

UTILITY OF E-LEARNING AS AN INNOVATION IN TEACHER EDUCATION

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Abstract

In the present study, an attempt has been made to understand the presentation of e-learning and its effectiveness for trainee students by the use of information and communication techniques in teacher-education conducted in the present scenario. At present, scientific and technical resources are being presented as an essential part of the education process for the globalization and universalization of education. That is why the need for successful operation of communication techniques for teachers is also being felt. The utility of e-learning in teacher education is related to the presentation of the systematic process presented by the subject expert in the context of teaching skills in a systematic manner.

Innovation is a new idea, a new behavior i.e. to make education simple, useful, practical, interesting, creative, functional and relevant. In the modern era, there is a need for innovation in the education system for the multifaceted and all-round development of children, only then positive development, moral values and development of ideals is possible in children. Innovation in the education system depends on the teachers. Teachers can make children aware of their skills and talents by making changes in new teaching methods and method of teaching through innovation. The traditional education system can be changed according to the present environment by the use of innovation in teacher education.

Keywords: E-learning, skills, Teacher Education, Innovation, Development, Moral Values.

Introduction

Teaching is science and art. Science refers to the systematic and empirical presentation of information, which satisfies the students regarding their curiosities. At present, due to the increase in population, the number of students is increasing. There is a shortage of trained teachers relative to the number of students in the Indian environment. Mseleku, Z. (2020). Therefore, in the present environment, with the help of information communication media, the work of educating more number of students simultaneously is being done by the teacher. At present, in government, non-government and semi-government schools, along with formal education, e-learning modules are also being made available in CD or DVD. That is why in the present teacher education, teachers are trained for the successful use of information and communication techniques and for the creation of e-learning materials. At present, teacher-education programs are being run by distance education and open universities on the lack of institutions of teacher education. Pavel, A. P., Fruth, A., & Neacsu, M. N. (2015)

Innovation is made up of two words Nav and Ethics. Nav means new and ethics means change. Thus innovation is the change which infuses newness in the methods and materials etc. Under innovation, something new and useful is adopted. Change in every object or action is the law of nature and only through change the stages of development proceed. Education is a powerful instrument of social change as well as the axis of economic development of the nation and the world. Njenga, J. K., & Fourie, L. C. H. (2010). Children are the main element of nation building and the teacher is an important medium for making them a responsible citizen of family, society and nation. The more active, effective, resourceful, committed and efficient the teacher is, the more effective and useful the education will be. Keeping this in mind and on the basis of the recommendations of Yashpal Committee, priority has been given to the innovation of teachers. Innovation in teacher education has been used to improve the present educational conditions. Chhabra, P. (2012).

Definitions of E-learning

According to Team Kelly and Sisko- “E- Learning and training are imparted through learning with the help of communication of information. The activities of training, learning and training processes of the student are not mentioned. The knowledge and skills are best imparted according to the needs of the student. ,

According to Brandol Hall – “When instruction is communicated partly or wholly with the help of means of electrical equipment and also through website and internet or multiple media CD ROM, DVD, etc. then it is called e-learning.

Brandon Hall argues that “Technology promotes e-learning. e. Learning was identified from web site and internet. The visual environment is empowered by the web site. The web site creates an environment for e-learning. ,

According to the Learnin Circus- “The application and process of e-learning has a wide scope; Such as web-based learning, computer-based learning and real classroom teaching are included. The content should be communicated through these mediums and internet should be used. Video and audio tapes, television broadcasts, CD ROMs are used in satellite broadcasting.

According to Rosenberg – “E- Internet system is used in learning; Internet technology is used to communicate the content through which knowledge is increased and the performance of the students increases.

