



# SWAMI VIVEKANANDA UNIVERSITY

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## Completion Report of "Vision Sculpted - Ortho-K & Scleral Lens Mastery"

### VISION SCULPTED: ORTHO-K & SCLERAL LENS MASTERY

WORKSHOP

**TOPIC**

**Rigid Custom Ortho K and Scleral Contact Lenses:  
From Fundamental Principles to Advanced Appli-  
cations in Vision Correction and Ocular Surface  
Management, Fitting, and Care Maintenance**

**BASIC TO ADVANCE OF RIGID CONTACT LENSES**

*Learn about current and emerging technology related to speciality  
contact lenses & orthokeratology.*

**SWAMI VIVEKANANDA UNIVERSITY**

**February 14th - At 10:30 am**

**Organized By**

**Department of Optometry**

**Swami Vivekananda University - Barrackpore**

**Mr. Gagan Sahni**

Director Professional Services.  
SILVERLINE LABS PVT LTD.

Organized by: Department of Optometry

Date: 14th February 2026

Venue: Swami Vivekananda University

## Vision Sculpted – Ortho-K & Scleral Lens Mastery

Department of Optometry

Swami Vivekananda University

Date: 14th February 2026

The Department of Optometry, Swami Vivekananda University, successfully organized an advanced clinical workshop titled “Vision Sculpted – Ortho-K & Scleral Lens Mastery” on 14th February 2026. The workshop was conducted by Mr. Gagan Sahni, Mr. Naved, and Mr. Sarfaraz, experienced professionals in specialty contact lens practice with extensive expertise in Orthokeratology and Scleral Lens fitting.

The session was attended by second and third year Optometry students, along with respected faculty members including Mrs. Dipanwita Ghosh, Dr. Prabirendranath Sinha, Dr. Manas Chakraborty, Mr. Sourav Karmakar, Ms. Srimanti Sarkar, Ms. Aratrika Chail, Ms. Anusuya Das, Ms. Prasansha Bardhan, Ms. Shreyshi Mahata, and Ms. Sourashree Mondal.

### Academic Focus and Objectives

The workshop was designed to provide a comprehensive understanding of specialty contact lenses through a structured blend of theoretical concepts and practical exposure. The primary objectives included:

Understanding the scientific principles of Orthokeratology and its application in myopia control

Exploring advanced scleral lens design and fitting strategies

Identifying suitable patient profiles for specialty lenses

Learning detailed clinical evaluation techniques including vault analysis and tear reservoir assessment

Strengthening clinical reasoning in managing fitting complications

The speakers collectively elaborated on the evolution of specialty lenses and their increasing relevance in contemporary optometric practice. They emphasized how specialty contact lenses are becoming an essential component in managing complex refractive errors and irregular corneal conditions.



### Theoretical Insights: Ortho-K and Scleral Lens Practice

The Orthokeratology segment focused on corneal reshaping mechanisms, overnight lens wear protocols, and its significance in controlling progressive myopia. Clinical safety considerations, patient compliance, and follow-up monitoring strategies were discussed in detail.

The scleral lens segment provided in-depth knowledge of ocular anatomy, emphasizing scleral landing zones, limbal clearance, and sagittal depth. The speakers explained how proper vault management ensures both visual correction and corneal health. Students were introduced to lens material considerations, oxygen permeability factors, and physiological implications of extended wear.

Case-based discussions allowed students to understand real-world management of conditions such as keratoconus, post-refractive surgery ectasia, and ocular surface disorders.

### Hands-On Scleral Lens Practice

A major highlight of the workshop was the hands-on practical session on scleral lens fitting, which significantly enriched the learning experience.

Under the guidance of Mr. Gagan Sahni, Mr. Naved, and Mr. Sarfaraz, students observed and engaged in:

Step-by-step scleral lens insertion and removal techniques

Slit lamp evaluation of central and peripheral vault

Assessment of limbal clearance and scleral alignment

Fluorescein pattern analysis to evaluate tear reservoir distribution

Identification of air bubbles, edge lift, compression, and bearing

Decision-making regarding lens parameter adjustments

The live demonstration and guided practical exposure allowed students to correlate theoretical principles with real-time clinical findings. Students were encouraged to ask questions, analyze fitting outcomes, and understand troubleshooting techniques.



This practical component greatly enhanced their confidence in handling specialty lenses and improved their understanding of advanced clinical protocols.

#### Interactive Engagement and Clinical Development

The workshop maintained an interactive and participatory format throughout the session. Faculty members contributed valuable insights by presenting clinical scenarios and encouraging analytical discussion.

Students developed clarity in:

Communicating specialty lens benefits to patients

Managing patient expectations

Conducting structured follow-up assessments

Maintaining hygiene, safety, and documentation standards

The integration of lecture, case discussion, and hands-on demonstration created a dynamic learning environment that effectively bridged academic instruction with clinical application.

#### Academic Significance

The workshop contributed significantly to strengthening practical competencies among second and third year Optometry students. Specialty contact lens practice demands precision, critical thinking, and hands-on expertise, all of which were effectively addressed during the session.

Such advanced clinical workshops reflect the department's commitment to experiential learning and outcome-based education, preparing students for modern optometric practice and specialty lens management.

We are thankful to Dr. Nandan Gupta sir, Chancellor, Swami Vivekananda University for his immense support; Prof.

(Dr.) Subrata Kumar Dey sir, Vice Chancellor, Swami Vivekananda University for making us reach new heights; Prof.

