

# EYE CARE HOSPITAL

4360306 Ophthalmic Instrumentation

**Biomedical Department**

03.02.2025

DATE

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22

STUDENTS

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FACULTY



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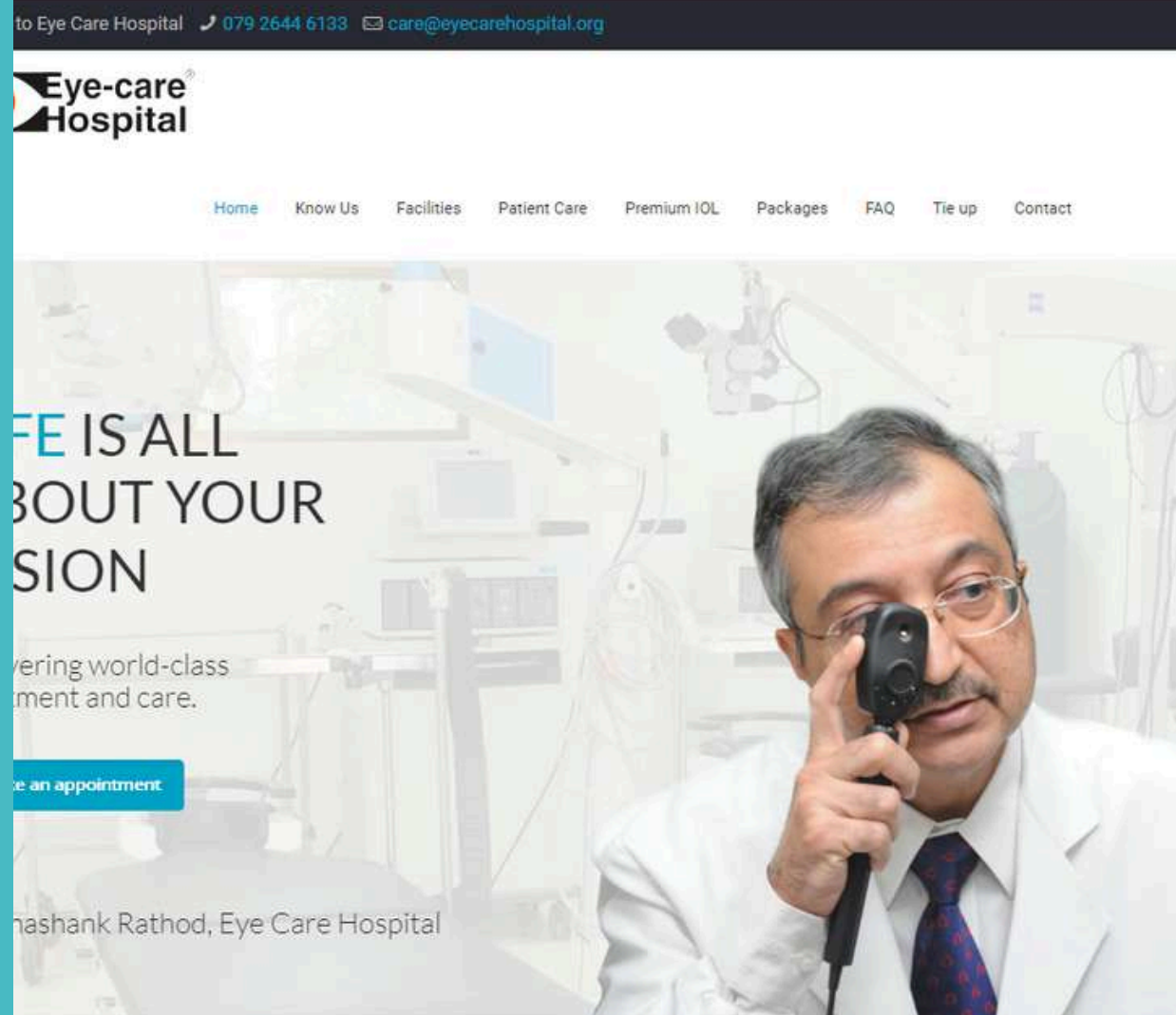
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**EYE CARE HOSPITAL**

<https://www.eyecarehospital.org/>

# ABOUT EYE CARE HOSPITAL



Eye Care Hospital rated as one of the leading Best Eye Hospital in India, established in 1987. and it has now become a full fledged outpatient Cataract Surgery Center with the most modern equipments and technology.

Maximizing the visual potential of each of the patients through quality treatment is the mission of Eye Care Hospital

# Visit Permission



## Government Polytechnic, Ahmedabad

Nr. Panjarapole, Ambawadi - 380015

Ph: (079) 2630 1285

Tele Fax: (079) 2630 9922

Email: [principal@gpahmedabad.ac.in](mailto:principal@gpahmedabad.ac.in)

Website: [www.gpahmedabad.ac.in](http://www.gpahmedabad.ac.in)



No: GPA/ BME/ SEM-G/ Instrumental / ૨૦૪  
વિષય

Date: 12/01/2025

To,

Dr. Anshi Rathod  
Ophthalmic Surgeon  
Eyecare hospital  
Ambawadi,  
Ahmedabad- 380015

**Subject:** Request for Permission to Visit Your Esteemed Eye Care Hospital

**Respected Ma'am,**

We hope this letter finds you in great health and high spirits. Last year, our visit to your esteemed hospital was a highly enriching experience for our students, offering valuable exposure to ophthalmic instruments and their applications.

This year, we wish to provide the same opportunity to our current batch under the subject-Ophthalmic Instrumentation to observe and learn about instruments and their role in patient care.

We kindly request your permission to organize this visit and are happy to coordinate based on your availability.

Thank you for your continued support and guidance.

Regards,

Yours Faithfully,

HOD  
Biomedical Department  
Head of Department  
Biomedical Engineering  
Government Polytechnic Ahmedabad

  
Principal  
Government Polytechnic, Ahmedabad

# OBJECTIVE OF VISIT

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- Students get to witness real-world applications of the theoretical knowledge they have gained in their classrooms. This practical exposure helps in reinforcing concepts and understanding their relevance in professional settings.
- They can observe the latest trends, equipment, and methodologies used in their respective fields, helping them stay updated with healthcare developments.
- Students can ask questions, engage in discussions, and participate in hands-on activities, enriching their overall learning experience.
- Observing professionals in their workplace environment exposes students to the ethical and professional standards upheld in the Hospital.

