



Quality Assurance and its Impacts on Higher Education Institutions in India Experimental Education

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Abstract

The overview of this article is all about the improvements and advancements in the field of education with respect to Technology and Experimental Education. Technology has been constantly changing every minute. The educational institutions have been constantly using the technological methods to improvise the education system. Effects can be seen in better teaching-learning experiences in many institutions.

Teach-next, Edu comp and many more smart teaching facilities have been provided in most of the schools and colleges to improvise learning process.

To match the pace of foreign education, the usage of technology has increased. The new concept of Experimental Education has been more effective in learning and teaching process. The practical knowledge imparted to the students by the faculties has been more interesting for the students. Experiencing the knowledge given by the teachers by experimenting in their regular activities has been very much beneficial to the students. On the other hand the usage of technology is somewhere getting successful in grabbing the attention of the students in different tracks.

In this article the efforts have been put to recognize the effect of experimental learning. This development can be resulted well when the skilled faculty members irrespective of gender with any discipline show their ability to assist students in their learning process. Also in guiding the students about their multifaceted responsibilities to the society. By this way we can provide the quality education and good learning of life lessons to the students.

The effect of practical learning in the young age makes the future generation, confident enough to face the challenges and reach the goal. The article highlights different views on the title and stands perfect to understand the responsibility of the members of the society.

Keywords: Importance of Practical Education, Teaching-Learning techniques, Role of teachers and students. Modern learning process.

Introduction

Education is very important for everyone. Learning process starts from childhood. Mother starts teaching her child in every step of his/her life. Education plays a great role in our growth. Education makes one a civilized person. To go according to the pace of the world, one needs to be educated. As the world is progressing very fast, the growth of an individual is also very important. Development in the field of technology has been tremendous in the recent years. The present era generation has to be very cautious about the growth of the world. George S. Morrison. 2004. Early Childhood Education Today, Ninth Edition, by Copyright © 2004 Pearson Education, Inc. Published by Merrill Prentice Hall, an imprint of Pearson Education, Inc.

The topic of this article is “Experimental Learning” which throws light on the importance and benefits of the learning process of a student through experiences in life.

Experimental learning can be is the process of learning something through creative activities. This is a way of learning by experience. By giving an opportunity to the students to experience the different situations and understand the real-world problems. By this, they will be able to figure out the connection between the theories and knowledge. The hands-on experiences make students understand better than the theoretical way of learning. Kolb, A.Y. and Kolb D.A., 2006. Learning styles and learning spaces: A review of the multidisciplinary application of experiential learning theory in higher education. In R.Sims and S,Sims., (eds)., Learning Styles and Learning: A Key to meeting the accountability demands in Education. Hauppauge. NY Publishers.

Students get varieties of opportunities to learn. It can be through learning courses and non-course forms. Keeping themselves active in their academics, cultural activities, and sports the students enjoy and learn so much. Experimental learning also includes community services, internship experience, and undergraduate research programs.

The experimental education system provides the students an opportunity to participate and earn the benefits from a proper understanding of their course material. They develop self-confidence and leadership skills. They get appreciation from the people around them. They get an opportunity to see the world from a different view. Get a chance to communicate with different organizations and gain more practical knowledge. Start thinking positively. Learn to handle situations efficiently. **(Introduction to Physical Education, Exercise Science, and Sport Studies. 2010[8 ed.] 007352378X, 9780073523781).**

Experiences in life help the learner to take initiative, make decisions and be responsible for results. Throughout the experiential learning process, the learner is actively engaged in asking questions, investigating for the reasons, experimenting through practical acts, being curious, using problems solving techniques, understanding responsibility, being creative in thinking, and constructing meaning. There are several learners engaged intellectually, emotionally, socially, soulfully and or physically. Thus the learning task can be made authentic by the

perceptive involvement of the student. Relationships of the learner to self, learner to others, and learner to the world at large are developed and nurtured.

1. The educator and the learner may experience so many uncertainties and successful moments. The adventure, the result of risk taking tasks have uncertain and mixed results because they cannot be predicted perfectly. By getting the opportunity and exploring the learners and the educators get to know the values. The educators have to set boundaries of suitable problems and let the students experience the hard and fast rules to reach the goal. Primarily creating an environment for the learners to examine the opportunities of life is essential for the educator. By supporting the learners physically and emotionally, the educators can bring in confidence in them. The educators should see that the learners would learn from several natural consequences, lot many mistakes, and successes, Frolich L. 2010. Sustainability Education. Journal of Journal of Sustainability May 2010 Inaugural Edition.

