# The Virtual University in the World and the Establishment of International Graphic Arts & Printing University

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1 、 Introduction

On entitled " the future in virtual university " the author announced to the New Year Number of daily M(http://www.monz.co.jp) on January 4th, 2001.

There are introduced a case in the university of America and Korea about On-line Distance Education and got up the conception of Eurasia Crossing Information Network Korea and so on. (1)

U.S. Distance Learning Association (USDLA) (http://www.usdla.org/) is collecting the information of the On-line education about each field of the education, the industry and the service.

In the university, the Stanford and the Colorado opened a lecture on the university generally by the cooperation with the industrial enterprise beginning from 1996.

The Rochester Institute of Technology (RIT) by which the field of the graphic arts education has results worldwide (http://onlinelearning.rit.edu) exhibits lecture by the Internet at the rank of 4th of On-line Distance Education in America .

The doctoral course of Image Science in RIT isn't yet installed in On-line Distance Education.

The Japanese Distance Learning Society (http://jdla.tmit.ac.jp) is established in May, 1998 and is showing lively activity such as the research releasing, the publication of the society magazine, the opening of an international conference. The international conference (The 2nd International Conference on Information Technology Based Higher Education & Training) which is held by this society sponsorship of Kumamoto university from July 4th to the 6th ,2001.

The On-line Distance Education is worldwide forming in the university and the industrial field.

University council (http://www.mext.go.jp/) about the state of the higher education which is demanded in the globalization times is submitting a report to Minister of Education & Science in Japan.

There are problem as the communication infrastructure and the regulation relaxation, but it let's be possible to say the step which began examination barely for the front of the government in the IT revolution of the world.

The paper deals with about the virtual education in the world and the establishment idea of International Graphic Arts & Printing University (IGU)

(http://www.media-line.or.jp/igu). (2)

2 、 The Virtual University in the World

The market scale of whole American virtual education is expected to 40 billion dollars.

Generally the contents of net use are classed in three section.

The first is education portal, the second are that is to say education contents provider, the third is offering of WBT(Web Based Training) platform. (3)

Most of an American university install On-line Distance University, and it is opened a course of Graphic Arts.

USDLA(United State of Distance Learning Association) lists such as On-line treatise or Distance Education Providers are shown and get possible to select taking lectures life freely. It has begun the use of the Internet because most of the developing country in Asia, Africa and Latin America perform university education.

On-line Distance Education is lively about Australia, Canada, the European various countries and the part time student of On-line compatible is registered for in 21 % of the whole university which are live in 1997/98 of Open University in the United Kingdom.

(http://www.open.ac.uk/)

The Indian Indira Gandi National University reduces expenditure of school expenses, and there is you aiming at the high education of quality, and 600 thousand students register themselves from the India whole land at the university and tie up 504 places of research centers in a network.

As for the education language with Internet, English becomes de facto language at time of December, 2000.

On education language, as for translation of a native language of each person, translation about technical term becomes difficult by a delay of construction of a database from a foreign language.

Most English becomes use language with On-line Distance Education in order of 47.6%, Japanese 9.6%, Chinese 7.6%, German 5.5%, Spanish 5.2%, Republic of Korea word 4.2%, French 3.5% in the world, and the use of Japanese is increased.

The economics model of the On-line Education about the higher education was released by G. A. Berg in the Chapman university in the United Kingdom.

After the relation between the expenses and the number of the students compares a classroom lecture and an Internet lecture, in the Internet lecture, the cost in case of the little number of people becomes high with the early stage investment.

However, after the student increases, as for the Internet lecture the expenses decline from the case of the classroom lecture.

In late years Competency attracting attention by higher education is an ability action standard of a person having a high achievement by one duties. (3)

A graduation qualification is given if the university acquires the department subjects from the each occupation.

Western Governors University (WGU) is authorizing to university subjects, and students graduate the university by this method.(http://www.wgu.edu/)

There is the program that there was belong to Competency, and this becomes graduation of this university if you make clear for the condition that WGU authorizes.

In this way, On-line Distance University in the world leads steady achievement today in the improvement development.


3. The On-line Education in Japan

As for the On-line education in Japan, Keio University began the remote education from May, 2001 that can attend a lecture from whole country everywhere by using the Internet. The university builds the system that can attend MBA course, too, in 2004.

(4)

Ministry of Education & Science of Japan is ready to reform remote education the communication system according to the report of " the university council " in June, 2000, and it aims at the form of the advanced education provision that the master and the doctorate can be obtained.

This treats various information such as the character, the sound, the static image, the video image overall for the Internet to utilize by the remote education and the interactive conversation becomes necessary on the internet at the same time.

Moreover, there are establishment of circumstances in the university education where this is offered to across a border and get possible to attend Japanese University Education abroad in future.

There is an advance from America that is, Stanford University take charge of the D. Harris professor in the lecture of Tele Communication toward Japan.

As for this taking lecture, Tokyo Metropolitan Science and Technology University (http://www.dlc.tmit.ac.jp) complies with request from Stanford University in Japan.

At present, this result isn't authorized as the unit in the Japanese University.

The experiment to join the university of Japan and the U.S. carried out at Shonan Fujisawa canvas (SFC) in Keio University using a nexus broadcasting technology in the Internet.

This becomes accessible from the people outside, and able to exhibit a lecture on the university widely.(5)

The Kumamoto University begins " virtual class " which used the Internet from April, 2001.