# LEARNING OUTCOMES OF VISIT

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- Identify different parts of an eye using human eye model
- Differentiate between the Direct Ophthalmoscope & Indirect Ophthalmoscope.
- Identify an essential parts of slit lamp machine.
- Examine the Pupil and lens structure on Slit lamp machine
- Identify the problems of eye by analyzing the OCT Image
- Measure intra ocular pressure of an eye by using tonometer.
- Discuss the Problem regarding Ophthalmology Instruments

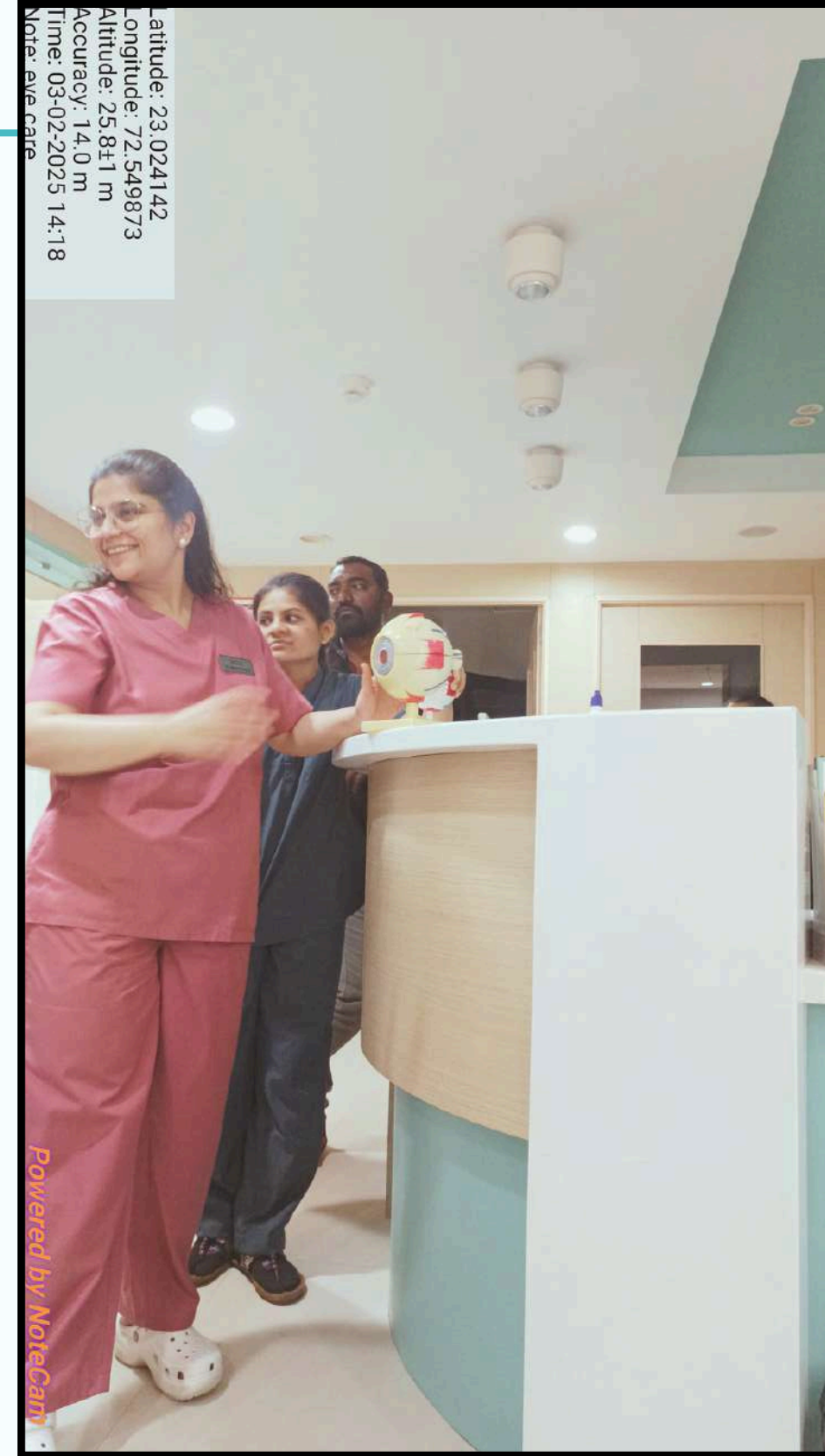
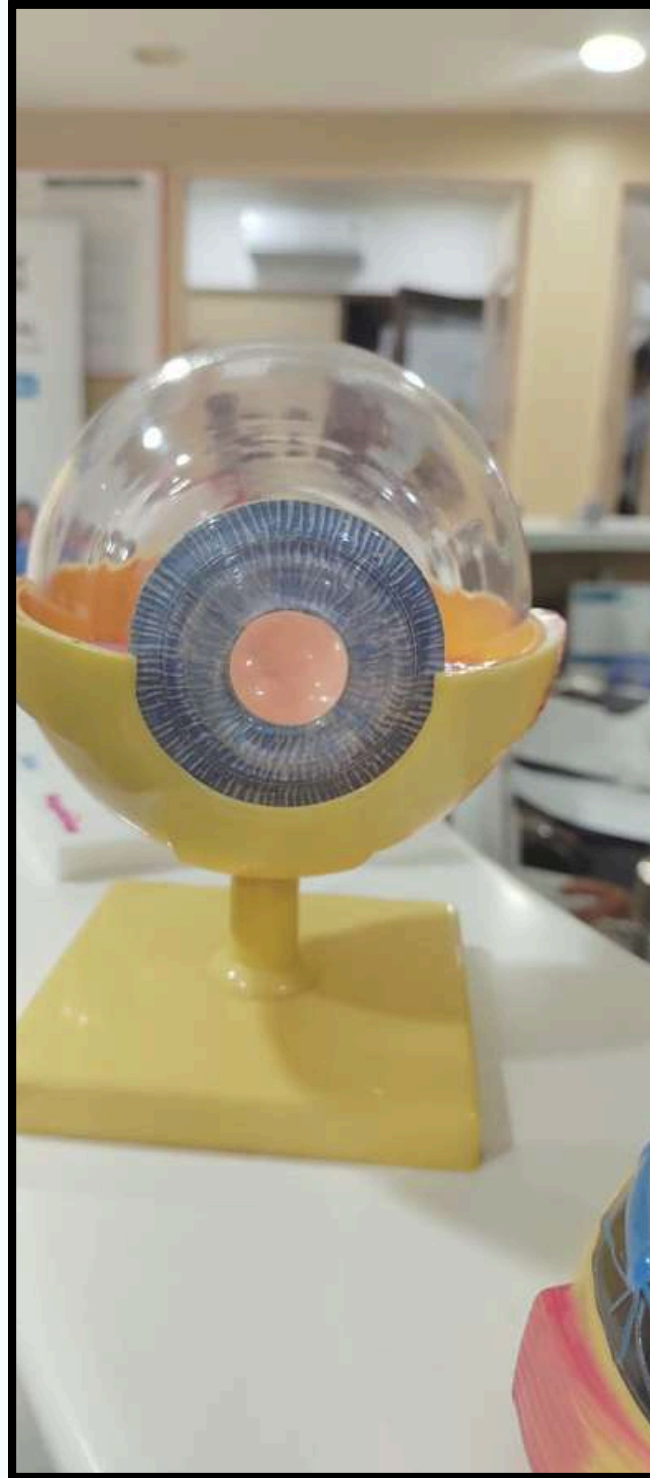
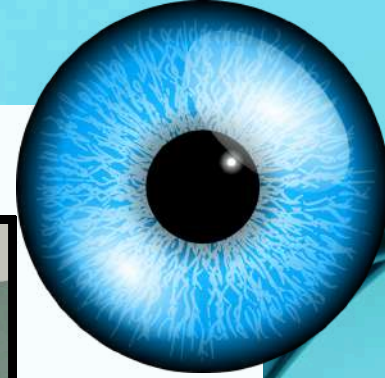
# GLIMPSE OF VISIT