What is Experiential Education?

Experience is really a great teacher for a prospective learner. In most of the schools and colleges we observe that the students spend hours together in taking notes from the faculties. Feeding their heads with complex ideas, they keep struggling to understand and memorize whatever they have learnt. Attending the lectures and reading the books will definitely not complete the learning process. The students have to learn effectively by exploring the content in the theory they have read. When the students are allowed to engage themselves in experimenting activities, they learn more things. Attending the labs, performing field activities and engaging in field activities will give them much more experience. **Dr. Rajiv Desai. 2016. Education.** <https://drrajivdasaimd.com/2016/02/28/education/>

We Can See Many Benefits of Experimental Learning to the Students as Follows

There is a lot of motivation for the students which engages them in the learning process. They will be able to see the difference between academic theory and practice. It helps them to see the world in a wider way. They can decide their career goals. Experimental learning increases understanding and perceptions in the workplace. Encourages to decide the goal. Enhances professional networks for the students, helps them understand the work and its expectations. Provides them the opportunity to gain more of career-related experiences. The students clarify themselves with the employment and career goals. Builds leadership qualities in them and fills in the confidence in them. Students gain technical and professional skills. Increased maturity towards the society and themselves makes them confident and teaches them self-management.

The Faculty and the Institutions Enjoy the Benefits of Experimental Learning in a Different Way

Students with the higher learning standards are attracted. The links between the business organizations, different communities government and the institutions will develop. Effective

marketing and recruitment tools enhance the reputation of the institution. They align with the priorities of the government and employment community. By increasing the number of employed graduates from an institution, increases the employment rate of the institution. The alumni become the community partners for the institutions. The partnership opportunities for the institutions increase along with the financial supporters. Helps the faculty members to keep their knowledge updated. At the same time provides them an opportunity to evaluate and improve the curriculum. Increases the satisfaction level of the educators.

As Given Below we Can see the Benefits to the Employer and Community in a Different Way

Experimental learning brings enthusiasm through diversity and energy in the different levels of the organization. Helps to develop proper collaboration with the universities. Gives an opportunity to create a challenging profile. The organizations get support and guidance to find proper solutions for the different programs. Brings them an opportunity to search prospective employees to understand the need of the service.

There are several experimental education opportunities with different effective programs for the benefit of the organization. They result in positive outcomes for the organization. Through different experimental techniques of teaching and learning many more benefits are seen by the educators. Different applications and upgraded methodologies have profited the organizations. Unique challenges help the learners to realize what they have already learnt and what new thing they can learn. This learning helps them to go deeper into the subject matter and understand the design of it. Shivkumar, A., Shahana Shana and P. Vadivel. 2021. The opportunities of uncertainties flexibility and adaptation needed in current climate volume i (social science and ICT). Lulu publications. The usage of the practical learning helps students to implement their training in their actual work stage.

The success of an individual is evaluated on the bases of the valuable outputs and his/her educational progress and experience. When we consider to structure the experimental opportunities within the post secondary program, like training a counselor, financial advisor, nurse or any hygienist, we need to think about the practical effects on clients with a supervision of an experienced person. This is required to check what went well, what has to be improved in the workplace.

Some questions should be asked by us that how would it be beneficial to gain knowledge only through formal education when we want to build up our career as an Engineer, an architect or a designer when we don't have any practical projects to learn. We can also so think deeply regarding once vision to be a librarian or a teacher without experiencing the teaching in the class room and reading in the library. We can say that it is not an easy task to get confidence in our profession unless we have a practical experience. The theory and practical experience should go hand in hand to gain experience.

In many colleges and universities programs are not yet being included with the prescribed professions. Real world experiences which have a great impact on the students are not included in the learning process. The education institutions and the universities have to

understand the passion of the students, the kind of working environment they want and the activities in which they want to involve themselves. Supporting their interests and tastes would energize them. Based on the interests of the undergraduates, if opportunities are given to explore and try working in and for different field would definitely help them to know each and every aspect of the learning. Encouragement for the learners to choose their line of interest will take them to the high level of satisfaction. Undergraduate and Post graduate programs should show the learners different fields to experiment and achieve.

Experiential learning supports the students to apply their theoretical knowledge in the understanding of the practical problems and situations. Experimental learning provides the students an opportunity to understand their areas of strength and weakness. It also helps them to know their areas of interest and passion. The direct experience obtained by the experimental learning benefits and gets reflected on the learners. The students, educators and employers value the experiential education since it connects them to real life experiences. With the implementation of new elements and innovations in the classroom the learning and teaching have become more effective. This inspires both students and teachers to proceed in their actions.

