

## Analysis and Review of Virtual Teaching Patterns in Order to Offer and Appropriate Patterns in Iran

*Arvin Tavakoli*

Department of Education, Marvdasht Branch, Islamic Azad University, Marvdasht, Iran

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**Abstract:** The Purpose of the Present research is the Analysis and review of virtual teaching patterns in order to offer an appropriate pattern the method of this research is descriptive-Analytic. In addition, the data Collection tools have included Studying in libraries, investigating related sites and interviewing with cited people in this field and the virtual teaching methods people in this field. The virtual teaching methods that have been investigated in this research include: virtual teaching design pattern of Govindasamy, Virtual teaching design pattern of siemens and Virtual environment design pattern and they are all enforceable in Iran. In analysis and review of virtual the teaching patterns, the patterns are related to cited people like behavioral and structural Bandora, Vigotsky, Ganie, Broner and they are analyzed according to instruction theories. One of the most important parts of this research is the ways of web designing according to each theory of virtual teaching learning. Besides this, in this research a mixed pattern has been presented that pays attention to underlying structure of human and psychological virtual teaching such as creativity, provocation and shared learning and it presents Some Practical Solutions for designers of this kind of teaching.

**Key words:** Virtual teaching patterns • Learning theories • Virtual teaching • E-learning

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### INTRODUCTION

One of the technology uses is virtual teaching and it is a method of teaching in which we use different kinds of electronic media to teach something to individuals Teaching designing, performance, the Valuation of Virtual teaching Programs all deal with very Sensitive factors that Sometimes due to lack of awareness about the issues related to new technology are hidden for resolves or investors in this section. Most designers just pay attention to underlying Structure of Virtual teaching. In addition, it causes that we do not pay attention to some points like the learning Style, emotions and status, needs and provocation. Two phenomenons of Speed and population have caused a new Challenge for education world. The fact that how we can provide educational information and materials for people seeking knowledge and Science is a fact that leads us towards long-distance teaching and virtual universities more and more.

If we accept an interpretation that each technology is developed just for developing one of the human abilities, then we understand that information technology is a technique for ravening human thought. So, practical field of information technology and education is thinking of

Creating and educational System but not renovation of that. At the present, a change in educational System has started, but we are in the beginning of the way. A Fundamental change is on way to happen. Perhaps, the usage of information technology is certain in education, but its method and purpose is definitely optional. If you have, a wise selection can result in remaining behind and Following Something blindly can lead to unidentification and value abolishment [1-5].

The purpose of virtual teaching is not to change traditional teaching to a virtual one but to present specific teaching with modern methods. The maxim of virtual teaching is 'teaching to everybody at any age'. Therefore, we should see what things we cannot Present through traditional method and then try to present them through virtual teaching. We should use Virtual-teaching facilities in order for improving traditional teaching but not for substituting it. These days, everybody, everywhere is talking about accessing information easily and in the shortest time. All of this discipline, attention, and Speed are because of the invention of Computer and its daily growth and also internet and its influence in all the world's houses. Considering the Speed of information technology growth, we Can Predict that every person wanting to get

information, knowledge, and Science will be able to attend educational Courses belonging to other Countries and universities without time and place restrictions. And he/she can finish different processes of education successfully [4].

A Person who is in Charge of "Takfa" electronic education Committee States that: teaching and improving human force is considered as the most Pivotal issue in "Takfa". Within the frame work of improvement and usage of information and Communication technology (TAKFA) The human Sources improvement is stated through electronic teaching. Reforming a walls-free university was often used in the 1970s and it was used not only to improve the new educational and research technology but also to improve the belief of open political and cultural space in high education and research.

It has changed into a scientific fact in high technology that has another symbol Called Virtual University. The number of such virtual institutes that give Virtual Certifications is growing. Some estimates show that only in the United States there are about 300 Colleges and universities that offer Such Courses of high education - And we expect that the Virtual teaching market become twice as large each year. In addition, retrospectively, it would have reach 11.5 billion dollars until the end of 2003.

