

**Course:
Critical
Understanding
of ICT**



By Dr. Pooja Manghirmalani- Mishra

Course: Critical Understanding of ICT

About the Course

This course comprises of combination of theory and practice. The theory part emphasizes on content related to technology knowledge for technology integration in teaching. In the practical part the student –teacher acquire knowledge and skills required for the application of ICT in classroom practices. This course utilizes a blend of on-line and in-class delivery methods.

MODULE I: ICT IN EDUCATION AND ITS IMPLICATIONS

Unit 1: Understanding of ICT in education

UNIT 1. a **CONCEPT** **and** **PRINCIPLES** **of ICT**

1.1 Introduction

- ✓ Need of ICT in Education

1.2 Concept of ICT

1.3 Principles of ICT in TL Process

1.4 Conclusion

1.1

INTRODUCTION (to ICT)



Information and Communications Technology (ICT) is an extended term for information technology (IT) which stresses the role of unified communications and the integration of telecommunications (wired and wireless signals), computers as well as necessary enterprise software, middleware, storage, and audio-visual systems, which enable users to access, store, transmit, and manipulate information.

1.1

INTRODUCTION (to ICT)



However, ICT has no universal definition, as the concepts, methods and applications involved in ICT are constantly evolving on an almost daily basis.

The broadness of ICT covers any product that will store, retrieve, manipulate, transmit or receive information electronically in a digital form.

e.g. personal computers, digital television, email, robots.

1.1

INTRODUCTION (to ICT)



Nick Bostrom says



ICT is the fusion of infrastructure and components that enable modern computing.

What is Critical Understanding of ICT

Providing practical experience and reflective engagement on critical issues related to Information and Communication Technologies in a workshop mode through presentations and seminars around selected readings.

1.1 INTRODUCTION (to ICT)



What is Critical Understanding of ICT

Engaging student-teachers to understand the role of ICT in education in relation to various policies and curriculum frameworks on ICT and in diverse socio-economic contexts.

1.1 INTRODUCTION (to ICT)



What is Critical Understanding of ICT

1.1

INTRODUCTION (to ICT)