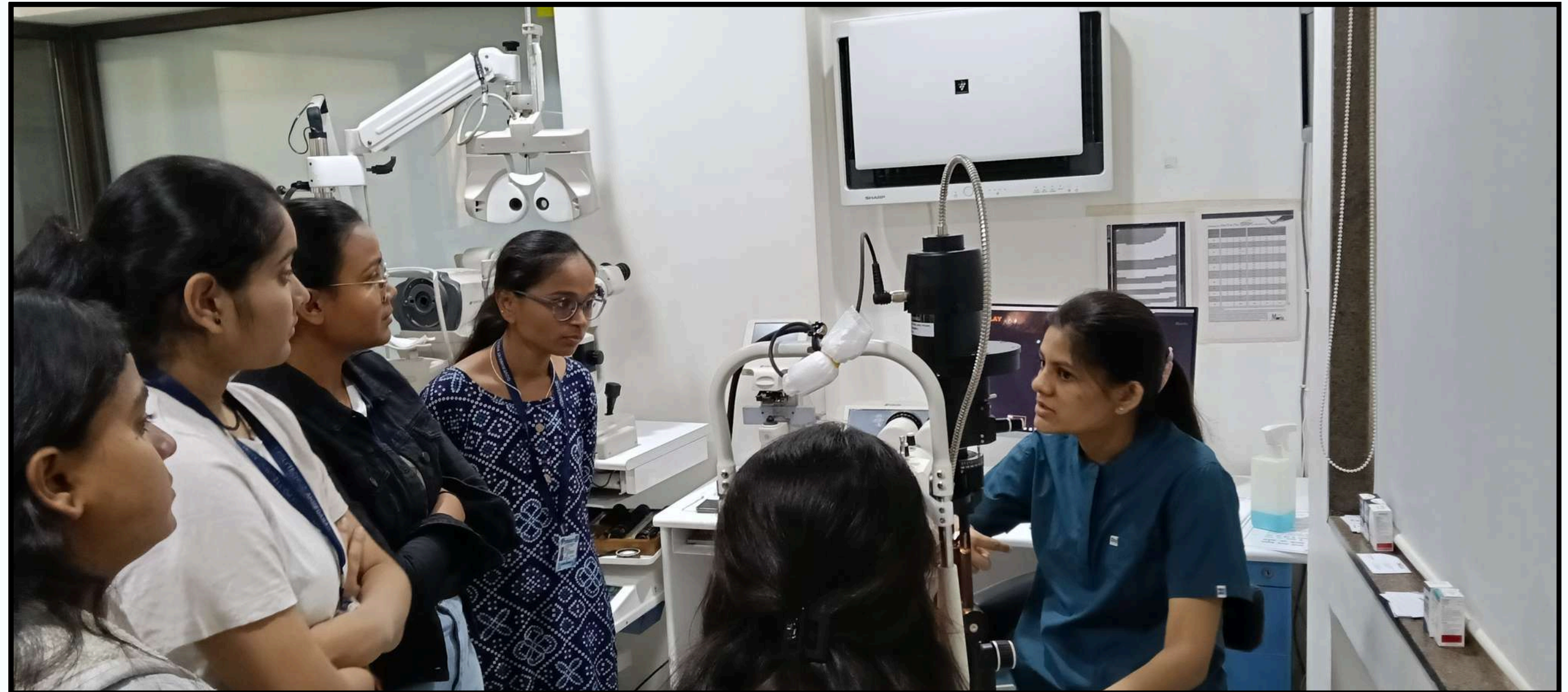
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Note: eye care