Despite the abundant Problems that exist for Providing Virtual teaching facilities in Iran, in logic Programming System, The fact that this Society is young is one of its Specialties about a half million instructor are in charge of teaching twenty million students all over the Country. The need for Classrooms is growing everyday and different buildings are being established in most parts. Of the Country by state, Azad and Payam-e-noor universities, Experts believe that educational System in our Country of Iran with abundant expenses will establish a weak foundation and by this kind of investment again high education of our Country is not able to accept more than ten Percent of Students demanding high education According to these problems we Can Say that the best investment in high education, is choosing Virtual education because it Can be the Shortest and the most efficient way for high education of the Country [5-8].

According to Daniel in 1996, in order that we fix the share rate of university Students in developing world, we should open a new university every week, so that we can respond to the growing young Population. It is obvious that while a few number of developing Countries Can

Provide the financial sources for the Current high education institutes, it is logical to attract to long-distance education technology. Virtual learning can even provide exchange for one Country. Investment on Software affairs and producing the required Software for Virtual teaching may not be inaccessible [8].

By its little expenses, anyway, one of the biggest world markets in future is Virtual teaching. Designing such teaching method without enough research and investigation about the existent patterns is a useless work. That is why virtual teaching should increase the learning quality and help the Student in their individual growth, they should in their individual growth, and they should interest him/her in research and discoveries. Without considering the maneuver and programming, the above- stated goals and Purposes would not be fulfilled. The first process of production and offering virtual teaching programs, knows the virtual teaching Patterns and educational design. By knowing these Patterns, we Can evaluate the designing and Performance of this kind of teaching in the Country.

The general purpose of this research is analyzing virtual teaching patterns in order for offering an appropriate pattern but detailed purposes are following items:

- Recognizing different Patterns of Virtual teaching.
- Determining how to use the learning theories in designing Virtual-teaching atmosphere.
- Presenting an appropriate pattern for virtual teaching.

**Research Questions:** In following, we can see four main questions of this research:

- What are the different virtual teaching patterns?
- How is the use of learning theories in designing virtual teaching atmosphere?
- How can be an appropriate Virtual-teaching atmosphere?
- How can be appropriate virtual teaching patterns?

## MATERIALS AND METHODS

In this research, we use descriptive-theatrical method and this research is qualitative in its field. First, the researcher Studies the theoretical bases and He analyzes different patterns and ideas. Then some data have been collected through interviews with cited People in the field of virtual teaching.

**Statistical Society and Sampling:** Statistical society involves all Sources and references (Looks, articles, Sites, etc.) That is related to Virtual teaching pattern that is used in Iran and other Countries. However, Since Virtual teaching Patterns are limited, they are chosen selectively by sampling method of ambitious Patterns Govindasamy [1] or virtual teaching pattern, or the pattern of virtual teaching design and designing Virtual environment. In this Part, the Statistical Society involves experts that have at least one scientific article in this field [2].

**Tools and Collection Data Methods:** According to research questions, the required data have been made in two ways:

**Library Studies:** The books and Certification in virtual teaching and electronic learning that are mainly come through information banks, Science direct, Request, Google and also through digital libraries of Association of Advancement of Computing in Education (A A C E).

**Interview:** A two- person Conversation that starts by the interviewer to get information related to the research and is concentrated on Topics that he needs to achieve the research goals. According to the Topic novelty and limited number of cited People, interviewing and doing Surveys from the experts or experienced People in virtual teaching field and electronic learning, Can help the researcher to Collect data and present a pattern.

## RESULTS AND DISCUSSION

The results of this research are not statically and they are qualitative. Therefore, the Criteria that are used for analyzing qualitative data's are certainly wisdom, thought, analysis, and Sensibility. The researcher analyzes them by studding the Certifications. As a result, in analyzing qualitative data's the researcher has used a descriptive- interpretive way. In addition, due to different learning theories and the ideas of interviewees. The researcher has taken Steps to write some ways for Virtual teaching designers.

The Virtual teaching designing pattern (I) or Govindasamy [1] Pattern are Stated according to principle Pedagogy. In this pattern, different parts of teaching have been explained but a Critic that people have about this pattern is that the Processes of designing virtual teaching atmosphere are not being noticed. This pattern only shows a general view of Virtual environment, the

mentioned elements in this pattern are important elements in Virtual teaching atmosphere, and designers should pay attention to these elements while designing this kind of teaching.

