

Date

2017-18 school year

TitleThe Hong Kong Polytechnic University
MINI-LECTURE SERIES 2017-18**Venue**

Schools can choose to have the mini-lectures at the Hong Kong Polytechnic University or at their own schools

DescriptionThe Faculty of Applied Science & Textiles of the Hong Kong Polytechnic University has been offering mini-lectures to introduce some STEM-related courses to secondary students. Interested schools please complete the attached form and email to Ms Cherry CHUI (cherry.chui@polyu.edu.hk).**Enquiries**

Ms Cherry CHUI (Tel: 2766 5385) / Ms Jess HO (Tel: 3400 2691)

Details of the topics:

1. Biology and Chemistry <ul style="list-style-type: none"> • A Look Into Future Battery Chemistry... Possibility of Eternal Battery Life? • Chemistry and Colour of the World • Chemistry in Crime Scene Investigations • DNA Technology • Global Warming, Air Pollution and Life • Introduction of Food Safety in Hong Kong • Molecular Biology of Gene - From DNA to Protein • Understanding of Cancer and New Development of Treatment Methods in Hong Kong 	2. Mathematics and Statistics <ul style="list-style-type: none"> • Brief History on Optimal Controls • Introduction to Radio Astronomy of Hong Kong • Investment with Transaction Fees: Arbitrage and Beyond • Modelling of the transmission of middle east respiratory syndrome in Saudi Arabia • Modelling the large scale outbreak of Yellow Fever in Angola • Selected Topics in Ancient Chinese Mathematics • What is Machine Learning • YES or NO? Decision Making Using Statistical Discriminant Analysis for High Dimensional Data
3. Physics <ul style="list-style-type: none"> • Full Metal Alchemist - Steel • Experiments Outside Laboratories • Physics in Everyday Life • The Physical World of Music 	4. Fashion & Textiles <ul style="list-style-type: none"> • Is fashion art? • Medical Textiles and Healthcare products • Influence of popular culture and social media on fashion • Olympic and sportswear innovation • Smart greenness in fashion • Luxury fashion • Wearable Electronics

Webpages of the Faculty and the Departments:

The Faculty of Applied Science & Textiles	https://www.polyu.edu.hk/fast/en/home/index.html
1. Department of Applied Biology and Chemical Technology	https://www.polyu.edu.hk/abct/en/home/index.html
2. Department of Mathematics	https://www.polyu.edu.hk/ama/
3. Department of Applied Physics	https://www.polyu.edu.hk/ap/
4. Institute of Textiles and Clothing	https://www.polyu.edu.hk/itc/en/