RIDLEY COLLEGE OF OPTOMETRY

Information Brochure

B. Optom (B.Optometry) Course

3 years of academics + 1 year internship

Affiliated to

Srimanta Sankardeva University of Health Science

Attached to - Chandraprabha Eye Hospital
KK Handique Path, Jorhat, Pin - 785001 (Assam)
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RIDLEY COLLEGE OF OPTOMETRY

Ridley College of Optometry, situated on K.K. Handique Path in Jorhat, Assam, is dedicated to providing quality education in the field of optometry. Affiliated with Srimanta Sankaradeva University of Health Sciences, Guwahati, the college offers a Bachelor of Science (B.Optom) in Optometry, a comprehensive four-year program that includes a three-year undergraduate curriculum followed by a one-year internship.

The institution boasts a compact campus spanning 0.11 acres and is supported by a eminent faculty members who provide specialized guidance to students pursuing careers in eye care. The college's well-stocked library serves as a valuable resource center, housing a wide range of materials pertinent to optometry studies. Additionally, the institution is equipped with modern IT infrastructure, facilitating contemporary learning methods and keeping students abreast of the latest technological advancements in the field.

In terms of healthcare, the college provides on-campus medical facilities with first-aid support to address any immediate medical needs of students. The B.Optom program is meticulously designed to impart both theoretical knowledge and practical skills essential for diagnosing and treating various eye disorders, thereby preparing students for successful careers in optometry. Admission to this program requires candidates to have completed their higher secondary education with a focus on science subjects, particularly biology and physics, reflecting the program's emphasis on a strong scientific foundation.

CHANDRAPRABHA EYE HOSPITAL

Chandraprabha Eye Hospital (CPEH) is a mission to provide state of the art eye care to the people of Assam and North East.
To provide the promised service, the hospital has a dedicated and well trained team of medical and paramedical staff. The best in the class equipments imported from Europe, USA, Japan and a system which ensures hassle and error free service. All these are provided at an affordable and economic cost.

LOCATION

Hospital is located at KK Handique Path in the centre of Jorhat Town. The hospital is well cmmunicated by rail, road and air.

SERVICES PPROVIDE

Modern eye care demands multispecialty approach with trained ophthalmologists in various sub-specialities. CPEH offers complete eye care from normal eye examination to complex Phacoemulsification & Vitreo-Retinal surgery. Services like Cataract, Glaucoma, Cornea, retina and Vitreous, Uvea, Oculoplastics, Sagar laser vision, Paediatric Ophthalmology/Optometry are provided using the latest and proven developments in medical science & technology. Also eye bank donation programs are held in our own Jeuti Eye Bank.

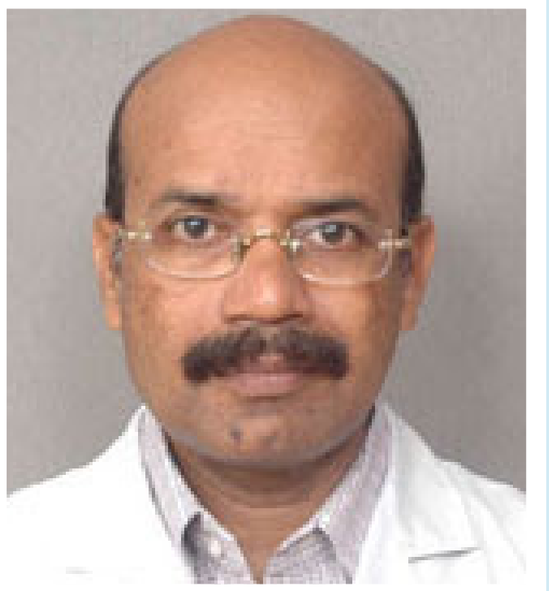
First NABH Eye Hospital in North-East

ABOUT THE PRINCIPAL

Dr. Narayan Bardoloi
DO (Ophthalmology)

The Medical Director of CPEH is also the Principal of RCOJ. Dr. Narayan Bordoloi is one of the most renowned Ophthalmologist in the North-Eastern region. Dr. Bordoloi is the first to introduce Phacoemulsification surgery in Jorhat in 1996 and the first one in Assam to present a paper on Phacoemulsification entitled “Chopping in the learning stage of Phacoemulsification" at Asia Pacific IOL and Refractive Conference held at New Delhi in 1997 and AIOS conference at Guwahati in 1998. Trained by A.R.Vasavada, Dr. Bordoloi is also the first to start the Phacoemulsification under topical anaesthesia in Assam.He has so far presented 35 papers in National conferences, 38 in state conferences and 3 in International conferences.Besides Cataract, Cornea and Glaucoma are other specialities that Dr. Bordoloi practices. He is also the Medical Director of Jeuti Eye bank, Jorhat and is instrumental in initiating eye donation movement in Assam.

FROM THE PRINCIPAL'S DESK



Dr. Narayan Bardoloi
DO (Ophthalmology)

Optometry is one of the most exciting and upcoming branch in modern health profession. It is a very important part of vision science which is dominating the present day clinical research in the world. Optometry and Ophthalmology are two diferent branches in Eye health care which compliments each other. Ophthalmologists take care of the diseases of the eye while Optometry looks after vision related and diagnostic issues like refraction, glasses, Contact lens, Low Visual Aids, Ocular Physiological Tests ERG, EOG, VEP, Corneal Topography etc. In many American states Optometrists are allowed to do Laser procedures to correct refractive error.

In a recent survey in America, Optometry is ranked as the 5th most sought after profession. Till 1990 Optometry was a low key profession in India as people basically consulted ophthalmologists for all their eye related problem. With the advent of modern eye care institutes like LVPEI, Hyderabad, Sankara Netralaya, Chennai, RP centre for Opthalmic Sciences, AllMS, New Delhi and establishment of premiere Optometry institutes like Elite School of Optometry, B & L school of Optometry, the profession received a big uplift. No Modern Ophthalmolgy practice, be it in individual or hospital based, can survive without the involvement of optometrists. Modern eye hospital employ double the number of optometrists than that of ophthalmologists.

Ridley College Optometry was established in 2011 in a view to introduce this very important career amongst the students of Assam and North East India this is the first of its kind in Assam. The college was prompty affliated by Srimanta Sankaradeva University, Assam. The is one of the very few Optometry Colleges in India to be affiliated by a Govt University. Ridley College of Optometry has been able to create a very high opinion of it's standards amongst the eye health care professionals all over India.

FROM THE ACADEMIC IN-CHARGE'S DESK

Mr. Pritam Dutta
M.Optom
Fellow of American Academy of Optometry
PhD (Pursuing, SSUHS)

Optometry is a dynamic and evolving healthcare profession that plays a crucial role in eye care and vision health. At Ridley College of Optometry, we strive to nurture the next generation of optometrists by providing a comprehensive curriculum, hands-on clinical training, and research opportunities. Our institution not only prepares students to be skilled clinicians but also encourages them to explore diverse career pathways, including higher education, research, corporate sectors, and public healthcare services.

Optometry is more than just prescribing glasses and contact lenses; it is a science-driven field that encompasses ocular disease management, vision therapy, low vision rehabilitation, and advanced diagnostic techniques. With the increasing prevalence of myopia, glaucoma, diabetic retinopathy, and other vision-related disorders, the demand for trained optometrists is growing exponentially. The profession offers an intellectually rewarding and socially impactful career, with opportunities to contribute to public health and technological advancements in eye care.

For students inclined toward academic excellence and innovation, optometry offers immense opportunities in higher education and research. Pursuing postgraduate studies, such as Master's and Ph.D. programs, allows students to specialize in areas like neuro-optometry, myopia control, and ocular surface disease. At Ridley College of Optometry, we actively promote research initiatives, enabling students to engage in clinical trials, collaborate with interdisciplinary teams, and contribute to scientific advancements. Research not only strengthens clinical acumen but also opens doors to academic positions in reputed universities and global research institutions.

The corporate sector is another promising avenue for optometrists. Companies specializing in ophthalmic lenses, contact lenses, optical instrumentation, and pharmaceutical products actively seek optometry graduates for research, product development, clinical trials, and technical consultation roles. Leading brands in the eye care industry, including multinational corporations, offer positions in research and development, professional services, and marketing. Corporate optometry also extends to retail chains, where optometrists play a key role in enhancing patient care and customer experience.

Optometry graduates can explore employment opportunities in government hospitals, public health programs, and military healthcare services. Several government initiatives focus on preventable blindness, school eye health programs, and rural eye care, creating demand for skilled professionals. In private healthcare, optometrists are integral members of ophthalmology teams, working in hospitals, specialty clinics, and tertiary eye care centers. They contribute significantly to pre- and post-operative management, diagnostic evaluations, and patient education.

For those passionate about social service, NGOs and charitable organizations provide a platform to work on blindness prevention programs, mobile eye clinics, and community-based rehabilitation. These roles allow optometrists to make a significant impact by bringing quality eye care to underserved populations.

OPTOMETRY - A PRIMARY HEALTH CARE PROFESSION

Optometry is a health care profession that is autonomous, educated and regulated (licensed/registered), and Optometrists are the primary health Care Practitioners of the eye and visual system to 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. The name Optometry comes from the greek words opsis that means "view" and metron that means "something used to measure".

WHAT DOES AN OPTOMETRIST DO?

Optometrists specializes in the examination, diagnosis, treatment, management and prevention of disease and disorder of the human visual system, the eye and the associated structure.

Along with regular eye examination, Optometrists may also:

- Prescribe glasses and contact lenses
- Rehabilitate the visually impaired
- Diagnose and treat ocular diseases
- Perform comprehensive examination of both the internal and external structure of the eye
- Evaluate patient's vision and determine appropriate treatments
- Treat clarity problems or eye disease
- Diagnose complications due to ageing process, accidents or malfunction.

