



Photronics Science Co., Ltd.

Head Office: 9/10 Chao Khun Thahan Rd., Khlong Sam Prawet, Lat Krabang, Bangkok 10520

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Email: [sales@photronics-science.com](mailto:sales@photronics-science.com) [www.photonics-science.com](http://www.photonics-science.com)

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## **ZEMAX Basic Training COURSE**

Invite training course Optical Design and Analysis by ZEMAX software organizer Photronics Science Co., and Wavelab Scientific Pte Ltd cooperate on November 26-28 '2012 Training at Photronics Science Co., Ltd.

More information: Mr. Piyasit Subaneyot Tel. 02-172-8578 Ext. 24, 25

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### **Course Introduction**

This course provides a thorough introduction to the Zemax optical system design environment. By the end of the class, attendees will have acquired the skills to be productive Zemax users. No prior knowledge of Zemax is required. The course concentrates on sequential ray tracing, but a day is devoted to non-sequential ray tracing. Hands-on examples and exercises apply the material to realistic optical design problems

### **Lecture**

“Mr.Vijaya Mohan Raj” was studied Master of Science and Technology in Engineering Physics with specialization in Photonics from National Institute of Technology, Warangal. He is presently working as Senior Technical Support Engineer in Wavelab Scientific Pte Ltd, Singapore. He had given corporate training on Optical System Design using Zemax software in Singapore, Australia, Thailand, Nanyang Technological University, Singapore and India. He has given customized training for various organizations, such as BAE Systems, Australia and Nanyang Polytechnic, Singapore, 3M Singapore etc He worked on projects on 2000X High Photovoltaic Concentrator using Zemax software, Design of Dual Laser Beam Recorder using Zemax software , Holography Data storage, Laser scribing to increase the shunt resistance of the solar cell, Organic solar cell, Increasing the extraction efficiency of the small molecular light emitting diode in Moserbaer India Limited, India. He worked on led streetlight, Led High Bay lighting, Led Downlighting, Led Panel lighting in Varroc Engineering Private Limited, India. He worked on Led streetlight, Led Panel light in Greenstar Engineering Private Limited, India.



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## **ZEMAX Basic Training COURSE**

**Date and Time:** 26 - 28 Nov. 2012

**Course Organizer:** Photonics Science Co.,Ltd. & Wavelab Scientific Pte Ltd

**Course Venue:** Photonics Science Co., Ltd.

**Course Material:**

The contents of the training and certification of this collaboration ZEMAX in USA.

In this workshop, you will discover the capabilities of the software ZEMAX

**Course Price:**

20,000 Baht. (Not include VAT 7%)

Since 2 people are willing to give a 10% discount

\*\* Withholding 3% Tax ID. 3030868015

Photonics Science Co., Ltd. 9/10 Chao Khun Thahan Rd., KhlongSam Prawet, Lat Krabang, Bangkok 10520

**Date line: 5 Nov. 2012**

**Inquiry:**

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**Registration application Fax. 02-172 8579**

**Payment Term:**

- Cheque or TT to Photonics Science Co., Ltd., Bangkok Bank, Saving Acct. 864-0-03996-5

- Fax pay in specify course name fax to NO. 02-172 8579

(Participants are responsible for the transfer of the funds from the provinces)



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## The course

Registered: 8.30 am.

Start: 09.00 am. – 17.00 pm.

Date Time	Day 1	Day 2	Day 3
9:00-10:30	Overview of ZEMAX Imaging Vs Non Imaging Non – Sequential Component, Source, Object & detector	Tyman Green Interferometer Michelson Interferometer	Birefringent materials F-Theta lenses Gradient index lenses
10.30-10:45	Tea break	Tea break	Tea break
10.45-12:00	Gaussian Beam Analysis Laser Parameter (Divergence, Beam Mode, M2 factor)	LED Modeling EYE Modeling	LED Traffic Light Simulation LED Uniformity Simulation LED Source Analysis LED View Angle Measurement
12:00-13:30	Lunch break	Lunch break	Lunch break
13:30-14:30	Single Lens Design Doublet Design	Solar Concentrator CPC Rectangular Concentrator	PRISM Beam Splitter
14:30-14:45	Coffee break	Coffee break	Coffee break
14:45-16:30	Aspheric Lens Plastic lens Micro lens Array	Diffraction Optics Grating Fresnel Lens	Auto CAD/ Solid works Mechanical Design CAD Import & Export
16:30-17:00	Discussion	Discussion	Discussion