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Education 4.0: Bridging the Gap between the Fresher's & Industrial Expectations

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Abstract

Today, the world moves towards Digital era. Everything in every single field has started to move towards digitalization. In the field of Education, the impacts and changes, which are made by digitalization, are acknowledged by everybody. The dominant utilization of Technology in the field of training can change the nature of education. The present study endeavors to concentrate on the desires of the industries from the fresher's and how far education 4.0 encourages the students to meet the desires of the Businesses and Industrial World. Education 4.0 clears another portal for the students to accomplish their objectives

Keywords: Digital era, digitalization, technology, education 4.0, utilization.

Introduction

In current Scenario, the big problem that arises before the students is Job Opportunity. Thousands of students pass out every year from all higher educational institutions. Among them, only 25% - 30% are being placed. The rest of the students remain unemployed or take up jobs which are not related to their field. The Students and youngsters do not possess the skills expected by the industrial sectors. Why ?It's a big question marks for us. They complete their degrees with minimal score in the respective subjects. Then, why can't they meet the expectations of the industries? It's because of the learning method.

Learning is the most important process which helps us to meet with the changes. So the learning process is an important one. Think about us... having a learning software running inside us. We came into the world with the basic programming. Let it be Learning 1.0. From our

mother and family, we learned by trial and imitation. Years later, we went to school and upgraded to Learning 2.0. Here we adapted to societal way of thinking about problems and interacting with others. When we left school, we were free and began to direct our learning towards our specific life, work goals and problems. We programmed our self for Learning 3.0.

In the meantime, there is a drastic change in the Information Technology. Previous learning upgrades have become inadequate in this new environment. It's the right time to upgrade to Education 4.0. It's the vision for the future of education. Education 4.0 responds to the needs of future era, where man and machine align to enable new possibilities, harnesses the potential of digital technologies and establishes a blueprint for the future of learning, a lifelong learning, from childhood schooling, to continuous learning in the workplace, to learning to play a better role in the society too.

Company Expectations from Fresh Recruits

Communication Skills

All the complicated theories and laws are of no use if the candidate cannot communicate his thoughts in proper words. They may have to communicate with foreign delegates and important clients when they hold significant positions in the firm or organization they join. Good knowledge of English and the ability to communicate effectively thus play a vital role.

Knowledge beyond the Textbooks

Very often, the firms and organizations look for individuals who can go beyond the books and think brightly. You need to be logical and think intellectually. To be an ideal candidate for global firms, you should think like an inventor. The great companies are always seeking wonder brains who come up with such innovative ideas. You can be their ideal candidate if you prove to them your true worth.

Ability to Lead & Positive Approach

Most of the students today just follow the path shown by great minds of the past. If you wish to be hired by one of the leading companies, you must possess the ability to lead. Even during the interview process, you should be able to reveal your true leadership skills by your college or school event examples. The job of any candidate is not easy. It is a path full of many challenges and you need to possess the courage to face these challenges. A positive approach is thus a must in the career of all candidates

Updated with Latest in Technology

The greatest risk of being in the field of technology is that the technology existing now can become obsolete some day. You must be prepared to upgrade your skills to match the latest in technology. Individuals who fail to stay updated become jobless.

Knowledge of Foreign Languages

Knowledge of foreign languages is always an added plus in the engineering field. If you know languages like French, German, Spanish, Italian and Swedish languages, they can help you deal with senior level executives in international projects. If you wish to strengthen your profile, it is a great idea to learn some foreign languages.

Ambitious

The career has its ups and downs and people who are not willing to take up risks or who give up too easily are never fit to be engineers. Engineers are expected to be ambitious. It is the undying fire of desire that helps them achieve difficult career goals all too easily. You need to be determined and ambitious if you really wish to be a successful engineer.

The above listed common traits are lacking in most of those unemployed youngsters. If you incorporate and inculcate these traits in your psyche, no one can stop you from being successful.

Educational System

Today's education system may be good to score marks, but fails to retain the knowledge once students have completed their examinations. This leads to young minds being stifled at an age when they should be asking questions, learning and gaining knowledge, and developing a thirst for more knowledge.

This leads to lack of innovating or inventing capabilities despite the fact that lakhs of engineers and scientists graduate from their respectable academic institutions year after year, but go without making any substantial contributions to the existing scientific knowledge pool.

