



# Nethradhama ZEISS Refractive Surgery Course

**Duration:** Monday – Friday ( 1<sup>st</sup> August - 5<sup>th</sup> August, 2022)

**Venue :** Nethradhama Super Speciality Eye Hospital, Jayanagar, Bengaluru.

S.NO.	SCIENTIFIC PROGRAMME	DURATION
<b>DAY 1: BASICS OF REFRACTIVE SURGERY</b>		
<b>WELCOME NOTE : DR. SRI GANESH</b>		10 minutes
1	Decision making in refractive surgery - selecting a suitable procedure and candidate with clinical examples	30 minutes
2	Pre-operative evaluation for corneal refractive surgery (history taking, refraction, ocular examination, dry eye evaluation, counselling)	20 minutes
3	Corneal Topography: Principles and Interpretation	30 minutes
<b>Q &amp; A</b>		15 minutes
<b>TEA / COFFEE BREAK</b>		15 minutes
4	Role of advanced diagnostics in refractive surgery -Epithelial thickness profile -Corneal biomechanics -Aberrometry -Optical quality analyser	15 minutes 15 minutes 15 minutes 15 minutes
5	Managing unhappy patients after refractive surgery	20 minutes
<b>Q &amp; A</b>		15 minutes
<b>LUNCH BREAK</b>		60 minutes
6	Tour of refractive surgery workplace and live demonstration of tomography systems: -Pentacam -MS-39 -ATLAS -Corvis- ST -i-Trace -HD Analyzer	15 minutes 15 minutes 15 minutes 15 minutes 15 minutes 15 minutes
7	Live demonstration of work-up of patients for refractive surgery : PRK/LASIK/SMILE	
8	Observation of refractive surgery cases in OR (Optional)	

\* Speakers for the course to be updated



S.NO.	SCIENTIFIC PROGRAMME	DURATION
<b>DAY 2: ADVANCED SURFACE ABLATION</b>		
1	Principles of excimer lasers	20 minutes
2	Platforms of excimer lasers	20 minutes
3	Surgical techniques and terminologies of surface ablation	30 minutes
4	Post-operative care, pain management, medications and follow-up	15 minutes
<b>Q &amp; A</b>		15 minutes
<b>TEA / COFFEE BREAK</b>		15 minutes
5	Complications of surface ablation & their management	30 minutes
6	Topography-guided PRK treatments for irregular corneas	20 minutes
<b>Q &amp; A</b>		15 minutes
<b>LUNCH BREAK</b>		60 minutes
7	<ul style="list-style-type: none"> <li>- Live demonstration of work up of a case of PRK</li> <li>- Live demonstration of MEL-90 excimer laser system: treatment planning and data entry</li> <li>- Observation of PRK cases in OR</li> <li>- Hands on supervised training for registered candidates</li> </ul>	
<b>HIGH TEA</b>		

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S.NO.	SCIENTIFIC PROGRAMME	DURATION
<b>DAY 3: LASIK</b>		
1	Fundamentals, history, indications and contra-indications of LASIK	15 minutes
2	Current applications of wavefront-guided and wavefront-optimized LASIK procedures	15 minutes
3	Topography guided- LASIK for regular corneas	15 minutes
4	Flap creation with microkeratomes : planning, technique, and intra-operative complication management	30 minutes
<b>Q &amp; A</b>		15 minutes
<b>TEA / COFFEE BREAK</b>		15 minutes
5	Femtolasers technology for LASIK flaps : planning, technique, and intra-operative complication management	30 minutes
6	Managing post-operative complications of LASIK	30 minutes

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S.NO.	SCIENTIFIC PROGRAMME	DURATION
<b>DAY 3: LASIK (continued)</b>		
7	Enhancements after LASIK	15 minutes
<b>Q &amp; A</b>		15 minutes
<b>LUNCH BREAK</b>		60 minutes
8	<ul style="list-style-type: none"><li>- Live demonstration of pre-op work up of a case of LASIK with data entry in MEL-90 excimer laser</li><li>- Wet lab training of microkeratome / Femto - LASIK</li><li>- Observation of LASIK cases in OR</li><li>- Hands on supervised training for registered candidates</li><li>- Certification ceremony</li></ul>	
<b>HIGH TEA</b>		

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S.NO.	SCIENTIFIC PROGRAMME	DURATION
<b>DAY 4: PRESBYOND LBV (9 AM - 1 PM)</b>		
1	Theory and principles of PRESBYOND LBV correction	15 minutes
2	Patient selection and pre-operative counselling for PRESBYOND LBV	15 minutes
3	Pre-operative work-up, micro monovision assessment and CRS Master treatment planning for PRESBYOND LBV	20 minutes
4	Surgical procedure of PRESBYOND LBV	10 minutes
5	Causes and management of unhappy patients after PRESBYOND LBV	15 minutes
6	Enhancements after PRESBYOND LBV- When and How?	15 minutes
<b>Q &amp; A</b>		15 minutes
<b>TEA / COFFEE BREAK</b>		15 minutes
7	<ul style="list-style-type: none"><li>- Live demonstration of pre-op work up and data entry of a case of PRESBYOND LBV</li><li>- Observation of PRESBYOND LBV cases in OR</li><li>- Certification ceremony</li></ul>	
<b>HIGH TEA</b>		

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S.NO.	SCIENTIFIC PROGRAMME	DURATION
<b>DAY 4: SMILE (2 PM - 6 PM)</b>		
1	Fundamentals, history, and basic principles of SMILE	15 minutes
2	Tips for selecting your first SMILE patients	15 minutes
3	Patient preparation, centration and docking in SMILE	15 minutes
4	Intra-operative techniques of lenticule extraction in SMILE	15 minutes
5	Optimizing results with SMILE: nomograms, cyclotorsion management, energy settings, treatment planning in different scenarios	20 minutes
<b>Q &amp; A</b>		20 minutes
<b>HIGH TEA</b>		
<b>DAY 5: SMILE</b>		
6	Management of intra-operative complications-suction loss, black spots, cap tears, lenticule tears and retained fragments	30 minutes
7	Management of post-operative complications	20 minutes
8	Enhancements after SMILE	15 minutes
9	SMILE Pro with VisuMax 800 – clinical experience and results	15 minutes
<b>Q &amp; A</b>		15 minutes
<b>TEA / COFFEE BREAK</b>		
7	<ul style="list-style-type: none"><li>- Live demonstration of pre-op work up of a case of SMILE</li><li>- Demonstration of VisuMax femtosecond laser (both 500 and 800) with data entry</li><li>- Wet lab training : SMILE</li></ul>	
<b>LUNCH BREAK</b>		60 minutes
8	<ul style="list-style-type: none"><li>- Observation of SMILE cases in OR</li><li>- Hands on supervised training for registered candidates</li><li>- Certification ceremony</li></ul>	
<b>HIGH TEA</b>		

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