ICT in Teacher Education

- Japanese Experiences -

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ICT in Pre-service Teacher Training

- Requirement　(4 credits)
  - Information Processing (2)
  - Computers in the subject matter (2)
    - For Department of Educational Studies: Education and media
- Electives
  - Lecture and Demonstration of Educational Technology (2) <Requirement to the Department of Educational Studies>
  - Practice in Educational Technology (2)

ICT in In-service Teacher Training

- Guidelines issued by Bureau of Primary and Secondary Education, MEXT
  - Curriculum responding to the Course of Study
- Guidelines issued by Bureau of Life-long learning, MEXT
  - ICT as one of the audio-visual media

ICT competencies for Teachers in Japanese Education

- For Elementary school and Secondary school teachers developed by Special Task Force under the Bureau of Primary and Secondary Education, MEXT in March 2003
  - 10 objectives
  - General and specific according to the subject matters
  - Educational objectives described and followed by the use with functions

Objectives for the ICT competencies for Teachers (1/2)

In order for all teachers to realize 'Understandable Classroom Learning' with the use of computers and the Internet etc., teachers are expected to be

– able to carryout the file operation (create, delete, copy the files stored on the devices and creation of folders),

– able to process document by word processing software (input, creation, printout and saving files),

– be able to do tabulating (with utilizing computing functions) with spreadsheet software

– be able to data processing (such as creation of database with the input of indexes to retrieve and classify data),

– be able to use the Internet to retrieve information needed,

Objectives for the ICT competencies for Teachers (2/2)

- be able to explain the contents of the information with characters and images on the presentation software with the use of projector,

- be able to operate e-mails such as to send, receive and attach files and to compress and decompress the file attached,

- be able to create and revise the school webpage,

- be able to carry out teaching learning in the classroom with the use of educational software, and

- be able to carry out teaching learning in the classroom with displaying the contents on the Internet by projector,

National Curriculum Standard for the Training of Education Media (Draft)   - March 2004 -

- Background
  - April 1973
    - National Curriculum Standard for the Training of Audiovisual Education
      - To promote (1) audiovisual education, (2) continuous development of audiovisual materials, (3) establishment of the audiovisual education centers throughout Japan, and (4) enhancement of the teachers and related personnel competencies
      - Courses and implementation: Beginners Course by municipalities, Intermediate Course by prefectures Advanced Course by the Ministry

National Curriculum Standard for the Training of Education Media (Draft)   - March 2004 -   (2/4)

- Background
  - April 1992
    - National Curriculum Standard for the Training of Audiovisual Education Media
      - To cope with the progress of media like computers and its related media
      - Courses and target: Training Course I for teachers and Training II for leaders who plan the Training Course I
      - Describe overall media for planners to select and to decide the levels of the knowledge and skills in utilizing the media

National Curriculum Standard for the Training of Education Media (Draft)　- March 2004 -

- Curriculum Structure

  – Training categories (22), sub-categories (66) and training items (261)

    - Education media in general, Utilization of education media, Broadcasting media (radio and TV), School (Regional) Broadcasting, Visual media, Visual materials, Recording media and materials, Computers (Introduction), Word processors/computers, Spreadsheets/computers, Presentation/computers, Databases/computers, Multimedia/computers, Networking/computers, the Internet/computers, e-mailing/computers, Websites/computers, Educational comprehensive software, Copyrights and information morals, open and distance learning, Plan of regional media environment and media center, and Training of implementers

National Curriculum Standard for the Training of Education Media (Draft)   - March 2004 -   (4/4)

- Curriculum Structure
  - Plan of training model courses (10)
    - Training contents
    - Targets: School teachers, School administrators, Librarians, Personnel in museums, Senior leaders in non-formal education institutions, Personnel in non-formal education institutions, and Citizens
  - Cases (41): classified by targets (30) and objectives (11)
    - Course titles, Objectives, Targets, Implementers, Duration, and Others such as suggestions to organize the course in terms of media prepared and to be utilized, balance of theory and practice, etc. *)

  *) Not mentioned about the place or venue for training such as schools