

About the Book

The Book “16 Challenges of Teacher Education in Indian Education system till 2020” designed and developed for the Students, readers, thinkers and social activists who are much interested in grasping the bases and challenges of Teacher Education in Indian Education System. This Book is not just an text prepared from an examination point of view, but is edited with an aim to highlight and discuss some burning challenges to Teacher Education in Indian Education System. I hope that this study, at a micro level makes an Endeavour to explore the extent of some educational problems and will bring about a positive change in the educational practice of those peoples who pursue it and discharge their on responsibilities.

Editors



Mr. Suman Ghosh (Born in 1984), is the Assistant Teacher in a Government high school of Nadia, West Bengal, India. He has more than 15 years of teaching experience in different institutions. Mr. Ghosh obtained M.A (English), B.Ed, M.A (Education) and has qualified UGC- NET and SET in Education. Presently he is pursuing his Ph.D. He has published more than 15 Research Papers in different national and international journals, edited books, seminar proceedings. He has presented papers in more than 10 national, international seminars.



Mr. Shiboprosad Mondal (Born in 1992), a State Aided College Teacher in Raja Rammohun Roy Mahavidyalaya, Radhanagar, Hooghly, West Bengal, India. Mr. Mondal obtained M.A. (Education), B.Ed., M.Ed. and a Certificate course on "Capacity Building and Professional Development on Inclusive Education". He has published more than 15 Research Papers in different national and international journals, edited books, seminar proceedings. He has presented his papers in more than 5 national and international seminars.



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Head Office:

90 Sainik Vihar, Mohan Garden,
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Edited by:
Suman Ghosh
Shiboprosad Mondal

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Preface

This book is edited, designed and developed for the students, readers, thinkers and social activists who are much interested in grasping the bases and problems in Indian Higher Education system. This book guides teachers, educators' trainees in learning about and applying the suggestion related to '*Teacher Education*' to serve learning and improvement in teaching practices. This book is not just an text prepared from an examination point of view, but is edited with an aim to highlight and discuss some burning problems related to Indian Higher Education System. We think you will find this book to be a reversing one because too little is written about the problems and practice in Teacher Education, especially for Indian context. This book, focuses on '*Teacher Education*' and hence the value of the book lies within this discourse, as a guide.

We hope that this study, at a micro level makes an Endeavour to explore the extent of some educational problems and will bring about a positive change in the educational practice of those peoples who pursue it and discharge their on responsibilities.

Mr. Suman Ghosh
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Acknowledgement

The Editors of this book take this opportunity to sincerely acknowledge the contributions of authors who have developed their own ideas around the concept of “**16 Challenges of Teacher Education in Indian Education system till 2020**” in the Indian perspective under different dimensions. Hope the book will be very helpful in developing national system of education in India.

The Editors of this book also acknowledge the well wishers for providing time to time support, cooperation and inspiration during the long period of this work’s preparation.

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Impact of Emerging Technologies in the Field of Teacher Education

Jitendranath Gorai

Research Scholar (Education), School of Education
Central University of Gujarat, India
Email: jitendranathgorai2013@gmail.com

Abstract: The era of technology, in the field of teacher education is the most vital to analyses how to work systematically with the help of technology? In the teacher education point of view teacher should be developed knowledge and proper implementation teaching learning process. Technological device and internet has the great role to dynamic changes in our world education system. Emerging technology work in the various way and it should modified day by day and also be update according to our requirement. Technology create revolutionary role in the modern society, and it's become easier teaching learning process in any sectors. Large impact on quality education in educational system whole over the world. Teacher education should more qualitatively, knowledgebase, policies and procedures designed to equip prospective school and wider community.

Keywords: Education, teaching, modern technology, era, revolutionary.

Introduction

In 21st century evolution of new technological aspect make great role of education system, it's become more powerful motivated, thought provoking, interesting, attractive and quality based for the teacher education. Teacher education refers to educating, preparation of new teacher in society (*Good, 1952*). Build new generation trainee who will qualitiful, have knowledge in pedagogy, social awareness who can contribute knowledge for a teaching position in any institutes

as well as schools. According to Goods Dictionary of Education Teacher education means, all the formal and non-formal activities and experiences that help to qualify a person to assume responsibilities of a member of the educational profession or to discharge his responsibilities more effectively. In 1906-1956, the program of teacher preparation was called teacher training. It prepared teachers as mechanics or technicians. It had narrower goals with its focus being only on skill training. The perspective of teacher education was therefore very narrow and its scope was limited.

