

**Subject list for Collaboration of Research Postgraduate Programmes  
(1<sup>st</sup> Semester, 2024-2025)**

**Institution: [City University of Hong Kong](http://www.cityu.edu.hk)**

|   |  |              | [Note 1]     | [Note 2]  |  | [Note 3]            | [Note 4]                     |  |   |
|---|--|--------------|--------------|---|--|---------------------|------------------------------|--|---|
| <i>Subject Code</i>                         | <i>Subject Title</i>   | <i>Units</i> | <i>Level</i> | <i>Keyword Syllabus or Brief Subject Description</i>  | <i>Prerequisites / Pre-cursors (if any)</i>  | <i>Result Grade</i> | <i>Medium of Instruction</i> | <i>Application Deadline (yyyy/mm/dd)</i> | <i>Remarks, if any (e.g. quota for visiting students)</i> |
| <b>Department of Electrical Engineering</b> |  |              |              |   |  |                     |                              |  |   |
| EE5415                                      | Mobile Applications Design and Development                   | 3            | PG           | <a href="http://www.cityu.edu.hk/pg/current/course/EE5415.htm">http://www.cityu.edu.hk/pg/current/course/EE5415.htm</a> | Pre-cursor: EE2311/EE3206/EE5414, or equivalent  | A+-F                | E                            | <b>2024/08/21</b>                        |   |
| EE5425                                      | Fundamentals of Radio Frequency (RF) Circuit Engineering     | 3            | PG           | <a href="http://www.cityu.edu.hk/pg/current/course/EE5425.htm">http://www.cityu.edu.hk/pg/current/course/EE5425.htm</a> | Pre-cursor: EE3109 and EE3110, or equivalent   | A+-F                | E                            | <b>2024/08/21</b>                        |   |
| EE5434                                      | Machine Learning for Signal Processing Applications          | 3            | PG           | <a href="http://www.cityu.edu.hk/pg/current/course/EE5434.htm">http://www.cityu.edu.hk/pg/current/course/EE5434.htm</a> | Pre-cursor: Programming training equivalent to EE2331  | A+-F                | E                            | <b>2024/08/21</b>                        |   |
| EE5435                                      | Advanced Topics in Applied Electromagnetics                  | 3            | PG           | <a href="http://www.cityu.edu.hk/pg/current/course/EE5435.htm">http://www.cityu.edu.hk/pg/current/course/EE5435.htm</a> | Pre-cursor: EE3109, or other related courses   | A+-F                | E                            | <b>2024/08/21</b>                        |   |
| EE5436                                      | Fundamentals and Applications of Photonics                   | 3            | PG           | <a href="http://www.cityu.edu.hk/pg/current/course/EE5436.htm">http://www.cityu.edu.hk/pg/current/course/EE5436.htm</a> | Pre-cursor: EE2104   | A+-F                | E                            | <b>2024/08/21</b>                        |   |
| EE5437                                      | Internet of Things Technologies for Future City Applications | 3            | PG           | <a href="http://www.cityu.edu.hk/pg/current/course/EE5437.htm">http://www.cityu.edu.hk/pg/current/course/EE5437.htm</a> | Pre-cursors: EE2004/EE3220 or course related to firmware coding on MCU   | A+-F                | E                            | <b>2024/08/21</b>                        |   |
| EE5808                                      | Topics in Computer Graphics                                  | 3            | PG           | <a href="http://www.cityu.edu.hk/pg/current/course/EE5808.htm">http://www.cityu.edu.hk/pg/current/course/EE5808.htm</a> | Pre-cursors: Mathematical knowledge reaching the equivalent of (MA3150/MA3151) and (MA3160/EE3313)<br><br>Programming knowledge reaching the equivalent of (CS2363 and EE2331 or equivalent) | A+-F                | E                            | <b>2024/08/21</b>                        | Exclusive course: EE4808                                  |

|        |  |   |    |   | C Programming is required   |      |   |                   |
|--------|--|---|----|---|---|------|---|-------------------|
| EE5811 | Topics in Computer Vision  | 3 | PG | <a href="http://www.cityu.edu.hk/pg/current/course/EE5811.htm">http://www.cityu.edu.hk/pg/current/course/EE5811.htm</a> | Pre-cursor: Mathematical knowledge reaching the equivalent of (MA3150/MA3151) and (MA3160/EE3313) And Programming knowledge reaching the equivalent of CS2363. Specifically, C programming will be required | A+-F | E | <b>2024/08/21</b> |
| EE5815 | Topics in Security Technology                                    | 3 | PG | <a href="http://www.cityu.edu.hk/pg/current/course/EE5815.htm">http://www.cityu.edu.hk/pg/current/course/EE5815.htm</a> | Pre-cursor: MA3150/MA3151   | A+-F | E | <b>2024/08/21</b> |
| EE6603 | Wireless Communication Technologies                              | 3 | PG | <a href="http://www.cityu.edu.hk/pg/current/course/EE6603.htm">http://www.cityu.edu.hk/pg/current/course/EE6603.htm</a> | Pre-cursor: EE3008  | A+-F | E | <b>2024/08/21</b> |
| EE6605 | Complex Networks: Modeling, Dynamics and Control                 | 3 | PG | <a href="http://www.cityu.edu.hk/pg/current/course/EE6605.htm">http://www.cityu.edu.hk/pg/current/course/EE6605.htm</a> | Pre-cursor: MA3150 or equivalent  | A+-F | E | <b>2024/08/21</b> |
| EE6615 | Nanotechnology for Devices & Microsystems                        | 3 | PG | <a href="http://www.cityu.edu.hk/pg/current/course/EE6615.htm">http://www.cityu.edu.hk/pg/current/course/EE6615.htm</a> | Nil   | A+-F | E | <b>2024/08/21</b> |
| EE6617 | Detection & Estimation – Theory & Applications in Communications | 3 | PG | <a href="http://www.cityu.edu.hk/pg/current/course/EE6617.htm">http://www.cityu.edu.hk/pg/current/course/EE6617.htm</a> | Pre-cursor: EE3210/EE3008; or Courses in Signal Processing and Communications   | A+-F | E | <b>2024/08/21</b> |

[Note 1] Please indicate subject level by UG or PG (UG = advanced undergraduate level, PG = postgraduate level and R=Research level).

[Note 2] Please provide information either in text or in hyperlink.

[Note 3] Please indicate result grade by P/F, S/U, A+-F, etc. (P/F = pass or fail; S/U = satisfactory or unsatisfactory; A+-F = fine grades from A+ to F, etc.).

[Note 4] Please indicate medium of instruction by E, C or P (E = English; C = Cantonese and P = Putonghua).