

EVOLUTION OF EDUCATION FROM WEB 1.0 TO 4.0

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ABSTRACT

The aim of this paper is to highlight evolution of education from web 1.0 to 4.0. In line with this purpose the researchers have done a thematic research methodology via personal experiences and university studies. As specialists in education, we have reviewed literature to gather evidence related to evolution of education. We have found that education has changed over time to meet learners needs. During the period of 1.0, teacher-oriented schooling overcame. Instructors were the main resource of knowledge; concerns of students were not respected. Industrial upheaval and establishment of universities in 18th century, effected the sector of education. This changed the concept of schooling which evolved education 2.0. It lasted until advanced educational technologies were designed in the beginning of twenty-one century. Students-led system of education was considered as pivot of learning and traditional education started to fade away. Students achieved the leading roles in their learning. Consequently, 3.0 of education was formed. Recently, Education 4.0 has been the norm following the digitalization of schools. Futuristic methods revolutionized education which led to education 4.0. It has become the preferred style of education which lines up with the evolving of continuing forth industrial revolution.

Keywords: Evolution, education.

INTRODUCTION

Education is not static but a dynamic process which changes overtime. Schooling has evolved significantly through different steps and circumstances. Humankind commenced accumulating and transferring information via word of mouth, passing down knowledge regarding creatures, seeds, and the planet to each successive generation. There has been a great deal of adjustments in the way that scholars learn over the past hundred years. Students are not getting the same form of schooling which their forefathers received. Our previous generation were more acquainted to the



old-fashioned classrooms, where a lecturer would educate a group of 20 or more students in an accustomed place such as a classroom. For today's scholars, schooling has undoubtedly advanced to a superior level. Education currently presents better chances and more elasticity because everything has shifted; from the way we design courses, to teaching techniques and to who we share our classrooms with. Most of the alterations over the last century have sought to make a new paradigm in the educational world—centers where everyone can learn.

Therefore, conducting research on how education has advanced, can help us better recognize the ways in which elements in educational system have enhanced or discarded. Moreover, such studies will help prepare us for where teaching and learnings are headed. In the process of educational evolution, educators need to find out the means required to maintain sustainable educational renovation and assist to develop a solid labor force. Current research will provide a vivid knowledge for educationists who need to work in the direction of educational transformation. It provides an evolutionary perspective and introduces skills such as ingenuity, cooperation, research, and technological advancement which advanced education from 1.0 to education 4.0. with its impact on sustainable development.

PAPER RATIONALE

The purpose of this research is to explain the evolution of education and its role in long-term sustainable development. Our educational experiences reveal that education is developing and upgrading itself via a constant adaptation to the social changes and to demands and the goals of learners. We need to understand the evolution of education to direct educational activities towards student's goals and expectations and equip them with the abilities to be competitive in the labor force. Understanding the evolution of education can inspire our educators and scholars to be flexible, cooperative, and self-sufficient so that they will be able to flourish and thrive in this progressively technological age.

Having knowledge regarding the evolution of education is significant from the following perspectives:

- Understanding the direction of educational evolution.
- Respecting the learner's needs, circumstances, and career goals.
- Identifying the educational obstacles and updating its programs.
- Directing educational activities towards sustainable development at a global level.



LITERATURE REVIEW

Prior to reading the relevant literature we need to clarify certain expressions used in the paper which are explained below:

Sustainable development: This is a central reference point to achieve human improvement goals. It is a core assumption we value to emphasize our essential vision of the future.

Education: This is an activity targeted at accomplishing variety of objectives, such as learning or building skills.

Evolution: This is an procedure by which various forms of living organisms are thought to have improved and differentiated from previous forms.

Educationnel evolution: It is a process in which educational goals, methodology, tools and other essential elements changed through different steps. It is a forthcoming-focused maintainable outline receptive to adjustment, creativity, and invention of all skills that our students will want to use to flourish and be efficacious in their professions. This is a voyage of greatness that is required now more than ever.

(Makrides, 2019) one of the important points that educationists should be prepared for is solving future skills challenges. Skills are the most significant investment for the future workforce. The rate of revolution may outpace the ability of existing methods and policies to respond effectively. Moreover, educational curriculums are progressively at risk of being obsolete. Almost fifty percent of subject information obtained during the first year of university will be outdated by the time Scholars graduate. Therefore, teachers should prepare students for jobs which do not still exist.

(Daggett, 2020) has a futuristic discussion regarding evolution of education and distinguishes between educational evolution and revolution. He prefers evolution over revolution. Based on Daggett's explanation, evolution comes gradually and lasts long while revolution comes once and gets dies soon. Daggett considers evolution in education as point where students are good at communication, problem solving, and creativity to be ready for today's workforce. But, in his elaboration he does not clarify differences in educational levels of web 1.0 to 4.0, which requires a new study.

(Devi, 2021) Sustainable development is a phrase used to guarantee how progress takes place in such a way that environmental assets are safeguarded and given to the prospective generations. It signifies a balance in development of environmental protection and that of the economy. Poverty, hunger, war, diseases, and natural disasters are

the most serious challenges on the way of sustainable development.

