Course: Critical Understanding of ICT

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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.
UNIT 1. a CONCEPT and PRINCIPLES of ICT

MODULE I: ICT IN EDUCATION AND ITS IMPLICATIONS

Unit 1: Understanding of ICT in education

1.1 Introduction
✓ Need of ICT in Education

1.2 Concept of ICT

1.3 Principles of ICT in TL Process

1.4 Conclusion
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.
Nick Bostrom says

ICT is the fusion of infrastructure and components that enable modern computing.
1.1 INTRODUCTION (to ICT)

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.
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

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

- Information Technology in Education, effects of the continuous developments in ICT on education.
- The pace of change brought about by new technologies has had a significant effect on the way people live, work, and play worldwide.
- New and emerging technologies challenge the traditional process of teaching and learning, and the way education is managed.
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.
Education is a lifelong process

Variety of learners

Any time anywhere access

Technological Literacy

Reduce cost of Education

ICT in Education
1.2 CONCEPT OF ICT

- Spreading Digital Literacy
- Infrastructure and Support of Applied Technologists
- Business and Industry Uses of ICT
- Research and Development
1.2 CONCEPT OF ICT

Connecting client, supplier and the distributor.

Integration with our daily needs

Revolutionizing economy concept to the economy with no boundary in time and space

Improvement in the quality of human life
1.2 CONCEPT OF ICT

- Access to variety of learning resources
- Immediacy to information
- Any time learning
- Collaborative learning
- Multimedia approach to education
1.2 Concept of ICT

- Authentic and up to date information
- Online library
- Distance Learning
- Better accesses to children with disabilities
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
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


3. www.ictcurriculum.gov.in