For instance, in mathematics, there are several ways a particular problem can be solved. "But here, what the researcher sees is that although he gets the answer right, his marks are deducted because he has used a different method than what his teacher taught him. It is evident that the teachers want them to do precisely what they teach them, and the children blindly follow this rote learning, bookish ways," says Rao.

Education 4.0

With Learning 4.0 you are more imaginative. The students use their immense brain power to create immersive, but imaginary, virtual reality futures that subconsciously and consciously motivate your learning and guide your actions. You are also more anticipatory and predictive "as a 4.0 learner you hear very subtle calls to learn before others do" sensing them in emerging strategies, recognizing them in barely detectible disturbances that could later become problems

and crises. With your 4.0 learning capacity, it is also more common to *leave your comfort zone* in order to pull learning from any experience” whether it suits your learning style or not.

“**The future of education**” is therefore a new vision for learning, starting right now

- More important to know why you need something, a knowledge or skill, and then where to find it – rather than cramming your head full ... don't try to learn everything!
- Built around each individual, their personal choice of where and how to learn, and tracking of performance through data-based customization ... whatever sits you
- Learning together and from each other – peer to peer learning will dominate, teachers more as facilitators, of communities built around shared learning and aspiration.

Among the many discussions, innovations and general shifts in the world of learning – from school children to business executive – there are 9 trends that stand out:

Diverse Time and Place

Students will have more opportunities to learn at different times in different places. E-Learning tools facilitate opportunities for remote, self-paced learning. Classrooms will be flipped, which means the theoretical part is learned outside the classroom, whereas the practical part shall be taught face to face, interactively.

Free Choice

Though every subject that is taught aims for the same destination, the road leading towards that destination can vary per student. Similarly to the personalized learning experience, students will be able to modify their learning process with tools they feel are necessary for them. Students will learn with different devices, different programs and techniques based on their own preference. Blended learning, flipped classrooms and BYOD (Bring Your Own Device) form important terminology within this change.

Field Experience

Because technology can facilitate more efficiency in certain domains, curricula will make room for skills that solely require human knowledge and face-to-face interaction. Thus, experience in ‘the field’ will be emphasized within courses. Schools will provide more opportunities for students to obtain real-world skills that are representative to their jobs. This means curricula will create more room for students to fulfill internships, mentoring projects and collaboration projects (e.g.).

Data Interpretation

Though mathematics is considered one of three literacies, it is without a doubt that the manual part of this literacy will become irrelevant in the near future. Computers will soon take care of every statistical analysis, and describe and analyse data and predict future trends. Therefore, the human interpretation of these data will become a much more important part of the future curricula.

Mentoring will become more important

In 20 years, students will incorporate so much independence in to their learning process, that mentoring will become fundamental to student success. Teachers will form a central point in the jungle of information that our students will be paving their way through. Though the future of education seems remote, the teacher and educational institution are vital to academic performance.

These are exciting, provocative and potentially far-reaching challenges. For individuals and society, new educational tools and resources hold the promise of empowering individuals to develop a fuller array of competencies, skills and knowledge and of unleashing their creative potential.

Indeed, many of the changes underway call to mind the evocative words of Irish poet William Butler Yeats that, “Education is not about filling a bucket but lighting a fire.” Technology has become integrated into virtually every aspect of work. And because we spend so much time working, work really is the place where we most directly feel the impact of developing technologies. From collaboration to productivity; from new ways of approaching workspace design to the increasing ability to work from virtually anywhere; and from hiring and recruitment to new skill sets—it is a time of experimentation for companies and organizations as trends in technology converge to change what it means to work.

Conclusion

Quality rather than just qualified educators have to be identified from a large cross-section of Indian society. Education, like healthcare, should be seen as a vocation rather than a career. A vast majority of Indian teachers are not exposed to new age learning and teaching methods. We need globally networked learning hubs rather than anachronistic BEd colleges that churn out these teachers. Education 4.0 is about accelerated and personalised learning rather than high handed teaching. Teachers have to evolve from being ring masters to Zen masters who would enlarge the horizons of knowing. Know-ability will have to displace knowledge reproduced from memory banks. Incumbent university structures will have to yield space and legitimacy to insurgent Khan Academies and Super 50s.

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