

Role of Modern Teaching Methods for Providing Quality Education at Higher Level

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Abstract

Teacher's way of teaching has a significance effect on students learning. The major aim of the research was to find out that How to improve the quality education through modern teaching methods. The purpose of study was to investigate which method is the best for the teaching learning process. The present study has pointed out the value of modern technologies in the teaching learning process. The concept of modern teaching is interactive and technology oriented. Modern teaching has necessary component of presenting ideas by students, through group discussion, cooperative learning, open discussion and self-study which is included in this study to furnish the students abilities in learning environment. Data was collected by two public's universities i.e. university of agriculture and university of education Faisalabad using a survey questionnaire. Convenient sampling technique was used for the selection of sample for the study. Thus, the sample size of the study was consisted of 50 respondents. The findings showed that teachers prefer the modern teaching methods for providing the quality education. Modern education is providing these all benefits to the society as whole as also it is reasonable by any class of people.

Key words: Modern Teaching, Quality Education, Learning environment, Faisalabad

INTRODUCTION

The most important purpose of education is to improve the quality of teaching learning processes. There are several modern teaching

methods that can be used in teaching and learning (Renata,2000). Modern teaching means to teach the students with the use of electric devices such as multimedia power point computer tablets. The concept of modern teaching is new. The students and teacher role are too active in this method. Computers are being used to provide up to date information. The computer in the classrooms are enhancing students' capability and understanding towards education. Teaching profession can be made attractive through modern devices (Lee, 2000).

Now society moves in 21st century where the education system has rapidly changed with the passage of time. Education is given with different modern IT tools which is helpful in teaching learning process. (Zazaleena, 2005). Many universities and higher secondary schools in the world use technology to increase the students learning tools like an internet access, email, interactive whiteboard, LCD, computers, multimedia projectors, laptop and course software that are according to the curriculum. (Honey, 2005). There are several modern teaching methods and These teaching methods are focused on students' active work. In this paper we studied some of these methods, i.e. problem-based learning (IBL), Project-based learning (PBL), Brainstorming, Self-learning, Free Online Learning Tool and Social Media(Goodison, 2005).

Teachers used computer in teaching learning process and try to improve their teaching techniques. Teachers save office work, students and teachers' attendance record, students' bio-data information and students' performance record. They often used computer to set their curriculum and update latest information. (Passey, 2006). Mostly teachers used computer as an attractive teaching tool during lecture, they engage the students with different creative activities in classroom whether students happily done their work. Teacher make lesson easy, interesting and meaningful with the help of computer (Scrimshaw, 2007). Use of multimedia improves the students self-learning ability. Multimedia makes student from passive learners to active learners. It also develops the student's innovative ability. Usage of multimedia in class saves a lot of time which teacher spent on writing on board (Tolstoy, 2008). With a single click teacher can share information in many forms like audio video, text, graphs because it increases the output information. Large number of students can easily be handled by using multimedia in classroom (Balasubramanian, 2009).

Project-based learning (PBL) is the most common method. It is an instructional methodology in which students learn important skills by doing several projects (Gursul, 2010). Problem based learning is often referred to as a form of inquiry-based learning (IBL), which describes an environment in which learning is driven by a process of inquiry owned by the student. The problem can be presented in various forms – question, task, experiment. (Costa, 2011). Teacher is a key element in a teaching learning process. Such teachers who come in classroom without any preparation may cause of poor learning and they must face problems. A teacher should be master in his work to perform all types of tasks. Teacher teaching style also affects the student learning and performance. (Al-amarat, 2011).

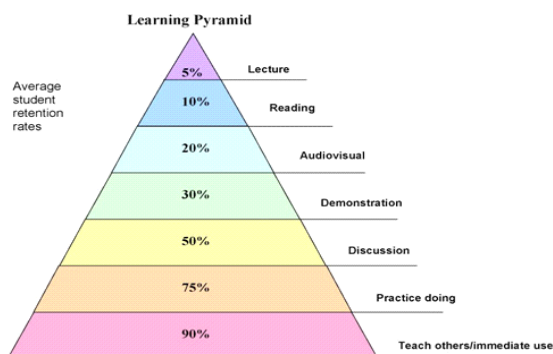
The teacher plays various roles. The teacher is a facilitator, a timekeeper, mentor and motivator. Brainstorming is a group creativity technique designed to generate many ideas for the solution of a problem. In 1953 the method was popularized by Alex Faickney Osborn in a book called *Applied Imagination*. The most important outcome of brainstorming is to improving team work in students. (Klimova, 2012). The 84% students learn through e-learning and 16% learn through traditional methods. Information communication technology improves our educational system day by day (Klimovo 2012). There is an array of free online learning tools available which teachers can use to encourage engagement, participation and a sense of fun into the classroom. Teachers can create an interactive and dynamic classroom environment using, for example, online quizzes to test student's knowledge. (Eady, 2013).