CAREER OPTIONS AVAILABLE IN OPTOMETRY

- Optical chains/outlets of the private sector
- Section of eye hospital and clinics
- As a faculty in Optometry college
- Researchers in the different specialities of Optometry (Clinical Optometry, Binocular vision, Low vision, Contact lens, Dispensing optics, Paediatrics and Geriatrics Optometry etc)
- Independent consultants to industry and institution
- As entrepreneurs setting up and planning their own Optometry establishments/chains cum optical outlets
- Job opportunities with eye care companies like Bausch & Lomb, Essilor, Zeiss, Ciba vision, AMO, Titan eye plus, Reliance, Johnson & Johnson etc start own specialty clinic like Contact lens, Low vision, Orthoptics
- Start manufacturing unit to make ophthalmic lenses/spectacle lenses
- Avail overseas job opportunities
- For those interested in higher studies, post graduation in the form of fellowship as well as masters and PhD programs are available in India and overseas
- Administrative career after MBA in Ophthalmic optics.

WHY CHOOSE OPTOMETRY AS A CAREER??

Have you ever heard about more than 100% placement?? Optometry is the only profession which is fulfilling this dream of many medical aspirants. In optometry we commonly come across the statement of "more than 100% placement," which means that a student of Optometry after graduating (i.e completing his/her four year degree course) is free to chooselselect from a variety of jobs that will be offered to him/her on completion of his/her course. Eye doctors are best known for prescribing patients the correct contacts or glasses, but they are also specialized in diseases and conditions of the eyes that affect vision.

All of our ex-Ridleyans have been absorbed in most of the eye hospital, clinics, MNCs (Himalaya optical, Titan eye plus, Essilor, Bausch & Lomb, Johnson & Johnson, Alcon, etc), some of them have also gone to pursue their higher studies.

According to the US news World report the score card of an Optometrist was given 7.6 out of 10 which ranked the profession of Optometry in the 9th position in best health care job around the world. The bureau of labour statistics predicts that the profession will grow by about 27% or eleven thousand new jobs from 2014 to 2024.

Aging baby boomers, who are more likely to have vision problems or conditions like Macular degeneration, are helping to drive the expected employment growth. But so are people with chronic health issues like Diabetes, who rely on Optometrist to monitor and treat the way their disease affects their vision.

EX - RIDLEYANS SPEAK

Ms. Sagarika Bordoloi
B.Optom (BO17)
M.Optom

My journey in optometry has been shaped by a solid foundation built at Ridley College of Optometry. I completed my Bachelor of Optometry (2013-2017) there, and it was during my time at Ridley that I gained essential clinical knowledge and hands-on experience at Chandraprabha Eye Hospital. Serving as a clinical optometrist at CPEH for a year further honed my skills and deepened my passion for eye care. The opportunity to work directly with patients, alongside skilled mentors, was transformative and gave me a comprehensive understanding of the field.

Driven by a desire to expand my expertise, I pursued my Master of Optometry, which opened new opportunities for me. Today, I am into scientific education at Alcon India, where, I am dedicated to enhancing clinical understanding, providing training and support in the field of Phaco surgery. My experiences at Ridley laid the groundwork for this role, allowing me to blend clinical knowledge with innovative technologies to improve patient outcomes.

For future optometry students, I encourage you to embrace every learning opportunity, whether in the classroom or the hospital. The skills and insights gained at Ridley and CPEHwill set you on a path to success in this dynamic field.

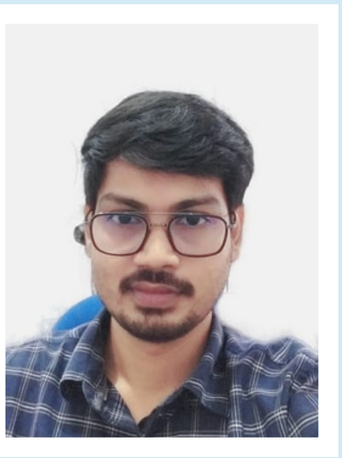
Coming straight out of 12 th exams, I had no previous knowledge of this course or had no idea what it was all about and how I be able to gasp everything and perform as required but stepping onto the campus of Ridley College for the first time felt like stepping into a world full of possibilities. Little did I know that a girl who had no previous knowledge about anything related to the optometry field ,for the next 4 years this college would not just shape my career but also my perspective on life.

Looking back, my time at RCOJ was more than just lectures and exams; it was an experience that laid the foundation for everything that followed.. The running force behind RCOJ has always focused on making the students capable enough of thinking and doing things for themselves and serving other people too. My experience as a student in RCOJ has moulded my personality and clarified my vision for the future

The friendship formed in the bustling corridors , to late night study sessions, and inspiring professors who had pushed us beyond limits, each moment academically & non academically contributed to both my personal and professional growth. Looking back, my journey from a student to a professional has been filled with challenges and achievements. RCOJ equipped me with the necessary skills, knowledge, and confidence to face today’s competitive world. The career guidance, internship opportunities, and networking events at college played a crucial role in shaping my career path. Graduation felt like a bittersweet moment.

I feel cherished and proud of being an alumni of such a reputed institution. This institution has truly given me so much. I am thankful for the bonds that I made and it still remains. To current students- Make most of your time, build strong relationships. Your alma mater will always be your foundation , no matter where life takes you.

Ms. Arundhati Hatikakoty
B.Optom (BO19)
M.Optom



Mr. Guna Govinda Hazarika
B.Optom (B018)

I completed my Bachelor of Optometry in 2018, and looking back, I can confidently say that this institution played a pivotal role in shaping my career.

Today, I stand as an independent eye care practitioner and the owner of three thriving eye clinics. Every day, I have the privilege of treating patients, diagnosing conditions, and improving vision—one case at a time. This is what I believe optometry is all about—making a tangible difference in people's lives through expertise, precision, and compassionate care.

The strong academic foundation and hands-on training I received at Ridley College of Optometry have given me the confidence to practice independently.

EX - RIDLEYANS SPEAK

Mr. Suraj Shil
B.Optom (B020)

I feel cherished and proud of being an alumni of such a reputed and honorable institution. The time I spent here at Ridley shaped me in being the person that I am today. The 4 years at RCOJ were filled with many highs and lows, but were made easy only because of the full support of my teachers and other non teaching staff of the college. The college library although small, contains every bit of knowledge required during the college and even after.

Right now I work as a consultant optometrist under the Government of Assam and also run my own private practice. I feel more confident during the practice all thanks to the rigorous eye camps we did during our internship days. Those camps prepared me to interact and provide better service to people of every cultural and economical background. I am thankful to be a part of such an esteemed institution. My only suggestion for the future batches will be, "It's not about having all the answers, it's about having the right questions and knowing how and of whom to ask them"

It was 2010. It marked the beginning of a new era in the study of optometry in Jorhat with the foundation of Ridley College of Optometry. This college was the brainchild of a visionary, i. e., Dr. Narayan Bordoloi. The college was established with a view to promoting the study of optometry and creating a pool of skilled manpower in this field to provide primary eye care. And I enjoyed the rare privilege of being a part of the humble beginning of the college that started functioning with just six students including myself. Being the first batch students, we faced some problems regarding University rules and regulations. However, those issues were resolved in due course of time and we pursued the course with whole hearted effort. As we had access to the eye care facilities at Chandraprava Eye Hospital, learning was all fun. While pursuing the 4-year-course, I learnt the management of all the primary eye care procedures. I worked as a Vision Technician at CPEH while pursuing the B.Sc course at Ridley College of optometry, a sister concern of CPEH, was an added advantage for me. Both the organisations gave me a great learning experience and an exposure to opportunities to build myself to where I stand today. Presently I work at the surgical division of Johnson and Johnson, an MNC of great reputation in the field. Prior to this organization I worked in Alcon surgical division. I must thank CPEH and RCO for whatever I have achieved in life.

Mr. Mohesh Nath
B.Optom (B015)

Ms. Ankita Chetri
B.Optom (B023)
M.Optom (Pursuing,Bharati Vidyapeeth school of optometry)

My time at Ridley College of Optometry, Jorhat played a big role in making me want to pursue a master's degree. During my bachelor's, I learned a lot and had great experiences that sparked my curiosity and made me want to know more. While I gained useful skills, I realized that there was still much more to learn in my field. The challenging coursework and the support from my faculties inspired me to continue my studies and dive deeper into the subject. Additionally Chandraprabha Eye Hospital has one of the best infrastructure for practical aspects.

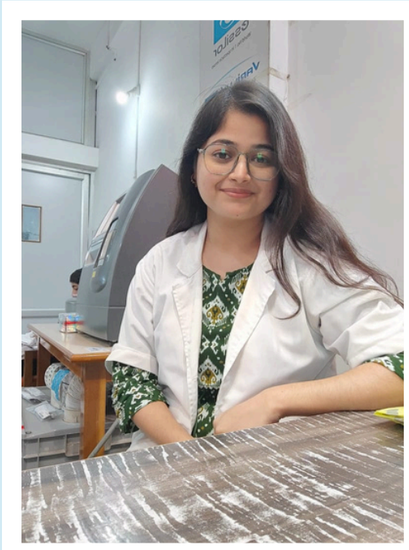
Pursuing a master's degree felt like the next step to building on the solid foundation I had gained during my bachelor's. It became clear that further education would help me reach my career goals and provide me with the advanced knowledge I needed. My undergraduate years motivated me to keep learning and push myself towards an even greater academic and professional growth.

