fellowship level should provide us with M.B.B.S./M.D. or its equivalent, and Specialty degree along with their official transcripts of records. They should also provide their Certificate of Practice (COP)/Certificate of Internship.