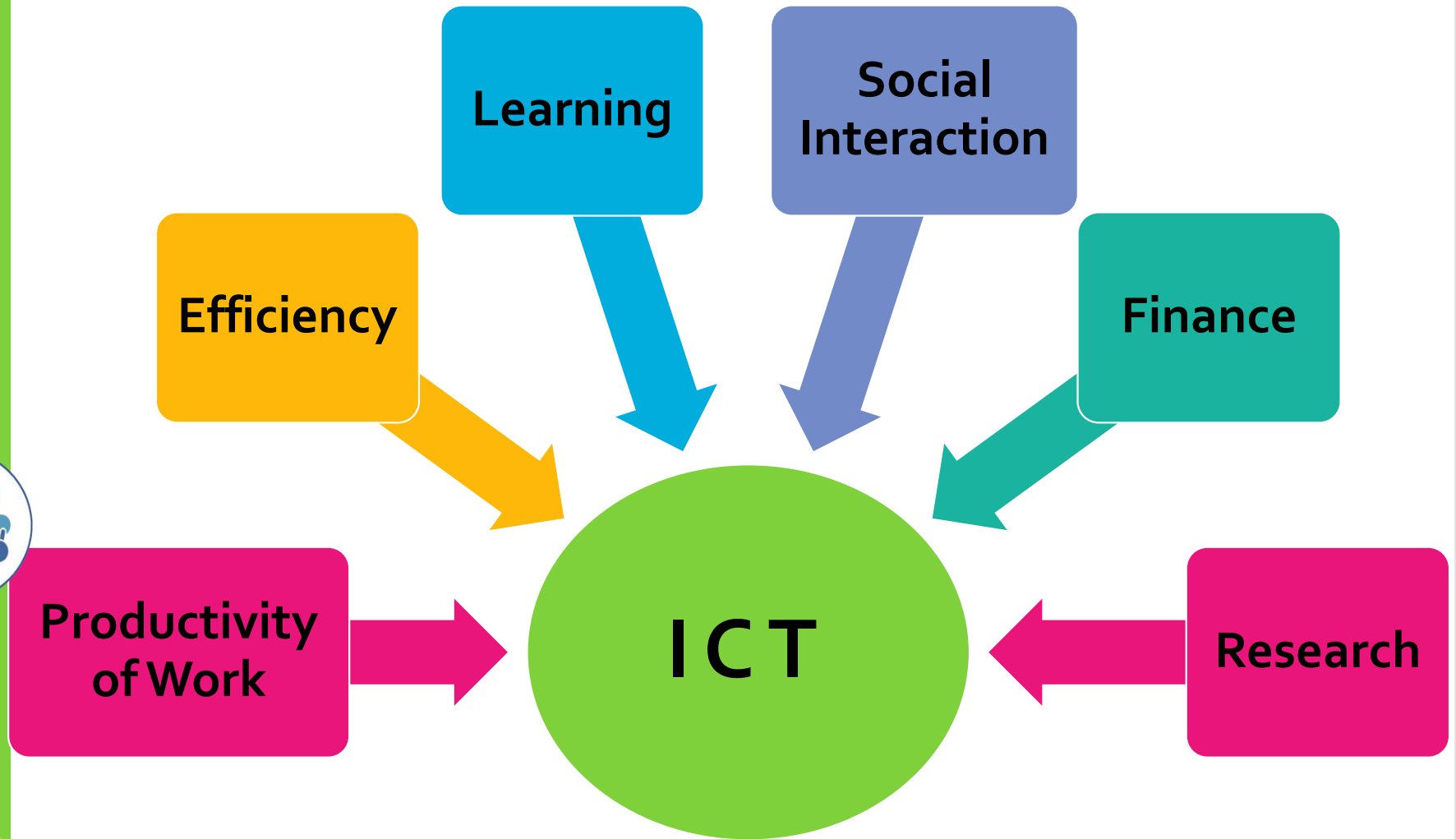


To assure that it provides a rich learning experience for student-teachers through various ICT tools to enable them ...

- ✓ To engage diverse classroom contexts
- ✓ To critically assess the quality and efficacy of resources and tools available
- ✓ To access and suitably modify open educational resources
- ✓ To develop their own pedagogic materials
- ✓ To pursue lifelong learning

1.1

INTRODUCTION (to ICT)