EX - RIDLEYANS SPEAK

Graduating from Ridley College of Optometry has reinforced my foundational belief in learning from the best—the first optometry college in Assam. The extensive clinical exposure I gained there has equipped me with the confidence to manage cases effectively and provide excellent patient care. Currently, my role as a phaco development specialist at Alcon Pvt. Limited has opened new avenues of experience in the corporate sector. This journey has made me realize the significance of a strong academic foundation, which Ridley College of Optometry has undoubtedly provided. I am deeply grateful to all my faculty members for their invaluable guidance, inspiration, and unwavering support throughout this journey.

Ms. Sangeeta Das
B.Optom (B018)

My time at Ridley College of Optography was instrumental in shaping my professional journey. The college's emphasis on academic excellence, combined with hands-on training and mentorship, helped me develop a strong foundation in optometry. One of the most significant opportunities provided by the college was the encouragement to present our research work at national-level conferences. I vividly remember the experience of presenting our research at AIIMS, Delhi, which not only boosted my confidence but also provided a platform to showcase our work alongside renowned professionals in the field. Furthermore, the college fostered a culture of innovation and growth, encouraging us to participate in various blog competitions conducted by international academies such as the Vision Science Academy. Additionally, the college inspired its students to pursue specialized courses in diverse optometry fields, equipping us with a competitive edge for future endeavors. I am truly proud to be a Ridlian, and I attribute my growth and success to the college's unwavering support and guidance.



Ms. Zerin M Mollah
B.Optom (B024)

Ms. Manjuri Kurmi
B.Optom (B024)

Ridley College of Optometry has been a cornerstone in my professional journey, providing me with the knowledge,skills and confidence to excel in the field of optometry. The institution emphasized research, innovation and academic excellence, constantly encouraging us to go beyond the classroom and engage in real world experiences. One of the defining moments of my academic growth was the opportunity to present my work at the prestigious national level conference at Aiims, Delhi. The unwavering support from the faculty from refining our research to improving our presentation skills, ensured that we were well prepared to represent our college on such a recognized platform.
Beyond academics, Ridley College also motivated us to participate in various blog competitions conducted by international academics such as the Vision Science Academy,fostering our ability to communicate scientific ideas effectively. Additionally the institution encouraged us to complete specialized courses in different optometry fields,helping us expand our expertise and preparing us for future career opportunities. The mentorship and rigorous academic training I received not only strengthened my technical knowledge but also enhanced my critical thinking,research and presentation skills.This transformative journey at Ridley College has shaped me into a confident and competent professional. The exposure, opportunities and guidance I received here have set a strong foundation for my future and I am proud to be a Ridlian..

ELIGIBILITY FOR OPTOMETRY

The candidates must have obtained a 50% marks taken together in English, Physics, Chemistry and Biology in the higher secondary examination that is equivalent to 10+2.
Age criteria : By 31st December of the year of admission, the candidates must complete a minimum age of 18 years.
Optometric education : B.Optom in optometry is a complete four years of graduate education (3 years of academics and 1 year of internship).

REGISTRATION PPROCEDURE

Your registration to the B.Optom Optometry programme will be valid for a period of 6 years from the date of registration period,you should re-register i.e. take fresh admission to the programme by paying University fees specified in the prospectus at the time of re-registration, provided the University is continuing the programme. All the rules and regulation, which exist at the time of re-registration will be applicable to you.

SELECTION PROCEDURE

The selection is based on Combined Entrance examination conducted by Srimanta Sankaradeva University of Health Sciences.

The subjects for examination are the relevant subjects from Higher Secondary, mainly PCB (Physics, Chemistry & Biology).

The student has to submit the scorecard of the entrance examination along with the relevant document at the time of admission

EVALUATION PPROCEDURE

- A student would be evaluated through internal assessment, held thrice/twice a year which would be followed by a final examination at the end of every academic year.

- A student would also be assessed by his/her punctuality, discipline, dress code, neatness, overall personality and his/her behavior towards elders/seniors/faculties/staff.

- A student who fails to appear in a year ending examination for valid reason (s) supported by proof; or fails to secure the minimum pass mark in a year ending examination shall be allowed to continue in the succeeding year. However, he/she will be eligible to appear in the examination only after he/she clears all the subjects of the previous year. Candidates who fail in any of the papers shall have to pass the paper (s) concerned within maximum four (4) attempts including the first attempt. If they fail to do so, they shall take the examination in all subjects of that year in the revised text/syllabus, if any. In the event of removal of that paper consequent to the change of regulation and/or curriculum after all maximum of four attempts, the candidates shall have to take up and equivalent paper in the revised syllabus as decided by the University and fulfill the requirements as per regulation/curriculum for the award of the degree.

- Since the course involved continuous assessment there shall be no scope for a student to appear as a private candidate in any subject in the system. Any difficulty which may arise in the course of these operation relating to holding of the annual examinations shall be removed by the University authorities.

- If student fails in any of the theory/practical exam paper he/she will have to fill up the examination form accordingly and has to pay a nominal fee decided from time to time separately. A student will be declared to have been promoted to the next academic year provided he/she has secured 50% marks in internals and final exam of each subject individually.

RIDLEY COLLEGE OF OPTOMETRY

This is the first full fledged Optometry college in Assam under Srimanta Sankaradeva University of Health Sciences, Guwahati, in collaboration with Chandraprabha Eye Hospital at Jorhat, Assam.

• Total seats available for the course- 20

•Dress code

a) Girls: Salwar kameez, patialas, long kurtis/kurtas (knee length), leggings (not tight fitting) should be worn, slippers or flip flops are not allowed. Hair should be tied, unless otherwise it is very short. Nails should be cut short. Any kind of make ups, nail polish etc are not allowed during college days. No kind of jewellery/accessories should be worn on college days (Except for an ear ring, stud or gold chain)

b) Boys: formal shirts and trousers, blackbrown formal shoes to be worn. No sandals or slippers, kitos etc are allowed. Beards should be trimmed or shaved from time to time. No kind of jewellery/accessories should be worn on college days.

Neat, ironed, buttoned, white aprons (Half sleeves or quarter lengths) is mandatory for every student once he/she is in the college premises.

• Use of mobile phones or any other electronic gadgets are strictly prohibited
once in college unless permitted by any faculty for genuine reason.

TUITION AND OTHER FEES INCLUDING DEPOSITS

Every student will have to pay the tuition and other fees and deposits as prescribed from time to time by Ridley College of Optometry. College reserves right to revise this fee structure from time to time.

FIRST YEAR		SECOND YEAR		THIRD YEAR	
FIRST SEMESTER	SECOND SEMESTER	THIRD SEMESTER	FORTH SEMESTER	FIFTH SEMESTER	SIXTH SEMESTER
45,000/-	45,000/-	49,500/-	49,500/-	54,450/-	54,450/-

The amount of fees payable at the time of admission.
Admission fee - Rs.30,000/-
Caution deposit - Rs.5,000/-
Fourth Year (For 1 year-Payable in 2 installments) - Rs. 1,10,000/-
Library Fees 5000/-
Devlopment Fees 5000/-

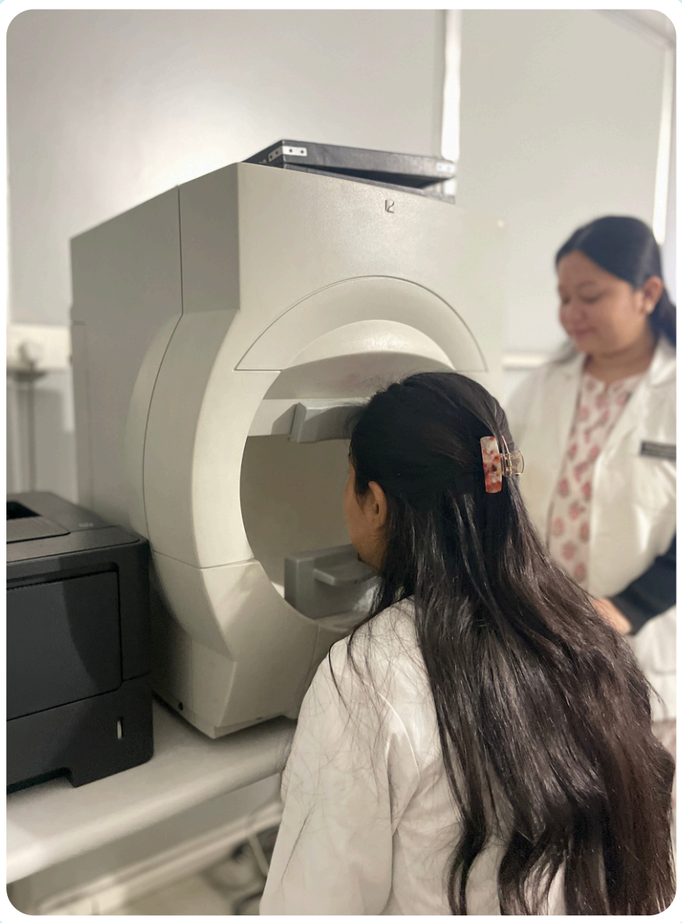
Every year there is an Optometry Conference held at various states of india organized by All INDIA OPTOMETRY ASSOCIATION, as well as there are various seminars, Workshops held at various places throughout the year where interested students can attend and gain immense knowledge and fun.

