

香港教育大學

資訊及通訊科技在教育的應用文獻綜述 科目大綱

第一部分

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| 課程名稱 | : 教育博士 (EdD) |
| 科目名稱 | : 指導學習——ICT1：資訊及通訊科技在教育的應用文獻綜述 (Directed study - ICT1: Critical Literature Review on ICT in Education) |
| 科目編號 | : INT7010 |
| 負責學系 | : 數學與資訊科技學系 |
| 學分 | : 3 |
| 教學課時 | : 39 |
| 先修科目 | : 無 |
| 授課語言 | : 中文 |
| 程度 | : |

第二部分

香港教育大學(教大)的畢業生素質(Graduate Attributes)及七個通用學習成果(Seven Generic Intended Learning Outcomes, 7GILOs) 分別代表了教大畢業生應具備的素質及能力。學習成果分為大學層面(GILOs)、課程層面(PILOs)以及科目層面(CILOs)，三個層面的學習成果相輔相成，共同培育學生發展所需的重要畢業生素質。

本科生、修課式研究生以及研究式研究生的畢業生素質包含以下三個範疇「英文簡稱“PEER & I”」:

- 專業卓越 (Professional Excellence)
- 道德責任 (Ethical Responsibility)
- 創新精神 (Innovation)

就上述三個範疇，大學為本科生、修課式研究生以及研究式研究生訂立了不同的指標，以反映其素質水平。

七個通用學習成果(7GILOs)分別是：

1. 解決問題能力 (Problem Solving Skills)
2. 批判思考能力 (Critical Thinking Skills)
3. 創造性思維能力 (Creative Thinking Skills)
- 4a. 口頭溝通能力 (Oral Communication Skills)
- 4b. 書面溝通能力 (Written Communication Skills)

5. 社交能力 (Social Interaction Skills)
6. 倫理決策 (Ethical Decision Making)
7. 全球視野 (Global Perspectives)

1. 科目概要

本課程旨在通過對與資訊及通訊科技在教育的應用領域中相關的經典和現代文獻的廣泛回顧，使學生全面瞭解其發展。學生將深入探討資訊及通訊科技在教育的應用領域的發展趨勢、核心內容以及具備發展前景的研究。

2. 預期學習成果

成功完成本課程後，學生應能夠：

- 成果一：辨識資訊及通訊科技在教育的應用的基本特徵和變化範式；
- 成果二：瞭解資訊及通訊科技在教育的應用以往的發展、現狀和未來發展方向；
- 成果三：深入探討資訊及通訊科技在教育的應用領域的研究。

3. 內容、預期學習成果及教與學活動

| 教授內容 | 預期學習成果 (CILOs) | 教與學活動 |
|---|----------------|--------------------|
| 資訊及通訊科技在教育應用的基本特徵 | 成果一 | 講課、講師主導的問答、指導性研究活動 |
| 教學設計的發展趨勢和範式轉換 | 成果一 成果二 | 講課、講師主導的問答 |
| 資訊及通訊科技在教育應用的發展趨勢和範式轉換，如從以技術為中心的知識傳播設計轉向以實踐為中心的知識建構設計 | 成果一 成果二 | 講課、講師主導的問答、指導性研究活動 |
| 資訊及通訊科技在教育的應用領域可能的研究方向 | 成果三 | 指導性研究活動 |

4. 評核

| 評核課業 | 所佔比重 | 預期學習成果 (CILOs) |
|---|------|-------------------|
| 學生應基於一定數量的文獻綜述，撰寫一篇關於資訊及通訊科技在教育的應用發展的反思性文章。（4000-5000字） | 100% | 成果一 成果二 成果三 |

5. 指定教科書

無

6. 推薦書目

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- Love, K., & Simpson, A. (2005). Online discussion in schools: towards a pedagogical framework. *International Journal of Educational Research*, 43(7/8), 446-463.
- Machi, L. A., & McEvoy, B. T. (2009). *Literature review: six steps to success*. Thousand Oaks, CA: Corwin Sage.
- Magoulas, G. D., Papanikolaou, Y., & Grigoriadou, M. (2003). Adaptive web-based learning: accommodating individual differences through system's adaptation. *British Journal of Educational Technology*, 34(4), 511-527.
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- Wu, Y.-T., & Tsai, C.-C. (2005). Information commitments: evaluative standards and information searching strategies in web-based learning environments. *Journal of Computer Assisted Learning*, 21(5), 374-385.
- Xu, D.-M., Wang, H.-Q., & Wang, M.-H. (2005). A conceptual model of personalized virtual learning environments. *Expert Systems with Applications*, 29(3), 525-534.

7. 相關網絡資源
無

8. 相關期刊

Artificial Intelligence in Education

British Journal of Educational Technology

Computers and Education

Educational Technology and Society

Educational Technology Research and

Development Innovations in Education and

Teaching International Interactive Learning

Environments

Journal of Computer Assisted Learning

Language Learning and Technology

授課期間將會推薦國際評審期刊上的精選論文。

9. 學術誠信

本校堅持所有學術作品均須遵守學術誠信的原則，詳情可參閱學生手冊 (<https://www.eduhk.hk/re/modules/downloads/visit.php?cid=9&lid=89>)。同學應熟讀有關政策。

10. 其他資料

無