



Innovative teaching and learning in psychological teaching for education

M. Govindan, T. Regina*

Department of Educational Psychology, Tamilnadu Teachers Education University, Chennai – 97, Tamil Nadu, India

(Received: 21-03-2018; Accepted 18-08-2018; Published Online 21-04-2018)

*Corresponding author

Abstract

The traditional methods of teaching as well as multimedia teaching and to suggest other useful teaching methods that can be attempted in imparting knowledge to the students. Basically teaching must include two major components sending and receiving information. Ultimately, a teacher tries his best to impart knowledge as the way he understood it. So, any communication methods that serve this purpose without destroying the objective could be considered as innovative methods of teaching. The use of innovative methods in educational institutions has the potential not only to improve education, but also to empower people, strengthen governance and galvanize the effort to achieve the human development goal for the country.

Keywords: Teaching methods and learning, innovative tools, teachers, students, multimedia

Introduction

Education is a light that shows the mankind the right direction to surge. The purpose of education is not just making a student literate but adds rationale thinking, knowledgeably and self-sufficiency. When there is a willingness to change, there is hope for progress in any field. Creativity can be developed and innovation benefits both students and teachers.

Education is the foundation of our economy. What (and how) we learn in school determines who we become as individuals and our success throughout our lives. It informs how we solve problems, how we work with others, and how we look at the world around us. In today's innovation economy, education becomes even more important for developing the next generation of innovators and creative thinkers.

Definition

Innovation is defined as "the process of making changes to something established by introducing something new." It applies to "...radical or incremental changes to products, processes or services." There have been many changes in the way education is designed and delivered in parts of the world.

What Is Innovative Teaching?

- Innovative teaching is necessary for the present and future of education to help students to reach their full potential.
- Higher education should serve the long term intellectual needs of the student, for example,
- Whether providing new material by teachers helped the student to gain new insights or opened up new channels of intellectual stimulation or enhanced student's essential and creative thinking power?
- Innovative teaching is a necessity for all teachers in order to meet the educational needs of the new generations.
- However, teachers' competency for innovative

teaching is a key factor influencing innovative teaching performance.

- Some research points out that many teachers lack competencies for innovative teaching!

Innovations in Teaching Methods

When we think of innovation nowadays, we usually think of technology. However, in a field such as education, it's just as important to focus on innovations in areas such as child psychology, learning theories, and teaching methods. This is particularly true at a time when many educators believe that the U.S. education system is failing. There are quite a few areas where innovations in education will help improve the system for everyone.

Focus on STEM – It's important for educators to prepare students for the future by empowering them with the foundational skills they need to succeed later in life. This includes focusing on STEM (science, technology, engineering, and math), where the United States is currently ranked 31st in the world.

Addressing the Needs of Individual Students – Another longstanding problem in education is the one-size-fits-all approach. It's well known that everyone has different styles of learning. Some students are visual learners, while others are verbal or auditory learners. Technology allows teachers to individualize lesson plans to different students and their unique styles of learning.

Practical Education and Soft Skills – One criticism of education is that it's impractical and doesn't prepare students for living in the real world. When it comes to actually teaching students how to become innovative thinkers, they need to learn leadership skills, to be encouraged to think creatively, and to be taught independent thinking and learning. Innovative classrooms are beginning to place more emphasis on the soft skills needed to thrive in today's world.

Education is the Foundation of our Economy....

- In today's innovation economy, education becomes

even more important for developing the next generation of innovators and creative thinkers.

- However, there is a significant gap between the potential of modern education and what many students are actually learning.

Innovative Tools

Multimedia Learning Process

- Multimedia, is the combination of various digital media types such as
- Text,
- Images,
- Audio and
- Video into an integrated multi-sensory interactive application or presentation to convey information to an audience.
- Traditional educational approaches have resulted in a mismatch between what is taught to the students and what the industry needs.
- As such, many institutions are moving towards problem based learning as a solution to producing graduates who are creative; think critically and analytically, to solve problems.
- Many institutions are moving towards problem-based learning as a solution to producing graduates who are creative and can think critically, analytically, and solve problems.
- Since knowledge is no longer an end but a means to creating better problem solvers and encourage lifelong learning.
- Problem-based learning is becoming increasingly popular in educational institutions as a tool to address the inadequacies of traditional teaching.

Why Needs Innovation In Education?