This university plans with about 7 - 8 lectures mainly in the Faculty of Engineering and Faculty of Law.

The method fills out questionable points from students on bulletin board, and an advice is done from professor. This university compares a lecture of net use and a lecture in a classroom and reports that there was not a big difference as a result of having compared understanding degree of a student. (6)

Shinshu University (http://shinshu-u.ac.jp) begins the Internet graduate school from the information engineering course in 2002.

It described that the experiment on the information engineering field became possible on the computer and that it was possible to correspond in Internet.

Communication system education by the master's course was begun from 1999 in the Seitoku graduate school, the Meisei graduate school, the Buddhism university graduate school and the Nippon university graduate school which establishes a communication system graduate school.

Here, these school are doing main learning provision in the Internet from the conventional text sending form.

The Sannou university has begun a general class and seminar as iNet Campus.

The print media teaching materials by the post become unnecessary because the teaching materials is the Internet about WBT .

Therefore, the print of the textbook and the teaching materials decreases but the content creating field and the Web development will become active.

The author carried forward the establishment preparation of the International Graphic Arts & Printing University under these background.


4 、 Establishment of the International Graphic Arts & Printing University

The concepts of establishment on the International Graphic Arts & Printing University

are as follows.

(1) The contribution to the development of the economy, the culture and the society in the world that accompanies the globalization.

(2) The upbringing of the talented person prospecting IT age

(3) The cooperative promotion of the university and industry.

(4) The establishment of virtual education in the graphic arts and printing division.

(5) The expansion of the graphic arts and printing department into the university in
the world.

The author investigated to have interchange with the Darmstadt Technical University,

Koln College of Polytechnics in Germany and Leiden University in Holland on the occasion of Drupa 95 in May 1995, and discussed the trend of the virtual education in the Chinese Culture University in Taiwan and the Chinese University in Hongkong.

Moreover, in the international printing conference of September,1996, it was possible to be interchanged with the Beijing Printing Academy and the Shanghai Printing College.

The author have obtained the information about IT and Curriculum from RIT, Illinois

State University, Ferris State University and Murray State University. with Chicago Print 97.

In October 1997, the International Conference on the Printing & Publishing History was opened in Seoul and was conformed to construct archive of ancient printing

cultural

heritage by world level. (7)

The archive became the basis in the virtual university.

The author have presented the recent printing technology of Japan in the meeting Of Institute of the Korea Institute of Machinery & Materials and Korean Association of Graphic Arts & Information Technology (KAGAIT), and then impressed the utilization of Internet to the schoolchild level. (8)

In drupa 2000, author have established the basic investigation on the on-line distance education through the interchange with British West Herts College and Leipzig Printing Museum. (9)

On the other hand, Japan Association of Graphic Arts Education has been established

for introducing the fundamental concept on graphic arts education in 1985. (10)

Author had decided the establishment of the International Graphic Arts & Printing University under such progress in April 2000.

The following preparation carried out (1) the establishment of the secretariat,(2) institution of the regulations, (3) guest professor election, (4) faculty council and the board of directions, (5) the establishment of two Faculty containing six departments.

5, The Contents of Six Departments and On-line Learning

The International Graphic Arts & Printing University is a virtual university have established in Japan for the first time in June 16 th , 2000.

The activity of the education and the research was started with the guest professors and the administers.

The International Graphic Arts & Printing University consists of two Faculty of the Graphic Arts and Faculty of the Communication.

The Faculty of the Graphic Arts makes main constitution of analog system, and installs the Department of Printing Image History, the Printing Education and the Image Reproduction.

The Faculty of the Communication by digital prospects consists of three Departments of

The Computer Processing, the Image Communication and the Printing Futurology.

These six departments are composed of the following subjects:

(1) The Department of The Printing Image History

Printing History, Gutenberg Study, Printing Museum

(2) The Department of The Printing Education

Printing Education Theory, Distance Learning for Printing, WBT(Web Based Training)

(3) The Department of The Image Reproduction

Tone Reproduction, Color Reproduction, Printability, Printing Management

(4) The Department of The Computer Processing

Press & Prepress, DTP, On Demand Printing, Work Flow, Color Management

(5) The Department of The Image Communication
Network, Image Evaluation, Image & Color System
(6) The Department of The Futurology
Printing & Graphic Arts Industry, Future of Digitalization, Prediction of Graphic Arts &
Printing World
Moreover, The three basic subjects in the introduction for the entrance of International Graphic Arts & Printing University are consisted of the Theory of Graphic Arts, the Theory of Color Science, the Theory of Information Technology.

These basic subjects take up theme related to graphic arts and printing technology. The guest professor is delivering the explanation and question by E-Mail. The student delivers the answer after two weeks, and the professor corrects and guides with the model answer.

There is the subject of research study. The theme and the abstract of the research are summarized on the home page of International Graphic Arts & Printing University.

6, Conclusion

The student has the logic institution type and the feeling institution type.
The professor must be established the teaching method corresponding to individual needs.

It is important to raise the information and media literacy to make advances year by year. International Graphic Arts & Printing University develops to be always argument such as the syllabus exhibition on the subject, and then interchanges with the related university.

The students and the professor about On-line Distance Education must be interactive in a pair based on the computer technology and securing an intellectual request.

The establishment of International Graphic Arts & Printing University in April,2000
was the most suitable time in the graphic arts & printing department decreasing & reducing environment in Japan.

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