LIST OF DOCUMENTS REQUIRED AT THE TIME OF ADMISSION

At the time of admission, you are required to produce the followinging original, failure to do so will result in instantaneous cancellation of your claim for admission.
You are also required to submit two attested photocopies of each of the documents

1. Proof of date of birth-std. X certificate OR municipal corporation birth certificate
2. HSLC marksheet
3. HSLC Pass certificate
4. HS marksheet
5. HS Pass certificate
6. Permanent resident certificate
7. Caste certificate
8. Migration certificate
9. Transfer certificate
10. Medical fitness certificate
11. Six copies of passport sized photos (candidates name and date of photograph taken, written on a card, holding with both hands in front of the chest)
12. If the candidates is employed, submit "NO OBJECTION CERTIFICATE" from the employer.
13. Marksheet of the common entrance examination held by Srimanta Sankaradeva University of Health Sciences

Kindly make sure that the forms are complete. Incomplete forms will not be accepted. Interview dates will be informed after submission of forms.



Hands-on learning in action! Optometry students mastering clinical skills through practical training sessions

ADVANCING VISION SCIENCE: PIONEERING RESEARCH AT RIDLEY COLLEGE OF OPTOMETRY

Research is vital for innovation in eye care, enhancing diagnostics, and improving treatments. Ridley College of Optometry pledges to uplift clinical research by fostering a culture of inquiry, collaboration, and evidence-based practice. Our faculty and students actively engage in impactful studies, presenting at conferences and publishing in high-indexed journals. From glaucoma medication effects on tear film to circadian influences on pupillary dynamics, our research spans key areas in vision science. Through mentorship, advanced facilities, and dedication to clinical excellence, we strive to bridge research and practice, shaping the future of optometry and improving patient care globally.

Original Article

Characteristics of binocular vision and oculomotor function among sports-concussed athletes

Pritam Dutta

Purpose: To compare the binocular vision and oculomotor function between sports-concussed athletes and aged-matched controls. **Methods:** Thirty mild concussed athletes were recruited and compared with aged-matched controls. All the participants underwent a comprehensive ocular assessment followed by an oculomotor assessment which included tests for accommodation, vergence, eye movements, and reading parameters. **Results:** Three categories of oculomotor-based deficits were found: convergence insufficiency (40%), accommodative insufficiency (25%), and oculomotor-based reading dysfunctions (20%). A statistically significant reduction in the mean ± SD of the following parameters was noted in concussed athletes v/s controls:- binocular accommodative amplitude: 7.13 ± 1.59 v/s 15.35 ± 2.95 ($P < 0.001$), convergence amplitude: 14.23 ± 5.00 v/s 5.65 ± 0.90 ($P < 0.001$), positive fusional vergence for distance: 21.17 ± 8.97 v/s 31.32 ± 6.23 ($P < 0.001$), vergence facility: 6.47 ± 1.47 v/s 11.84 ± 1.00 ($P < 0.001$), accommodative facility: 7.10 ± 4.57 v/s 11.67 ± 1.83 ($P < 0.001$), reading speed: 66.97 ± 17.82 v/s 144.13 ± 24.45 ($P = 0.03$) and Developmental Eye Movement ratio: 1.40 ± 0.19 v/s 1.17 ± 0.06 ($P < 0.001$). **Conclusion:** Concussions caused by sports have a considerable impact on binocular vision and oculomotor parameters. These findings have substantial therapeutic implications in terms of establishing a periodic screening program for athletes so that essential therapy can be provided for a better outcome.

Access this article online
Website: https://journals.lww.com/ijo
DOI: 10.4103/ijo.IJO_1932_22
Quick Response Code:

Key words: Binocular vision, concussion, oculomotor

ORIGINAL CONTRIBUTION

Utility of iPhone-Based Pupillometry in Comparing Pupillary Dynamics Between Sport Concussed Subjects With Photosensitivity and Healthy Controls

Dutta, Pritam MOptom, FAAO

Author Information

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The author declare no conflict of interest
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Binocular vision disorders and tear meniscus parameters using anterior segment-optical coherence tomography (AS-OCT) in Parkinson's disease: a case report

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ABSTRACT

BACKGROUND: Ocular abnormalities are potential consequences of early signs of Parkinson's disease (PD). The novelty of this case is that it provides additional binocular vision findings for better diagnosis and demonstrates the role of imaging techniques such as anterior segment-optical coherence tomography (AS-OCT) to quantitatively assess the ocular surface in PD.

CASE PRESENTATION: A 55-year-old male with early Parkinson's disease presented with a history of transient diplopia, irritation, and burning sensation one year after his PD diagnosis. On examination, his contrast sensitivity was reduced, and he had receded convergence amplitude, poor saccadic function, and reduced developmental eye movement (DEM) test. Additionally, his tear meniscus parameters were significantly reduced when measured quantitatively

Original Article

Capsular tension ring assisted phacoemulsification of morgagnian cataract

Narayan Bardoloi[1], Sandip Sarkar[1,2], Pankaj Suresh Burgute[1], Debaruna Ghosh[1], Amit Kumar Deb[2]

Purpose: To describe a novel technique of phacoemulsification in morgagnian cataract using capsular tension ring (CTR). **Methods:** This was a retrospective, non-comparative, clinical interventional study. Patients with hypermature morgagnian cataract who had undergone CTR-assisted phacoemulsification were included in the study. After capsulorhexis, CTR was inserted in a clockwise manner to stabilize the capsular bag in each case. Phacoemulsification was then performed using either horizontal chopping or vertical chopping. We have used the CTR in these cases without any obvious lens subluxation in order to perform safe emulsification of the nuclear pieces in the capsular bag. We have performed the procedure successfully in eleven eyes with hypermature morgagnian cataract. **Results:** The mean corrected distance visual acuity (CDVA) improved from 2.62 ± 0.25 Log MAR to 0.35 ± 0.28 Log MAR at 3 months postoperatively ($P = 0.00008$). Total nine out of 11 patients gained CDVA of 20/40 or better at 3 months postoperatively. No intraoperative complications such as posterior capsular rupture, zonular dialysis, iris trauma, vitreous loss were noted. The mean endothelial cell loss was 148.82 ± 41.52 cells/mm^2 after 3 months of surgery. **Conclusion:** The main culprit for intraoperative complications during phacoemulsification in a morgagnian cataract is the vulnerable capsular bag. Following insertion of a CTR after capsulorhexis, the bag becomes stable and the subsequent steps of the surgery become uneventful, thereby, preventing any further complications.

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DOI: 10.4103/ijo.IJO_2723_20
Quick Response Code:

Key words: Capsular tension ring, morgagnian cataract, phacoemulsification

Original Article

Characteristics of tear meniscus using a spectral domain optical coherence tomography in medically controlled glaucoma

Pritam Dutta, Pronob Kalita[1], Narayan Bardoloi[2]

Purpose: To compare the tear meniscus height (TMH) and tear meniscus depth (TMD) between medically controlled glaucoma subjects and age-matched controls. **Methods:** This prospective, cross-sectional, observational study included 50 patients with medically controlled glaucoma and 50 age-matched controls. Glaucoma subjects using topical medications for the duration of more than 1 year were included. The age-matched controls were participants with no history of glaucoma, dry eye, or any other diseases affecting the ocular surface. All the participants underwent TMH and TMD scan using spectral domain-optical coherence tomography (SD-OCT), which was followed by ocular surface disease index (OSDI) questionnaire administration. **Results:** The mean ages of glaucoma subjects and age-matched controls were 40 ± 22 and 39 ± 21 years, respectively ($P > 0.05$). Of them, 40% ($n = 22$) were on single drug therapy or monotherapy and 60% ($n = 28$) were on multidrug therapy. TMH and TMD of glaucoma subjects and age-matched controls were 101.27 ± 31.86 versus 230.63 ± 49.82 μm and 70.60 ± 27.41 versus 167.37 ± 57.06 μm, respectively. Subjects on multidrug therapy showed a statistically significant reduction in TMH and TMD when compared to age-matched controls. **Conclusion:** Preservative containing topical glaucoma medications affects the ocular surface, including the tear film. The prolonged duration and multiple combination of this drug usage serve as potential factors for causing reduction in the tear meniscus levels leading to drug-induced dryness.

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Quick Response Code:

Key words: Glaucoma, tear meniscus depth, tear meniscus height

Surgical Technique

Zero Phaco: A new technique for dealing with soft cataracts

Narayan Bardoloi[1], Sandip Sarkar[1,2], Roshni Dholkawala[1]

Phacoemulsification in soft cataracts can be challenging due to the lack of rigid cleavage planes and the inability to crack. We describe a new phacoemulsification technique for dealing with soft cataracts using high vacuum and zero energy. Following capsulorhexis and hydrodissection, we introduced the phacoemulsification probe, keeping the torsional and longitudinal power at zero. A central groove was created in sculpting mode. We held the nucleus with adequate vacuum in chop mode and divided the nucleus. Then, we rotated and chopped the nucleus similarly into small pieces without using any power. For emulsification, we increased the vacuum to 600 mmHg and then shredded and stuffed the pieces into the phaco probe by the chopper. A newer generation phaco machine with active fluidic system and monitored pressurized infusion helps the surgeon control the intraocular pressure (IOP) and hold the nucleus with vacuum alone, allowing chopping and emulsifying of the pieces without any energy.