- In day by day teaching in classrooms teachers have to possess various types' experiences.
- Sometime they feel a lot of trouble while teaching the children because they find the responses very little.
- What are reasons of stumpy outputs by teacher's hard efforts?
- Try to find out the reasons behind this and let's find out the innovative solutions of such problems faces by teachers within the classrooms.

Answer is simple:

- Innovations are always needed because every problem needs its solution; so it is the need of the time to discover something new and useful in education.
- When teacher act as a well skilled and well professional teacher, he does his best.
- If a teacher does not understand the needs and problems of the students then how he can ensure student's learning effectively?
- So when a teacher faces any problem, he motivated to an innovation.

Skills for Innovation

Skills for innovation can be grouped into three broad categories:

- Subject-based skills, which represent knowledge and knowhow in a particular field.

- Thinking and creativity, including both higher-order skills and creative cognitive habits. These competencies include critical faculties, imagination and curiosity.
- Behavioral and social skills, including skills such as self-confidence, leadership and Management, collaboration and persuasion.

Innovative uses in multimedia

- The teacher uses multimedia to modify the contents of the material.
- It will help the teacher to represent in a more meaningful way, using different media elements.
- These media elements can be converted into digital form, modified and customized for the final presentation.
- By incorporating digital media elements into the project,
- The students are able to learn better since they use multiple sensory modalities.
- Which would make them more motivated to pay more attention to the information presented and retain the information better.

Finding Innovative Applications of Technology

There are countless innovative ways to use technology to better teach and engage students. Here are some examples:

Robots in the Classroom – Schools have experimented with robot teachers. This makes lessons more interesting and entertaining for kids and enables teachers from anywhere in the world to be “present” in the classroom.

Mobile Technology – Smart phones and other mobile devices are increasingly used in education. Mobile apps let teachers conduct digital polls, enhance verbal and presentation skills, and incorporate technological skills with core competency lessons.

3D Learning – Kids enjoy 3D games and movies, so why not use this technology to help them learn? GEMS Modern Academy in Dubai does just this, providing students with a 3D lab that offers interactive multimedia presentations.

Assisting Special Needs Students – Assistive technology is especially useful for students with learning disabilities. For example, phonetic spelling software helps dyslexic students and others with reading problems to convert words to the correct spelling.

The Future of Education

- Technology and other changes in society demand innovation in education.
- While many schools face challenges such as underfunding, unengaged students, and outdated curriculums, innovation offers a path forward.
- Innovation isn't just important for businesses. In many ways, education stands to benefit the most from both utilizing and teaching innovation in the classroom.
- By exploring new and better ways to educate students and also teaching the skills students need to become innovators themselves.
- Today's educators can have a tremendous impact on

- the future of our world.
- If you are an educator looking to jumpstart innovation in your school, check out how I and my team can help.

Conclusion

Improved measurement must be the foundation of innovation in education. Education needs a strong and efficient system of knowledge creation and diffusion, extending from scientific research into teaching and learning, to the more applied bodies of knowledge in the teaching profession and knowledge entities in the system. Effective innovation strategies in education must include an appropriate governance model: identifying key agents of change and champions, defining the roles of stakeholders, tackling pockets of resistance, and conceiving effective approaches for scaling and disseminating innovations. Finally, innovation in education requires strong evaluation. Without a broad and widely shared culture of evaluation, innovation in education will remain stuck at the level of well-intended but isolated pioneering efforts. Finding out what really works, what doesn't and why is key to

developing a body of knowledge that can guide future innovations.

References

- Aviate, F., G. Jacobin and S. Vincent-Lancing (2013), "Educating higher education students for innovative economies: What international data tell us", *Tuning Journal for Higher Education*, Vol. 1/1, pp. 223-240.
- Foray, D. and J. Raffo (2012), "Business-driven innovation: Is it making a difference in education? An analysis of educational patents", *OECD Education Working Papers*, No. 84, OECD Publishing, Paris, <http://dx.doi.org/10.1787/5k91dl7pc835-en>.
- Kostoff, R.N. (2003), "Stimulating innovation", in L. V. Shavinina (ed.), *The International Handbook on Innovation*, Pergamon, pp. 388-400.
- Mitchell, J.M. (2003), *Emerging Futures: Innovation in Teaching and Learning in VET*, Australian National Training Authority (ANTA), Melbourne.