It is assumed that the fundamental patterns of Virtual teaching design (II) or siemens pattern is that behavior is an observable and measurable phenomenon that changes in different environments. In this Pattern, they use a Pre- Planned topic that is able to be reduced to Smaller Components in a way that learning important Components, Can Cause the learner to reach the desired result and in fact, the learner can't select anything. In this pattern the designer just presents the learning Components in regular basis. This regularity is got by the students and receives the appropriate response. In addition, the students are asked to generalize what they've learnt to similar Situations (i.e. learning transfer is received because of the generalization.). The Students in this pattern only receive the knowledge that is Presented in different ways and in fact he is responsible for answering each Stimulant by offering an answer and he should pay attention to positive booster that are provided by a Correct answer. A teacher controls social System in this pattern and the Students take steps in a way that teachers draw for him. However, this Subject is one of the most important critics that people have about this Pattern [5-8].

Virtual teaching design pattern (III) Or Virtual environment design is mentioned based on structural theory. At it involves the following defects:

- The way of absence- presence (taking roles).
- The way students come to network.
- Determining necessary rules for registration.
- Paying the tuition.
- If evaluating the lessons should be in process or final?
- How to hold such evaluations.

## CONCLUSION

It is completely obvious that a discussion about different ways in the field of teaching design has some fundamental differences with the discussions about such ways in teaching philosophy. A cited person in teaching in theory and philosophical thoughts in the field of teaching has to get one of the philosophical ways of teaching. In this Case, there is not any Place for getting mixed ways, but on the other way, teaching designing Can

Select Some Special Solutions Selectively for its Practical, and performing features. Beaker States the fundamental factors that teaching designers Should Consider for mixing Learning theories while designing like the following [8-10]:

**Mixing Learning Theories:** Because different people learn different ways through different tools.

**The Way of Mixed Teaching:** Because the teaching program can be used for presenting information, private teaching, extra curricular teaching, offering through opportunities, experience, or consultations.

**Mixing the Media Roles:** Because media can have the role of a tutor, instructor, guide, book, toolbox, and assimilator and information resource.

**Environmental Factors:** Physical conditions in which learning takes place, like house, work place, learning center, conference room.

**Control Place:** Does the control of learning process takes place by learners or by a computer or does it happen between both of them.

**The Type of Content:** It contains content - it contains content organization the type of learning method in content and the accessible sources related to the content.

By considering the history of psychological researches in the recent century, you can understand that the ideas appear regularly and each time they have a shorter distance and the scientific growth has developed in a way as if everybody is waiting for newer ways. In the laboratory that all experiments rules and methods examiner and the examine are changing very fast discussion and thought about one idea is a non-generative and static idea. So According to flexibility of the mixed idea and also according to beaker and Atkins and Discestra, a selective idea for providing a proposed pattern in the present research which is an idea based on a "desirable mixture" of all learning theories. The proposed pattern has been presented [10].

In order to minimize the virtual teaching limitation (electronic learning), we can consider data from some statements about virtual teaching patterns, Designing the observed virtual teaching atmosphere, the virtual teaching patterns of interviewers. Some ways have been

organized for the designers of this kind of teaching. According to Ganie theory, that considers the learner's awareness from a teaching viewpoint a very important principle in learning purpose and the best method for the start of teaching is presenting a big image from teaching content to the students. At first, the proposed pattern, which is called lesson programs of electronic learning, presents a general view about the course to students. This general view helps students learn things through the Presenting a conceptual framework for the knowledge and new abilities, Presenting a framework for communication and using content, Awareness of the students from learning purposes and expectations. In following, we can see practical suggestions in achieving virtual teaching that are [9-11]:

Completing underlying communication that includes the followings:

- In university communication.
- Inter-university field (scientific network of the country).
- Equipping the university with appropriate hardware and software.

Starting a virtual teaching management that comprise the followings:

- Determining a teaching program for the awareness of instructors and students by information technology.
- Determining a standard framework for designing virtual classes.
- Getting scientific content (educational and laboratory with learning plan from the instructor and changing it into virtual class format with the instructor's observation.
- Reviewing in supportive structure of the research.
- Designing informatics libraries (Hybrid and digital).
- On-time informative system.
- Moving towards a digital atmosphere in research processes.