Video avaliable on: www.ijo.in
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DOI: 10.4103/ijo.IJO_1149_22
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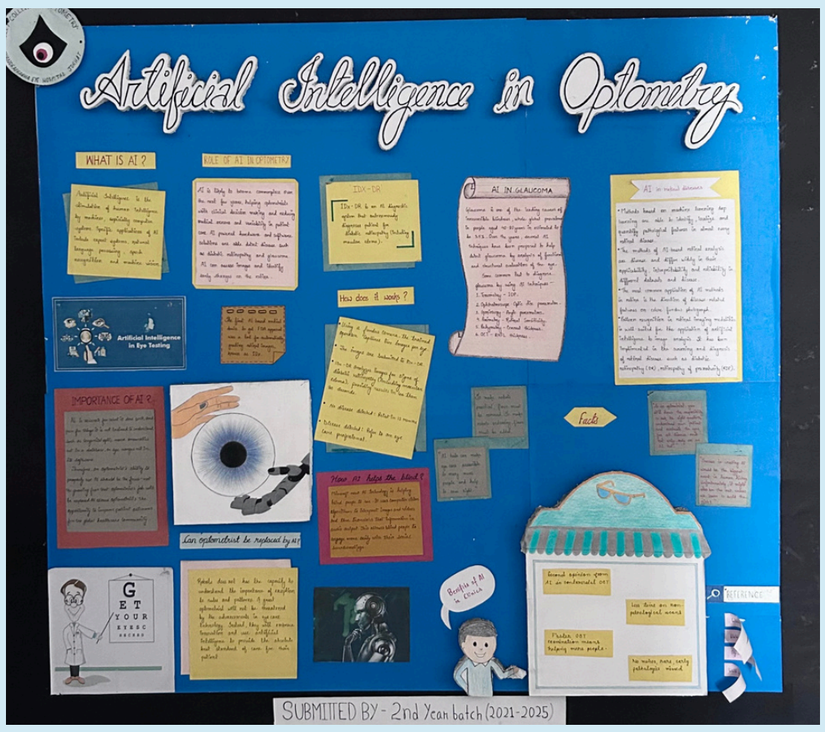
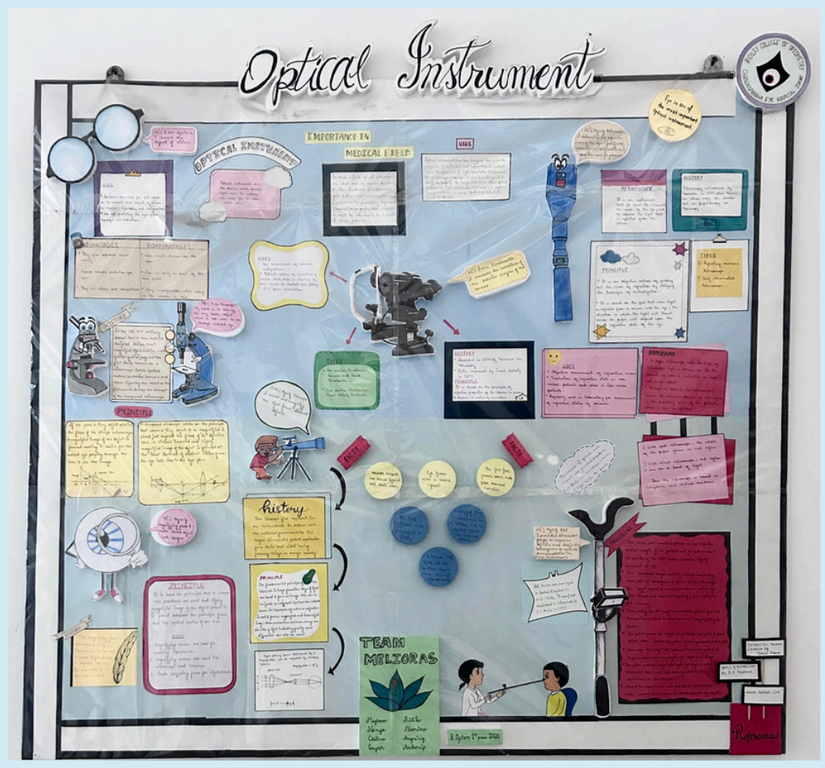
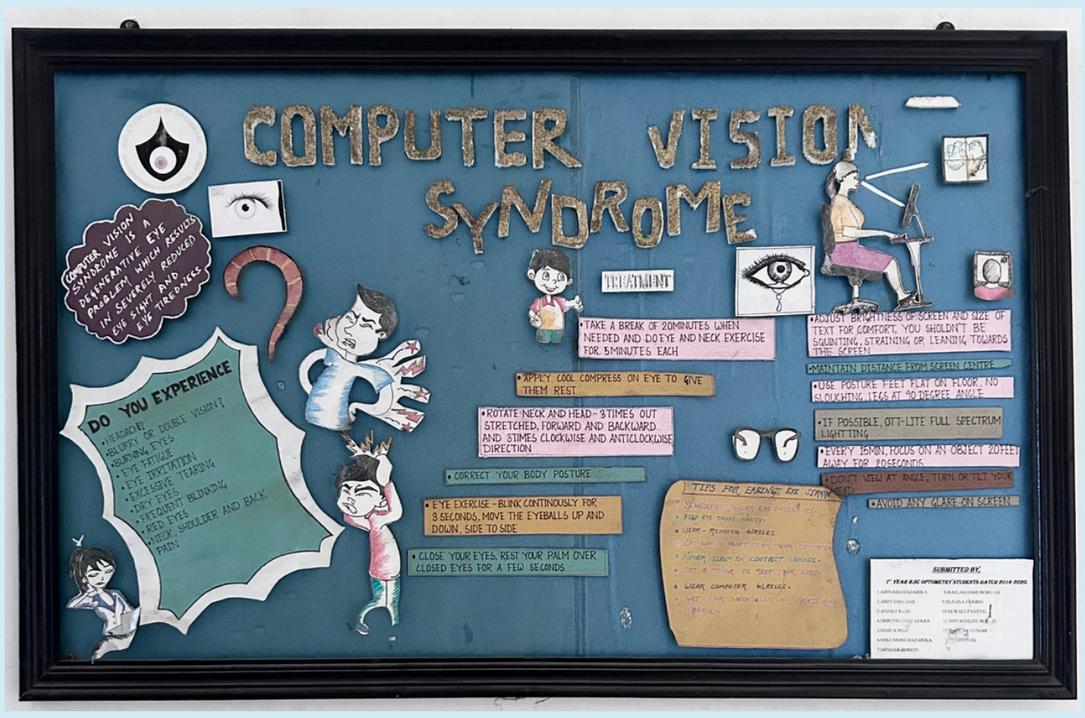
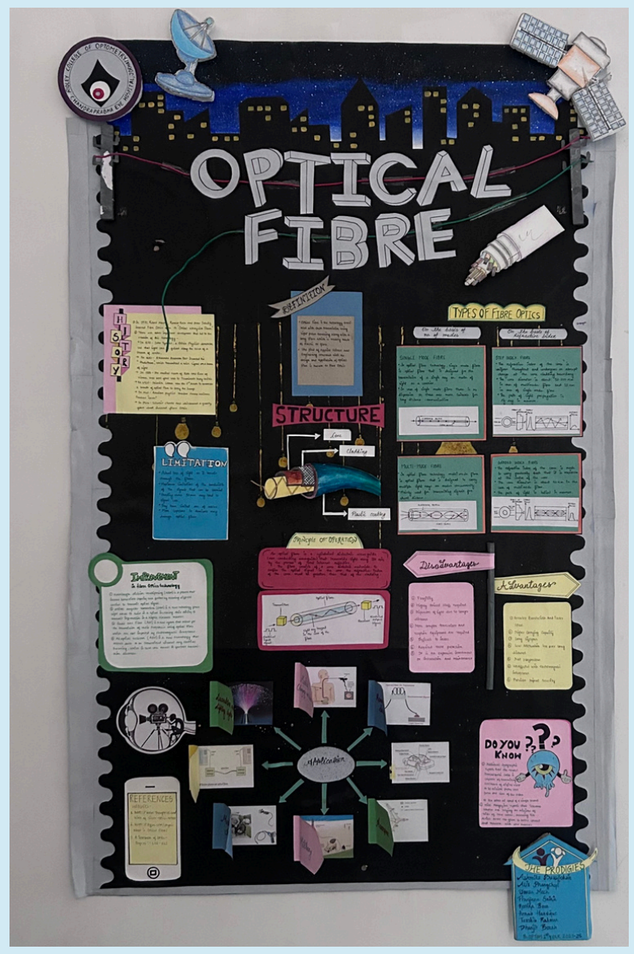
Key words: High Vacuum, phacoemulsification, soft cataract, zero energy

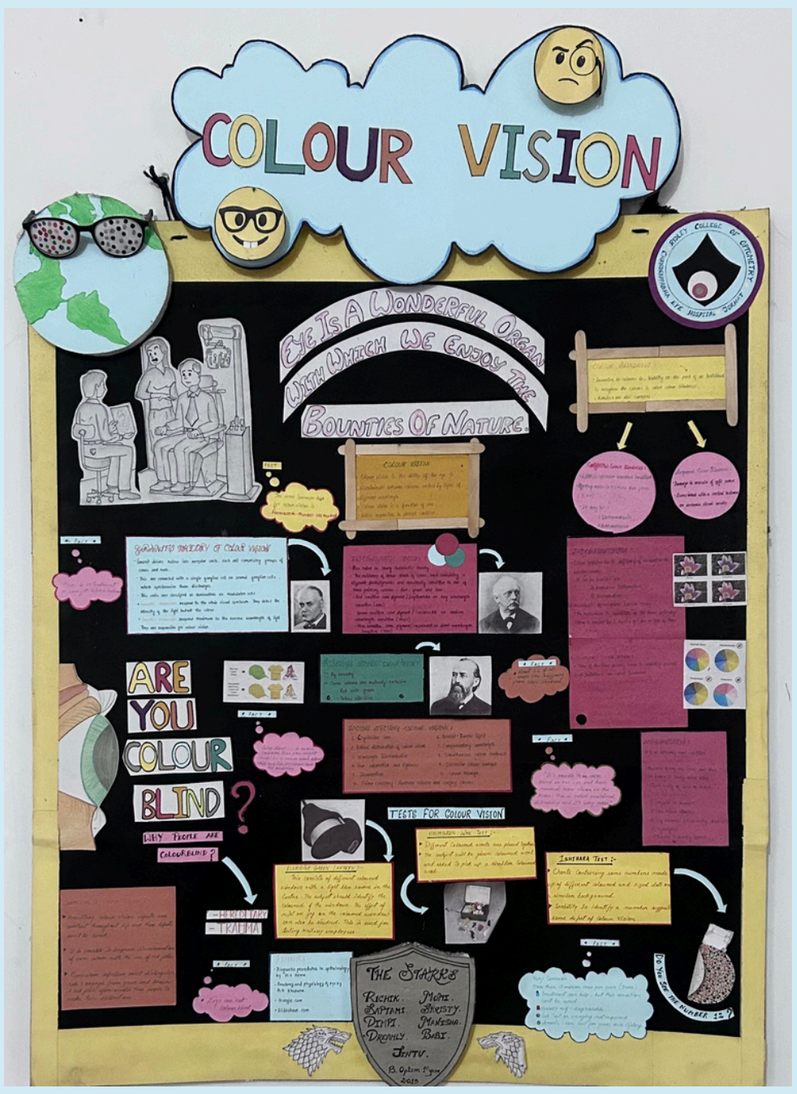
Legacy of Learning: Optometry Posters by Past & Present Batches – Ridley College of Optometry