Higher education is basically designed for the overall development of the students. Skill development, habitual improvement, proper direction of life brings confidence to them. Being literates the students can cultivate critical thinking capacity, problem solving techniques etc. communication skill creativity and innovative thinking are the advantages of higher education. Advanced education helps to develop confidence level of the learners. Encourage the youngsters to move ahead accepting challenges of life. They become responsible in life and take up their role effectively. Higher education aims at preparing the learners for a successful workplace. After the completion of the graduation level the learners gain the ability to think about the economic and social growth of the country. Transition is seen in the personality of the students after they finish post-graduation level. At this stage they will be able to understand their ability to chase the world and being succeeded.

Colleges and universities are organizing different forms of experiential education in the curriculum of the students. The focus of the colleges and the universities is to create a strong connection between experimental learning and opportunity. Some of the universities have worked out to find out the efforts of the educators and students in learning process. They have come across several statistics of the improved result by practical learning. The students guided by many educators have found their destiny very easily. The efficiency of their working structure has given positive result.

Few colleges prefer off campus learning process for the development of the students. Some universities encourage the students to go abroad and seek proper education with standard training. Many institutions have provided such a high class learning opportunities by which the students and the organization both are successful. Many training programs are conducted to bring employment opportunities to the students. In one of the universities the students put their efforts to take up the programs of the university and gain skills of employment. There is an information about a university which collaborates both undergraduates and post-graduates to create a proper connection between them. Which brings a better understanding between

them to study several programs and search proper employment opportunities. This helps the students to know their group responsibilities and aims. It gives them authentic experience to operate a profitable business.

There are several methods in cultivating citizenship with career skill among the students through experimental education. More field works and practical situation helps the students to learn very effectively. It can also be understood that experimental education is a philosophical approach of practical education. Field works and internship both help the students of different undergraduate levels. The institutions can avail such programs and guide the students for their career. It needs a different level of teaching and assessment of students learning. This will definitely give a suitable result to both learners and the teachers.

By using the methodology of Experimental education the teachers constantly engage the students to experience in hand. By this they help the students to gain knowledge, increase interest in their works, develop their talents and skills and understand the values. We can see the learning process through action which in turn gives effective experience. At the same time it gives an interest to discover and explore new things in work and world.

As some educationists say that many teachers follow the traditional way of lecturing the students whatever is there in the text because they have the experience of learning in the same way. In modern era sometimes it becomes monotonous for the students. So the educators also have to think about the different ways to execute their job of imparting knowledge. There must be active participation of the teachers too in this regard. They should involve discussion process in the class. Sometimes group work and studies will also help. Project works to be completed by the students in a group would help them to involve and have more and more opportunities to discuss with their peers.

Experimental learning has become a part of the college education since long time. According to several psychologists experimental education focuses on the problem solving techniques and rational thinking. After a lot of study on this part, many have given theories on experimental education and they are even followed by many institutions. Some scholars say that experimental learning is a significant one rather than a boring way of theoretical learning.

Principles of Experiential Learning

In the traditional way of learning the classrooms are being set with a common structure of rules and regulations. Also with a fixed pattern of learning. Here the students will have to compete with each other to be a successful person. They may involve or may not involve in the process of learning. But in the approach of experimental learning they don't find any completion but pure experience of learning. They get an opportunity to learn the real world problems and try to engage themselves in solving them with the guidance of the faculty members. Their focus is seen on the process of learning not being the out of the education. Through experimental learning students get more motivated to learn the content rather than reading a text and trying to visualize the content. They try to apply their ideas and enhance the experience.

Experimental Learning Follows Some Principles as given below:

- Using critical analysis to understand the reasons and results
- Helping the students to take active participation in decision making with their practical knowledge.
- Students engage in posing questions to understand the problems clearly.
- Experimenting the tasks and being curious to know different level of solutions.
- Being a creative person they try to be constructive.
- The intellectual, social and physical involvement of the student helps in connecting to the source of the problem to get the result.
- The learning outcome will be helpful for future experiences.
- Personal relationships are developed between students and also between the students and the society.
- Both the students and the teachers may get an opportunity to experience the success and the failure together.
- Unpredicted outcomes of adventure, tasks with lot of risk may give them an great experience.
- Opportunities in life help them recognize their abilities and values.
- The instructor's primary roles can be setting a suitable experiences for the students by posing problems.
- Another role can be to support the students by setting boundaries, by insuring physical and emotional safety.
- The instructor recognizes and encourages unexpected opportunities of life for learning.
- The actual design of the learning experience is to help the students learn from natural consequences and mistakes to reach successes.

