

**ESTR Courses Offered in 2022-23(updated on 9 August 2022)**

| ELITE Course Code | Department Course Code | Course Title  | Offering Format (M: Mirror;R: Real) | Course Teacher             | Course Registration (Y: Approach Course Teacher for Approval; N: Apply through Faculty Office) |
|-------------------|------------------------|---|-------------------------------------|----------------------------|--|
| <b>Term 1</b>     |                        |   |                                     |                            |  |
| ESTR1002          | ENGG1110               | Problem Solving By Programming<br>程式設計與解難           | R                                   | Prof. Philip Fu            | N  |
| ESTR2004          | ENGG2440               | Discrete Math for Engineers<br>離散數學的工程應用            | R                                   | Prof. Wai Hoi To           | N  |
| ESTR2014          | ENGG2720               | Complex Variables for Engineer<br>複變量及其工程應用         | M                                   | Prof. Chen Benmei          | N  |
| ESTR2018          | ENGG2760               | Probability for Engineers 概率及其工程應用                  | M                                   | Prof. Andrej Bogdanov      | N  |
| ESTR3605          | BMEG3105               | Data Ana for Personalized Geno<br>精準醫療和個人化基因組學之數據分析 | M                                   | Prof. Li Yu                | Y  |
| ESTR2100          | CENG2400               | Embedded System Design 嵌入式系統設計                      | M                                   | Prof. Xu Qiang             | N  |
| ESTR2106          | CSCI2720               | Building Web Applications<br>建設網上應用程式               | M                                   | Dr. Chau Chuck Jee         | N  |
| ESTR3108          | CSCI3230               | Fundamentals of AI 人工智能之基本原理                        | M                                   | Prof. Dou Qi               | N  |
| ESTR3112          | AIST3010               | Numerical Optimization 數值優化                         | M                                   | Prof. Farzan Farnia        | N  |
| ESTR2302          | IERG2051               | Signals and Systems 信號與系統                           | M                                   | Prof. Zhao Changhong       | Y  |
| ESTR2304          | IERG2060               | Basic Circuits 基礎模擬和數字電路                            | M                                   | Prof. Chan Chun Kit Calvin | Y  |
| ESTR2360          | MIEG2051               | Fourier Analysis with Eng Appl<br>傅里葉分析及其工程應用       | M                                   | Prof. Chandra Niar         | Y  |
| ESTR3300          | IERG3010               | Digital Communications 數字通信                         | M                                   | Prof. Lok Tat Ming         | Y  |
| ESTR3310          | IERG3310               | Computer Networks 計算機網絡                             | M                                   | Prof. Liew Sounng Chang    | Y  |
| ESTR4314          | IERG4110               | Hands-on Wireless Commun.<br>實踐無線通信系統               | M                                   | Prof. Chen He              | Y  |

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| <b>Term 2</b>     |                        |   |                                     |                             |  |
| ESTR3602          | BMEG3330               | Neuroengineering 神經工程學                        | M                                   | Prof. Lou Wutao             | N  |
| ESTR2102          | CSCI2100A              | Data Structures 數據結構                          | M                                   | Prof. Irwin King            | N  |
| ESTR4120          | CSCI4430               | Data Comm & Computer Networks<br>數據通信及計算機網絡   | M                                   | Prof. Xu Hong               | N  |
| ESTR4140          | AIST4010               | Foundation of Applied DL 應用深度學習基礎             | M                                   | Prof. Li Yu                 | Y  |
| ESTR1003          | ENGG1310               | Engineering Physics 工程物理                      | R                                   | Prof. Sun Xiankai           | N  |
| ESTR1005          | ENGG1120               | Linear Algebra for Engineers<br>線性代數及其工程應用    | R                                   | Prof. Long Zhuoyu Daniel    | N  |
| ESTR1006          | ENGG1130               | Multivariable Calculus for Eng<br>多元微積分及其工程應用 | R                                   | Dr. Han Dongkun             | N  |
| ESTR2016          | ENGG2740               | Differential Equations for Eng<br>微分方程及其工程應用  | M                                   | Prof. Huang Chaoran         | N  |
| ESTR2020          | ENGG2780               | Statistics for Engineers 統計及其工程應用             | M                                   | Prof. Pan Jialin Sinno      | N  |
| ESTR3408          | MAEG3060               | Introduction to Robotics 機器人學導論               | M                                   | Prof. Lau Tat Ming          | N  |
| ESTR2520          | FTEC2101               | Optimization Methods 優化方法                     | M                                   | Prof. Wai Hoi To            | Y  |
| ESTR2102B         | CSCI2100F              | Data Structures 數據結構                          | M                                   | Prof. Yue Xiangyu           | Y  |
| ESTR2300          | IERG2310               | Principles of Communication Sy<br>通信系統原理      | M                                   | Prof. Lok Tat Ming          | Y  |
| ESTR2308          | IERG2470               | Probability Models and Appl'ns<br>概率模型及應用     | M                                   | Prof. Li Cheuk Ting         | Y  |
| ESTR2362          | MIEG2440               | Discrete Struc and Probability<br>離散結構及概率論    | M                                   | Prof. Amin Aminzadeh Gohari | Y  |

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| ESTR3302          | IERG3280               | Netwks: Tech, Eco, & Soc Inter<br>網絡：技術·經濟·和社會互動 | M                                   | Prof. Zhao Changhong        | Y  |
| ESTR3306          | IERG3320               | Soc Media & Human Infor Int<br>社交媒體與人際信息互動       | M                                   | Prof. Chan Yuen Yan Rosanna | Y  |
| ESTR3310          | IERG3310               | Computer Networks 計算機網絡                          | M                                   | Prof. Xing Guoliang         | Y  |
| ESTR4300          | IERG4300               | Web-scale Info Analytics 網絡規模資訊分析                | M                                   | Prof. Lau Wing Cheong       | Y  |
| ESTR2206          | ENGG2030               | Signals and Systems 信號與系統                        | M                                   | Miss Ngan Lai Yin           | Y  |
| ESTR3200          | ELEG3201               | Microele. Devices and Circuits<br>微電子器件與電路       | M                                   | Prof. Pun Kong Pang         | Y  |
| ESTR4216          | ELEG4311               | Phys & Tech of Semicon Devices<br>半導體器件物理與技術     | M                                   | Prof. Hu Guohua             | N  |