In this module, systems engineering is viewed as an enabling discipline that provides a set of thinking tools that can be used to solve simple and complex problems in all disciplines and domains. Not only does this module explain what systems engineering is and how it is used, but it also explains why systems engineering means different things to different people. This module is very different from similar introductory systems engineering modules in that its development makes use of systems engineering approach. Specifically, taking into account the needs of a diverse group of stakeholders (industry/government employers and employees, students, and academia) and applying modern educational methodologies with some cognitive psychology principles, this module aims at providing an effective learning opportunity to mature students who are employed in the work force with corresponding demands on their time. This module will change the way you think.

About the instructor:

Dr. Tom Huynh is a Visiting Associate Professor at Temasek Defence Systems Institute (TDSI) of National University of Singapore. He was an Associate Professor of Systems Engineering at Naval Postgraduate School (NPS) for nine years. During this time, he taught systems engineering and project management and received awards for excellence in systems engineering and for teaching excellence in systems engineering; served as a co-advisor for three PhD theses and 26 master’s theses. Prior to NPS, Dr. Huynh spent 25 years in aerospace industry – first with Science Applications International Corporation (SAIC) and then with Lockheed Martin (LM). At SAIC, he developed and implemented computationally efficient algorithms for satellite orbit determination. At LM, he held various systems engineering and leadership positions; performed research in various technical fields, system analysis and engineering, and project management; contributed to a number of programs to develop a wide range of defense systems; engaged in system modeling and simulation, system performance analysis, probability and statistical modeling and analysis, and algorithm development and test and evaluation in the areas of tracking and pointing, missile navigation, target acquisition, C3I, network routing, satellite communications and networks, and object discrimination. Recently, he was the algorithm lead scientist for the Intelligence Advanced Research Projects Activity Test & Evaluation effort at NPS and performed assessment of technologies and capabilities impacting maritime security and investigation of algorithms for maritime intelligence analysis. Dr. Huynh obtained simultaneously a B.A. in Applied Mathematics and a B.S. in Chemical Engineering with honors from the University of California at Berkeley, and both an M.S. in Physics and a Ph.D. in Theoretical Physics from University of California at Los Angeles. He is a member of INCOSE.
4-day Public Programme on
Systems Engineering
Dr. Thomas V. Huynh
Visiting Associate Professor
Date: 23, 24, 26 & 27 September 2013 (Monday, Tuesday, Thursday & Friday)
Time: 0900 - 1800 hrs
Venue: EA - 02 - 15, National University of Singapore

Course Fee

<table>
<thead>
<tr>
<th>Earlybird Rate (Per Pax) (Before 26 Aug 2013)</th>
<th>Normal Rate (Per Pax)</th>
<th>Special Rate (Per Pax) (Group Reg of at least 5, TDSI Alumni &amp; Lecturers)</th>
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<tr>
<td>SGD1,829.70</td>
<td>SGD1,926.00</td>
<td>SGD1,829.70</td>
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*Fees indicated are inclusive of GST*

Registration

Individual Registration can be done:

- Online with payment by credit card at [http://www.tdsi.nus.edu.sg/public-programmes.html](http://www.tdsi.nus.edu.sg/public-programmes.html) or
- Kindly download and complete the form from TDSI website with payment in Singapore Dollars by Cheque to:
  - Ms. Queenie Sim
  - Temasek Defence Systems Institute
  - National University of Singapore
  - Blk #1, #05-05, 1 Engineering Drive 2,
  - Singapore 117576

Group Registration

- Kindly download and fill up the registration form from TDSI website and send it to Ms. Queenie Sim  tdsskeq@nus.edu.sg

Confirmation

- Payment is required with registration and must be received prior to the commencement of course to confirm a place.
- A confirmation email and tax invoice will be sent to you when your registration is acceptable.
- Acceptance into the course is on a first-come-first served basis.

Cancellation/Refund/Replacement Policy

- TDSI accepts replacement if you are unable to attend the course. In such a case, the name and particulars of the replacement should reach TDSI in writing at least 14 working days prior to commencement of course.
- If you wish to cancel your registration, it must be in writing and reach TDSI at least 21 days prior to commencement. A full refund of the course fee will be made. No refund will be made for cancellation received less than 21 days prior to course commencement.
- TDSI reserves the right to amend, reschedule or cancel the course. In this case, every effort will be made to inform participants of the changes. Fees will be refunded in full should this course be cancelled by TDSI.

Participants who fully complete the 4-day course may qualify for PDU from the PEB and IES-CSEP

Fees indicated are inclusive of GST. Fee includes materials, daily breakfast, lunch and afternoon tea breaks.

For enquiries, please contact
Ms. Queenie Sim  Email: tdsskeq@nus.edu.sg  Tel: +(65)6516 5838  Fax: +(65)6778 9656