The Process of Experiential Learning

With the help of different stages of experimental learning the students can collaborate the theoretical and practical learning. Skillful knowledge is gained by the students. Of course it is important for the students to learn the theory part of education at the same time the need to gain the practical knowledge too. The practical learning for the students has more effect to build their strong future. The ability to reach out to the help for their friends make them more confident. The developed communication skills help the students to learn more from their life.

Doing activities with or without the help of the instructors or the friends give the students many different experiences. It may be related to any scientific models, or finding out a solution for a mathematical problem, or any literary work or any kind of games. In each one of the above cases the experience gained by the students is qualitative. Which remains with them in their minds for ever. They learn to share their ideas with friends and teachers. They inspire their peers to join them actively for different reasons. They open up with each others to get the reactions which helps them for further development. The outcome of discussion and sharing attitude gives them good experience in life.

Discussing the analytical experiences gives a kind of enjoyment to the students. They can relate themselves to many different future learning activities and experiences. They share their experiences during their experiments. The way they sorted out the problems, the hindrances they observed etc. They share their experience in dealing with the problems and issues. They also share the efforts they had to put in to get out of the same. The way they were able to connect the experience with actual examples.

The students will be able to compare their past experiences to present day situation. They try to apply the same experience to similar conditions. They show boldness in discussing the new learned things could be applied for different situation. The younger generation should be guided to face the challenges. Rather directing them to do what is needed if they are encouraged to accept the challenges and show their ability to overcome the same. Here the instructors should be helpful to the students. With the proper guidance they also have to keep observing the students.

The Role of the Instructor in Experiential Learning is Very Important

The guidance from the instructors encourages the students actively participate in the task given.

1. The teacher must be ready to accept the truth that the class room is less teacher-centric, which means the students should be given an opportunity to speak wherever necessary.
2. They shouldn't be dominating in the class and show a positive approach toward the students and the learning process.
3. Teachers should identify in what way they can see the students getting interested in learning and be personally committed.
4. Before give a practical experience explain and give a clear picture and the purpose of the experiential learning situation to the students.
5. Make it sure for the students that as they are experiencing through practical learning even you are experiencing.
6. Let the students understand the importance of theory before they go for the practical learning.
7. The teachers should provide the resources which are relevant and meaningful which would help them to proceed in practical learning.
8. Allow students to make experiments on their own and come up with solutions on their own.
9. Let the students know how to balance between their theoretical learning and experimental process.
10. Give the students the clear idea of the roles of the students and instructors.

Student Roles in Experiential Learning

Experimental learning helps the students to inculcate the qualities of deciding themselves to involve in the learning process and experience. They set their own directions to move forward in their learning process. Definitely with the in time guidelines of the instructors, the students will achieve their goal.

The following list gives the ideas of the roles of students in the experimental learning

1. Students will have to involve themselves in problems which are purely practical, social and personal.
2. Students will be allowed to move in the classroom without any restrictions so that they can utilize their time to discuss with the friends.
3. There must be challenging and difficult situations for the students to explore the result.
4. They should be trained to self-evaluate and learn their progress in the learning. That is the important step for them to experience.
5. They learn to accept changes in life. Indirectly they learn to believe in themselves rather than accepting the words of the instructors.

Integrating Experiential Learning in Teaching

The instructors have to identify the situation in which a challenge can be given to the students which they can solve through many stages like cooperation between each other and self-discovery. They also have to see that the students gain from the learning experience. There are few points we can consider when the instructor wants to integrate the experimental teaching.

They are proper planning, required preparations, facilities and the capacity of evaluating.

Proper planning

There must be proper plan to see what the students have to learn theoretically and practically. Should the students be involved in reading or research work during their experimental learning. How much time should they take or they require for this purpose. How to make the students understand the task then proceed. Whether to assess the student by small tests or giving some big tasks. To do this whether the students should be grouped or allowed to work independently. These all should be planned by the instructor.

Required Preparation

To execute the plans made the instructor should collaborate whatever he/she requires. Planning gives the foundation for the action. The instructor has to prepare the students mentally and physically for the task. Organize the tools required for the tasks. Exact idea of the task should be explained to the students. Should see that there is no chance of doubt in the minds of the students.

Facilitate

Facilitating is not just showing the directions to the students and providing answers in hand. It is much more than that. The instructor has provide the knowledge to achieve the answer. Guide the students to work for gaining knowledge through experience. Teach them the process to find the solution for the questions.

