



CIRCULAR



SCHOOL OF HEALTH AND ALLIED SCIENCE Department of Optometry

CIRCULAR

Ref No: AJU/SOHAS/026/25

Date 25-01-2025

It is hereby notified to all the students of Department of Optometry, School of Health & Allied Science that the Department will organise a “**Workshop on Optometry Instruments – A Scan**” for better practical approach and diagnostic interpretation of reports. The resource person will be from our MoU partner Nandadeep Eye Hospital, Maharashtra- **Mr Partha Shil**- Senior Optometrist, Nandadeep Eye Hospital, Maharashtra

All the students are instructed that the attendance is mandatory for the same.

Date- 27th January, 2025

Venue- Block B Auditorium

Time: - 02:00pm

HOD
Department of Optometry
School of Health & Allied Science

Sarbojeet Goswami
HOD & Assistant Professor
Department of Optometry
School of Health & Allied Science

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Office of the Registrar
IQAC
Class Coordinators In charge
Website
Office Record
Student Whatsapp group

WORKSHOP ON OPTOMETRIC INSTRUMENT – A SCAN

Date of Event	27.01.2025
Name of the Event	WORKSHOP ON OPTOMETRIC INSTRUMENT – A SCAN
Type of the Event	Professional Skill Development Programme
Conducted by	Department of Optometry
No. Of Participants	25

OBJECTIVE:

The objective of the workshop on optometry instruments – A-Scan is to provide in-depth knowledge of A-Scan biometry, its principles, and applications in measuring axial length for precise intraocular lens (IOL) calculations. It aims to enhance participants' skills in using the instrument effectively for accurate ophthalmic diagnostics.

DETAILS:

The Department of Optometry, School of Health and Allied Sciences successfully organized a professional skill development workshop titled "Optometric Instrument: A-Scan Biometry" today. This workshop aimed to enhance the technical proficiency and theoretical knowledge of optometry students and professionals in the field of advanced ocular diagnostics.

The session was led by Guest Lecturer Optom. Partha Shil, a distinguished faculty member at Nandadeep School of Optometry, Sangli, Maharashtra. With his expertise in advanced optometric diagnostics, he provided invaluable insights into the principles and applications of A-Scan Biometry, a crucial tool in measuring axial length for precise intraocular lens (IOL) power calculations.

Participants had the opportunity to gain knowledge of the latest techniques, interpretation methods, and clinical applications of A-Scan biometry. The interactive session allowed attendees to engage in discussions, clarify doubts, and strengthen their understanding of the technology's significance in modern optometric practice.

This workshop served as a platform for students and professionals to bridge the gap between academic knowledge and clinical practice, ultimately equipping them with essential skills to improve patient care outcomes.



TAKEAWAY (OUTCOMES):

A Scan lecture session of Optom. Partha Shil provided participants with real life demonstrating videos and theoretical knowledge of A-Scan ultrasonography, enhancing their skills in biometric measurements and intraocular lens (IOL) power calculations. Attendees gained confidence in handling A-Scan devices, interpreting results accurately, and troubleshooting errors, making it a valuable learning experience for clinical applications in optometry. The positive feedback highlighted the workshop's effectiveness, with suggestions for future training on advanced diagnostic tools.



ARKA JAIN
University
Jharkhand



POSTER OF THE EVENT



ARKA JAIN
University
Jharkhand



RANKED 52ND
BEST PRIVATE UNIVERSITY IN INDIA



Department of Optometry

Organizes

Workshop on **OPTOMETRIC INSTRUMENTS**

A-Scan Biometry-A Practical Approach

A Professional Skill Development Program

Date : 27th January, 2025

Time : 2:00 PM IST

Venue : B-Block Auditorium

Event Coordinator :

Ms. Parna Dhara

Convener :

Mr. Sarbojeet Goswami



SPEAKER

Optom. Partha Shil

M.Optom | F.NEH | PhD Scholar |

Lecturer at Nandadeep School of Optometry
Sangli, Maharashtra.