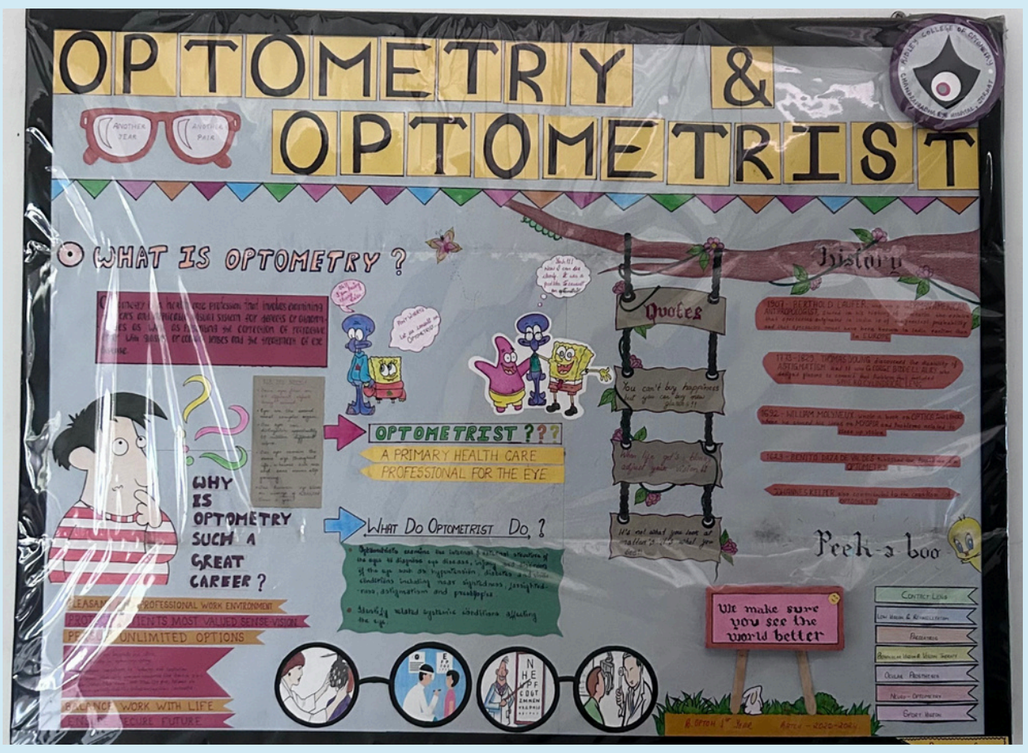




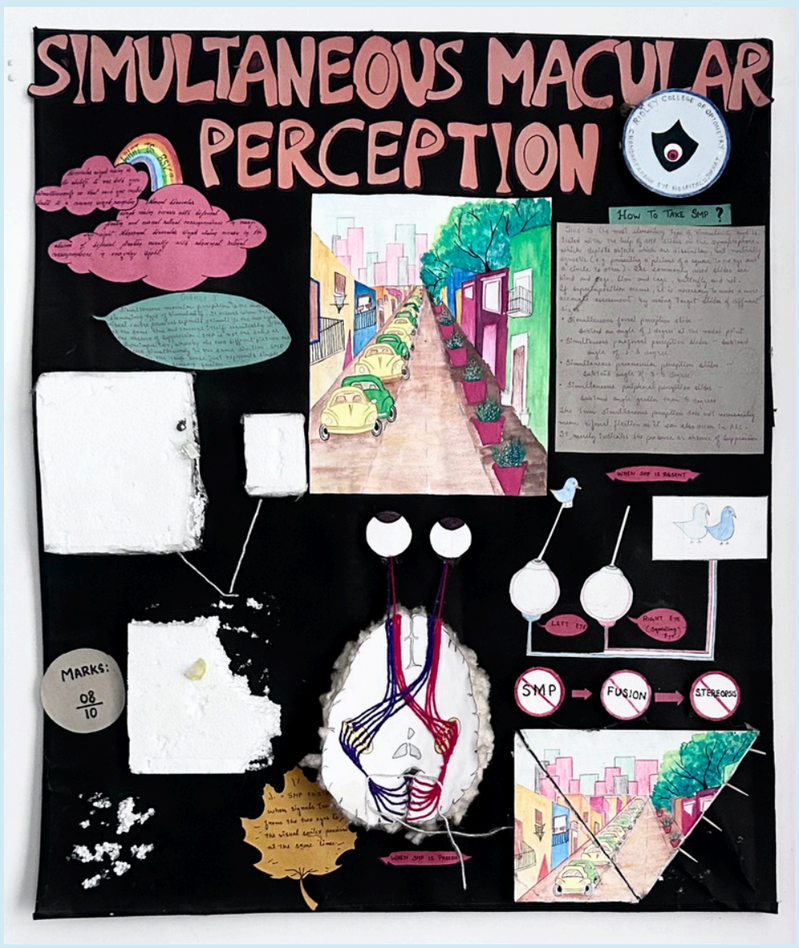


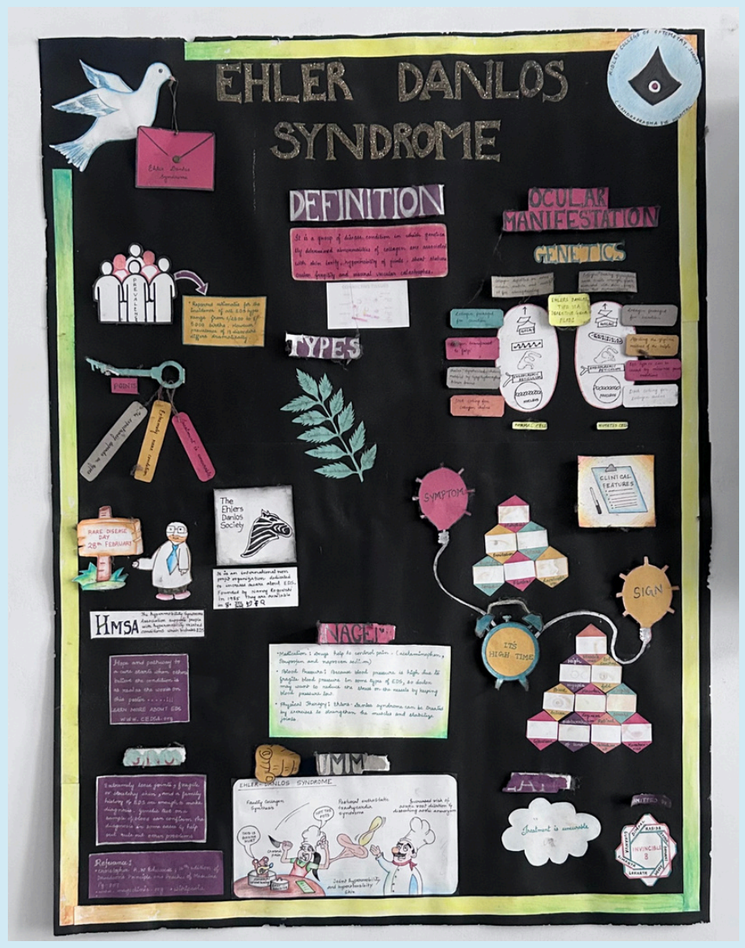


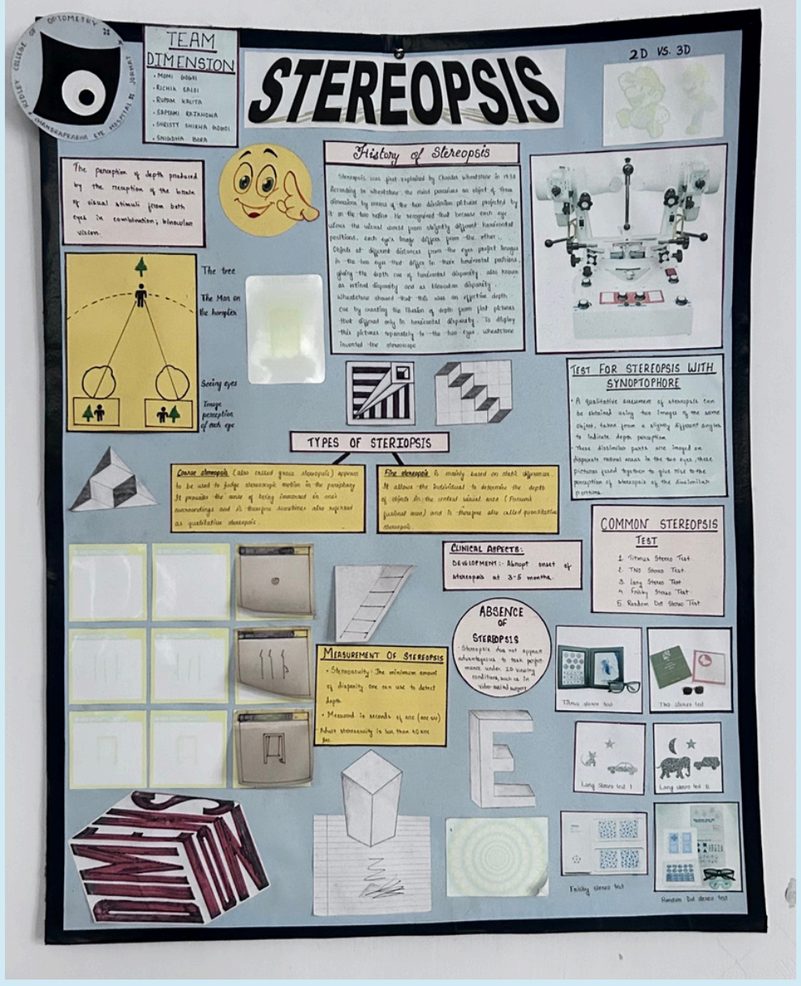


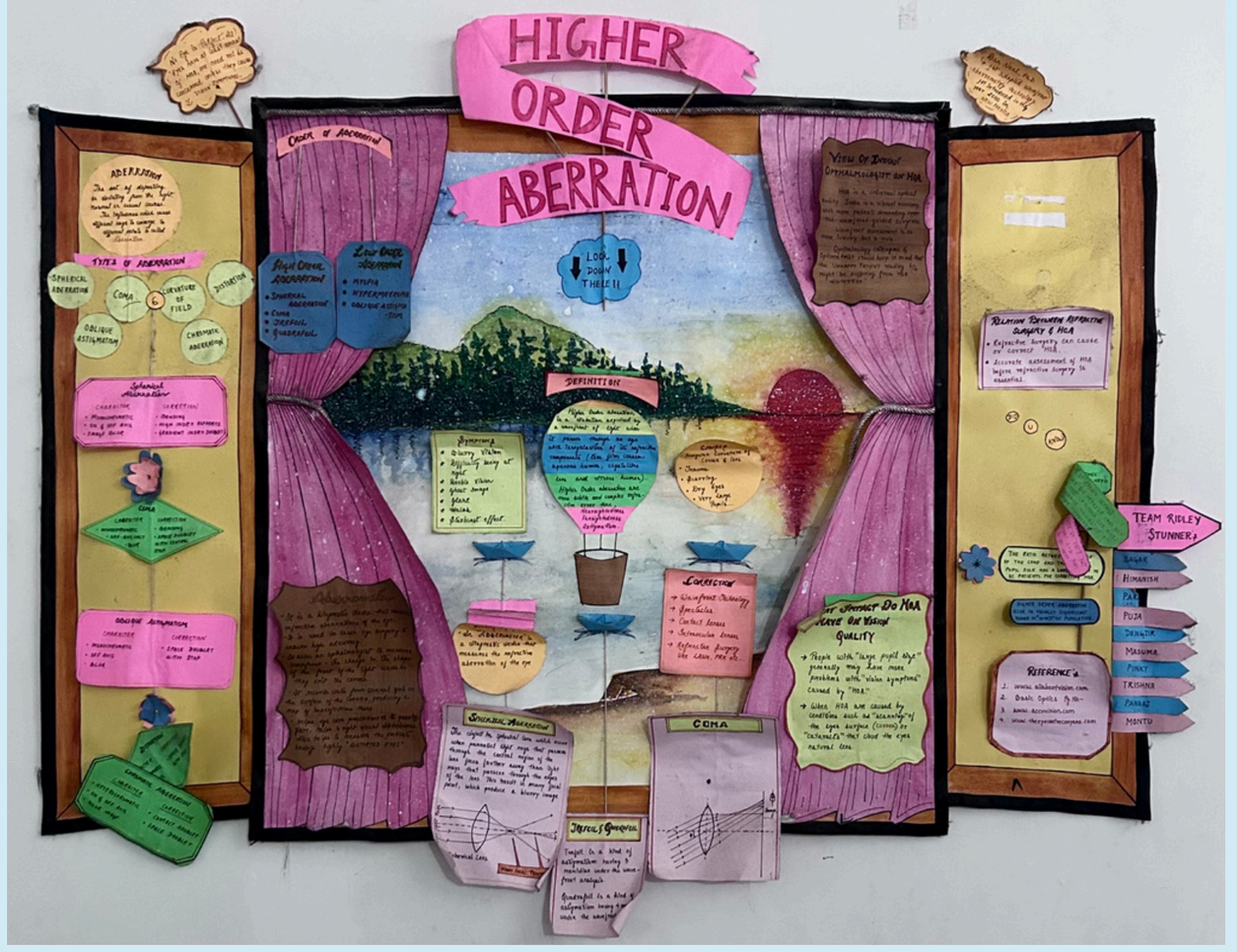


Legacy of Learning: Optometry Posters by Past & Present Batches – Ridley College of Optometry

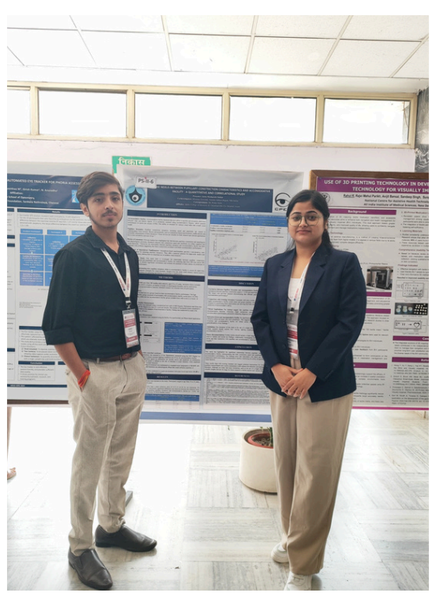








LEADING THE WAY IN EYE RESEARCH & INNOVATION



Prestigious Recognition at ARVO India Chapter 2024 (AIIMS, DELHI)

The students of Ridley College of Optometry had a prestigious opportunity to participate in the 30th Annual Meeting of the Indian Eye Research Group (IERG), ARVO India Chapter 2024, held at AIIMS, New Delhi. This premier vision science research conference provided our students with first-hand exposure to cutting-edge ophthalmic and vision research at a global level.

Notably, **four research papers** from our institution were selected for poster presentations, highlighting the quality of research and academic rigor at our college. This achievement underscores our commitment to fostering innovation, scientific inquiry, and hands-on learning among our students.

Best Poster Award in Clinical Category 🏆