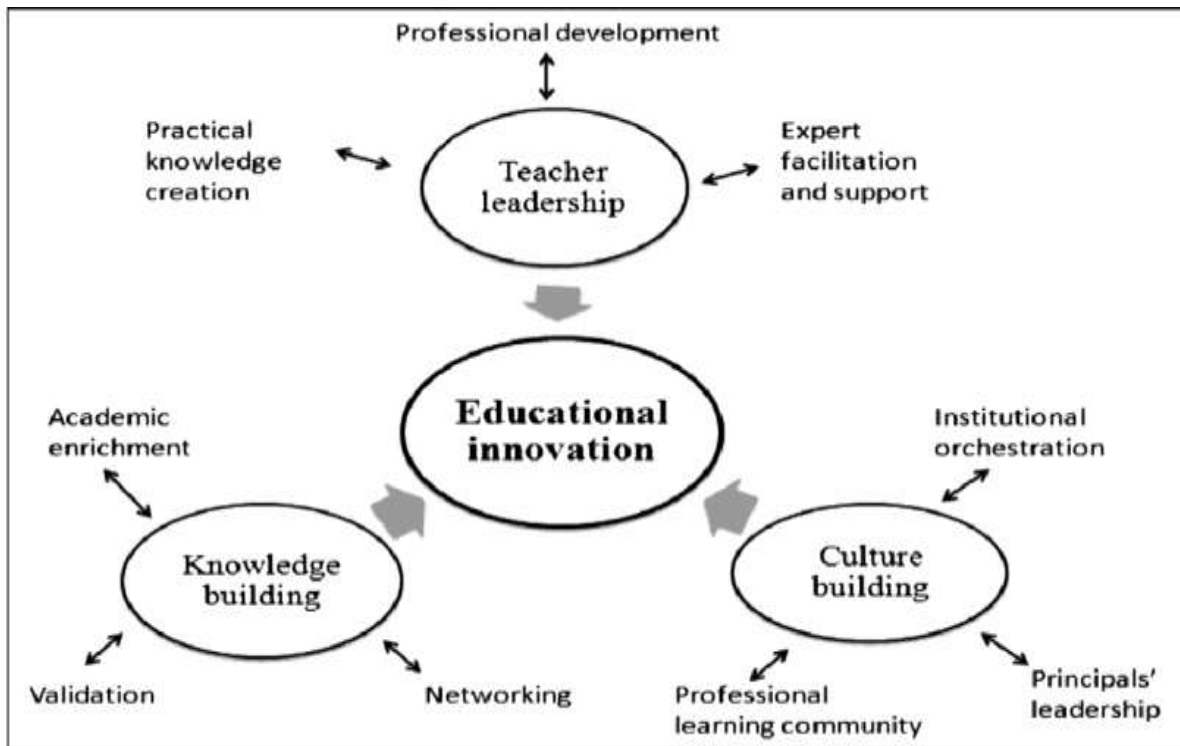
The main features of e-learning are-

- In this type of learning, students are given the opportunity to learn at their own pace. It can also be called self-study.
- This learning is self-directed. The student chooses the course according to his needs. The medium of learning is also selected according to its own needs.
- Multimedia is used in learning. Various types of communication and broadcasting techniques are used.
- Learning is student centered.
- Geographical barriers are resolved in e. learning and there is also a provision of open education.
- More number of students are involved in learning, the number of students in the class is more.

Innovation in Teacher education

Revitalization and strengthening of the teacher system is a powerful tool for the upliftment and sustainable development of educational standards in our country. There are several issues which require immediate attention to improve the quality of teacher education programme. In the situation of competition and development, a nation needs innovative changes in teaching, integrated learning, teaching curriculum and teacher education program for development. Babu, G. S., & Sridevi, K. (2018). To strengthen education, first of all, teachers need to be proficient in new knowledge, skills, competencies, teaching methods, techniques, knowledge of research and innovation and their practical application. Teachers need to expose themselves to new ways of bonding with students in new educational situations. Today is the time of video, internet, broadcast. Children can easily learn through this interactive media. So teachers have to keep themselves abreast with the current technology. Learning is continuous and there is continuous development. A qualified teacher makes the curriculum interesting and understandable through self-discovery. Bhatia, R. P. (2011). Teacher education is not limited to textbooks only, but to give such instructions to the learner so that they can receive information and use it according to their necessary tasks. By adopting innovation in teacher education, not only the curriculum is being fulfilled, but continuous efforts are being made to achieve future prospects and success in the competition. Teachers create and use such an effective learning environment through innovation in which there is an opportunity to learn through practice and practice and receive direct experiences. Taso, K., & Chakrabarty, A. (2020).

