

Extending excellence in eye care  
Education  
at  
LVPEI

# Bachelor of Science in Optometry



**Bausch & Lomb School of Optometry**  
**LV Prasad Eye Institute**  
Hyderabad, India

# What is Optometry?

Optometry originates from two Greek words – *optos*=sight and *metron*=to measure. Optometry is an autonomous and regulated (licensed or registered) health care profession.

## Who is an Optometrist ?

Optometrists are primary health care practitioners who provide comprehensive eye and vision care. Their expertise includes measuring the optical power of the eye, and refraction and dispensing optical devices like contact lenses, low vision aids, etc. They can detect, diagnose and manage eye diseases, and help rehabilitate individuals with irreparable vision loss.



## Are Optometrists and Ophthalmologists the same?

An Optometrist is different from an Ophthalmologist or a dispensing optician. An Optometrist performs non-surgical evaluation and management of vision while an



Ophthalmologist specializes in eye surgery. In India, Optometrists can practice all aspects of eye care, except prescribe drugs and perform surgery. In western countries like USA and Canada, Optometrists are allowed to prescribe drugs and do some forms of invasive surgery. Optometrists work together with Ophthalmologists and Opticians towards the unified goal of combating blindness.

# What does an Optometrist do?

Optometry is a rewarding career option for individuals with interest in patient care, clinical and basic-science research, education and administration. Today, Optometry is among the top 10 income-earning professions in Indian and abroad. It is estimated that there are only about 8000 fully-qualified Optometrists in India, amounting to approximately one Optometrist for every 1.25 lakh population (source: [www.optometryindia.com](http://www.optometryindia.com)). There is a need for at least 30,000 qualified Optometrists in India to provide quality eye care to every person in our country. There is, therefore, a huge demand for fully qualified Optometrists in a developing nation like India.



## Service delivery

Optometrists can work as **patient care providers** in an independent private practice, at eye-specialty hospitals or by engaging in public health-related activities at the community level. They prescribe contact lenses and low vision devices, or manage the eye health of a niche population such as infants and children (pediatrics) or sports personnel.

## Scientific research

Optometrists can also pursue **cutting-edge basic science and clinical research** that adds to our knowledge of vision disorders and promotes newer diagnostic and management strategies for managing them. There are many opportunities to pursue postgraduate education [Master of Science (MS), Doctorate (PhD), Doctor of Optometry (OD)] in world-renowned universities within India and in Australia, Canada, UK and USA. At least a dozen graduates of LVPEI's BLSO are now pursuing post graduate education in world renowned institutions.





## Academics

As **educators**, Optometrists can teach at various Optometry schools across India. The need for well-trained Optometrists is ever increasing in India and there are at least a dozen schools of Optometry. Graduates of LVPEI's BLSO can - and have - taken up teaching positions at these schools, training the future generation of qualified Optometrists.

## Management and marketing

Optometrists can also function as **administrators and marketing professionals** in industry settings such as contact lens and spectacle manufacturing, optical devices manufacturing and pharmaceuticals. Optometrists have an advantage as they can address the product design both from the patient's and the industry's perspective.



# Where can I study Optometry?



Many institutions across India offer diploma, undergraduate and postgraduate courses in Optometry. The LV Prasad Eye Institute (LVPEI) in collaboration with the Birla Institute of Technology & Science (BITS), Pilani, offers a 4-year comprehensive undergraduate Bachelor of Science (BS) program in Optometry. The program is conducted at the Institute's Bausch & Lomb School of Optometry (BLSO) located at LVPEI's Kismatpur campus, Hyderabad.

## Who is eligible for the bachelor's degree program offered by LVPEI and BITS-Pilani?

Candidates with an Intermediate BiPC or MPC with a minimum of 60 % marks are eligible to apply. Applications have to be sent to BITS, Pilani, after the notification appears in the newspapers. Admission exams and interviews are held in July. The course begins on the first Monday of the month of August.

See also, the website of BITS: <http://discovery.bits-pilani.ac.in/index.html>

## What is the program's curriculum?

The first three years of education at BLSO is a combination of didactic lectures and practical training in the clinic. The final year comprises entirely of clinical training ("internship") at LVPEI wherein students get hands-on experience in diagnosing and managing the most complicated eye disorders.

LVPEI is a world class teaching and research hospital with globally renowned clinicians and cutting edge equipment. Students are exposed to international faculty and national conferences. The range of patients at LVPEI gives young Optometrists

exposure to an extremely large array of eye diseases and solutions. Since rehabilitation of those with incurable vision impairment is an integral part of the institute, Optometrists also learn about low vision rehabilitation and sight enhancement. In short, a varied and ideal learning environment.



## The Bausch & Lomb School of Optometry

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BLSO was established in 2000 with the generous support of Bausch & Lomb, USA, in a six-acre campus located in lush surroundings. The BLSO campus with its well designed classrooms, library and amphitheatre makes it an ideal environment for knowledge enrichment.

The campus is equipped with state-of-the-art audio-visual facilities, optical and dispensing laboratories, a clinic for training students and a tele-connectivity link for connecting this campus with other campuses in the LVPEI network for lectures and other activities. BLSO also has a resource center with standard textbooks and reference books, compact discs and vision-related scientific journals. These resources can be accessed in an air-conditioned reading room on all days from 6.00 till 22.45 hrs. In-house computing facility is also available, with free access to the Internet, for academic activities. The campus has a cafeteria, separate hostels for boys and girls (shared accommodation, common bathrooms) and sports and recreational facilities.

# Faculty

Prof P K Sai Prakash

Dr Shrikant R Bharadwaj

Dr Archana Bhargava

Beula Christy

Dr Vijaya K Gothwal

Korani Jyothi

S Krishnaiah

Srinivas Marmamula

Dr Suma Nalamada

Dr Vanita Pathak-Ray

Vijaya L Ramam

T Shyamsunder

M Srikanth

Sangeetha Srinivasan

Preeji M Sudharman

Jachin DWilliams

Vijay Kumar Yelagondula





**For more information, please contact:**

Bausch & Lomb School of Optometry

**LV Prasad Eye Institute**

Kismathpur Campus

Don Bosco Nagar PO

Near Kali Mandir, Rajendra Nagar

Hyderabad 500086, India

Tel No: Tel: +91 40 30615801, 30615802

Fax No: + 91 40 24011293

E-mail: [saiprakash@lvpei.org](mailto:saiprakash@lvpei.org), [vijay@lvpei.org](mailto:vijay@lvpei.org)

Web: [www.lvpei.org](http://www.lvpei.org)