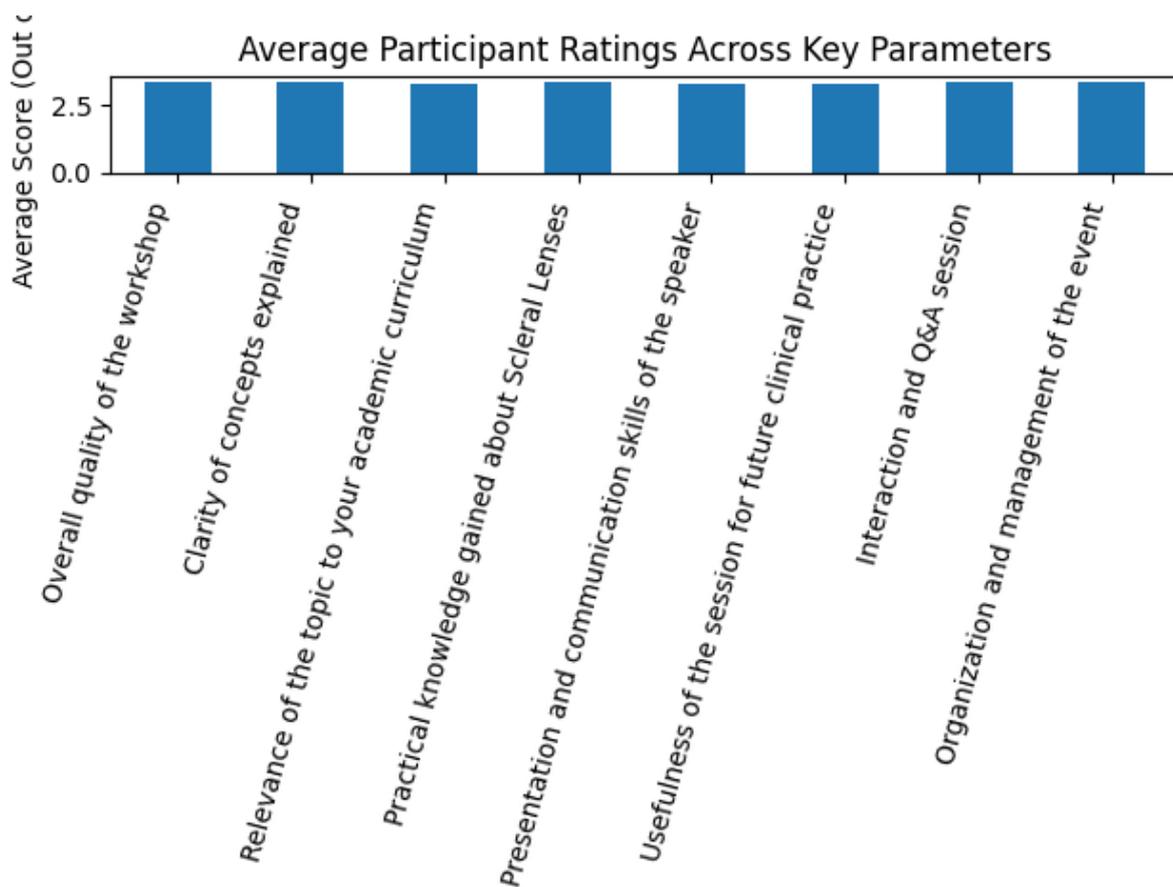
(Dr.) Pinak Pani Nath Sir, Registrar, Swami Vivekananda University for guiding us and Mr. Saurabh Adhikari sir, Chief

Operating Officer, Swami Vivekananda University being with us since the beginning.



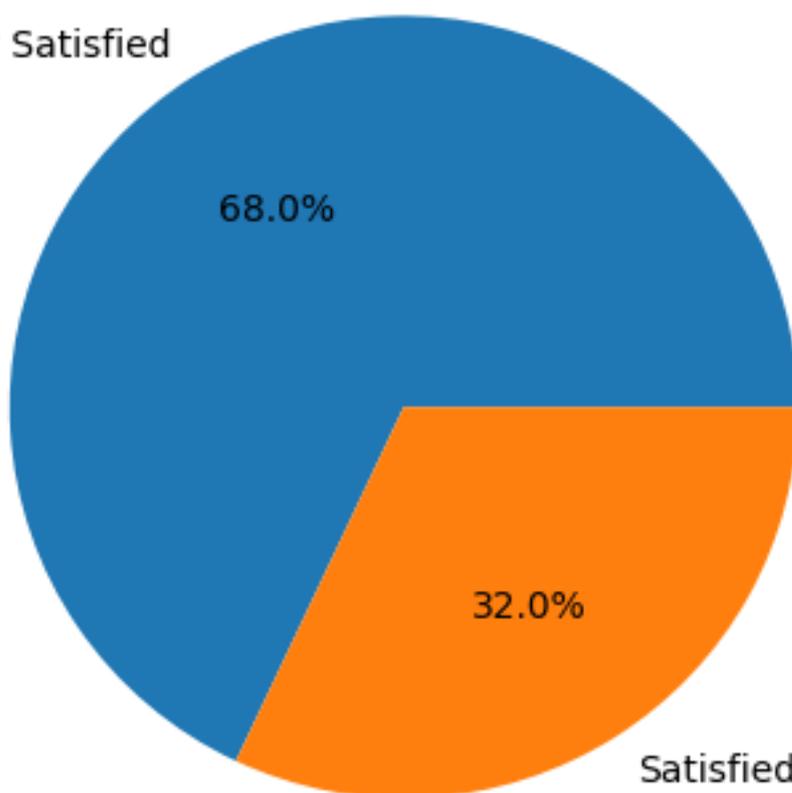


## Report analysis of Student feedback form



## Overall Satisfaction Level of Participants

Highly Satisfied



Satisfied

Willingness to Recommend Future Workshops