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# GLIMPSE OF VISIT



# GLIMPSE OF VISIT



**Slit lamp machine**

# GLIMPSE OF VISIT



**Students examine the Pupil and lens structure on Slit lamp machine**

# GLIMPSE OF VISIT



**Students examine the Pupil and lens structure on Slit lamp machine**

# GLIMPSE OF VISIT



**Direct Ophthalmoscope**



# GLIMPSE OF VISIT

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**Direct Ophthalmoscope**

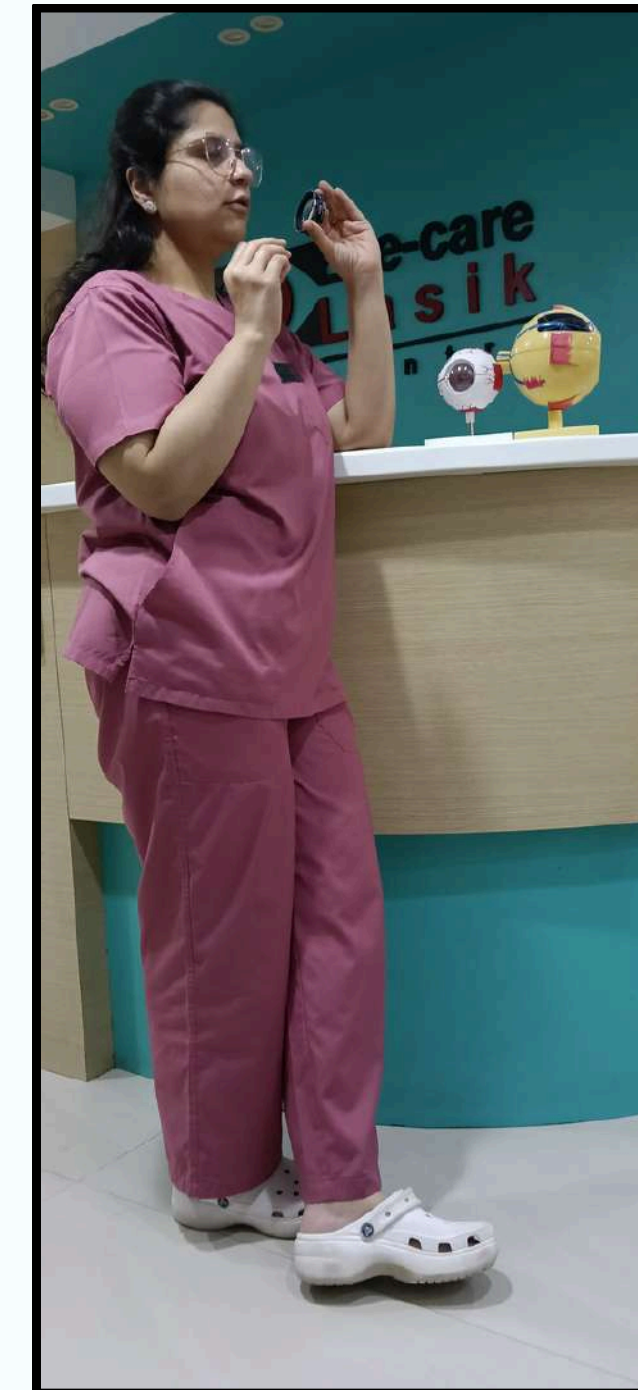
**Indirect Ophthalmoscope**



# GLIMPSE OF VISIT



# GLIMPSE OF VISIT



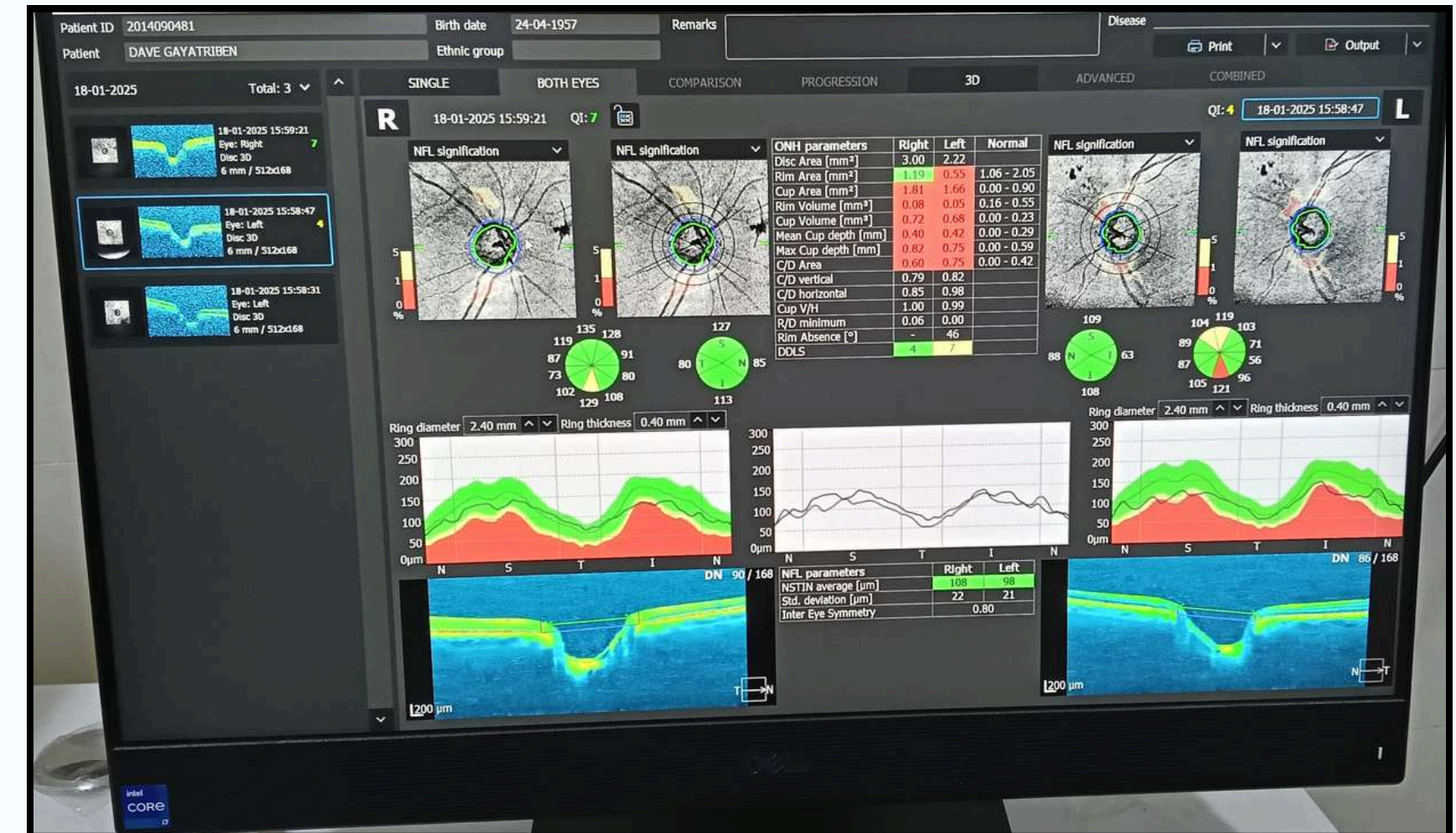
**Interactive question-and-answer session**

