



Seminar Series in Introductory Ergonomics

The Hong Kong Occupational & Environmental Health Academy (HOEHA) and the Hong Kong Ergonomics Society (HKES) now co-organize a certificate seminar series in Introductory Ergonomics. The HOEHA is an independent, not-for-profit training and research organization, and the HKES is a not-for-profit professional society.

Objective and structure:

The objective of the seminar series is to equip participants with theories and application principles of workplace ergonomics. The series covers 3 domains of knowledge (Physical Ergonomics, Man-machine Ergonomics and Environmental Ergonomics). Each domain has at least 4 modules, and participants may select any module(s) to study according to their interests.

Graduate Requirements:

Participants will be awarded a **Certificate in Introductory Ergonomics** when they fulfil the following requirements:

- Complete **10 modules** (a total of 30 hours) from the 3 knowledge domains with at least 1 module from each domain
- **Pass the quiz** at the end of each module

Benefit to Membership Application of HKES:

Participants awarded the Certification in Introductory Ergonomics will automatically satisfy the *education component* of the membership application requirement of HKES.

Medium of Instruction:

- **English** (may supplement by Cantonese as decided by the individual speaker)

Full Series Fees and Registration:

- Before Apr 15, 2019 (early bird)
 - ◆ **HK\$4,500**
- After April 15, 2019
 - ◆ **HK\$5,000**

Participants may take extra module(s) in addition to the 10 modules for full-series completion. They can register for additional module(s) at a fee of \$300 per module.

Individual Module Fees and Registration:

- Participants may also have the option to take individual modules only. Tuition fee for each module is **\$550** (early bird registration) or **\$600** after April 15, 2019.

Completion of each module gives participants a **Certificate of Attendance**. Participants may also claim continuing professional development (CPD) hours from their relevant professional institutions¹.

Closing Date of Applications:

- May 3, 2019

Class size:

- Maximum 30 participants²

Seminar Content and Schedule:

- **Date:** May 18, 2019 – Aug 31, 2019 (All modules will take place on Saturday afternoon)
- **Time:** 2:30 – 5:30 pm (3 hours per module)
- **Venue:** Room 1429, Beverley Commercial Centre, 87-105 Chatham Road, Tsim Sha Tsui, Kowloon

1. Final approval of CPD hours should be decided by the relevant professional institution(s) concerned.
2. HOEHA & HKES reserve the right to cancel individual modules if enrolment is insufficient, or to make alterations regarding seminar speakers, schedule and content if necessary.

Seminar Series Schedule

Module	Date	Topic	Speaker	Domain
1	May 18, 2019	Introduction to Ergonomics <ul style="list-style-type: none"> • Brief History • Human-centered design • Human capabilities and Limitations • Fitting task to person 	Prof. Ravindra Goonetilleke	All
2	May 25, 2019 (change of venue: see Note 1)	Human Information Processing – Psychophysics, Signal Detection Theory <ul style="list-style-type: none"> • Information Theory • Stimulus Discrimination • Stevens Power Law • Receiver Operating Characteristics 	Prof. Ravindra Goonetilleke	Man-machine Ergonomics
3	Jun 1, 2019	Auditory Environment and Noise Assessment <ul style="list-style-type: none"> • Human Hearing • Noise Assessment • Laws and Regulations 	Prof. Richard So	Environmental Ergonomics
4	Jun 8, 2019	Control and Display <ul style="list-style-type: none"> • Functions and types of Controls • Selecting and Coding of Controls • General Principles of Design of Controls and Displays • Signals and Warning Lights 	Dr. Alan Chan	Man-machine Ergonomics

Note 1: The venue for this seminar topic is changed to **ST522, Ng Wing Hong Building, The Hong Kong Polytechnic University, Hung Hom, Kowloon**

Seminar Series Schedule

Module	Date	Topic	Speaker	Domain
5	Jun 15, 2019	Man-Machine Compatibility <ul style="list-style-type: none"> • Compatibility and Population Stereotypes, Reversibility of Stereotypes • Conceptual Compatibility • Movement Compatibility • Spatial Compatibility 	Dr. Alan Chan	Man-machine Ergonomics
6	Jun 22, 2019	Occupational Ergonomics <ul style="list-style-type: none"> • Biomechanics in determining joint loading and its applications • Applications of optimization model and deep learning model in occupational biomechanics 	Prof. Daniel Chow	Physical Ergonomics
7	Jun 29, 2019	Ergonomics in Design <ul style="list-style-type: none"> • Understanding ergonomics in design • Design tools and methods • Creative vs functional design • Examples of ergonomics in design 	Dr. Tina Luximon	Man-machine Ergonomics
8	Jul 6, 2019	Anthropometry and Digital Human Modelling <ul style="list-style-type: none"> • Anthropometry, anthropometric data and database, and digital human models • Anthropometry in design • Digital Human Modelling in design • Mathematical methods in Anthropometry and Digital Human Modelling 	Dr. Ameersing Luximon	Physical Ergonomics