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1800 - 1200 - 200

PHOTOS OF THE EVENT



Fig.1 Specker explaining about A- Scan.

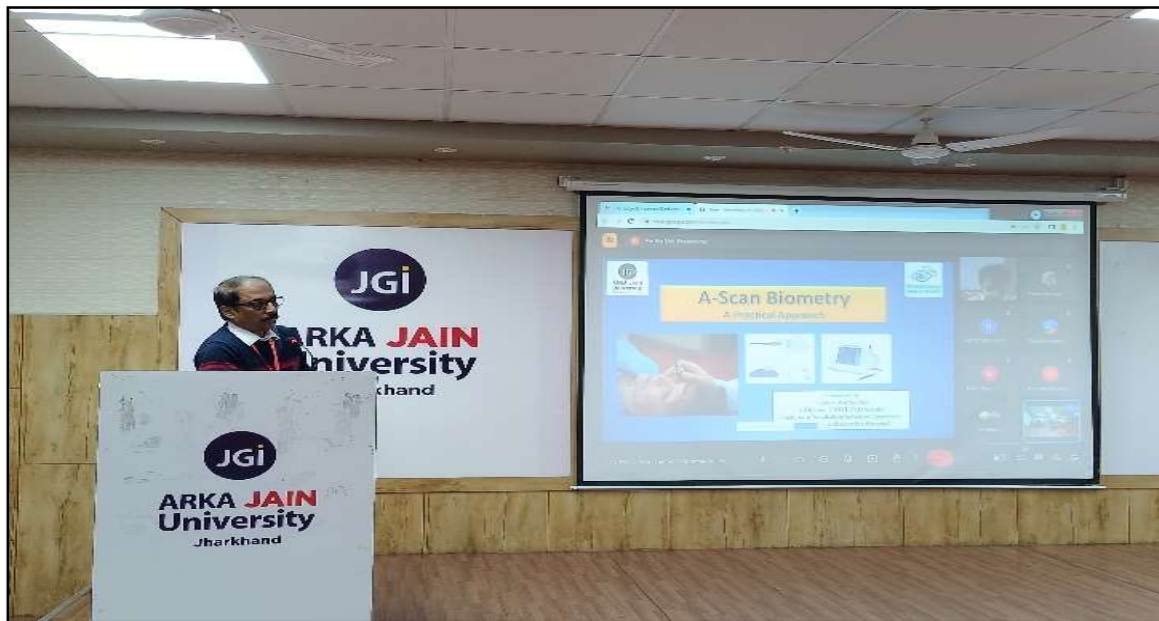


Fig. 2- Inaugural of the Event



Fig. 3- Faculties Attending the Program

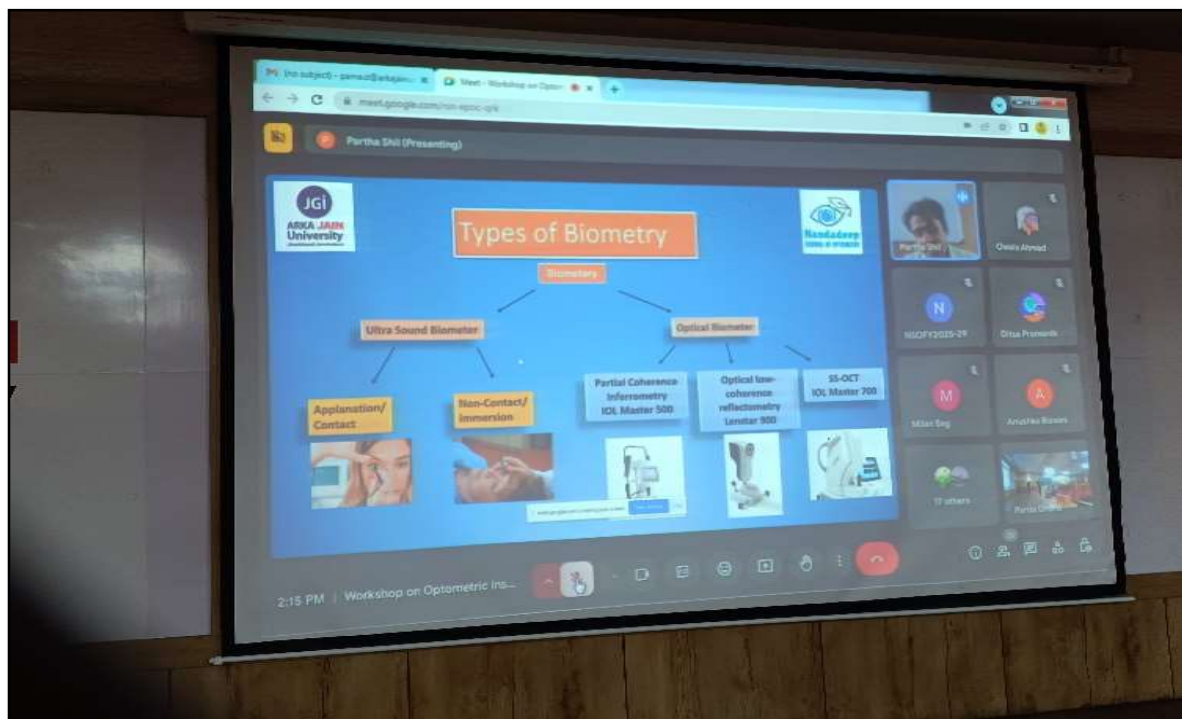


Fig. 4- Types of A Scan - Biometry




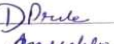

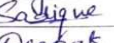

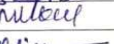



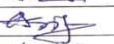
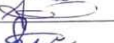






LIST OF PARTICIPANTS




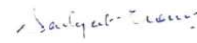
List of Attendees: Workshop on Optometric Instrument

[27.01.2025]

B.Optomtry

SL.No.	Enrollment number	Name of the Attendee	Signature
01	ASU/281037	Abdul zahid	
02	AJU/232017	Anvesh vikram	
03	AJU/231988	Arish Akmal	
04	AJU/230861	Mithilesh kr. Mahto	
05	AJU/231435	Ditaa Pramanik	
06	AJU/230933	Anushka Biswas	
07	AJU/231809	Riya Sharma	
08	AJU/231828	Mohammad Saadique Ali	
09	AJU/230260	Deepak Kumar	
10	AJU/231286	Sapna Shama	
11	AJU/230864	Mukul Kumar	
12	AJU/231142	Milan Bag	
13	AJU/231832	Sourabh Kumar	
14	AJU/231691	Sadaf Khan	
15	ASU/230579	Manish Kumar	
16	AJU/231375	Amar Mahato	
17	AJU/231366	Asif Raza	
18	AJU/231499	Achint kr. Mishra	
19	AJU/231204	Subham Nanda	


 Event Coordinator- Ms. Parna Dhara.


 Convener- Mr. Sarbojeet Goswami




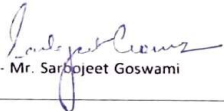
List of Attendees: Workshop on Optometric Instrument

[27.01.2025]