Motivational system that includes the followings:

- Paying attention to virtual teaching as a mass program.
- Encouraging the instructors to move toward this direction (i.e. job promotion, score promotion).

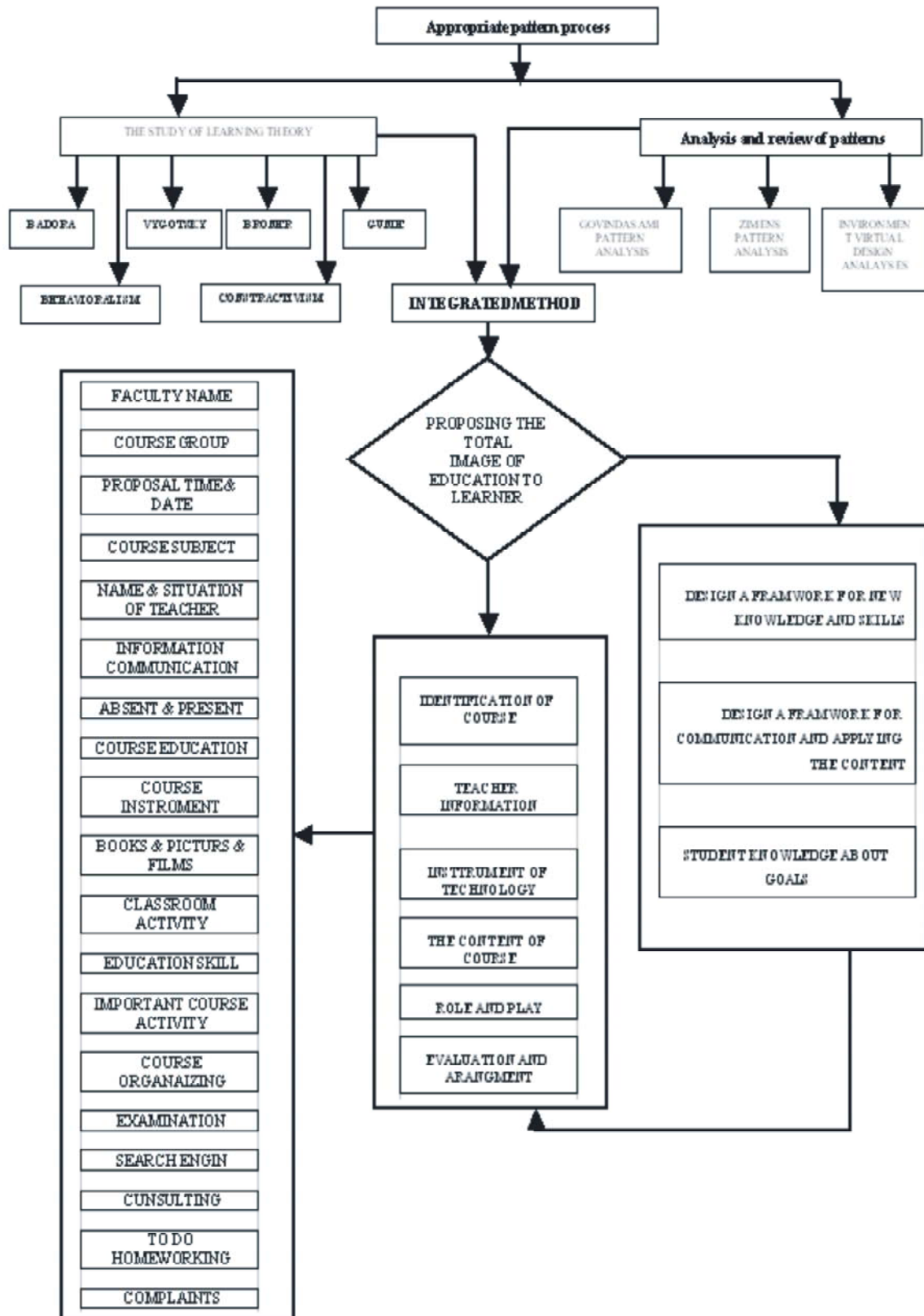


Fig. 1: Categories of proposed pattern

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