# GLIMPSE OF VISIT



**Interactive question-and-answer session**

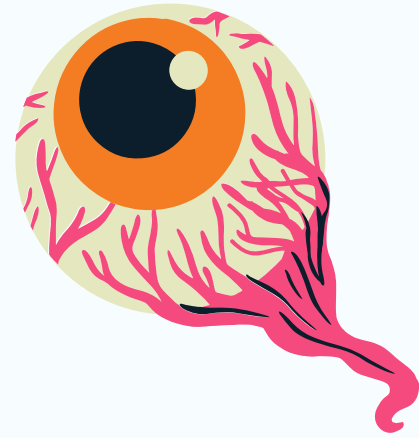
# GLIMPSE OF VISIT



# Optical Coherence Tomography

# GLIMPSE OF VISIT

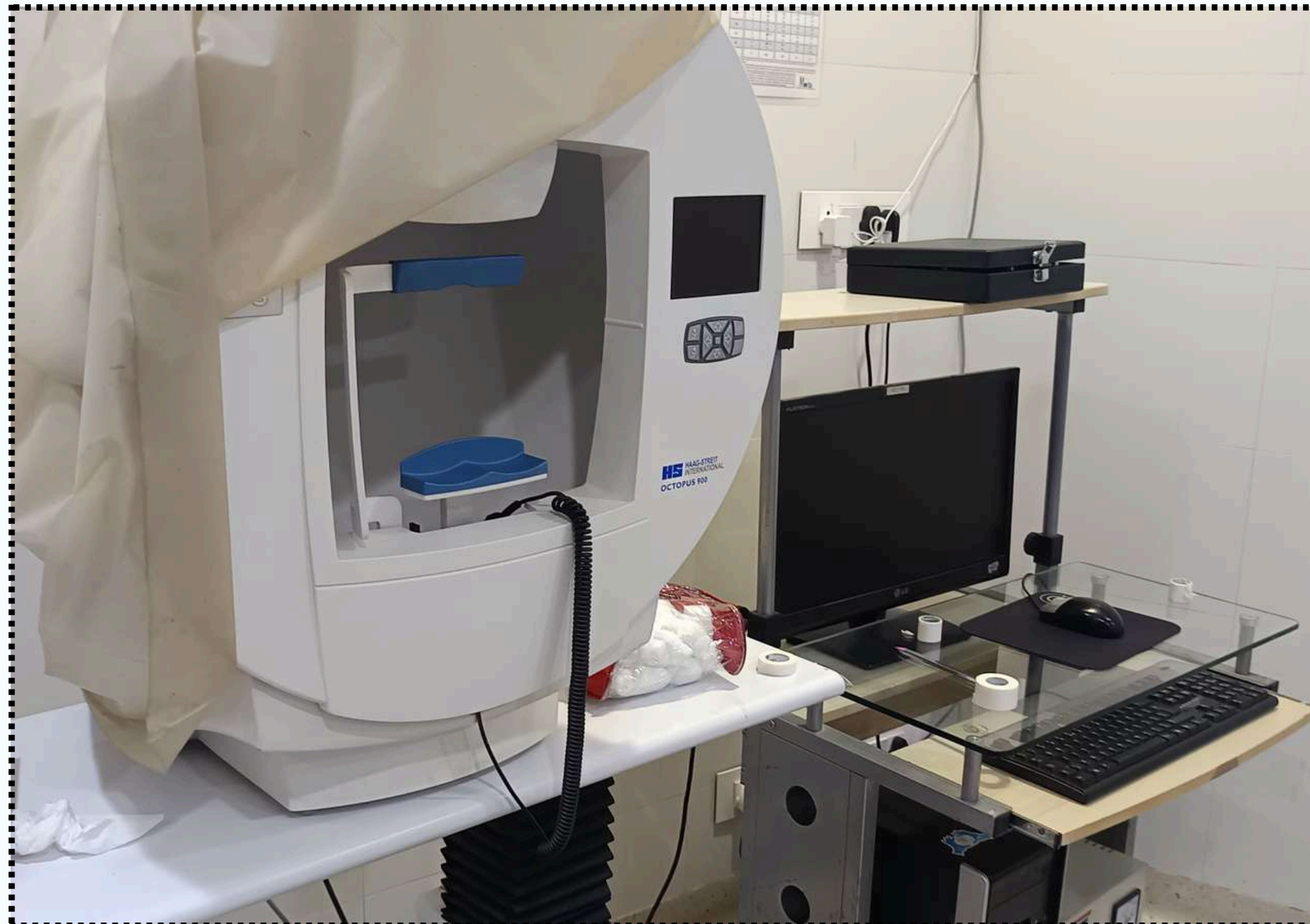
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**OCT is a non-invasive imaging test used to obtain high-resolution cross-sectional images of the retina and optic nerve**

# GLIMPSE OF VISIT

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Perimetry is a diagnostic test used in ophthalmology to evaluate the visual field, which refers to the total area a person can see while focusing on a central point.

**Perimetry**

# GLIMPSE OF VISIT

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**Pentacam**

A Pentacam is an advanced diagnostic device used in ophthalmology to analyze the anterior segment of the eye. It employs a rotating Scheimpflug camera and a single slit light source to capture detailed 3D images of the cornea, anterior chamber, iris, and lens.

# GLIMPSE OF VISIT




**Tonometer is an instrument used to measure the intraocular pressure (IOP) of the eye**

# GLIMPSE OF VISIT



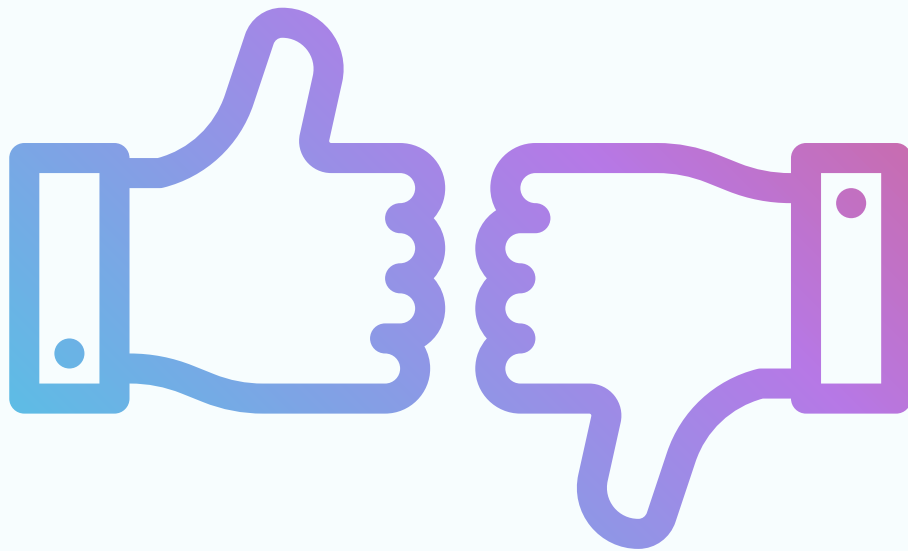
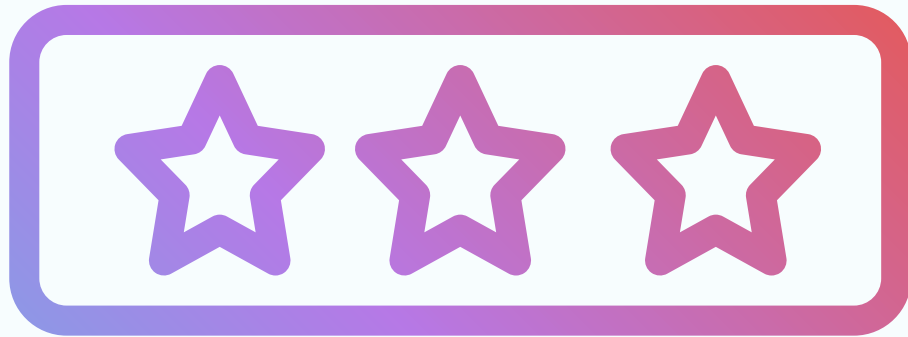
# ATTENDANCE