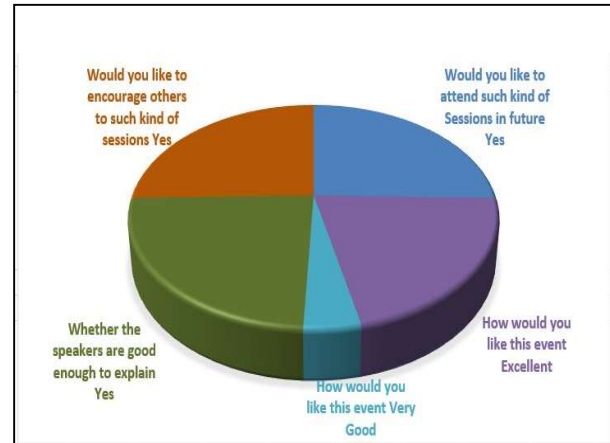
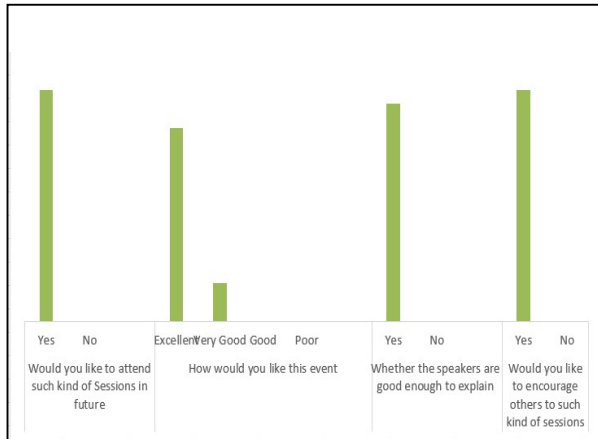
B.Optomety

SL.No.	Enrollment number	Name of the Attendee	Signature
20.	AJU/231400	Sabira Pasveen	Sabra.
21.	AJU/231410	Vibhakar Prasad	Vibhakar.
22.	AJU/231872	Aisha Iqbal	Aisha
23.	AJU/230027	Tahseen Fatma	Tahseen
24.	AJU/230305	Sheemaile Pasveen	Sheemaile
25.	AJU/231971	Komal Kumari	Komal Kumari


Event Coordinator- Ms. Parna Dhara.


Convener- Mr. Sarbojeet Goswami

FEEDBACK ANALYSIS



SAMPLE WRITEUPS

Report on Optometric Instrument
A-Scan

Shumaila Perween
ASU1230305
B-Optometry
Arka Jain University, Jharkhand
27th January, 2025.

On 27th January, The Department of Optometry organised a seminar on the topic A-Scan from the course Optometric Instrument. The seminar was commenced by the speaker, Mr. Partha Shil, lecturer from Mandla Deep School of Optometry, Maharashtra. It was a professional skill development program organised to help and guide students for the better understanding over the instrument and its advancements in the field of Optometry.

A-scan is a critical tool in Optometry for measuring the axial length of the eye, which is essential for diagnosing refractive errors. It plays a vital role in pre-surgical planning, ensuring precise intraocular lens (IOL) power calculation. Since, understanding the technology and its limitations is crucial for accurate diagnoses & patient care, the seminar had been very applicable and practical and advantageous.

Some important topics that were included were:-

- Ultrasound Biometry
- Piezoelectric effect / crystal
- Contact (Applanation) and Non-Contact Biometry
- Concepts of GATE
- Concept of GAIN

Report

Recently, on 27 Jan 2025, I attended a workshop on Optometric Instruments at Arka Jain University, organised by our department of Optometry. This session was conducted by Optom. Partha Shil, focused on "A scan Biometry: A practical approach". This workshop aimed to enhance our ^{under}standing of A scan biometry and its significance in ocular measurements and IOL Power calculations.

The session began with an introduction to A-scan biometry, where we learned about the different types and their applications. The working principle of ultrasound was well explained, helping us understand how sound waves travel through the eye and reflect from various ocular structures to measure axial length accurately.

We observed the procedure of performing an A-scan, including patient positioning, probe placement and obtaining readings. The importance of correct alignment to avoid measurement errors was highlighted. A crucial concept discussed was the piezoelectric effect, which is the fundamental principle behind ultrasound transducers. This effect allows the conversion of mechanical energy into electrical signals, enabling the visualization of ocular structures.

A major highlight of the workshop was the IOL Power calculation, with a focus on the SRK formula used in cataract surgery. We learned how the formula utilizes axial length and keratometry values to determine the appropriate IOL power, ensuring better post-surgical vision.

This workshop provided an in-depth understanding of A-scan biometry, from its principle to its clinical application. The practical demonstrations and discussion on axial length measurement, piezoelectric