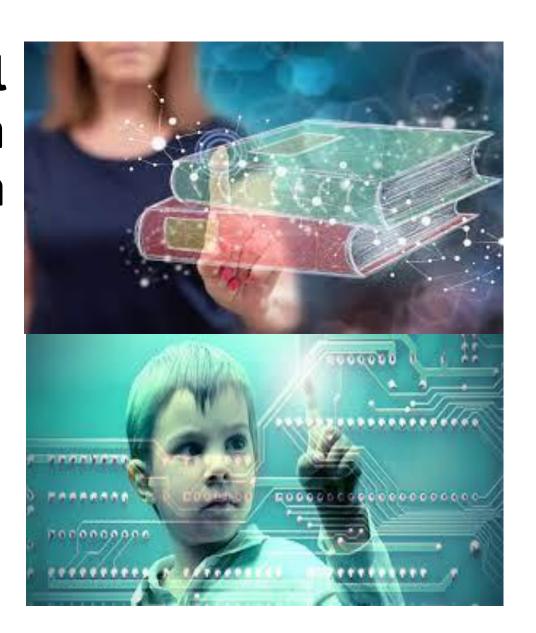
Impact of Digital Transformation in Education

Submitted by: Group 7

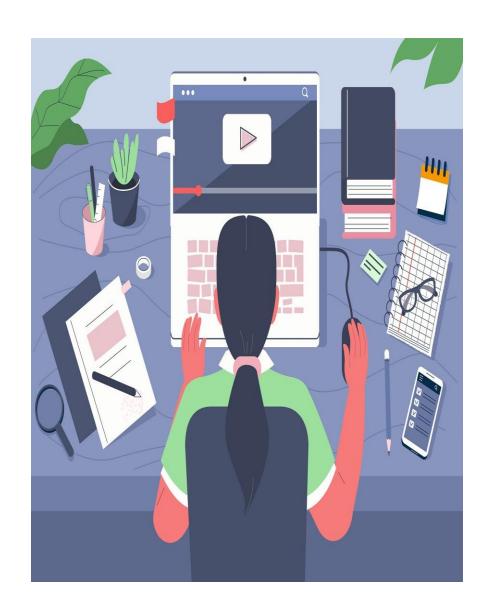
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Digital Transformation in Education

Problem Statement:

Study the current trends and adoption levels of latest technologies in education industry and challenges faced thereof, as part of this study we also evaluate how learning footprint can be further expanded using digital means



Assessment of Digital Transformation in Education

What is the significance of IT infrastructure in achieving strategic goals?

How ambitious are country/ industry approach to digital

technologies?

How "Digital" is current interface to the audience/ customer?

How will revenue get generated from future business operations?

What will be the future business scope of the education sector

Who should take charge of the digital transformation endeavour?

- > IT Infrastructure role is pivotal in meeting strategic goals for education sector as it enables technology which is an effective way to promote a healthy educational system worldwide.
- > Internet and broadband connectivity is the key. It makes learning more accessible, exciting, and enjoyable.
- > The development of IT infra and technological advancements in education leads to enhanced knowledge and skills of students.
- > Worldwide all countries want to move the dial in the right direction, penetration of education to all class of society is a universal goal along with inclusivity and diversity.
- > Digital medium can accelerate the reach and adoption of education, this has proven itself right as we notice that Education is making up more than 6% of global GDP.
- > The global online education market **grew to USD 250 billion** in 2020 from less than USD 190 billion in 2019.
- ➤ 3.6 billion people still have no access to the Internet and about 258 million children are out of school. For those enrolled and attending school, the COVID-19 pandemic created an unprecedented challenge, forcing 94 percent of learners worldwide to continue their education at home.
- According to global market research insights, online education has been projected to grow up to USD 586 billion by 2027.
- Faster and personalized experience in urban areas and expansion in rural gives wider scope for revenue generation for interested organizations.
- > A large share of revenue generation may come with smaller margins, yet deep penetration & reach, especially in developing countries and continents.
- > Faster, affordable, financially viable, sustainable and personalized solutions
- > Expansion in rural areas
- > Leveraging latest technologies IOT, Block Chain and Big Data
- > Augmented reality and virtual reality to give personalized and real time experience
- > Online Classes, Smart Classrooms, Analytics and AI to give personalized learning experiences
- > Government of respective countries will be the key enabler to build easier and good policies and encourage digitization
- > Public Private Partnership model can be a game changer here with government giving incentives to public companies in various shape and form

Main areas of Digital Transformation



Campus environment:



- · Contactless attendance
- Facial recognition through camera images
- Auto detection of free courts in play areas through thermal screening

Learning Environment



- Online assessments
- Virtual on boarding
- AR/ VR/ 4D to create enhanced learning experience
- Adaptive learning- personalizing assessments basis student performance
- Learning apps/ platform provides learning content
- Chatbots- allowing easy navigation through lectures and assessments

Teaching Methods



- Smart classroom
- · Digital white board
- Al driven online assessments
- Al-enabled remote proctoring

Traditional v/s Digital Education Comparison

Traditional Learning Advantages/ Disadvantages

Advantages:

- Interactive/ Expression of Opinions
- Practical/ Hands-on-training
- Development of social skills
- Extracurricular activities and inculcating leadership skills

Disadvantages:

- No flexibility/ Time bound
- Limited number of students
- Additional cost of textbooks/ transport/ activities etc.
- Reliance on lectures & notes from the teachers resulting in less/ no research by students

Digital Learning Advantages/ Disadvantages

Advantages:

- Provides flexibility
- · Access to study material/ lectures on demand
- Access to all kind of courses/ competent teachers from home
- Higher degree of ownership

Disadvantages:

- Requires high-quality internet connection
- Requires lot of self discipline
- Challenges in acquiring social skills
- Practical knowledge/ understanding required in certain fields like agriculture, medical etc. is missing

Exponential Growth in online education – an example (Coursera enrollment)

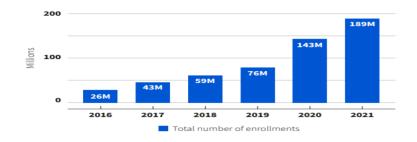
More learners are accessing online learning

2019

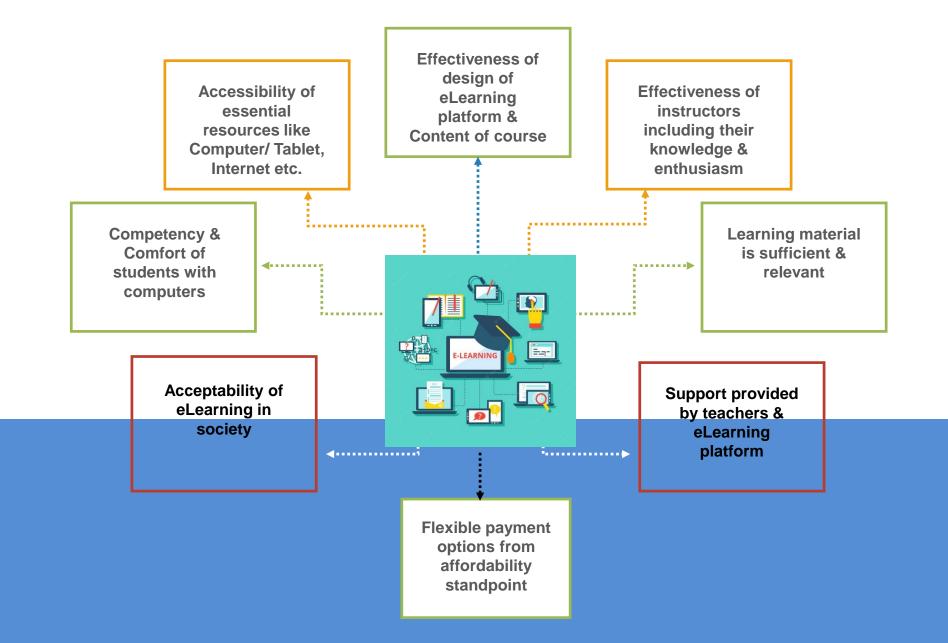
2020

100 2021

Total number of registered learners



Critical Success Factors



Online learning is now a worldwide phenomenon

Expanding access to world-class universities



+29% YoY Growth

NORTH AMERICA

39м **20**_M Enrollments +24% +26%

LATIN AMERICA

YoY Growth

17_M **27**_M Learners Enrollments +26% +32%

+32% YoY Growth

EUROPE

16_M **38**_M +26% +27%

MIDDLE EAST

5м Learners +39% +38%

+200% YoY Growth

ASIA PACIFIC

28_M

+35%

AFRICA

Professional Certificates

4,400

Certificates

33

the past year

New university partners













10_M Enrollments

3м Learners

+43%

5м Enrollments +50%

68_M

+35%

Enrollments















Top 10 countries with the most learners

Learners from around the world come to Coursera to build critical skills.



1. United States 17.3M



2. India 13.6M



4.8M



4. Brazil 3.7M



5. China 3.3M











Top 10 countries by learner growth

Emerging economies reported the highest rate of new learner growth.



110k learners















50k learners

1.3M learners





Coursera for Business

A growing number of companies used Coursera for Business to help their organizations develop the critical skills needed to thrive in a rapidly changing business landscape.

2,900Companies

620k
Business learners

1.7_M Enrollments in the past year 35% YoY growth **92%**Learners reported positive career outcomes

eLearning crosses the boundaries of racism, bias, and social justice.

eLearning makes education available to refugees, veterans, justice-impacted individuals and underserved high-schoolers.

Coursera for Campus

After helping universities quickly transition online during the pandemic, Coursera for Campus is now creating new opportunities for higher education to respond with agility to changing student expectations.

3,600 Campuses

3.8_M

4.1 M Enrollments in the past year **65**%

Campuses are using Coursera to help improve student employability 73%

Learners reported positive career outcomes



Conclusion

Challenges/ Opportunities

Challenges/ Opportunities:

- High quality affordable Internet is one of the biggest issue. Penetration of internet is at 47% in India which is the second highest in terms of Internet usage
- More research and innovation is required In higher education or streams where practical experience is required like agriculture & medical science
- In the field of learners with special needs like dyslexic, blind & deaf learners.

Future Trends in Education Industry

Innovations that will address most of the challenges listed above.

- Immersive technologies + Metaverse + Gamification
- · A la carte learning
- Hybrid learning will grow
- Personalized learning/ apps catering to students with special needs