**GOVERNMENT POLYTECHNIC, AHMEDABAD**  
**BIOMEDICAL DEPARTMENT**  
 Course Code: 4360306    Course Name: Ophthalmic Instrumentation  
 Hospital Visit-Eye Care Hospital  
 D: 03/02/2025

Sr.No.	Enrollment No.	Name	Sign
1	206170303053	Hareem Sharma	Hareem
2	226170303081	Patel Nitya	Nitya
3	226170303073	Garwal Ankita	A.P. Garwal
4	226170303052	Vyas Nupur	N.B. Vyas
5	226170303026	Parodiya Poochi	Poochi
6	226170303030	Patel Gopi	Patel
7	226170303033	Patel Sumee	Sumee
8	226170303046	Thakkar Aditya	Aditya
9	226170303051	Veland Nishant	Nishant
10	226170303022	Murwani Krunal D.	Krunal
11	226170303016	Jain Manthana S.	Manthana
12	<del>226170303018</del> 2118	Patankar Dattesh Purnim	D.P.
13	226170303034	Shet Sakin S.	Sakin
14	226170303040	Shakya Sanjana P.	Sanjana
15	226170303011	Gamit Pinkal A.	Pinkal
16	226170303012	Gamit Zinal M.	Zinal
17	226170303036	Ram Janvi J.	Janvi
18	226170303029	Parmaar Janvi B.	Janvi
19	226170303032	Patel Santhak A.	Santhak
20	226170303014	Hudiyal Nishay A.	Nishay
21	226170303004	Chudasama Jashraj - J.	Jashraj
22			
23			
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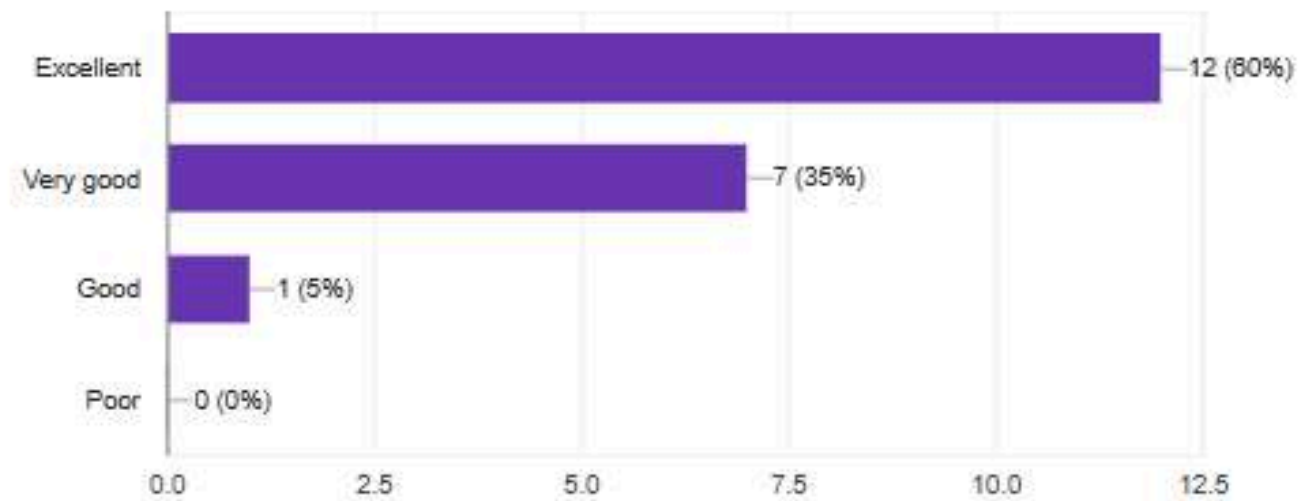
# FEEDBACK



How do you rate your overall experience of the visit?

[Copy chart](#)

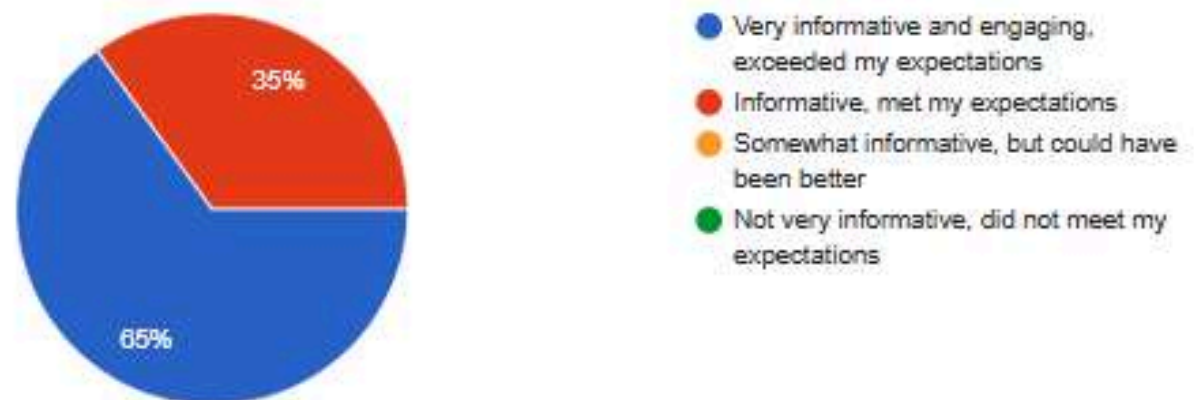
20 responses



Please select the option that best reflects your experience during the hospital visit

[Copy chart](#)