As W. H. Kilpatric put it, Training is given to animals and circus performers, while education is to human beings. Teacher education encompasses teaching skills, sound pedagogical theory and professional skills.



Now come to the point of technology, in the modern digital era have to gain proper knowledge and training for habituation and adaptation ICT. Wilson (2014) Advancement of technology great play role in digital revolution by the help of technological devices has create become a paradigm shift, it's in the way we do things of which the entire landscape of education is included. Our work should easier by use of technology. Technology can impact on every field and most probably large amount of work depend on technology in the education system. In this time human works done fester by use of proper technological devices. Day by day human brain also developed new adaptation capacity of functions or action to work on the depend on technology.

Objective's

1. To study the impact on teacher education with the help of modern technology.
2. To study emerging technology can play role pandemic situation in covid-19 on Teacher education.

Some major use technology on the Teacher Education

We are use technology teaching learning process both without internet and with internet (online). Teacher education process always changing from the Upanisada period to 2019 draft (India). It's also changing Teacher centric to learner centric, more focus on student all round development. So here technology can vital role for learners all round development in any case.

Here technology create attraction during class period and try to give real life experience in the class room with the help of smart technical educational devices. The new concept of inclusive education in educational system both learners can learn together in the same class room. So here also technology help a lots on teacher education. Now come to discuss how technology helps for teaching learning process.

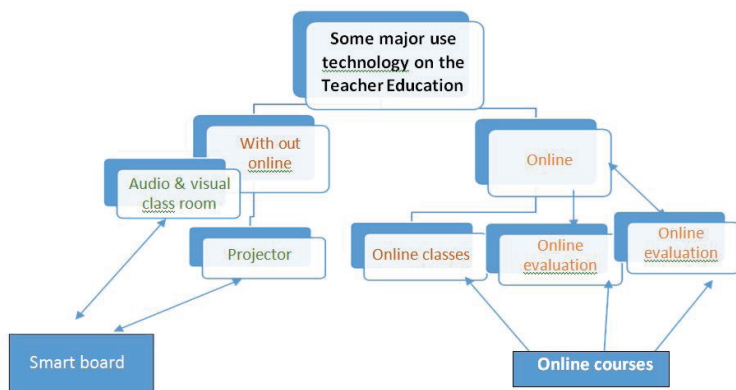


Fig. 1: *Role of technology without internet and internet*

In the teacher education technology can be categorise mainly two types-

- i) *Without internet devices:-* Here teacher can use computer or laptop for audio & visual purpose in class room teaching and its help to easily understandable and attractive for inclusive class room. Projector & smart board create huge attraction and concentration during classes and give full enjoyable learning environment.

- ii) *Connectivity with internet/ online devices:-* Through the help of internet connection learner can study with distance mode as well as class room also. Online educational devices different from the traditional use of teaching methods. Teacher should be more knowledgeable and advance about technology on computer and mobile phone then teacher can teach students.

Role of Emerging Technology During Pandemic Situation Covid-19 on Teacher Education-

In this pandemic situation covid-19 is going on all over world like India, China, Italy, France, New Zealand, Poland and UK etc. almost 1.3 billion of people are staying home in that situation only online mode of education largely depended all over the world. Smart devices like smartphone, laptop, computer, mobile phone usually only source of teacher education.

Emerging Technologies in Education

Computer, Laptop, Mobile phones, Radio, Excel spreadsheet, Tablet, Skype, Twitter, Social media (Facebook, WhatsApp), Microsoft Office Word, Presentation application, Digital camera, Camcorder.

Use of apps in pandemic for helping teacher education teaching learning process:-

Google meet	Video conferencing app, it has recording option, sharing. We can subscribe according to our need.
Zoom	Now most uses free app. Video conferencing apps, it has recording option, sharing. We can subscribe according to our need. If you want many meeting host it possible because 40 minute one meeting.
Go To Meeting	Instant meeting schedule you create.
Jitsi	Video conferencing apps, it has recording option, sharing. Free of cost app
Webinar	Online webinar if you will organise then this app help you.
Cisco Web Ex	If large no of participants then you can use this app, it also Video conferencing apps, it has recording option, sharing.
Google Hangouts	Video conferencing app updated version is google meet
Big Blue Button	This app also be help for online teaching learning process.

