



WaveLab Scientific Pte. Ltd.

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ZEMAX Advanced+Illumination

Date and Time: 22 ---26 Mar 2010

Course Organizer: Wavelab Scientific Pte Ltd

Course Venue: Wavelab Scientific Pte Ltd

Course Price: SGD2100 per/ person. Group customers(2 or more) 30%off

Inquiry: 65-65649624 Ext 102, Email:training@wavelab-sci.com

Course Material: Edited by ZEMAX Corp, USA.

All the topics will be simulated by the ZEMAX software for your visualization

Course Introduction

Advanced Design Using ZEMAX is a five day course that covers the design and analysis of more complex imaging systems, including local and global optimization, merit functions, diffraction theory, diffractive optics, polarization, advanced tolerancing, advanced analysis techniques, gradient index, fiber coupling, boundary conditions, zoom lenses, birefringent media, the Physical Optics Propagation capability and other topics. This advanced course also includes a half-day session on designing for manufacture. **Illumination** that covers non-imaging design and analysis with ZEMAX, including non-sequential ray tracing, scattering, ray splitting, user defined sources/objects/surfaces, solid geometry modeling, CAD import/export, gradient index media, diffractive optics, illumination system design and optimization and other advanced non-sequential analysis and modeling capabilities of ZEMAX.

Tutor Introduction

Mr. Neeraj Lakhota, holds a Master Degree in Applied Optics from Indian Institute of Technology, Delhi (IITD), INDIA, one of the premier technical Institute. He had more than 4 year's job experience in field of optics, Holography and Data Storage. He Provided Lectures on ZEMAX at Nanyang Technological University (NTU), Singapore. He also He completed 2 Projects in Wakayama University, JAPAN

Who Should Attend?

Laser engineers, optics engineers, system engineers, photonics related professions, engineering managers.

Course Timetable

Date Time	Day 1	Day 2	Day 3	Day 4	Day 5
9:00-10:30	Introduction Optimization	Gradient reflective of index lens design F-theta lens Design	Laser Beam Propagation Gaussian Beam	Assembly Analysis Scattering(BS DF)	NSC Beam Splitter Photo-Realistic Image Analysis
10:30-10:45	Tea break	Tea break	Tea break	Tea break	Coffee break
10:45-12.15	Optical Design Process ZEMAX Interface	Thermal Analysis Diffraction Optics	Physical Optics Propagation Free Space Sample POP Sample	NonSequential Components and Object Light Source	Interference and Interferometer
12:15-13:30	Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
13:30-14:30	Doublet Lens Design ZEMAX Diagnostic Tools and Optimization	Polarization Tracing Test Plate Fitting	Multi Mould Fiber Coupling Efficiency Single Mould FCE	ZEMAX Detector Geometric Object. Non Sequential System Sample	ZEMAX Illumination System Light Guide Illumination Design Free Form Optics Reflective Lens Design
14:30-14:45	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
14:45-16:30	Optimization on Glass Imaging Analysis	Tolerance Control and workflow Tolerance of Single Lens and Cooke Triplet Lens	Physical Optics Fiber Coupling Efficiency	Non Sequential Prism System Polarization and Thinfilm Coating	ZEMAX Focusing Lens Design Projector System Design Object Matrix
16:30-17:00	User Defined Interface	User Defined Tolerance	CAD Import and Export	Light Stray Database	Discussion

Reply Slip

If you would like to attend the course, please fill up following details and email back to us at training@wavelab-sci.com or fax to us at 65649627

Name:		Email&Phone	
Company And Address		Job Title	