20 responses



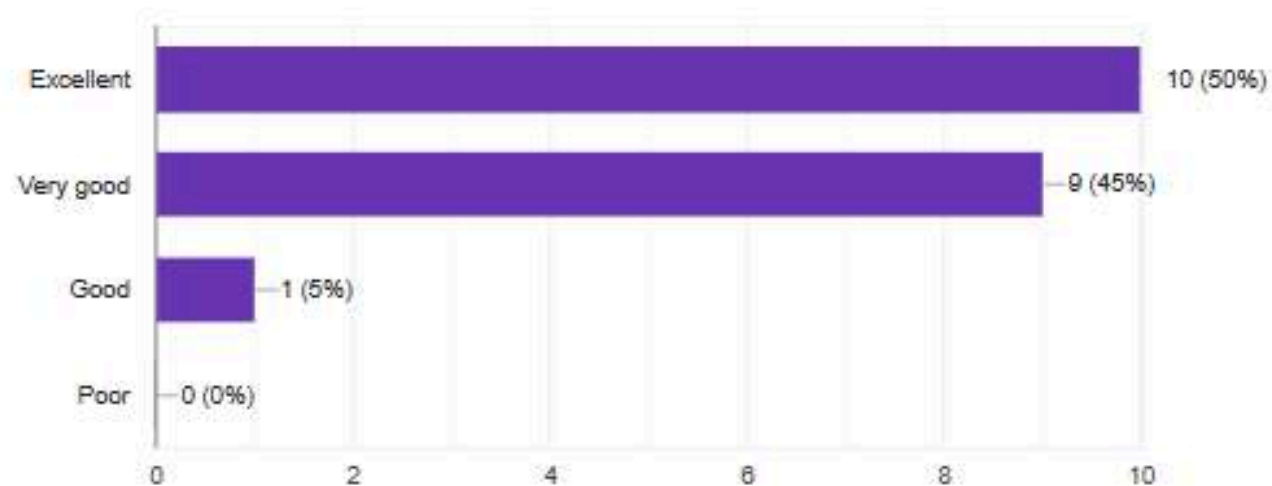
# FEEDBACK



How do you rate the content of the visit?

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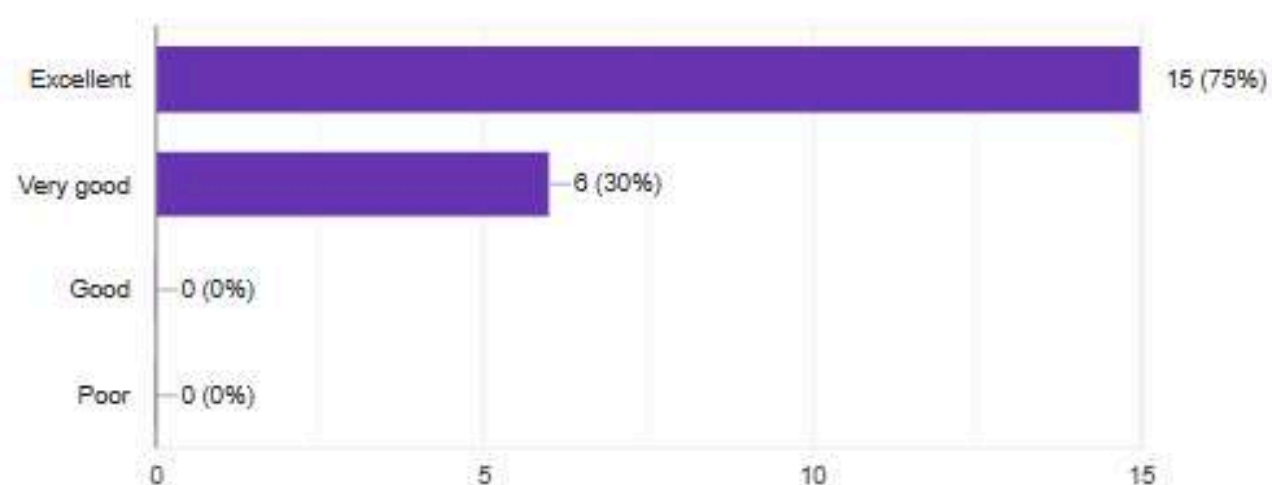
20 responses



How was the quality of the instruments that were demonstrated?

[Copy chart](#)

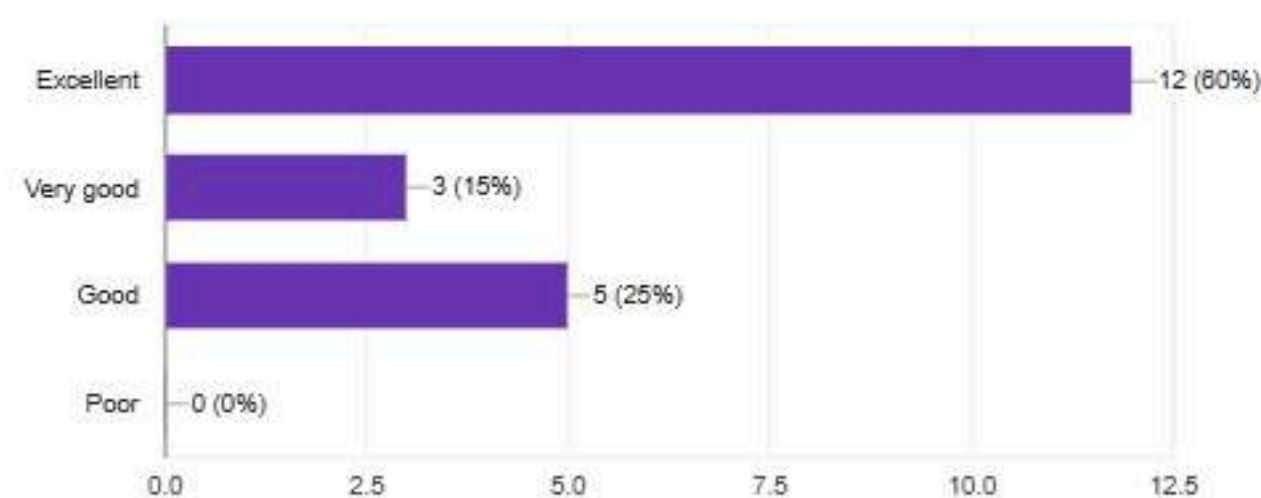
20 responses



How was the quality of the lecture that were delivered by Expert/Doctor?

