



# SANKARA NETHRALAYA ELITE SCHOOL OF OPTOMETRY KOLKATA

In Affiliation with  
Maulana Abul Kalam Azad  
University of Technology  
West Bengal



**NEW TOWN, KOLKATA**

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Dear friends

I am thrilled to share an exciting development in our ongoing commitment to advancing the field of optometry and enhancing the quality of eye care. We proudly announce the establishment of a new college of Optometry, **"Sankara Nethralaya Elite School of Optometry" (SNESO)** at Kolkata, which will serve as a beacon of excellence in optometric education, research, and patient care.

As many of you know, our current institution has built a strong reputation for training skilled optometrists, conducting cutting-edge research and offering world class clinical and community outreach care. The new College of Optometry in Kolkata, the SNESO, represents a significant step forward in our mission to expand these efforts, foster innovation, and meet the growing needs of our community and beyond.

The decision to launch a new College of Optometry in Kolkata reflects our dedication to addressing the growing demand for highly skilled optometrists and our belief in the potential of this vibrant city to lead in the field of eye care. As Kolkata continues to grow as a hub of education and innovation, our new institution will contribute to its reputation by offering cutting-edge laboratories, simulation centers, and clinical spaces designed to provide an exceptional learning experience and support the highest standards of research and practice.

The institutions will also provide opportunities for groundbreaking research and innovation, driving progress in eye care and addressing both local and global challenges. As a major step, the institution's initiatives are aimed at improving eye health and access to care within Kolkata and its surrounding areas, fostering a healthier community.

Our vision for this new college is to create an environment where academic excellence, clinical expertise, and community service converge. We are committed to building strong partnerships with local healthcare providers, industry leaders, and academic institutions to ensure that our programs are relevant, impactful, and responsive to the needs of the community.

As we embark on this exciting journey, we invite all stakeholders—faculty, students, alumni, and community members, and well-wishers—to join us in shaping the future of optometry education in Kolkata. Your support, insights, and collaboration will be instrumental as we strive to make a meaningful difference in the field of eye care.

Thank you for your continued dedication and enthusiasm. Together, we will build a legacy of excellence and innovation that will benefit generations to come.

Warm regards,

**Dr N Anuradha**

Principal

Sankara Nethralaya Elite School of Optometry, Kolkata

Elite School of Optometry, Chennai, India



## Elite School of Optometry

39 years of excellence in optometry education. The Elite School of Optometry, popularly known as ESO in the optometry field, is the first and leading college of optometry in India offering undergraduate, postgraduate and doctoral degree in Optometry.

### Sankara Nethralaya Elite School of Optometry, Kolkata



The legacy of Sankara Nethralaya began in Chennai, founded by Dr. S. S. Badrinath in 1978 with the blessings of the spiritual leader, Kanchi Kamakoti Peetham's Sri Jayendra Saraswathi Swamigal. Over the years, it has grown into one of India's most respected eye care institutions, renowned for its comprehensive eye care services, research contributions, and educational programs.

Sankara Nethralaya's New Town Rajarhaat Campus in Kolkata is a leading eye care institution, known for its advanced facilities and outstanding medical expertise. This campus offers a wide range of comprehensive eye care services, including state-of-the-art diagnostics, therapeutic interventions, and surgical treatments. Committed to high-quality patient care, the facility also engages in groundbreaking research and provides robust educational programs in optometry and ophthalmology. Positioned in the rapidly growing area of New Town Rajarhaat, it serves as an essential center for eye care excellence in the region.

With growing demand of eye care needs in India, professionally trained optometrists are highly in need. To meet this Sankara Nethralaya Elite School of Optometry, Kolkata affiliated to Maulana Abul Kalam Azad University of Technology has emerged with 4-year optometry program

### Why Optometry?

West Bengal has a prevalence of blindness and vision impairment of about 1.87% and 11.65% respectively according to the National Blindness and Vision Impairment Survey 2015-19. Eye health delivery is a team effort with active roles played by ophthalmologists, optometrists and opticians.

Every individual, whether a child, young adult, middle aged and geriatric aged, require an intervention of an optometrist throughout their lives. To cater to this enormous need, the number of available optometrists is less.

The need for quality optometric professionals was long realized and the first modern college of optometry was started in 1985 by Elite School of Optometry in Chennai, India. A pioneer in this field, Elite School of Optometry has begun a new chapter in West Bengal.