Optometry faculty Mr. Pritam Dutta was honored for his outstanding research entitled

"Comparative Analysis Of Pupillary Dynamics In Individuals With Single And Repetitive Concussions Versus Non-concussed Controls: A Quantitative Pupillometric Approach"

COMMUNITY OUTREACH ACTIVITIES: VISION CAMPS BY RIDLEY COLLEGE OF OPTOMETRY

At Ridley College of Optometry, we are committed to providing quality eye care services to underserved communities through our Vision Camps. These camps aim to raise awareness about eye health, provide essential vision screenings, and offer necessary interventions to those in need.

Key Highlights of the Vision Camps

1. Free Eye Screenings and Refractions

- Comprehensive vision screening and refraction tests were conducted to detect refractive errors.
- Individuals requiring spectacles were provided with prescriptions, and affordable glasses were arranged for those in need.

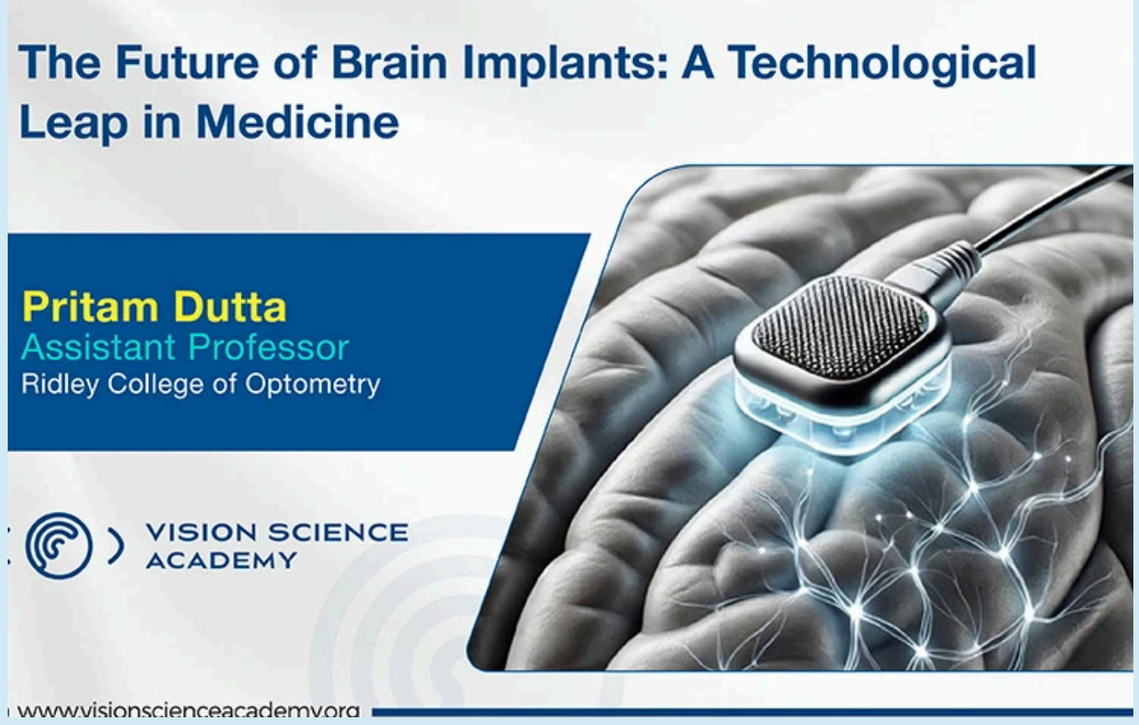
2. Ocular Health Assessments

- Detailed eye examinations were carried out to detect conditions such as cataracts, glaucoma, and diabetic retinopathy.
- High-risk cases were referred to specialized eye care centers for further evaluation and treatment.

