

Course Leader:



Assoc Prof Dr MAJ (NS) Seah Kar Heng obtained his B.Sc. First Class Honors' in Mechanical Engineering in 1975 from the University of Southampton, U.K. on the Colombo Plan Scholarship as well as the President's

Scholarship. After he completed his National Service in the Guards Formation, he worked as a Mechanical Engineer in the Public Works Department. Subsequently, he obtained his Master's and PhD degrees in Mechanical Engineering in 1980 and 1982 respectively, both from Queen's University Canada.

He has been lecturing in NUS since 1983. Through the years, he has given lectures and tutorials in Physics, Workshop Technology, Statics, Dynamics, Mechanics of Machines, Mechanical Engineering Design, Manufacturing Processes, Engineering Statistics and Computer-aided Design (CAD). He has been Faculty Advisor to the NUS FSAE race car project since its inception in 2001.

He is currently the Head of the Manufacturing Division and the Supervisor of the Design Lab in the Department of Mechanical Engineering, as well as Hall Master of Raffles Hall. Outside NUS, he has conducted many professional short courses for practicing engineers on Materials Selection and Manufacturing Technology, and has been consultant for military and civilian projects.

3 Easy Ways to Register!!

MAIL: Professional Activities Centre
NUS, Faculty of Engineering
9 Engineering Drive 1
Blk EA #05-34 Singapore 117576

FAX: (65) 6874 5097

or

REGISTER ONLINE:

<http://www.eng.nus.edu.sg/PACentre>

Enquiries: Please contact Ms. LIM Hui Leng for more information at Tel: (65) 6516 5113 or e-mail: englhl@nus.edu.sg

Fee: SGD650.00 + 7% GST
GST Exempted for Foreign Registration

Payment & Closing Date:

Payment is required prior to the course.
Please send in your registration form together with your payment by 28 October 2009

Discount: Maximum of 10% discount is applicable to:

- NUS Alumni &
- Organizations / Companies sending three or more participants.

Refunds and Cancellations:

A 50% refund will be made for withdrawals (received in writing) ten working days before the commencement of the course. No refunds will be made thereafter. However, a replacement will be accepted upon prior arrangement at no extra cost. Please inform us of the changes, if any, by fax.

The Professional Activities Centre reserves the right to cancel the course and fully refund the participants, should unforeseen circumstances warrant it. Every effort will be made to inform participants of any changes.



Polymers: Processes, Properties, Application & Design

14 PDUs Approved by PE Board

By

Assoc Prof Seah Kar Heng
Department of Mechanical Engineering
National University of Singapore

Date: 10 – 11 November 2009

Time: 9.00am – 5.00pm

Venue: National University of Singapore

Organised by:

Professional Activities Centre
National University of Singapore
Faculty of Engineering

Course Objectives:

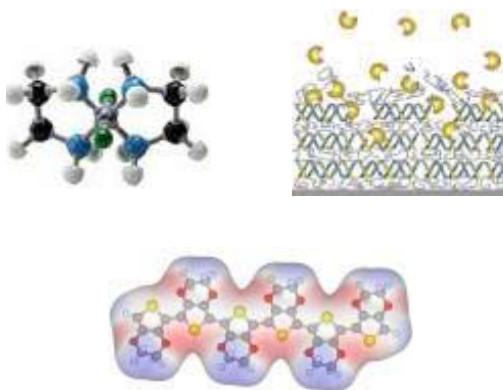
The aim of this course is to introduce the various types and classifications of polymer commonly used in the industry. The course also covers the various manufacturing processes available and their economics of production. There will be case studies on the selection of which polymer to use and which manufacturing process to employ for particular applications based on the economics of production as well as the properties of the final product. Mathematical analysis will be kept to a bare minimum

Course Outline:

1. Classification of Polymers: Thermoplastics, Thermo sets, Elastomers & Composites (reinforced plastics). Sub-group and polymers within the four categories.
2. Properties of the various groups of polymers and co-polymers. Identification of polymers. Laboratory analysis of polymers.
3. Manufacturing processes for polymers. Methods of joining, machining, decorating and finishing polymers. Applications and design of polymers.
4. Case studies of polymers and their manufacturing processes as well as the problems involved.

Target Audience:

Managers, engineers and designers working in the manufacturing sector who wish to get a working knowledge of the polymers commonly encountered in daily applications issues that are of particular interest in their areas of work.



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REGISTRATION FORM

Polymers: Processes, Properties, Application & Design, 10 – 11 November 2009

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GST Exempted for Foreign Registration

Name: Dr/Mr/Ms: _____

Designation: _____

NUS Alumni Membership: YES / NO

Organisation: _____

Address: _____

Contact Person: _____

Email: _____

Tel No: _____

Fax No: _____

**Dietary Preference: No Pork No Lard / Vegetarian

Payment mode:

Cheque / Bank draft No. : _____

Payable to "National University of Singapore"

Visa/Master/Amex: _____

Expiry Date: _____ Amount (S\$): _____

Signature: _____

Closing Date: Please send in your registration form together with your payment by 28 October 2009

Authorised Signature / Company Stamp
