LIFS 4820: Entrepreneurship in Biotechnology (Fall 21/22; Revised)

Lecturer: Prof. Karl Tsim (Course Director)  Rm 5456  X-7332
Tutor  Dr. Wing Leung (lkwing@ust.hk)  Rm 6145   X-7338
Time:  Monday     16:30 – 17:50   Rm 2611
Friday      12:00 – 13:20   Rm 2611

Text Book:  
Biotechnology Entrepreneurship  Shimasaki et al 2014  Elsevier
Introduction to Biotechnology  Thieman et al 2014  Pearson
Phytocosmetics and Cosmetic Science  Lourith and Tsim 2021  CRC Press

Web site at http://lmes2.ust.hk/portal#

Intended Learning Outcome:

• Explain the scientific principles underpinning those biotechnological innovations which achieve and maintain the competitiveness of biotechnology enterprises.
• Apply biotechnological knowledge to solve problems in the management and operation of entrepreneurship in the biotechnology industry.
• Critically evaluate biotechnology product ideas and determine which ideas may be suitable for commercialization.
• Analyse international journal articles and evaluate contemporary biotechnological innovations.
• Work and coordinate effectively in a team to research, prepare and deliver a business proposal and communicate this effectively to a lay audience.
• Apply standards and conventions relating to social responsibilities and ethical practices in a biotechnology enterprise.

Mid-term (open book) Assessment: 40%
Project and Presentation: 60%

Topics | Time | Lecturer
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1. An overview  | 2/9; 5/9 | TSIM
2. Biotechnology industry—an engine of innovation | 9/9 | TSIM
3. Essential elements for growing biotechnology cluster | 16/9, 19/9 | TSIM
4. Biotechnology in Hong Kong and Greater China | 23/9, 26/9 | TSIM
5. Establishing a business in Hong Kong | 30/9 | TSIM
6. Commercial landscape of HK biotech- 2018 | 3/10 | TSIM
7. Spin-off companies from HKUST | 7/10 | TSIM/LEUNG
8. How to prepare for your business venture | 10/10 | DR. LAW
9. How to prepare for your business venture | 14/10 | DR. LAW
10. How to prepare for your business venture 17/10 Dr. LAW
11. How to prepare for your business venture 21/10 Dr. LAW
12. How to prepare for your business venture 24/10 Dr. LAW

Mid-term Assessment 28/10 TSIM
13. Personal cosmetics industry in Hong Kong/China 31/10 V. CHOI
14. Establishing a business (Health Drink) in Hong Kong 4/11 Dr. CHAN
15. Visit 7/11 TSIM/LEUNG
16. Establishing a business (consulting) in Hong Kong 11/11 Dr. T. TAM
17. Financial investment 14/11 B. WONG
18. Establishing a business (consulting) in Hong Kong 18/11 Dr. T. TAM

Presentation (Final Assessment) 21/11, 25/11, 28/11 TSIM