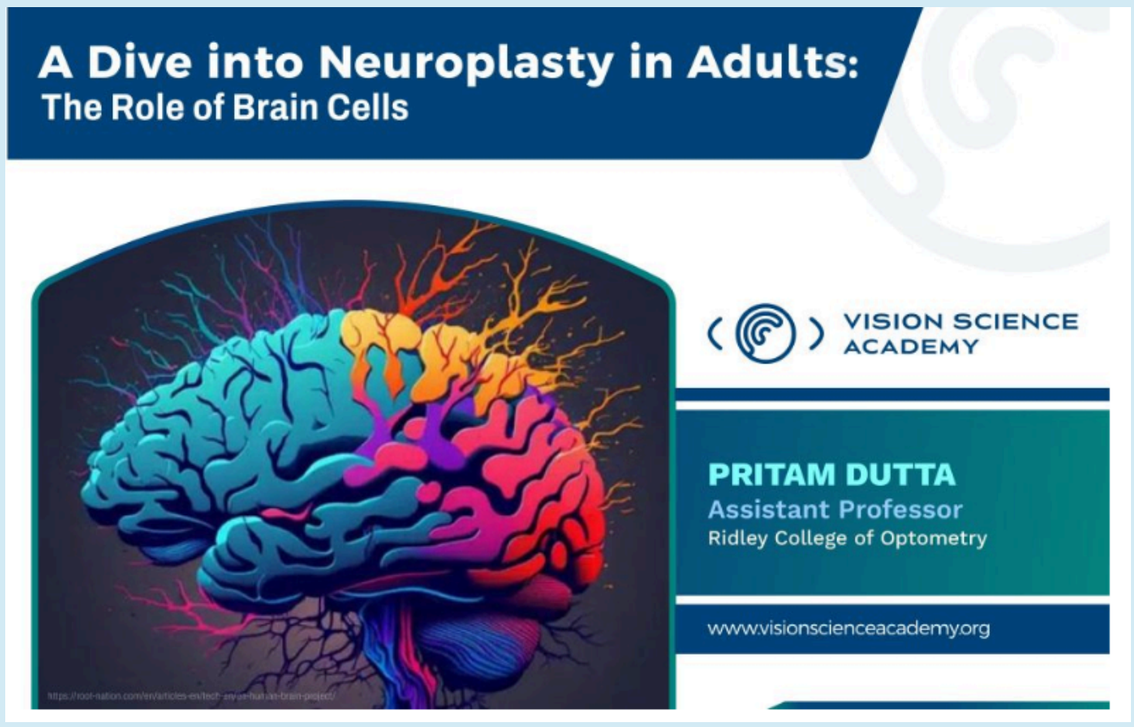
3. Awareness and Education Sessions

- Public awareness programs were conducted on eye care, digital eye strain, and preventive measures against common eye diseases.
- Special focus on school children to educate them about proper lighting, posture, and visual hygiene.

GLOBAL RECOGNITION: RIDLEY COLLEGE OF OPTOMETRY'S INSIGHTS FEATURED AT VISION SCIENCE ACADEMY, LONDON



The students and faculty members of Ridley College of Optometry have actively contributed to the field of vision science by publishing insightful scientific blogs at Vision Science Academy, London. These blogs cover a wide range of topics, from advancements in optometric research to innovations in eye care technology, providing a platform for knowledge dissemination on an international stage. Their contributions reflect the institution's commitment to academic excellence and scientific exploration, fostering a research-driven learning environment. Through these publications, they engage with a global audience, sharing evidence-based perspectives and the latest developments in optometry.



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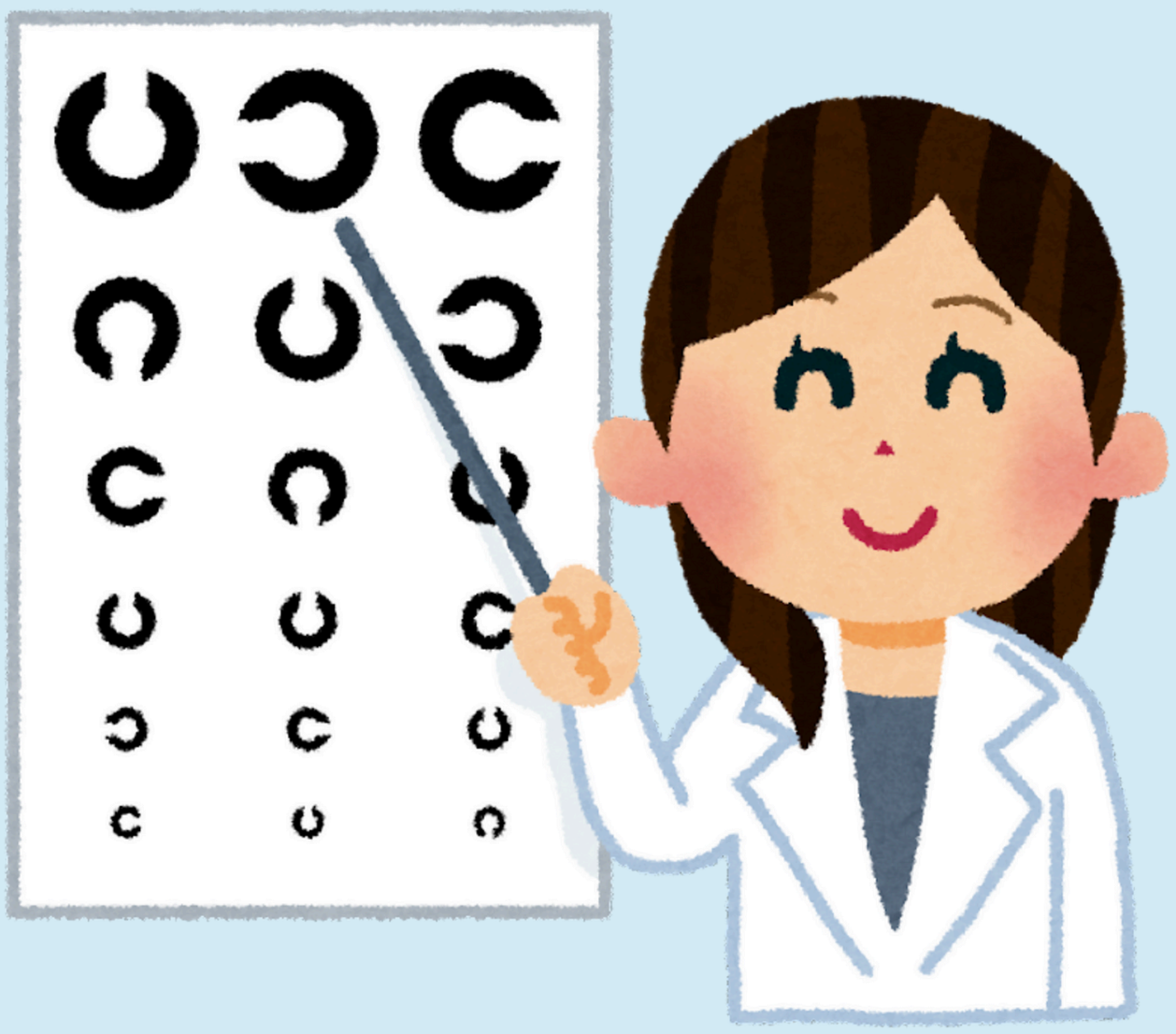

Optometry is more than just a profession—it is a commitment to preserving vision, enhancing quality of life, and ensuring that no individual is left behind due to preventable or treatable visual impairments. At Ridley College of Optometry, this commitment goes beyond the classroom and clinic; it extends into the heart of the community. Through rigorous academic training, cutting-edge research, and compassionate patient care, we empower future optometrists to become vision care leaders, addressing the diverse needs of society. Whether it is providing essential eye care services to underserved populations, advancing research in ocular health, or pioneering innovations in optometric technology, Ridley College stands as a beacon of excellence, dedicated to shaping a world where quality eye care is accessible to all. Our mission is not just to correct vision but to transform lives—one patient, one discovery, and one breakthrough at a time.

ENVISIONING A BRIGHTER FUTURE

Empowering Vision, Transforming Lives

The eyes are the windows to the world, and as optometrists, we hold the key to unlocking a brighter, clearer future.

"Vision is not just about sight—it's about insight, innovation, and impact." At Ridley College of Optometry, we shape the future of eye care with knowledge, compassion, and excellence. Every eye we care for, every vision we restore, is a step toward a healthier, more vibrant world. A life dedicated to eye care is a life dedicated to light, clarity, and endless possibilities. Let us be the guardians of vision and the pioneers of change.

At Ridley College of Optometry, we don't just train professionals—we nurture visionaries committed to excellence in eye health.

See the world differently, change it for the better.