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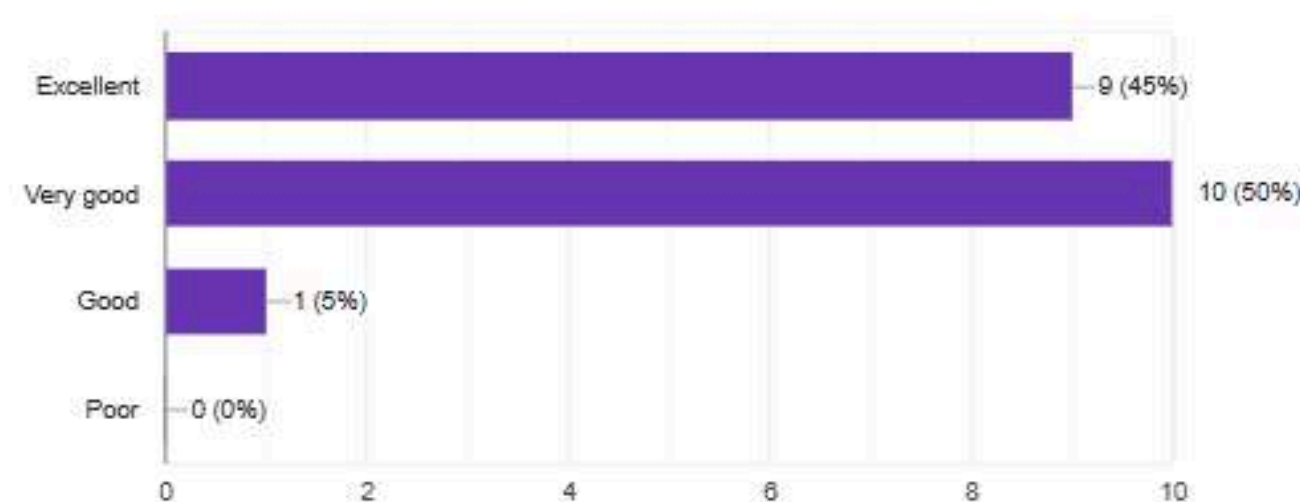
20 responses



How do you rate the relevance of the said visit with your curriculum?

[Copy chart](#)

20 responses



# FEEDBACK

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- I have received very important information and I have learned a lot about my eye
- Very good visit
- Wonderful experience and informative visit
- It was very nice visit & the lecture was great we learnt very different type of lessons
- First of all thank you so much ma'am to organize this visit, that was a great experience for us & big thanks to all doctors..
- Excellent visit and very knowledgeable.
- Hospital was very well maintained,, doctors were very interactive and helpful, we get to learn a lot from the visit about different instruments used in medical engineering.
- it was very helpful
- Very informative visit about ophthalmology instruments like slit lamp, Ophthalmoscope.
- Very good experience and enjoy the visit
- The visit was so amazing that provided a huge amount of knowledge and detailed explanation regarding the machines and their workings.

# APPRECIATION

THANK  
YOU



## Government Polytechnic, Ahmedabad

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Website: [www.gpahmedabad.ac.in](http://www.gpahmedabad.ac.in)



No. GPA/BME/08/6-2-25

Date: 6/2/2025

### CERTIFICATE OF APPRECIATION

To,

Dr. Anshi Rathod  
Ophthalmic Surgeon  
Eyecare hospital, Ambawadi,  
Ahmedabad- 380015

Respected Madam,

We extend our heartfelt gratitude for your kind cooperation and support in facilitating the hospital visit on "Ophthalmic Instruments" for the students of Semester VI, Diploma in Biomedical Engineering, conducted on 3<sup>rd</sup> February, 2025 at your esteemed hospital.

This visit greatly benefited the students by enhancing their understanding of the working principles and operations of various ophthalmic instruments. The interactive, hands-on demonstrations provided invaluable practical exposure, covering key aspects of major ophthalmic instruments in detail.

We sincerely thank you for dedicating your valuable time and actively participating in conducting such an insightful session. Additionally, the interactive question-and-answer session you conducted was highly engaging and beneficial. Your thoughtful responses to the students' queries helped clarify their doubts and deepened their interest in the subject. This interactive discussion encouraged critical thinking and enriched the overall learning experience.

We also express our appreciation to the entire staff of Eye care Hospital for their warm cooperation and support. In particular, we deeply value your efforts in coordinating and ensuring the smooth execution of the visit. We look forward to continuing this fruitful association with many more such opportunities in the future.

Best Regards,

HOD

Biomedical Engineering  
Head of Department  
Biomedical Engineering  
Government Polytechnic Ahmedabad

# REPORT OF VISIT



## GOVERNMENT POLYTECHNIC, AHMEDABAD BIOMEDICAL DEPARTMENT

Course Code: 4360306 Course Name: Ophthalmic Instrumentation  
Hospital Visit Report-Eye Care Hospital D: 03/02/2025

Sr.No.	Enrollment No.	Name	Report Topic	Submitted on
1	206170303053	HARERAM SHARMA	Optical Coherent Tomography	
2	216170303018	DATESH PANCHAL		
3	226170303003	CHAUHAN MOHAMMEDZAI D LATIFBHAI		
4	226170303004	CHUDASAMA JASHRAJSINH JAYENDRASINH	Slit Lamp Ophthalmoscope	
5	226170303011	GAMIT PINKALKUMARI ASHVINBHAI		
6	226170303012	GAMIT ZINALKUMARI MAYURBHAI	Direct Ophthalmoscope	
7	226170303013	GARVAL ANKITABEN PREMIBHAI		
8	226170303014	HADIYAL NISARG AMBARBHAI	Tonometer	
9	226170303016	JAIN MANTHAN SHAILESHKUMAR	Indirect Ophthalmoscope	
10	226170303022	MAKWANA KUNALBHAI DASHRATHBHAI		
11	226170303026	PALADIYA PRACHI HARESHBHAI		
12	226170303029	PARMAR JANVI BHARATBHAI	Perimetry & Pentacan	
13	226170303030	PATEL JIL PRAVINBHAI		
14	226170303031	PATEL NITYA YOGESHBHAI		
15	226170303032	PATEL SARTHAK ASHOKBHAI	Refractometer	
16	226170303033	PATEL SUHANE TEJASBHAI		
17	226170303036	RANA JANVIBEN JIGNESHBHAI		
18	226170303038	SHAH PASHWA SAMIRBHAI	Summary of Report	
19	226170303040	SHAKYA SANJANA PRAMILKUMAR		
20	226170303046	THAKKAR ADITYA GIRISHBHAI		
21	226170303051	VALAND NISHANTKUMAR	YAG laser	
22	226170303052	VYAS NUPUR BHARATBHAI		



**For more Glimpse:**



*Thank You!*  
**Eye Care Hospital**