Concept of Educational Innovation

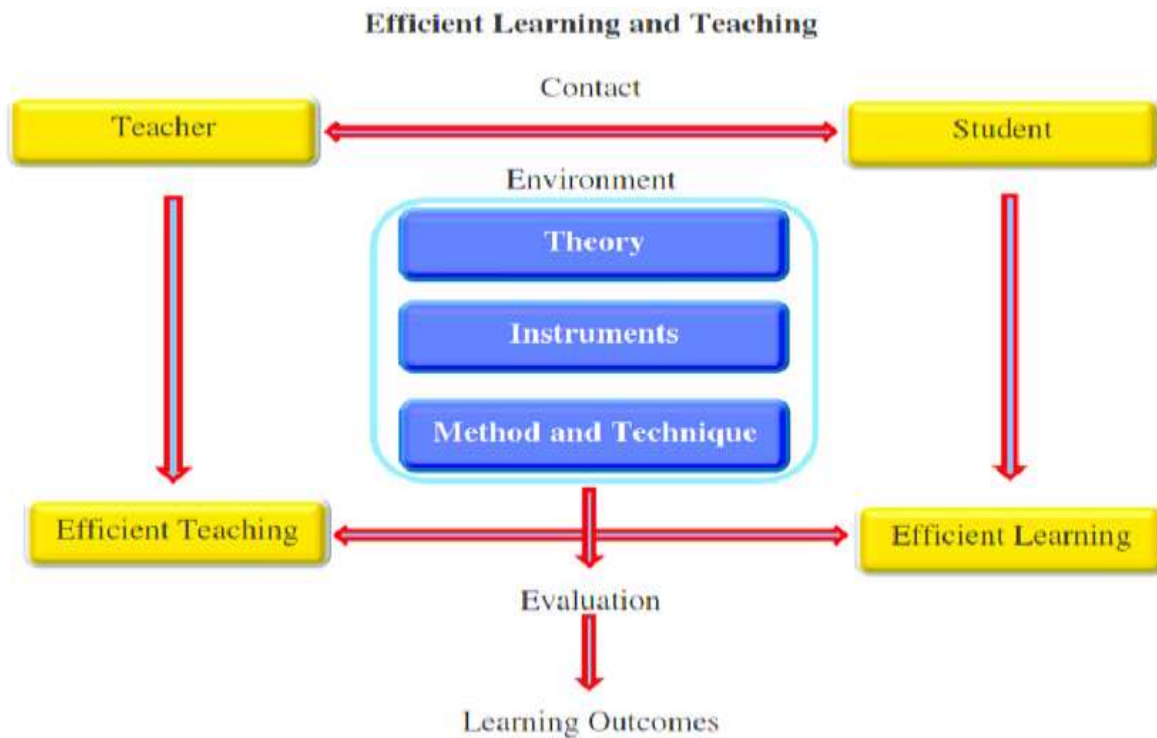


Source: <https://www.researchgate.net/>

The task of educational innovation is to achieve maximum achievement of human and non-human resources by spending as little money and labor as possible to achieve the objectives of education. Therefore, the work of management will also be called an educational function. Sivalingam, D., Balachandar, R., & Ajith, P. (2018). When he makes arrangements for the education of the whole school, then he must also have some responsibility to introduce educational innovations in the school. Here some responsibility of management has been said because the theoretical side of educational innovations comes in the domain of teachers and educationists, but management has a substantial contribution in implementing and popularizing them in the school. Mishra, S. (2009).