Evaluation

Evaluating is the stage where the ability of the student is judged on the basis of their performance. Before they are evaluate by the academicians the students can do it themselves. By sharing experiences during the process the students can let their friends and the instructors know about them. Explaining the steps used to complete a particular task, the students can make sure for the others that they are practically involving themselves. This will help to evaluate their standard of learning. The instructors should make the strategies to evaluate the ability of the students.

Experiential Learning Opportunities in Higher Education

We can find many number of experiential learning opportunities in higher education that can be found in most disciplines. Provide an opportunity for the students to get trained by the mentors to become professionals. Apprenticeship kind of work or job training would help students fix their goals. They can understand what goes good with their interest.

Train the students to participate in care taking activities. By which they learn what is the duty of a care taker towards a patient. Basic needs of a person who stands beside the ill or sick person. It helps them to think about the need of services to the society, family friends etc.

Working on a joint venture would help the students know the partners very well. They can compare their views with the others. Proper understanding can be built between them. Students may try to share their view and learn from others. The co-operative experience helps them to be good at team work. students will be able to receive co-operation from the companion or the partner. It is a structured base to meet the student's academic and career goals.

Providing tuition facilities or some fellowship facilities encourage the youngsters to learn and improve their knowledge. The education institutions should come forward to encourage the interested young hearts to pursue their education and be a role model to the society. The fellowships at the graduate and post graduate level keep the students high on their aim. It is like a milestone in the career of the students.

Experiences is the field Work allow students to explore new life of learning and apply content learned in the classroom. Their learning in a specified field through experience is far away from the classroom. We can see that the field work gives experiences and bridges educational experiences and connects with an outside community. The experience can be of any range from neighborhoods and schools to any other higher level of the society.

Students should be given an opportunity to learn job oriented courses which help them to gain basic knowledge before entering into the actual world of job or work. Internship is such a pattern which changes the mindset of the students about the job. The experience which makes the students is more valuable than the money they earn.

Students develop their competencies in working by the knowledge thy have gained from the classroom theoretical class experiences. This experience surely allows them to design their own project and apply their knowledge to develop. They will be able to make their own tools.

Growing with the society helps students to be a part of every aspect in the society. Experimental education helps them to mingle with the society and learn for very near. Working in a community and for the community teaches a very important lesson to the students.

Solving few issues of the of society like poverty eradication, helping the poor class people with quality education are service learning pattern. Working for the betterment of the homelessness citizens, controlling pollution in the environment etc are the examples of effective learning from society. By this the goal to learning through service helps students become aware of the issues around them. This brings a mutual understanding between the students and the community which in turn makes a strong society.

Teaching experiences with the guidelines of the teachers make the students more confident and aware. This inspires them with the personality of the teacher. As the students need to play an effective role as a teacher they will collect much more information from books, internet, library etc and put their utmost efforts to gain more knowledge. Student becoming a teacher is an amazing experience for the students. It will in turn helps them to understand the efforts of a teacher in their class. They become more practical which is actually needed.

Education abroad also gives a unique experience to the students. They come into contact with new people and get an opportunity to learn different culture. Studying in abroad is a challenge for the students as well as the host countries. Under the security of the host institution the education program gets completed smoothly. Learning in foreign language will give perfect accent and vocabulary to the students. Skillful training of life makes the students confident. New friends for life, travel programs to different places give exciting experience. Decision making ability is also a key element of abroad education.

Students should serve the society voluntarily so that they can understand what is needed to the society and what they can do. Some non profit organizations serve the society in team. Either in team or individually the younger generation should involve in social service.

Conclusion

Experimental learning is a well known way of educating the younger generation. The different stages different techniques involved highlight the importance of experience in learning. When the students move out of the classroom to the actual field to learn practically they experience a different level of understanding. They chose the line of study they want and make their career. The practical learning opens a door towards the new world for the students.

The theoretical education which is actually a monotonous experience, hinders the ability of the students to ask reasons and get the answer. These experiences help students to develop communication skills. As a result they gain self-confidence and strengthen decision-making skills. The students learn to respond to the world problems and solve efficiently. Every parent and the instructor who wants to see the younger generation successful in life should think about the necessity of experimental learning. Proper guidance is needed for the students in choosing their career.

In addition to all these there must be proper training in different fields of life for the students. This makes them more perfect in their career. Encouragement boosts up the energy of the students. The experimental learning is an unending process. It should and will keep continuously.

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