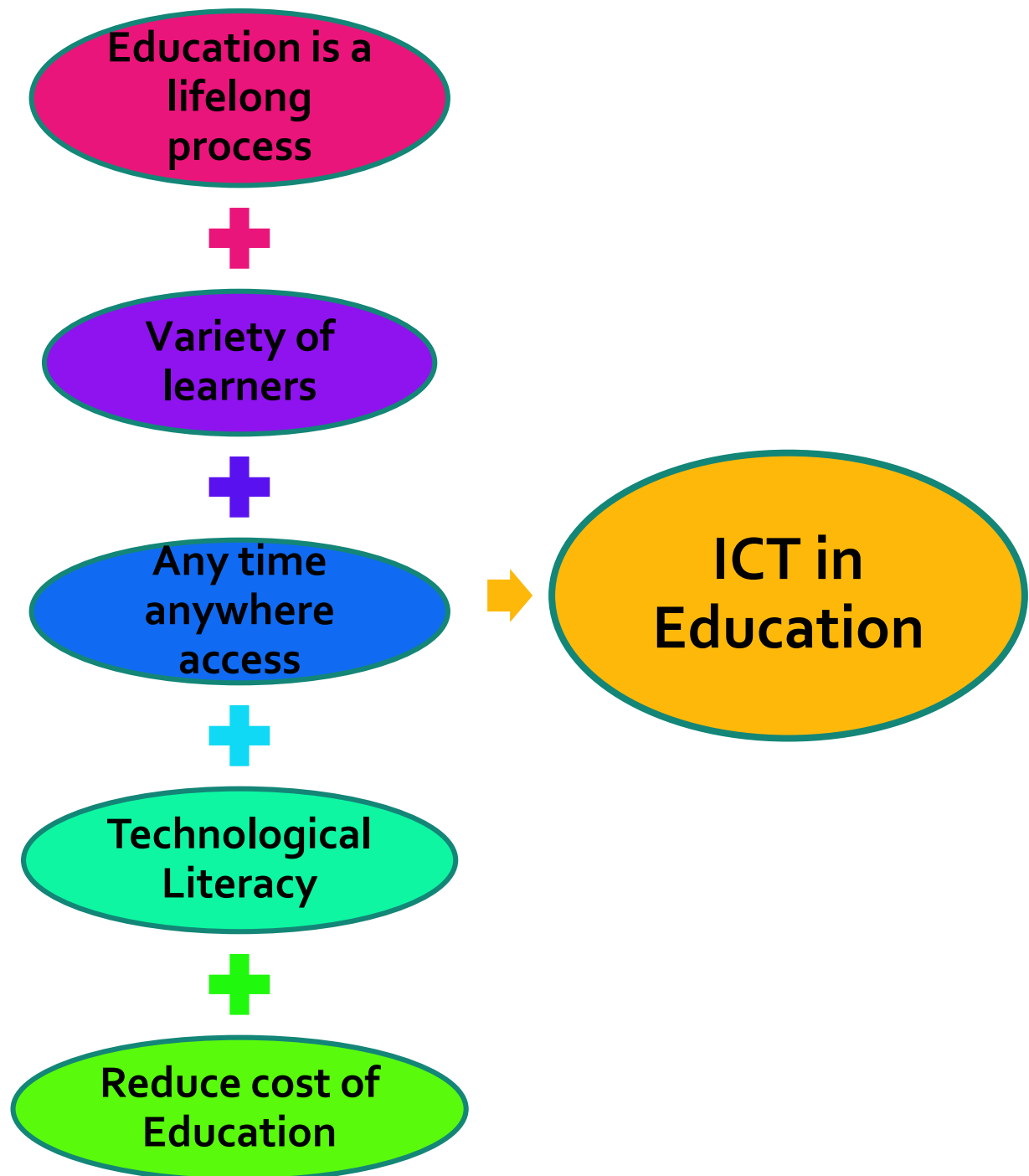
1.1

UNDERSTANDING THE NEED OF ICT IN EDUCATION



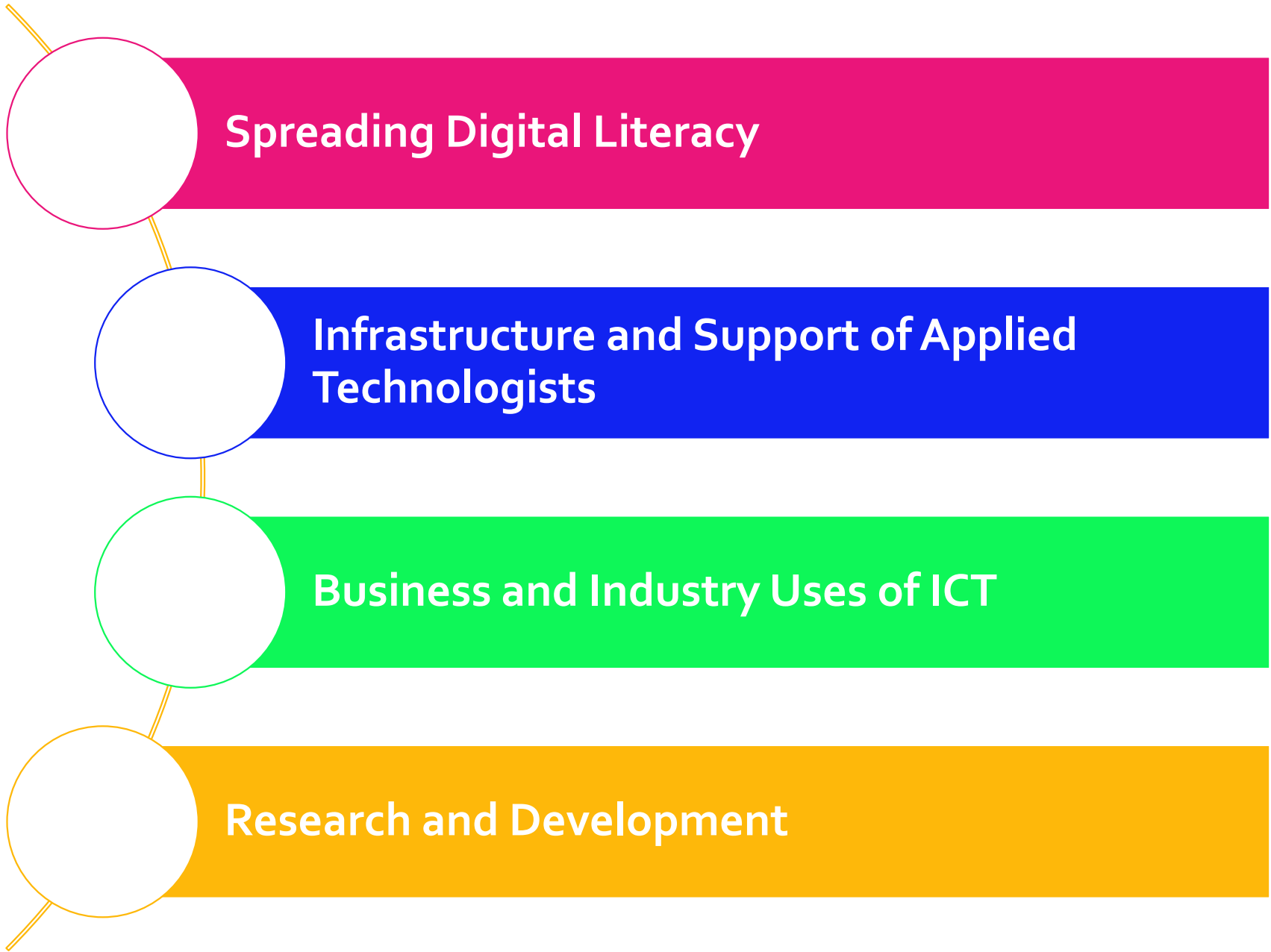
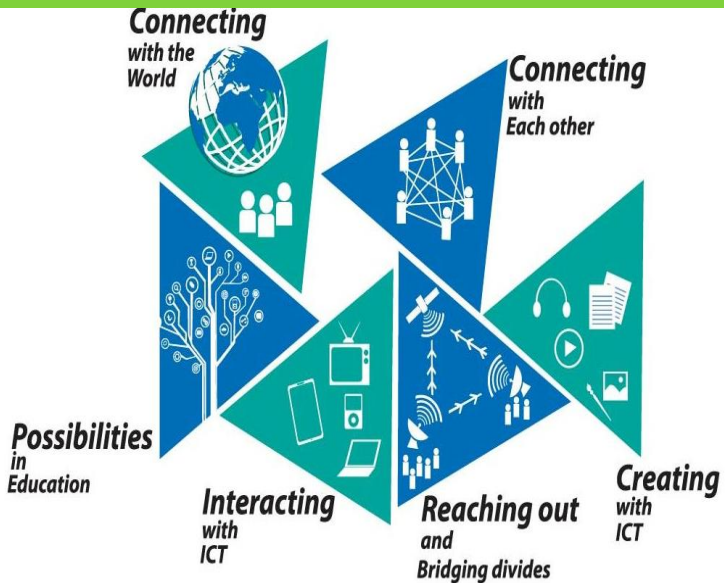
- ❑ ICT is having a major impact across all curriculum areas.
- ❑ Easy worldwide communication **provides instant access** to a vast array of data, challenging assimilation and assessment skills.
- ❑ Rapid communication, plus increased access to IT in the home, at work, and in educational establishments, could mean that **learning becomes a truly lifelong activity**.