### What is Optometry?

World Council of Optometry defines "Optometry as a healthcare profession that is autonomous, educated, and regulated (licensed/registered), and optometrists are the primary healthcare practitioners of the eye and visual system who provide comprehensive eye and vision care, which includes refraction and dispensing, detection/diagnosis and management of disease in the eye, and the rehabilitation of conditions of the visual system".



## Specialties of Optometry:

Optometrists contribute to managing the refractive, low vision care, contact lens, binocular vision services apart from the occupational and community optometry services. There are also other specialty services like neuro-optometry, sports optometry etc. that requires the competence of optometrists. Optometrists also specialize in handling diagnostics to help detect ocular conditions early.

The campus is currently situated at the Sankara Nethralaya, Newtown, Rajarhat, Kolkata. This building houses all the classrooms, labs, library, Seminar hall and the administrative office.



### Biochemistry Lab

Students will be able to analyze, identify and estimate biochemicals of importance in health and disease. Students learn the main aspects of the metabolism of major biochemicals in the body and techniques like electrophoresis.



### Optics Lab

Students will be trained to have a clear understanding of image formation, the simple imaging concepts in single lenses and mirror.



### Dispensing Optics Lab

The students are trained to make lens blanks skillfully and the fitting of these blanks in the frame.



### Computer Lab

A lab with 24 hour internet access is available. Students are taught the basics in computers and Visual Basic.





## Seminar-Cum-Videoconferencing Hall

The seminar hall with videoconferencing facility provides an opportunity for the students to update themselves with the recent advances in Optometry by attending to the lectures of eminent professors.

### Highlights

- ❖ 3000 hours of clinical training
- ❖ 3000 patient encounters in OPD and Specialty
- ❖ Associated with nationally acclaimed community out reach programs
- ❖ Exposure to research in undergraduate program
- ❖ Interaction with international faculty and students - virtual grand rounds
- ❖ Placements in renowned institutions across the globe



## B. Optometry Syllabus

### FIRST SEMESTER

#### THEORY

SL.NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
1	BO-101	Geometrical Optics (Optics I)	3	1		4	4
2	BO-102	Physiology (General)	3	1		4	4
3	BO-103	Anatomy (General)	3	1		4	4
4	BO-104	Biochemistry (General & Ocular)	3	1		4	4
5	BO-105	Professional Communication in English	3	1		4	4
Total of Theory						20	20
PRACTICAL							
1	BO-192	Physiology (General)			4	4	4
2	BO-191	Geometrical Optics-1			4	4	4
3	BO-193	Anatomy			4	4	4
Total of Practical					12	12	12
Total of Semester					32		32

### SECOND SEMESTER

#### THEORY

SL.NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
1	BO-201	Physical Optics (Optics II)	3	1		4	4
2	BO-202	Physiology (Ocular)	3	1		4	4
3	BO-203	Anatomy (Ocular)	3	1		4	4
4	BO-204	Environment & Ecology	3	1		4	4
5	BO-205	Computer Fundamentals & Programming	3	1		4	4
Total of Theory						20	20
PRACTICAL							
1	BO-291	Physical Optics II			4	4	4
2	BO-293	Anatomy (Ocular)			4	4	4
3	BO-295	Computer			4	4	4
Total of Practical					12	12	12
Total of Semester					32		32



## THIRD SEMESTER

### THEORY

SL.NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
1	BO-301	Visual Optics (Optics III)	3	1		4	4
2	BO-302	Lighting & the Eye	3	1		4	4
3	BO-303	Medical pathology & Microbiology (General & Ocular)	3	1		4	4
4	BO-304	Pharmacology	3	1		4	4
5	BO-305	Ophthalmic & Optical Instrumentation & Procedure I	3	1		4	4
Total of Theory						20	20
PRACTICAL							
1	BO-393	Microbiology & Pathology			4	4	4
2	BO-395	Optical & Ophthalmic Instrumentation			4	4	4
3	BO-392	Lighting & the Eye			4	4	4
Total of Practical					12	12	12
Total of Semester					32		32