Seminar Series Schedule

Module	Date	Topic	Speaker	Domain
-	July 13, 2019	-	-	-
9	Jul 20, 2019	<p>Work-related Musculoskeletal Disorders</p> <ul style="list-style-type: none"> • Musculoskeletal disorders resulting from accidents, overuse and those that develop over times • Work related musculoskeletal disorders such as Tendonitis, Tennis elbow, Carpal tunnel syndrome and Lower back pain will be discussed 	Ms. Ida Yiu	Physical Ergonomics
10	Jul 27, 2019	<p>Macroergonomics</p> <ul style="list-style-type: none"> • Sociotechnical system • Participatory ergonomics and macroergonomics methods • Work system analysis and design 	Dr. Calvin Or	Man-machine Ergonomics
11	Aug 3, 2019	<p>Rehabilitation Ergonomics</p> <ul style="list-style-type: none"> • Apply ergonomic principles in work disability prevention and management 	Dr. Andy Cheng	Physical Ergonomics
12	Aug 10, 2019	<p>Healthcare Ergonomics</p> <ul style="list-style-type: none"> • Ergonomics analysis and design in healthcare • Patient Safety • Ergonomics for healthcare environments and health technology 	Dr. Calvin Or	Man-machine Ergonomics

Seminar Series Schedule

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13	Aug 17, 2019	Human Error <ul style="list-style-type: none">• The nature of human error• Cognitive theories of human error• Different types of human error• Relation of human error and accidents	Dr. Simon Li	Man-machine Ergonomics
14	Aug 24, 2019	Office Ergonomics <ul style="list-style-type: none">• Discuss the Principles of Office Ergonomics• Various components of computer workstation• Physiology of prolonged sitting at computer workstation	Dr. Billy So	Environmental Ergonomics
15	Aug 31, 2019	Vibration and Human Response <ul style="list-style-type: none">• Vibration Measurements• Human Responses• Standards and Regulations	Prof. Richard So	Environmental Ergonomics

Registration Form

Last name	
First name	
Specialty (if applicable)	
Company Name	
Contact Phone No.	
Fax	
Email Address	
Cheque No.	
Please select 10 modules (Application for the full series)	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/>
Please select the interested module(s) to be enrolled (Application for individual module(s))	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/>

- Please fax or email your registration form to Hong Kong Occupational & Environmental Health Academy Limited at 2728 6968 or reg@hoeha.org.hk on or before **May 3, 2019**. You can also fill out the online registration form via <https://goo.gl/forms/WAVU9K1facRmBImh1>



- Please send your registration fee in cheque addressed to “Hong Kong Occupational & Environmental Health Academy Ltd.” and mail to Hong Kong Occupational & Environmental Health Academy at Room 1418, 14/F, Beverley Commercial Centre, 87-105 Chatham Road South, TST, Kowloon, Hong Kong, attention to Ms. Ling Shek, no later than **May 15, 2019**.
- For enquiry, please contact Ms. Sabrina Wan at 2725 3996 or email to sabrina@hoeha.org.hk.

《Personal Data Collection Statement》

1. The information you provide to the Hong Kong Occupational & Environmental Health Academy (the Academy), including any personal data as defined in the Personal Data (Privacy) Ordinance (the Ordinance), will be used solely for purposes related to the activities of the Academy.

2. To keep you informed of Academy’s activities, the Academy would like to use your personal data, including your name, telephone number and correspondence and email addresses, to update you in relation to our courses, events and other information. Your personal data may also be used for our statistical purposes.

3. You are free to decide whether you wish to receive such information. If you choose not to do so, please put a tick in the box below *.

4. You are also entitled to request access to and correction of any errors in your personal data. Requests can be made to the Academy via email info@hoeha.org.hk.

I do not wish to receive any information from the Academy in relation to its activities.