Managers have a special role in finding answers to many questions related to whether to implement any educational innovation in the school, or not, if it is to be done, to what extent and how to implement, etc. It is true that a lot of the responsibility of this work rests on the principal and teachers, but if they have the cooperation and support of the management system with them, then it is very good in terms of educational upgradation. Butola, L. K. (2021). Sometimes some political, social and economic difficulties come such that due to which the management does not take interest or hesitate to introduce them in the school, due to which problems arise in front of the teachers as well. In such a situation, the management, principal and teachers should come together to find a suitable solution. As far as possible, such efforts should be made so that schools are not deprived of educational innovations.

Scope of Educational Innovation



Source: <https://www.researchgate.net>

The scope of educational innovations is very wide. Objective of education Curriculum, method of teaching, evaluation, teaching-training, education-administration etc. are all areas of educational innovation. Here we are mentioning how innovations are affecting different parts of education-

(1) Objectives of education - The objectives of education have changed according to the country, time and circumstances. In the modern era, due to the spread of scientific knowledge, industrial development and modernization in India, the ancient beliefs, values and traditions have changed. Economic development should be the main aim of Indian education in the modern era. Today the need of the country is production oriented. The aim of education is also to promote national integration and national consciousness. The purpose of education is to create a feeling of universal harmony, to protect international harmony and democratic values, and to promote social development and spread scientific knowledge. These new ideas have been included under Indian education and these objectives can be termed as educational innovation or change.

(2) Curriculum- The traditional curriculum prevailing at different levels of education in India is not compatible with the changing social requirements. In today's era there is a need for student centric curriculum, curriculum based on life circumstances and integrated courses. Efforts are being made to incorporate new, useful and right content in the curriculum through educational innovation. As a result of innovations, emphasis is being laid on the subject matter of science, technology and technology in the curriculum of education. Along with this, new subjects like vocational subjects, environmental education, population-education, consumer education, energy-education and education of socially useful production works etc. have been accepted as educational innovation.

(3) Teaching Methods - Just as innovations have been included in the objectives and curriculum of education, in the same way, traditional teaching methods have started to look untimely and boring in the teaching methods, as a result, many new methods are being used in the field of teaching. . The main ones are teaching technology, instructional technology and behavioral technology.

Teaching technology provides scientific basis by objectively analyzing the process of teaching. All those methods and techniques are used under instructional technology, with the help of which the learning objectives can be achieved. Efforts are made to improve, modify and change the teaching behavior especially in behavioral technology.

Simulated teaching, micro-teaching and audio-visual materials are used along with the above mentioned techniques. All these teaching methods come in the field of educational innovation.

(4) Evaluation- The word "evaluation" is being used in the modern era in place of the pre-existing word "examination". This is the product of educational innovation itself. The meaning of evaluation is to find out the purpose of education, the usefulness of the curriculum and methods of teaching, etc., and to know its results. The examination system prevalent in India in the modern era lacks credibility and validity, as a result attempts have been made to develop a reliable and valid method of evaluation to improve examinations.