Impact on Teacher Education through Technology

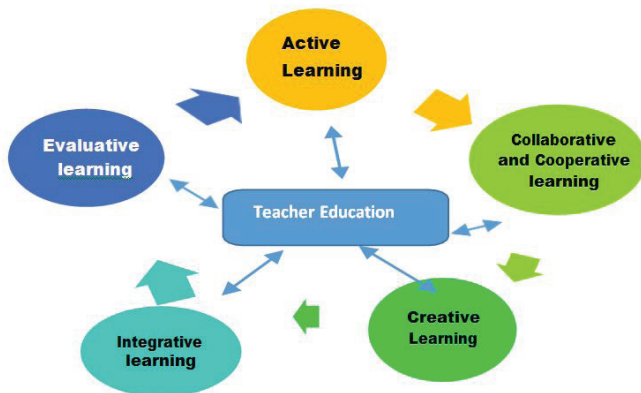


Fig. 2: *Impact of technology on teacher Education.*

Positive Impact

1. Technological devices can attract every kind of learners with the help of projector, cameras audio-visual in the class room.
2. 3D pic like real and create link to the existing things in the world so learners build their knowledge properly.
3. More concentration during class room.
4. No geographical boundaries can't stop learning from all over the world.
5. Learners can learned more different language from others countries as an online mode.
6. Teaching-learning process should be easy for teachers not carrying books.
7. Teacher have to opportunity to learned many things in the room only and apply in the practical field.
8. Students can learn not only school teachers, collages teachers, universities teachers but also learn from all over the world.
9. Save parents money on traveling.

Negative Impact

1. There is difficulty in building proper teacher-students relationship especially in online mode.
2. Writing skills will decline.
3. Many students can't afford modern technology.
4. Lack of experience teachers.
5. Lack of healthy environment in school.
6. Not supply electricity all time in particularly rural areas.
7. No internet connection is available with require speed.
8. Lots of difficulty faces dumps learners.
9. Great sources to cheat in exams like graphical calculators, high tech watches, mini cameras.

Some challenges of teacher education technological point of view like-

- 1.) Lack of knowledge about use of new technology for teachers and students.
- 2.) Connectivity problems
- 3.) Economic problems of a family.
- 4.) Lack of awareness of family's.
- 5.) Teacher should not proper guidance during online class.
- 6.) Students should not developed accurate knowledge without practical attachment.
- 7.) Not proper internet connection in rural areas.
- 8.) Teacher should not proper training for special children's
- 9.) Should improvement for online evaluation system.

Conclusion

Emerging Technology has positive and negative impact on teacher education. Day by day technology developed rapidly worldwide for the improvement out society and we are staying all time with technological gadgets. In modern time more focus on online education system but we also mind to remember, it should be

sustainable healthy environment which helps to developed our all round development of a learner.

References

1. Beringer, V. (2009, October 20) *For kids, pen's mightier than keyboard*. Futurity.org. Retrieved May 25th 2020 from <http://www.futurity.org/society-culture/for-kids-pens-mightier-than-keyboard/#more-4909>.
2. Bounds, G. (2010, October 5) *How handwriting trains the brain – forming letters is key to learning, memory, idea*. wsj.com. Retrieved April 25th 2020 from <http://online.wsj.com/article/SB10001424052748704631504575531932754922518.html>
3. Bransford, J., Brown, A., & Cocking, R. (2000). *How people learn: Brain, mind, experience, and school*. Washington, DC: National Academic Press.
4. Brill, J. M., & Galloway, C. (2007). *Perils and promises: University instructors' integration of technology in classroom-based practices*. British Journal of Educational Technology. 38(1), 95-105.
5. Akbulut, Y. (2010). *A structural model proposal for Turkish faculties of education regarding ICT integration indicators*. Contemporary Educational Technology, 1(4), 322-334. Retrieved June 6, 2020
6. Al-Senaidi, S. R., & Gawande, V. (2013). *Factors affecting adoption of ICT among Omani faculty members in Sultanate of Oman*. International Journal of Computing Academic Research (IJCAR), 2(5), 200-213. Retrieved May 6, 2020, from <http://www.meacse.org/ijcar>
7. Anamuah-Mensah, J. (2003). *Meeting the challenges of education in the twenty-first century*. Educational Reforms Commission. Accra, Ghana: Ministry of Education Youth & Sports. Retrieved May 5, 2020
8. Wenglinski, H. (1998). *Does it compute? The relationship between educational technology and student achievement in mathematics*. Princeton, NJ: ETS.