(Muthukumarana, 2022) Official schooling is thought to have initiated in Greece at about 4 BCE. Indeed, the word “school” arrives from the Greek word “schole”, which represents “leisure”. This gives the idea of how education was understood back then, as a pleasurable pursuit instead of a boring task. Technological advancement and its application to the classrooms has evolved in education. The Internet, computers, electric stylus and digital tablets have filled our teaching spaces and have almost entirely substituted pen and paper learning. Such equipment has utterly revolutionized teaching and learning in more involving and available approaches, opening the door for “leisurely education” as the Greeks meant it to be.

After reviewing the related literature, the researchers found out that most of the existing resources have different discussions on evolution of education. One of the common features of all the reviewed literature is that none of them had a clear and complete elaboration on evolution of education from web 1.0 to web 4.0. Such missing points in those resources motivated us to accomplish a fundamental study and present a clear understanding of the evolution of education and its impact on sustainable development.

RESEARCH METHODOLOGY

From method point of view, current study is an applied research with a qualitative paradigm and descriptive methodology. In this paper a thematic study approach is used and then enriched via individual practices from school and university findings. Also, the researchers evaluated literature to assemble comprehensive theories attached to the evolution of education from web 1.0 to 0.4. and its impact on sustainable development.

ANALYSIS AND DISCUSSION

From compulsory education for kids under 18 to the distance studying revolution, the last century has seen so many variations in the way teachers teach, and scholars learn. The goal of education has been evolving depending on the view of society, teachers, and the families. Society has had various influences on schooling as well. Originally, educational organizations were driven by religious concerns, ultimately it developed more about political regime interest and now it is in most cases about guaranteeing that individuals have a benefit of a global understanding. There was a period when instructors would educate the way they had studied, with no respect to the demands of the learner. Families primarily used schooling as childcare as they walked off



into the manufacturing work places. Later it was about capacity training, supporting competences and skills that would serve students later life. Lately, teaching has become the instrument applied to prepare students for the competitive realm of the labor force. Teachers used to always work on a basis of cruelty, as they required a set of principles and performance for students. In short, the results of studying the status of education from web 1.0 to 4.0 are illustrated below:

Education 1.0

➤ Teachers were authoritarian and believed they could deliver any content at their own space and way, and students will learn if they could.

➤ Education progressed into a level with little respect to the needs of the students. Instructors were despotic; the system was teacher-centered, students were passive participants and technology was forbidden in the classrooms.

➤ Parents cared while teachers imposed.

➤ Society was driven by religion.

Education 2.0

➤ Educators assumed they could adjust how and what they taught so that it gave students the best chance for success.

➤ Interaction and cooperation began to grow.

➤ Students had to memorize all the notes which teachers gave.

➤ Class activity was based on exam-based approaches.

➤ Hours of teaching were counted rather than hours of learning.

➤ Capability was important while teachers imprinted.

➤ Society was driven by government.

Education 3.0

➤ instructors believed they can provide the sources and content which students need.

➤ Students can learn whatever they want in a way which works for them.

➤ Educators would be available to help students.

➤ Education was competitive.

➤ Society aimed for advantage.

Education 4.0

The prospect of schooling is what the great educators have sought over the ages to motivate and inspire learners to learn and use their abilities.

➤ Innovation and creativity are accelerated

- Learning is whenever and wherever while skills are built at schools.
- Flipped classrooms are utilized and technology is applied.
- Teaching and learning are personalized.
- Learning is practical.
- Educationists inspire scholars.
- Classrooms are democratic more than ever before.
- Classrooms are chaotic and noisy which makes it difficult to manage.

Therefore, it requires professional skills to be a teacher or trainer.

CONCLUSION

Education has constantly been transmitted from one generation to another. After schooling steadily progressed into the specific places called “classroom” certain new norms and regulations were also made. The development of Ed tech provides the prospect to support a high-quality schooling and revolutionize traditional educational strictures into a modern one

In the process of educational evolution from web 1.0 to 4.0, factual learning changed to learning how to solve problems and work on projects in order to meet students professional and personal goals. The effect of these shifts is not confined to the old-fashioned classroom educator role. Presenters, writers, trainers, and mentors all should scrutinize their instructional techniques and review where enhancements can be made.

In web 1.0, teacher-oriented model of education was the norm. Instructors were the leading source of learning. After some advancements, the sector of education evolved into 2.0 which students received more authority and responsibilities for their learning. Such students-oriented system of education facilitated further success and stepped towards web 3.0 of education. In 3.0 teachers shift their roles from teaching to guiding and were not the center of all educational activities anymore. Accordingly, 4.0 of education was developed which is the most useful and closest target for professional and personal success of students. The outcome of 4.0 of education in the forms of innovation, technological advancements, problem solving, and enhanced communication is impacting sustainable development in different countries.

Finally, to achieve sustainable developments, all teaching methodologies should be more balanced, scalable, and replicable. Additionally, usage of technological advancements in education, help students to adjust themselves instantly to the workforce.

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