

YOUR FIRS

Information Session for DSE Students –

27 MAY, 2021 (THURS) 12 NN - 5:45 PM

PRE-INDUCTION TALKS

To Science Lovers: HKU Science is your company in the path of pursuing Science. Join pre-induction talks & get to know, your life at HKU Science!

6901 BSc & Young Scientist Scheme (YSS)
6688 Science Master Class
6729 BSc in Actuarial Science
6224 BASc(Applied AI)

MOCK LECTURES

ΠΙΜΠ

Learn from the best minds at HKU Science. Experience mock lectures offered by our academics from:

- School of **Biological Sciences**
- Department of Chemistry
- Department of Mathematics
- © Department of **Physics**
- Department of Statistics & Actuarial Science

All lectures and talks will be conducted online via ZOOM

MOCK LECTURE SCHEDULE

Time	Talk 1	Talk 2	
12:00-12:45pm	6901 BSc + YSS pre-induction talk 6224 BASc(AppliedAI) pre-in		
1:00-1:45pm	6688 Science Master Class pre-induction talk	6729 BSc(ActuarSc) pre-induction talk	
2:00-2:45pm	Mock lecture on Biological Sciences	Mock lecture on Physics	
3:00-3:45pm	Mock lecture on Mathematics	Mock lecture on Chemistry	
4:00-4:45pm	Mock lecture on Statistics & Actuarial Science	Mock lecture on Earth Sciences	
5:00-5:45pm	Mock lecture on Environmental Science		

MOCK LECTURE ABSTRACT

Theme	Торіс	Key content
Biological Sciences	Animal Behaviour	 Why do animal behaviours vary among individuals and species? How do environment and ecological interactions influence behaviours? What are the underlying genetic mechanism of a particular behaviour?
Chemistry	Go with the Electron Flow	• Dealing with electron flows found in biological contexts and artificial settings, such as biofilms, DNA, proteins, sensors, energy catalysis systems, and electrochemical devices
Earth Sciences	Interesting Facts about Our Earth	 How Earth scientists investigate the history and structure of our Earth Why Earth has liquid water on its surface, how earthquake occurs, when the first bloomed What killed more than 96% of marine species around 252 million years ago
Environmental Science	Emerging environmental challenges: noise and light pollution	 Noise and light pollution as emerging challenges from urbanisation, with impacts on both wildlife and human health Mitigating these problems to increase the sustainability of our cities
Mathematics	Counting to Infinity	 What exactly are we doing when we count? Can the process be generalised in a way that allows us to compare sets of infinite size? Are all infinite sets essentially having the same size? Mysteries of infinite sets and to briefly discuss different sizes of infinities
Physics	Nuclear Binding Energy and Nuclear Power	 Structure of an atom, the fundamental building block of matter Basic properties of the component nucleons within How an atomic nucleus can be formed with binding energy and its application to nuclear power
Statistics & Actuarial Science	Introduction to Statistical Learning	 Fundamental concepts of statistical learning such as classification, regression, supervised learning, and unsupervised learning Statistical learning methods and to illustrate their performance with real data examples



Register online by May 23, 2021 (Sunday) https://www.scifac.hku.hk/dse-session-2021