## FOURTH SEMESTER

### THEORY

SL.NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
1	BO-401	Visual Optics (Optics IV)	3	1		4	4
2	BO-402	Ophthalmic & Optical Instrumentation & Procedure II	3	1		4	4
3	BO-403	Clinical Refraction I	3	1		4	4
4	BO-404	Ocular Disease I (Anterior Segment Disease)	3	1		4	4
5	BO-405	Ophthalmic Lens & Dispensing Optics	3	1		4	4
Total of Theory						20	20
PRACTICAL							
1	BO-492	Optics & Ophthalmic instrumentation II			4	4	4
2	BO-493	Clinical Refraction Practical			4	4	4
3	BO-495	Ophthalmic Lens & Dispensing Optics Practical			4	4	4
Total of Practical					12	12	12
Total of Semester					32		32



## FIFTH SEMESTER

### THEORY

SL.NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
1	BO-501	Binocular Vision & Ocular Motility	3	1		4	4
2	BO-502	Contact Lens I	3	1		4	4
3	BO-503	Clinical Refraction II	3	1		4	4
4	BO-504	Ocular Disease II (Posterior & Neuro-eye Disease)	3	1		4	4
5	BO-505	Low Vision Aids & Visual Rehabilitation	3	1		4	4
Total of Theory						20	20
PRACTICAL							
1	BO-592	Contact Lens -I			4	4	4
2	BO-593	Clinical Refraction II			4	4	4
3	BO-595	Low Vision Aids & Visual Rehabilitation			4	4	4
Total of Practical					12	12	12
Total of Semester					32		32

## SIXTH SEMESTER

### THEORY

SL.NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
1	BO-601	Systemic Condition & the eye	3	1		4	4
2	BO-602	Public Health & Community Optometry	3	1		4	4
3	BO-603	Biostatistics	3	1		4	4
4	BO-604	Contact Lens II	3	1		4	4
5	BO-605	Professional Practice Management	3	1		4	4
6	BO-606	Applied Optometry & Orthoptics	3	1		4	4
Total of Theory						24	24
PRACTICAL							
1	BO-694	Contact Lens-II			4	4	4
2	BO-696	Applied Optometry & Orthoptics			4	4	4
Total of Practical					8	8	8
Total of Semester					32		32

## Programme Highlights

- ❖ B.Optomety is a four year program (3 years of academics & 1 year of internship)
- ❖ Extensive clinical training in all the branches of Sankara Nethralaya
- ❖ State-of-the art laboratory, smart classroom video conferencing facilities.
- ❖ Speciality training on Contact Lenses, Low Vision Care, Vision therapy, Orthoptics, Paediatric Clinics, Computer vision clinic and all diagnostic procedures like Biometry, Visual Field Analysis, Electro diagnostics, OCT and LASIK investigations.
- ❖ Opportunity to participate in mass vision screening programmes serving the community.
- ❖ Opportunity to participate in National and International Conferences in Optometry.
- ❖ Scope for higher studies in India and abroad.

## Career Opportunities

- ❖ Optometry is a rewarding and interesting career that gives an opportunity to provide important healthcare services.
- ❖ The scope for optometric practice in India and abroad is great. Optometrists practice independently, in eye hospitals, in group practices with other eye care professionals, ophthalmic industry and work in teaching (Optometry colleges) and research settings.
- ❖ Optometrists work in a general practice, specialized practice such as contact lenses, geriatrics, low vision services (for visually impaired patients), occupational vision (to protect and preserve workers' vision and minimize eye strain), pediatrics, sports vision or vision therapy.





## Eligibility for Bachelor of Optometry

- ❖ Students who have Passed 10+2 Higher Secondary Examinations from a Recognised Board in Science Stream.
- ❖ Subject combination eligibility: Physics + Chemistry + Biology and/or Mathematics.
- ❖ Appeared CET, MAKAUT.

## How to Apply

- ❖ Information regarding the application process and program details can be downloaded
- ❖ Duly filled application form should be submitted online.
- ❖ The admission committee will review the application form and you will be invited for the selection process. For further details contact the administrative office.
- ❖ Download admission form from our website – [www.snesokolkata.org](http://www.snesokolkata.org)

### AFFILIATION



**Bachelor of Optometry (B.Optom) 4 Years ( 8 Semesters)**

3 years (Theory + Practical) + 1 year (Internship)

**Fee Structure - Rs. 70,000 / Semester**

### Contact us:

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