1.1 UNDERSTANDING THE NEED OF ICT IN EDUCATION

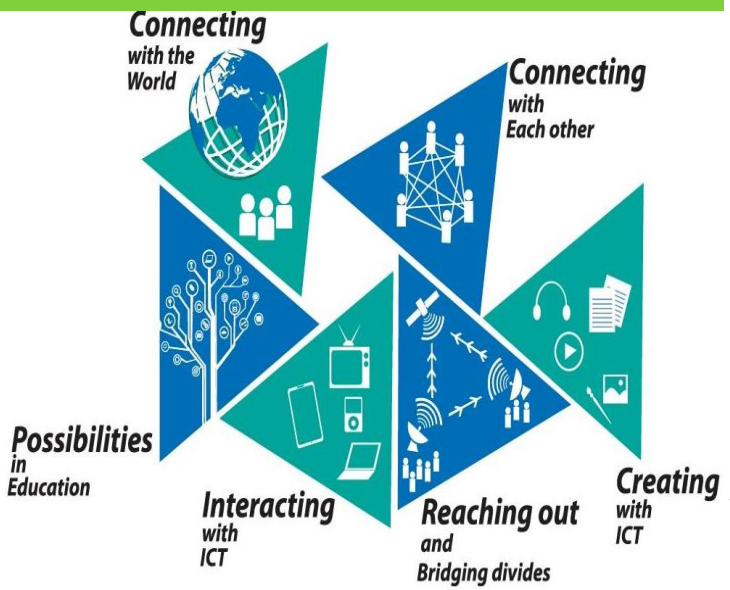


1.2

CONCEPT OF ICT

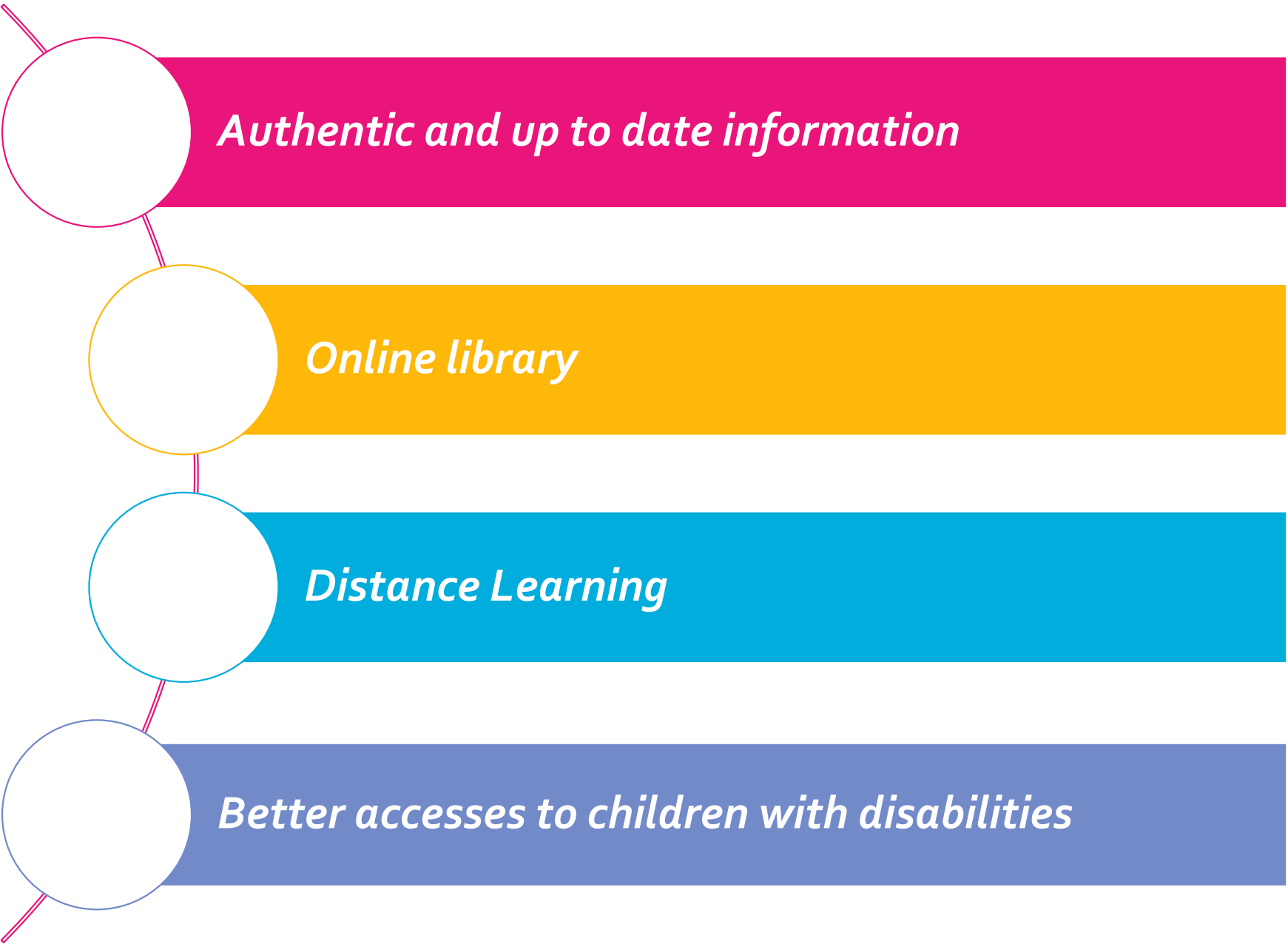


1.2 CONCEPT OF ICT



1.2

CONCEPT OF ICT



1.3 IMPORTANCE OF ICT (w.r.t TL Process)



What is a Teaching-Learning Process?

These are combined processes where an educator assesses learning needs, establishes specific learning objectives, develops teaching and learning strategies, implements plan of work and evaluates the outcomes of the instruction.

ICT in T-L Process is:

the real action time or period of imparting knowledge, skills and attitude to adult learners by the adult facilitator or through the electronic media.

Let us define the Importance of ICT

1.3 IMPORTANCE OF ICT



IMPORTANCE

1.4 CONCLUSION



**KEEP
CALM
AND
LISTEN TO THE
CONCLUSION**

ICT continues to evolve very quickly and has now become a fundamental tool in many aspects of everyday life, both at home and in the workplace. Because of this, it is essential that all pupils gain the confidence and ability within this subject to prepare them for the challenge of a rapidly developing and changing technological world.

Some Questions we can answer...



1. Discuss the meaning and nature of ICT in education.