Modern teaching is used to get better the competence of educational system. Modern and traditional teaching is very effective to each other both are used to increase the quality of system (Xuan, 2014). the concept of e-learning has been started since 1999. In the early 90s many educational institutions are set up to delivery online education for students. Learning management system (LMS) has been started in 90s in Pakistan. Some educational institutions develop their own LMS system while some started with taking system from market. LMS is the best way of interaction between students and teachers. In 2000s e-learning concept has increased in business. In modern learning, (MOOCs) and (SOOCs) courses is used to give a new concept for students in 2010. (Gogos 2014).

The learning percentage of students through lecture method is only 5% and the learning outcome of students by using audiovisual method 20%. Similarly, demonstration method increased the learning of students 30% and discussion increased the learning level of students 50%. The learning through practice doing students learned 75% and also has a long-term effect on student's mind. modern teaching develops the student abilities of thinking and cognitive senses (Amit 2015). The trend of modern learning increased day by day as compare to traditional learning. The use of technology in the classroom is more beneficial for students because students actively participate in the classroom (Muayad and Hadithy 2015).

Modern teaching has become the important part of every filed like, commerce, researchers, management and education. E-learning provide us deep knowledge and help us to identify weakness and strength of every educational system. (Rehman *et al.*2016). Traditional teaching concept is very old and one-way communication. Online teaching is latest education concept by using internet and technologies includes many types of media that projector, multimedia, web learning as well as computer-based teaching. Online learning and teaching environment are very effective than traditional environment. In past people of rural areas shifted to urban places for quality education (Leach and Emerson 2016). modern teaching is more effective for self-education. Online teaching and learning are the new approach that used in modernized schools especially in a private sector. Learning through practices doing has long term effects in student's mind and 75% students learn by practice (Drozdova 2017).

Figure:1 Learning Pyramid



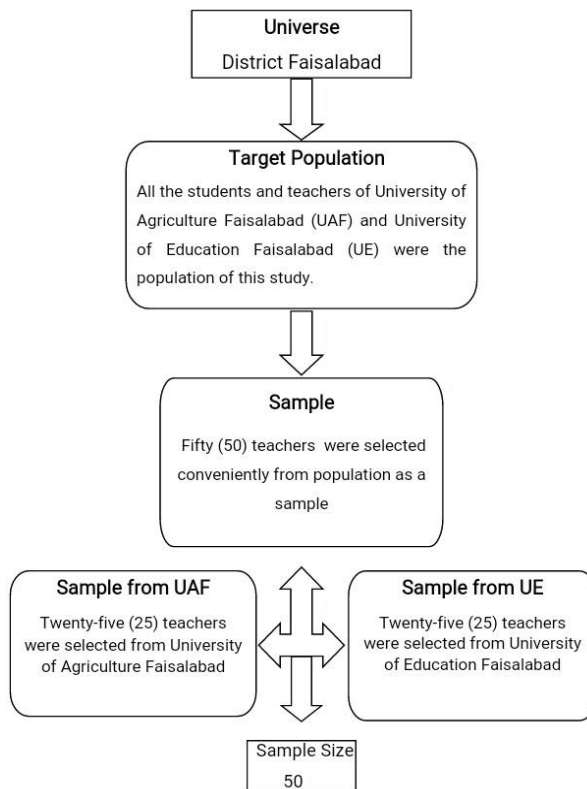
Source: National Training Laboratories, Bethel, Maine

STUDY AREA

The present study entitled “Role of Modern Teaching Methods for Providing Quality Education at Higher Level” was conducted in public universities of Faisalabad. Faisalabad is the third most populous city in Pakistan. University of Agriculture is the public sector university in Faisalabad. It is ranked 4th in Pakistan and 1st among agricultural universities. It was also ranked in QS worktops 800 universities in 2015. Data were collected from two public universities, University of Agriculture, Faisalabad (UAF) and University of Education, Faisalabad (UE). All teachers and students of both universities were the population of the study.

