Moral Education Enhanced by New Media in IT Courses

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Background

The traditional information cycle is changing.

http://www.elearn.space.org/blog/2009/04/17/the-changed-information-cycle/
The rates of youth mobile phone ownership Internet users is increasing.
文部科学省 子どもの携帯電話等の利用に関する調査(平成21年)

For communication
For entertainment
For communication:
- Online Search: 62.0%
- Reading News: 58.2%
- Visiting social network site: 43.6%
- Posting comments: 33.4%
- Online game: 29.2%
- E-mail: 23.5%
- Online video: 22.1%
- Blog: 20.0%
- Online paying: 9.1%
- Online Bank: 5.9%
- Online shopping: 5.2%
- Online booking: 2.6%

For entertainment:
- CNNIC. The survey of Chinese youth online behavior 2010
Information Education in Japan

Primary School

The Period for Integrated Studies

Practical skills in using IT

Scientific understanding of IT

Used in a variety of subjects

Technology And Home Economics

Information And Computer

Mathematics and etc.

1. Information Study for Participating Community

2. Information Study by Scientific Approach

Attitude to participate in the information society

Middle School

High School

Society

Civics

### Five areas of Information Ethics

<table>
<thead>
<tr>
<th>Area</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Ethics of information society</td>
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<tr>
<td>2</td>
<td>Understanding and compliance with law</td>
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<tr>
<td>3</td>
<td>Indigenous knowledge of security</td>
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<td>4</td>
<td>Information Security</td>
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<td>5</td>
<td>Construction of public social networks</td>
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</tbody>
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Teaching materials for moral education
Information Education in China

Primary and Middle School

High School

Elective

Compulsory: The basis of IT
2 Credits

Elective 1: Algorithms and Programming
Elective 2: The application of multimedia technology
Elective 3: Network Technology
Elective 4: Data Management Technology
Elective 5: Artificial Intelligence initial
2 Credits
The problems in High school IT courses

With large amount of information and limited time, it is difficult to have enough interactions with students in classroom.
The problems in High school IT courses

IT course focuses more on technology and skills, it is hard to find time to discuss moral problems.
The problems in High school IT courses

With different students’ starting point, it is difficult to involve all students in the same activity.
The problems in High school IT courses

It is difficult to keep students concentrate on designed activities.
The problems in High school IT courses

With rapid development of IT, it is hard to provide timely materials for students.
The problems in High school IT courses

With time limited class, it is hard to provide students timely help.
Blended learning

"Blended learning focuses on optimizing achievement of learning objectives by

- applying the ‘right’ learning technologies
- to match the ‘right’ personal learning style
- to transfer the ‘right’ skills
- to the ‘right’ person
- at the ‘right’ time."

Singh and Reed (2001)
Choosing appropriate topics

- Practical Skills
- Information Literacy
- Basic Theories

Topics for activities
Choosing appropriate topics

- Evaluate information received from internet carefully and objectively.
- Publish information on internet responsibly.

Society
- Respect for personal privacy.
- Respect for intellectual property.

Other people
- Keep our computers secure on internet.

Personal
Know how to deal with all kinds of multimedia information.

Every unit focuses on one medium.

Make a promotional video for school.

Text  Picture  Animation  Video  Audio  Presentation

多媒体

• Keep safe information by protecting personal information on the internet responsibly and objectively.
Teaching process

On-line

Background Research

Background research report

Multimedia technology study

Demonstration and evaluation

Classroom

One group give the reports.

Focus on knowledge study.

Combining teachers’ lecture and students’ collaborative Learning

After class Discussion

On-line

• Teachers post more related materials.
• Students think and discuss what to do.

• Teachers post keywords.
• Students search on the internet

• One group give the reports.
• 5W and 2H

• Focus on knowledge study.
• Combining teachers’ lecture and students’ collaborative Learning

An Example: Multimedia course

Facing with real cases, start to think about the moral problems.

Every activity has warm-up and afterwards discussion.
Environments for multimedia activities

- **Self-learning**
- **Collaborative learning**
- **Collective Learning**
- **Students**
- **Guide**
- **Self learning**
- **Teachers**
- **Collective Learning**
- **Lecture**
- **Organize**
- **Social Network**
- **Internet**
- **Printer**
- **Digital Piano**
- **Digital Video Camera**
- **Scanner**
- **Computer**
- **All kinds of materials collected by teachers from internet**
- **Projector**
- **CAI Software**
- **Interactive Whiteboard**
- **Textbook PowerPoint, etc.**
- **Media**
- **Hardware**

- Hand-painted board
- Social Network
- Internet
- Printer
- Digital Piano
- Digital Video Camera
- Scanner
- Computer
- All kinds of materials collected by teachers from internet
- Projector
- CAI Software
- Interactive Whiteboard
- Textbook PowerPoint, etc.
- Media
- Hardware

All kinds of Social Network Textbook, etc.
An Example: Multimedia course

Active participation.
Develop problem solving, and scientific thinking habit.
Experience the whole process of making work.
Grasp the basic knowledge.

Students centered activities
An Example: Multimedia course

Different situation, different demands.

Combining student’s demand, give timely help.
Conclusion

- Focusing on moral discussion within IT courses.

- Mixing on-line study with traditional classroom teaching.
Further work:

Using in multimedia course only.

Using the social network sites, such as Renren, none specialized tools.

Wider usage in other courses.

Develop a unified supporting environment?
Thank you very much!

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