2. Elucidate with appropriate examples the significance of ICT in education.
3. Elaborate on the concept evolving around the need of having ICT in education.
4. Discuss the importance of ICT with regard to Teaching-Learning Process.



References

1. Selwyn, Neil (2001). "Promoting Mr Chips: The construction of the teacher /computer relationship in educational advertising," *Teaching and Teacher Education* Vol. 17, pp3-14
2. www.challenges.openideo.com/challenge/future-of-highered/ideas/ict-based-education
3. [www. ictcurriculum.gov.in](http://www.ictcurriculum.gov.in)
4. Khirwadkar, A. (2005). *Information & Communication Technology in Education*. New Delhi: Sarup & Sons.
5. Khirwadkar, A. (2010). *e-learning Methodology: Perspectives on the Instructional Design for Virtual Classrooms*. New Delhi: Sarup Book Publication Ltd.
6. Zuppo, Colrain M. "Defining ICT in a Boundary less World: The Development of a Working Hierarchy" (PDF). *International Journal of Managing Information Technology (IJMIT)*. p. 19
7. "ICT in Education". Unesco, 2016.
8. Carnoy, Martin. "ICT in Education: Possibilities and Challenges." *Universitat Oberta de Catalunya*, 2005.
9. "Good Practice in Information and Communication Technology for Education." *Asian Development Bank*, 2009