MATERIAL AND METHOD

Figure 2: Methodology flow chart



Data and its resources

Methodology is a system of methods used in a specific area of study and provides us the theoretical analysis of the study. Convenient sampling technique was used for the selection of sample for the study. The study employed a descriptive survey design to investigate the importance of modern teaching methods at higher level.

Methodology

All the students and teacher of University of Agriculture Faisalabad (UAF) and University of Education Faisalabad (UE) were the population of this study.

The sample size consisted of (50) respondents. Twenty-five teachers were selected from University of Education and twenty-five teachers were selected from University of Agriculture, Faisalabad for the purpose of data collection. The sample size of (50) respondents were determined by the convenient sample techniques. A well-structured questionnaire which was used for data collation from teachers. The data were carefully recorded according to the procedure. The purpose of data collection and procedure was explained completely to all the members before filling up of questionnaires. The copies of questionnaires were distributed among the students. Statistical Packages for Social Sciences was used to analyze the data. The inter-station of raw data is very difficult task. It's important that first data is analyzed and then interpretations are done through it. It is the main element of whole research procedure based on results and the researcher concluded the research.

RESULTS AND DISCUSSIONS

Table: 1) Modern Teaching Method

Modern Teaching Method	Mean	Std. Deviation	Weighted score	Rank order
Teacher's roles as a facilitator	4	0.286	200	1
Teachers encourage students to generate their own tasks	3.98	0.654	199	2
Modern teaching plays an important role in the learning process	3.78	1.036	189	3
Students easily access the learning material in short time	3.68	0.819	184	4
Modern teaching provides flexible learning	3.67	1.077	185	5
Provide information's to students in variety of formats	3.66	1.099	183	6
The learn Most of the learning process takes place in group or by the individual students learning takes place with no fixed location	3.6	1.212	182	7

Findings of Modern Teaching Methods

Majority of the respondents (4.00) were agreed that the teacher role as a facilitator was prominent as indicated by majority of the respondents (with mean value 4.00). Most of the respondents (3.98) were agreed that teachers encourage the students to generate their on tasks was prominent as indicated by majority of the respondents (with mean value 3.98). Most of the respondents (3.87) were agreed that the modern technology play an important role in the learning process was prominent as indicated by majority of the respondents (with mean value 3.87). Most of the respondents (3.68) were agreed that students access the learning metrical in short time was prominent as indicated by majority of the respondents (with mean value 3.87). Most of the respondents (3.66) were that provide the information's in variety of formats was prominent as indicated by majority of the respondents (with mean value 3.66). Most of the respondents (3.60) were that the learn most of the learning process takes place in group or by the individual students learning takes place with no fixed location was prominent as indicated by majority of the respondents (with mean value 3.60).

Table: 2) Effective Teaching Strategies of Modern Teaching

Effective Teaching Strategies	Mean	Std. Deviation	Weighted score	Rank order
Learn from students	4	0.639	200	1
Work together as a Team work	3.96	0.533	198	2
Welcome new ideas	3.92	0.724	196	3
Clarify goals and available intellectual challenges	3.9	0.463	195	4
Build interest	3.8	0.969	190	5
Independence, control and active engagement	3.76	0.916	188	6
Appropriate assessment and feedback	3.42	0.906	171	7

Majority of the respondents were agreed that good teacher got learning from the students. Teacher provides the students plethora of information, but they also learn from students with new ideas. Most respondents (4.00) were agreed that teacher learn from students was prominent as indicated by majority of the respondents (with mean value 4.00). Most respondents (3.96) were agreed that both teacher and students worked together as a team work was prominent as indicated by majority of the respondents (with mean value 3.96). The

majority of the respondents (3.92) were agreed that teacher should be motivated and encouraged the students to participate in the classroom was prominent as indicated by majority of the respondents (with mean value 3.92).The majority of the respondents (3.90) were agreed that clarify the goals and available intellectual challenges were prominent as indicated by majority of the respondents (with mean value 3.90).Most of the respondents (3.80) were agreed that it's very compulsory for a teacher to teach in co-operative environment was prominent as indicated by majority of the respondents (with mean value 3.80).

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