



# 教學實踐行動研究 資料蒐集方法與分析重點

# 回答問題所需資訊及其蒐集方法

- **行動前 - 問題診斷**
  - 前測 ( 問卷、測驗 )
  - 訪談
- **行動中 - 實施情形**
  - 觀察
  - 訪談
  - 作業
- **行動後 - 成效評估**
  - 後測 ( 問卷、測驗、回饋單 )
  - 訪談

- 設計學生態度量
- 研擬訪談學生題
- 規劃教室觀察策
- 設計教學回饋單

# 分析焦點：課程與教學方案方面

- 教材編選、教學活動設計、評量方式  
(內容選擇與組織)
- 資源的應用  
(環境、人力、材料、經費)
- 課程實施過程與教學實踐方式  
(教室教學的實際運作情形)
- 課程與教學方案實施成效  
(師生互動、學生表現與滿意度、教師回饋)

# 分析焦點：學生學習方面



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- 學習興趣的建立？（出席率、投入度）
- 學習態度的改變？（主動性、團隊合作）
- 認知能力的提升？（分析理解、綜整運用）
- 問題意識的覺知？（議題掌握、解決策略）
- 價值信念的建立？（價值澄清、學術誠信）
- 行動實踐力的投入？（社會責任、公民行動）

# 反思焦點：教師教學改進方面

- 創造並維持支持性的學習環境
- 依據課程架構明訂教學目標
- 有系統地組織教材內容與學習經驗
- 善用教學策略實施有效教學
- 活動規劃適切吸引學生參與學習
- 運用適切方法進行多元學習評量
- 掌握學生差異進行相關輔導



# 教學實踐行動研究成果的評 估與呈現方式

# 行動研究成果分享的重點



- 分析問題情境和改善教學實務的必要性
- 描述解決問題的行動策略方案
- 行動方案的推動過程與結果
- 檢討行動方案的成效與限制
- 反省批判在行動過程中的專業認知與成長
- 提出實務理論與具體教學實施建議

# 行動研究報告的撰寫要領



寫作前的思考—溝通的重點、對象、方式

大綱的研擬—分析性邏輯、批判論證架構

故事的敘寫—重要經驗情節、

值得討論的議題

資料的處理—「去蕪存菁」

繕寫後的檢視—脈絡、證據、解釋、文字、

形式、倫理疑慮



# 行動研究成果的評估判準



國立臺灣師範大學  
National Taiwan Normal University

- 資料蒐集與分析的嚴謹度
  - 資料來源、分析方法、效度檢驗
- 自我省思與批判的深刻度
  - 角色定位、議題脈絡、權力關係、行動意義
- 互動關係中觸媒效用的影響力
  - 現象認知、概念轉換、意識覺醒、專業成長
- 研究結果的實用價值及其推廣性
  - 改善實務、修正理論、激發共鳴與對話



# 教學實踐行動研究舉隅



- **Arts**

- Materials for oriental theater/opera courses
- The influence on learning of music fundamentals by non-music majors
- Audio-visual orientation to handicapped person
- Improvement of visual materials for teaching art history courses
- The play's the thing: A video-oriented approach to innovate the teaching and understanding of plays in theatre
- An interactive computer-based approach to instruction for interior design specification
- Compendium of photographic techniques

- **Humanities**

- The application of elementary logic to real world argumentation Instructional materials in classical subjects
- Slide presentation on Homer's ILIAD
- Using oral history to introduce basic writers to academic discourse
- A pilot project to begin implementation of a program of writing across the curriculum on a regional campus
- Cultural teaching aids for the basic French language
- Computer-assisted instructional materials for new proficiency-oriented, functionally based materials for Arabic

- **Education**

- Literacy protocols: Reading and writing the classroom
- Computer dialogues as educational materials in science education
- Develop films for improved safety and spotting techniques in gymnastics
- The development of an Olympic gymnastics audio visual instructional unit for the sports education of Physical education major
- Teaching Math concepts using peer instructors to reduce Math anxiety
- Videotaped examples and analysis guides for teaching practical reasoning in Home Economics



- **Business**
  - Classroom exercises created from national longitudinal surveys
  - A computer program designed to evaluate “long answer” problems
- **Social and Behavioral Science**
  - Establish remote physical anthropology labs: uses for ICT in instruction
  - A visual-verbal teaching program for introductory Sociology
  - Development of Physiological recording system
- **Social Work**
  - An ecological approach to the teaching of Social Work and related discipline



- **Agriculture**

- Establishment of a software library for environmental education
- Bibliographic instruction in natural resource courses
- Developing quality visual aids to assist in teaching agricultural students computer principles and applications using programmable calculators

- **Biological Science**

- Positive exposure program: A multi-media approach to affect attitudinal change
- Development and evaluation of the effectiveness of computer-assisted “Socratic” dialogues to address misconception of Biological concepts
- Learning style characterization of the non-science major in introductory Biology

- **Engineering**

- Multisensory approach in teaching orthographic projection
- Development of scaled models to demonstrate the principles of passive solar energy
- Interactive utility encoding programs for instruction of engineering systems analysis
- Preparation of structural models for teaching welding engineering design

- **Mathematical and Physical Science**

- New instructional mode for discrete Mathematical modeling
- Enhancing lecture demonstrations in large-enrollment general Chemistry course using videos
- Computer simulations for Physics instruction



- **Medicine**

- Simulation of microscopic evaluation of blood cells and bone marrows
- Use of a plastination technique for the preparation of anatomical models
- Use of standardized patients in teaching clinical competencies

- **Nursing**

- Modeling and rehearsal as strategies to develop empathy for the homeless in nursing students

- **Veterinary Medicine**

- Veterinary educational resources, advanced suture pattern techniques: application and performance

# 行動研究方法參考文獻



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