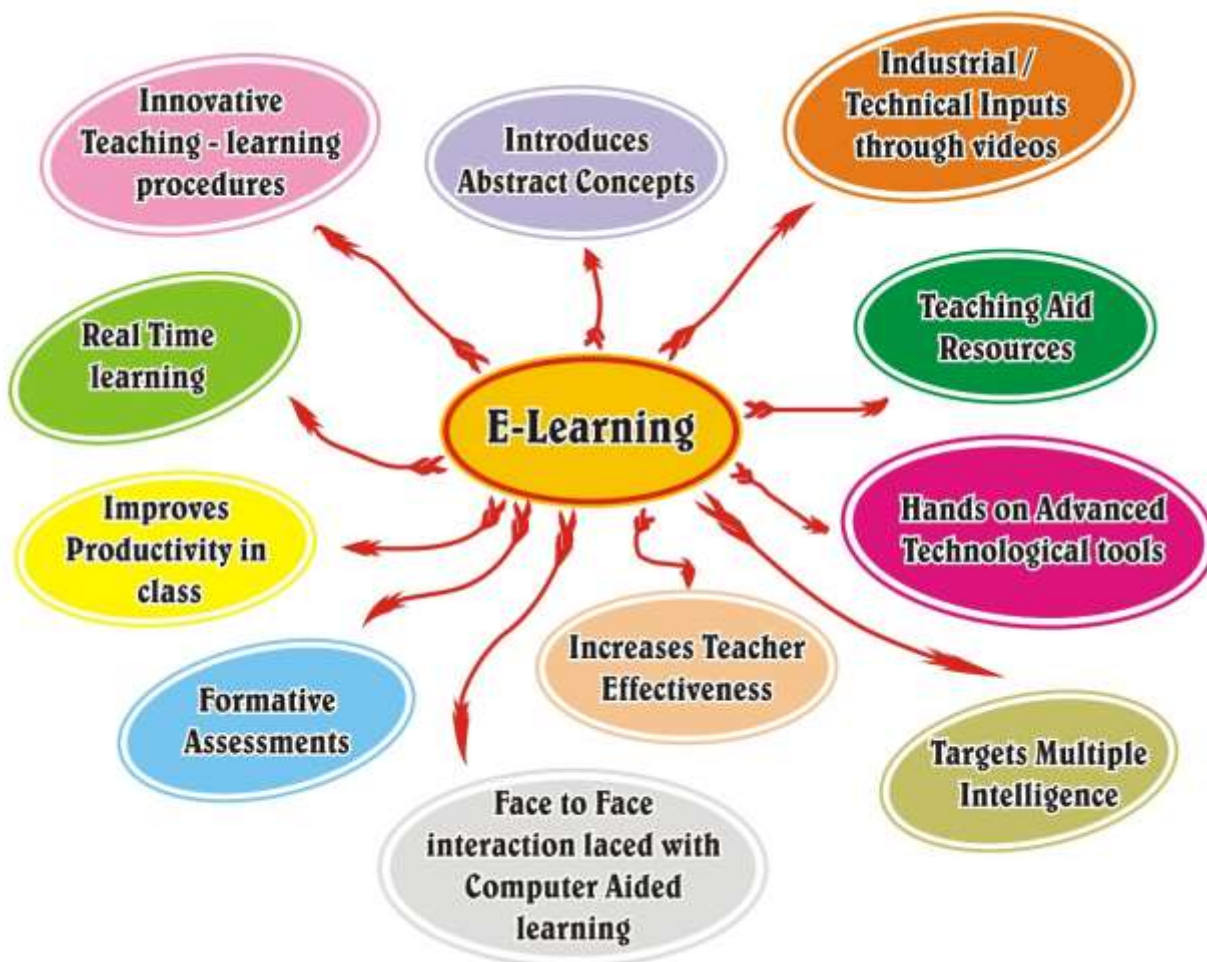
In fact assessment is an educational innovation. In this, new methods have been included. For example, discouraging the method of rote by eliminating the subjective or chance portion from examinations, internal assessment, introduction of semester system in evaluation, grading system in place of marks, etc. are all due to educational innovations.

(5) Discipline - Discipline and independence are also the result of educational innovation. Due to the development of psychological attitude in education, repressive discipline has been abolished. According to modern ideology, there is a very close relationship between freedom and discipline. Disciplinary innovations are emphasizing on remedial discipline, social discipline and individual discipline as well as creative discipline and remedial discipline. Along with discipline, adequate freedom is being provided to the students. In this way, educational innovations play an important role in developing an environment of self-discipline.

(6) Training- Innovations have also emerged in the field of teaching-training and new methods of training are being adopted. Training through correspondence, training through distance education, in-service training etc. innovations have been started in the field of education. Along with this, innovative and short intensive courses have also been started for school teachers.

