

### **Topic Area:**

### **Internet Environment and Services**

# DEFINITION

A teaching and learning environment located within a computer mediated communication system. Rather than being built of steel and concrete, it consists of a set of group communications and work "spaces" and facilities that are constructed in software; thus it is a "virtual" facility for interaction among members of a class, rather than a physical space.

(Hiltz & Turoff; 1993)

### THE FACTORS THAT INFLUENCING REVOLUTION ON EDUCATION and TRAINING

Sophistication and availability of:

- □ Infrastructure of communication (\*)
- Computing multimedia(\*\*)
- Multiplying effect and/or derivation of (\*), (\*\*) and peoples needs

**Those resulting:** 



Imperative needs of peoples on Virtual Class Services

# **VIRTUAL CLASS DESCRIPTION**



### **VIRTUAL CLASS ADVANTAGEOUS**

SELF SCHEDULED

SELF-MOTIVATED

SELF-PACED

HIGH RETENTION

CONTINUOUS AVAILABILITY

NON THREATENING LEARNING ENVIRONMENT

CAN OVERCOME DISTANCE & TIME CONSTRAINTS

### **TO IMPLEMENT VC IN INDONESIA**

### THE CONSTRAINTS

- □ THE LACK OF EQUAL OPPORTUNITY TO ACCESS INTERNET
- THE LACK OF COMPUTER LITERACY OF THE MOST ITS PEOPLE
- □ THE LONG OF PRESENT ECONOMIC CRISIS
- □ THE LACK OF CARE (CONSCIOUS) OF AUTHORITIES TO HRD

# THE CONDUSIVE CONDITIONS

- SIGNIFICANTLY INTERNET/ WEB COMMUNICATION COMMUNITY & INFRASTRUTURE CONTINUOUSLY GROWS
- □ A PART OF INDONESIA PEOPLES NEED CRUCIALLY THE ICT
- GLOBAL INFLUENCES AND INTRUSIVES OF ICT AND ITS HARDWARE/ SOFTWARE
- EMPIRICALLY THE MAJORITY OF INDONESIA EXPERTS AGREE WITH VIRTUAL CLASS/ E-LEARNING ESTABLISHMENT

### **OBJECTIVES OF THE PROJECT**

### TO PROVIDE ENOUGH RADICAL CONCEPTS OF VIRTUAL CLASS BUILDING

### INTEGRATED CASE STUDY IMPLEMENTATION ON THE INTERNET/ WORLD WIDE WEB



THAT WILL FULFILS BELOW SPECIFICATIONS:

### VIRTUAL CLASS SPECIFICATION REQUIREMENTS

#### □ Interesting, promising and challenging

- Complete and self contained administrative procedures
- Complete and clear syllabi and curriculum
- The content:self sufficient, interesting, self adapting, real time, exciting feedback, scalable& upgradable, path/ navigation tractable & controllable
- □ Good hardware & software support
- Continuously monitored by its each experts
- Provide enough spaces and tools to various feedback/ participants's inputs
- □ Its output sufficiently proctored
- □ Etc.

### **DEVELOPMENT METHOD**

DIGGING LITERATURE SOURCES ON BOTH EDUCATIONAL AND TECHNOLOGICAL
INTERVIEW WITH THE CONCERNED EXPERTS •COST AND BENEFIT ANALYSIS
•ANALYZING HARDWARE AND SOFTWARE POWER AVAILABLE
•ANALYZING POSSIBILTY OF SCALABILITY
•EXPERIMENT AND EVALUATION
•VERIFICATION

### **DEPELOPMENT PROCEDURE**

#### **THEORITICALLY:**

#### ADOPTING CONSTRUCTIVIST THEORY OF LEARNING THAT HAS ITS CHARACTERISTICS/ PRINCIPLES:

- □ TARGET TASKS OR PROBLEMS AS ITS ANCHOR
- LEARNER AS OWNERSHIP OF THE OVERALL PROBLEM/ TASK
- LEARNING TASKS HAVE TO AUTHENTICE SIMILAR TO REAL WORLD SITUATIONS (CONSISTENT WITH COGNITIVE APPRENTICESHIP THEORY)
- □ LEARNER AS OWNERSHIP OF THE PROCESS
- LEARNING ENVIRONMENT DESIGNED AS SUCH THAT LEARNERS IS CHALLENGED THEIR THINKING
- PROMOTING COLLABORATIVE LEARNING GROUPS OF LEARNING COMMUNITIES( KNOWLEDGE, SOCIALLY NEGOTIABLE)
- GIVING OPPORTUNITIES TO STUDENTS REFLECTION ON BOTH CONTENT AND THE LEARNING PROCESSES.

#### **THEORITICALLY:**

- ADOPTING VARIOUS OF DESIGNING THE INSTRUCTIONAL SYSTEMS THEORIES (e.g. from A.J.Romiszowski, etc.)
  - ADOPTING THE EXPERIENCES OF PREVIOUS VIRTUAL CLASS/ E-LEARNING/ DISTANCE LEARNING(TRAINING) DEVELOPERS AND EACH ITS ISSYUES

#### **PRACTICALLY:**

- SEARCHING COLLABORATION WITH CONCERNED EXPERTS AND AUTHORITIES
- TO INVITE THE INFRASTRUCTURE PROVIDERS TO PREPARE THEIR SERVICES ADDRESSED TO SUPERHIGHWAY COMMUNICATION/ BROADBAND WIRED OR WIRELESS COMMUNICATION
- TO INVITE BUSINESS FIELDS PLAYERS TO INVEST THEIR CAPITAL IN THIS VIRTUAL CLASS/ E-LEARNING AREA



#### **ESTABLISH THE REAL VIRTUAL CLASS AND ITS CONCEPT**

## CONCLUSION

In order Indonesia to soon rises/ gets up, Virtual Class is a major alternative to be established qualitatively in this country(Indonesia)

Sooner or later Virtual Class, even without want to, will shifts education and training or human resources preparation paradigms.

Wether to answer the crucial needs of a part or the majority of Indonesia peoples, Virtual Class or a kind of it, need to be established pragmatically but conceptually.

# Thanks !!!