It is thus clear that the entire education system comes under the domain of educational innovations. In the modern era, no part of education has remained untouched by innovations.

Use of E-learning in Teacher Education:-



Source: <https://rvcreativeeducation.wordpress.com/>

E-learning learning material has special importance in teacher education. At present the number of untrained teachers is high all over India. For the training of teachers, distance teacher education program is being conducted by National Institute of Open School, Uttar Pradesh Rajarshi Tandon Open University, Allahabad in Uttar Pradesh, under which working teachers are being linked with teacher education program. Curriculum related to teacher-education is being developed in the form of e-learning module and made available to the trainee teachers, so that the trainee teachers can become familiar with the objectives, principles and models of teacher-education and in future these will be used in classroom situations. Use information and skills systematically. Singh, G., Bhatnagar, V., Gupta, R., & Kumar, G. (2020).

E-learning in education is an essential aspect of today's world. E-learning is defined as academic interaction which is conducted through online medium. E-learning is also known by other names like online learning, computerized learning, distance learning etc.

The central aspect of e-learning services is education beyond the confines of the classroom. E-learning helps students to gather knowledge and participate in live sessions from anywhere. Teachers and professors conduct live classes or show pre-recorded lectures. In the e-learning management system, live interactive classes are conducted where teachers grade students' participation in the classroom and subsequent online assignments. Agariya, A. K., & Singh, D. (2012).

Benefits of E-learning

There are innumerable benefits of e-learning. E-learning solutions are a boon for enthusiasts of flexible educational programs. Hence, online courses are gaining prominence in the present era. Flexible timing is one of the essential features of e-learning. Moreover, students do not have to worry about vehicle expenses, living and food bills, service charges etc. Fatma, S. F. (2013).

The advantages and disadvantages of e-learning services are evident from the fact that this form of education saves time, energy and money. In e-learning, the recorded lectures can be revised as many times as necessary. The solution to the problems can also be achieved almost instantly by contacting the trainer through the LMS platform. Repetition of study material helps in better retention of information. It is observed that the retention level is higher in online learning as compared to traditional classroom teaching. Behera, S. K. (2013).

The important benefits of e-learning services are listed below, check them out to have a deeper understanding about its benefits:

- **Accessibility:** The Internet has broadened the horizons to a great extent. Students can ensure their educational development without having to worry about going to another country to attend a course. Through e-learning, people can take advantage of the course from anywhere. Physical presence is no longer a hindrance in attending exciting classes as e-learning allows everyone to participate in educational programs without physically visiting an institution.
- **Mobility:** Online courses are designed to ensure that people can learn and work together. Young learners prefer a customized routine where they can learn and do many other activities. Online learning helps in providing the much needed dynamism to the present generation to design their learning programme. Therefore, students can work or learn new skills while completing an academic degree/diploma.
- **Resource Scalability:** The resources required to conduct the course in the traditional setup are substantial. An instructor can communicate with the selected number of participants in the classroom setup. However, with e-learning, a learned instructor can reach all interested students practically without a classroom.

Conclusion

At present, e-learning learning material is being used extensively for teacher-education in the training of teacher-education at every level from primary education to higher education. Trainees are getting opportunity to learn at their own pace and requirement. E-learning is very important and beneficial nowadays. Innovation is essential to keep the educational system and methodology alive. In its absence there can be a wide gap between educational goals and process. Their use is helpful in fulfilling the expectations of the present as well as the future. Through innovation in teacher education, student teachers will be able to use community participation, innovative teaching, technology, education in sports, simple English learning, children's parliament, all round development through art craft, concept mapping, education through painting etc. in their future life. . Innovation leads to qualitative upgradation in education, education gets direction, which paves the way for progress of individual, society and nation. That is, the importance of innovation in teacher education is accepted from the social, economic, political, cultural, scientific and educational point of view.

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